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Mutsun Grammar

By

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to my parents

Fred and Mimi Okrand

PREFACE

It is with pleasure and gratitude that I acknowledge the guidance, encouragement and friendship of some of those who were most helpful during the preparation of this work:

- My teachers, Mary Haas, whose ideas about language in general, and American Indian languages in particular, are found on every page; Madison Beeler, whose careful philological work on Costanoan and other languages has set standards I have constantly tried to meet; and Bill Shipley, who first introduced me to both linguistics and Costanoan, and who has been a source of inspiration and support ever since;
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INTRODUCTION

'Mutsun' is the name commonly applied to the language of the Indians in the area around Mission San Juan Bautista in northwestern San Benito County, California. It is one of eight languages in the Costanoan family, itself part of the Penutian stock. There is good evidence that Costanoan and Miwokan form a sub-branch within Penutian, known variously as Utian and Miwok-Costanoan.

According to Levy (1972:2), in 1770 Mutsun was spoken by about 2,500 people living in several tribelets along the Pajaro River drainage, an area including northern San Benito and Monterey Counties and southern Santa Cruz and Santa Clara Counties. By 1917, the year Kroeber compiled his Handbook of the Indians of California, the Mutsun population, as well as that of other Costanoan groups, had greatly diminished:

A few scattered individuals survive, whose parents were attached to the missions of San Jose, San Juan Bautista, and San Carlos; but they are of mixed tribal ancestry and live almost lost among other Indians or obscure Mexicans. At best some knowledge of the ancestral speech remains among them.

[Kroeber 1925:464]

The use of 'Mutsun' as a linguistic designation goes back to at least 1815 when Father Felipe Arroyo de la Cuesta, missionary at San Juan Bautista, compiled his <u>Vocabulary or Phrase Book of the Mutsun Language of Alta California</u> (Arroyo 1862). The name was apparently used to refer to the principal dialect of the mission, and was subsequently used in an

extended sense for the language as a whole. Later, Powell used 'Mutsun' as a family name, corresponding to Miwok-Costanoan (Powell 1877:535-559). Kroeber (1925:465) locates a village called 'Mutsun' very close to Mission San Juan Bautista, but this is probably based only on the fact that 'Mutsun' was the name of the language of the mission. Levy (1972:1) refers to a village called 'Mutsun' lying to the west of the mission, on the Pajaro River in Santa Cruz County. In a letter to C. Hart Merriam dated December 3, 1929, John P. Harrington, on whose work the present grammatical description is based, provides a small amount of additional information. (The spelling 'mootsoon' is used because Harrington, in writing to Merriam, adopted the latter's transcriptional conventions.) He writes:

Whatever the name moot-soon is, it certainly is not the name of the village which stood at the site of San Juan [Bautista] Mission, for the earliest baptisms were not from there. That early writers, such as Taylor, have called moot-soon a village name, means nothing. And in the mission records of San Juan [Bautista] all such names are classed as village names... Ascencion [Harrington's informant] absolutely does not know whether it is a tribe or a village. But she knows the word....I do not see any way to ever find out. [Merriam 1967:389]

According to the baptismal register, the mission was founded in 1797 'on the spot called <u>Popeloutchom</u> by the natives' (Engelhardt 1931:5); this name remains impervious to analysis. The first year, 85 neophytes were at the mission, the number increasing to a high of 1,248 in 1823 (Engelhardt 1931:127).

The Indian population at the mission included not only
'Mutsunes', but also speakers of other Costanoan dialects, and
even speakers of non-Costanoan languages, notably Valley Yokuts
(Levy 1972:5). As a result, a certain amount of dialect mixture no doubt occurred. Arroyo de la Cuesta, responding to the
Spanish government's <u>Interrogatorio</u> of 1812 which asked for
information about the Indians under its jurisdiction, gave the
following account of the linguistic situation at the mission in
1814:

The Indians of this Mission and of this region speak the language of the district in which they were born, and although apparently of distinct idioms, these languages are not different except accidentally, that is to say, they differ in some terms, in the terminations, and in the rough or agreeable, sweet or strong pronunciation. Hence it is that the Indians in a circumference of forty or fifty leagues understand one another. [Engelhardt 1931:14-15]

Mutsun is the first California Indian language for which a grammatical description was published. Arroyo's grammar appeared in 1861, and the accompanying phrase book in 1862, though both were written almost half a century earlier (in 1816 and 1815, respectively). Arroyo's work, while suffering from transcriptional deficiencies and unavoidable incompleteness, is remarkably sound and forms a solid foundation for further study; even his errors give insights into the structure of the language. His phrase book served as the sole source of Mutsun data for early Costanoan comparative work (Kroeber 1910),

as well as for initial efforts in more general comparison, resulting in the positing of Penutian as a linguistic family (Dixon and Kroeber 1903, 1919).

In 1916, J. Alden Mason prepared a grammatical sketch of Mutsun based entirely on the phrases in Arroyo's collection.

To the present time, Arroyo's and Mason's work constitute almost all of the published data on Mutsun. The only other published information is quite sketchy. In 1902, C. Hart Merriam worked briefly with Barbara Solorsano who identified herself as Hoo'-mont-wash (in Merriam's transcription), literally, '(those) of the west', a group occupying the westernmost reaches of Mutsun territory. Some of Merriam's notes (consisting only of a few basket names and place or tribe names) were published posthumously (Merriam 1967:371-372).

In 1922, John Peabody Harrington, under the auspices of the Bureau of American Ethnology of the Smithsonian Institution, began to work with Ascension Solorsano de Cervantes, the daughter of Merriam's informant and Miguel Solorsano, also Hoomontwash. Mrs. Cervantes was born in May, 1855, in San Juan Bautista and was raised speaking her parents' language. She became a doctor and ran a small hospital in her home in San Juan Bautista. Harrington worked with her only briefly, but returned in the latter part of 1929. By then, Mrs. Cervantes, living with her daughter, Dionisia Mondragon, in Monterey, was dying of cancer and was quite weak, often in great pain. Harrington moved into a room in the basement of the Mondragon house and lived there from about August of 1929 until Mrs.

Cervantes's death on January 29, 1930. (Clarke 1930; Engelhardt 1931:118-120). Harrington says of his informant:

I have never known a woman with a better memory.... Sickness seemed to have made it even better, clearer and more spiritual. The circumstances produced the right condition for remembering.... When I found her she was in the middle stages of dying from a malignant tumor which had reduced her to the point where she could sit up only with the greatest difficulty.... When she began to put her mind on the happenings and the information she had picked up from old Indians long dead, it seemed to act like a tonic for her mind and body.... She gained a new interest in life and began to eat better and worked such long hours that we had to stop to make her rest -- she never stopped first. never took opiates, but she was dosing herself all the time with Indian medicines. [Clarke 1930:2]

In his letter to Merriam cited above, Harrington wrote:

The pressure of the work has been terrible on me since the informant is rapidly going down hill, and is so weak now that she can barely turn over in bed unassisted. But she is still able to talk, or rather whisper, although each attempt to whisper is likely to bring upon her a short spasm of coughing which ends in spitting frothy material into a cloth. A wheezy condition of her lungs set in three weeks ago which the doctor says will probably last until death, which he expects will occur some time in January. Even under such conditions as these I work from two to six hours a day with her.

It is a strange fact that her mind is not yet impaired in the slightest and the sicker she becomes, the better she remembers the words of her childhood. When she goes will vanish the last source of San Juan [Bautista] linguistic information. [Merriam 1967:386]

Father Francis J. Caffrey, priest in charge of the former Indian Mission of San Juan Bautista, wrote the following about Mrs. Cervantes:

The remains of Mrs. Solórzano [de Cervantes] were brought from Monterey to San Juan Bautista, and the funeral took place from the church on February 1, 1930. It was one of the largest funerals in the history of the County. I had asked her whether or not she cared to be buried in the Old Indian Cemetary. She was pleased. So we buried her close to the church wall. Her grave is marked with a natural cross taken from a tree by the family. We were paying honor not to one person only, but to the entire tribe. [Engelhardt 1931:120]

During the 1930's, Harrington reheard much of his Mutsun material with Isabel Meadows who served primarily as an informant for her native language Rumsen, the Costanoan language of the Carmel area, associated with Mission San Carlos Borromeo. Her comments about Mutsun are useful, but must be interpreted in light of the fact that Mutsun was, at best, a secondary language for her.

Harrington never published any of his research on Mutsun (or any other Costanoan dialect), although he did send several

vocabulary lists to Merriam, using Merriam's transcription system which obliterates numerous phonetic (and phonemic) distinctions; these were published nearly 40 years later (Merriam 1967). Following Harrington's death in 1961; most or his notes found their way to the National Anthropological Archives at the Smithsonian Institution, Washington, D.C., though a few boxes of notes were loaned by the Archives to the Linguistics Department, University of California, Berkeley.

Aside from Harrington's material, the only other modern data on Mutsun were collected by Laurence Thompson sometime between October, 1956, and September, 1957 (Thompson 1957). Thompson was conducting a survey of speakers of all Costanoan dialects, and found only one, Lupi Tapia, who recalled anything of the San Juan Bautista dialect. From this informant, he recorded only 33 words, about a third of them Spanish.

The current outline of Mutsun grammar is based exclusively on the Harrington materials at Berkeley. This set of notes consists of about 2,500 pages, primarily rehearings of Arroyo's phrase book and, unfortunately, lacking any good texts. It must be emphasized that the material in Berkeley comprises only about 3% of the Harrington data on Mutsun. (Since a good number of his pages are repetitious, copies of published works, or almost entirely blank, however, this low figure is somewhat misleading.) The full collection consists of some 77 boxes of linguistic and ethnographic notes, mostly rehearings of Arroyo's works with Mrs. Cervantes, plus an additional 12 boxes of rehearings with Isabel Meadows. These 99 boxes, amounting to

about 67,500 pages of notes, deal only (or primarily) with Mutsun; there are about 81,000 pages of linguistic and ethnographic notes dealing with Costanoan in general (Walsh 1976: 26-27). (Geoffrey Gamble [personal communication] puts the total closer to 97,000 pages.)

The Harrington data on Mutsun appear to be phonetically accurate and recorded with great care. According to Callaghan (1975:186), 'Both A.L. Kroeber and Edward Sapir attested to his phonetic accuracy'. Mrs. Cervantes customarily spoke a California dialect of Spanish so most of Harrington's glosses are in Spanish. These are, throughout the current work, translated into English. Occasionally, they are normalized in accordance with the semantic descriptions of the various Mutsun stems and suffixes. In no case does such a normalization lead to a distortion of Harrington's Spanish translation. (In questionable cases, the Spanish glosses are given along with their English translations and, if appropriate, normalizations.)

Since Harrington seems to have been preoccupied with checking and correcting published forms (in this case, Arroyo's) rather than investigating details of various grammatical features of his own, the material, though far from comprehensive, is nonetheless representative. This is because Arroyo's phrase book was organized into 2,884 numbered phrases listed, more or less, in alphabetical order by the first word of the phrase. Thus, the vocabulary and constructions illustrated by one phrase do not necessarily have anything to do with what may occur in the next, resulting in a random selection of Mutsun

grammatical structures. Although this is advantageous in providing a reasonable overview of what one might expect to find in the more complete set of data, it has definite drawbacks.

Most importantly, at least in the data examined at Berkeley, Harrington does little comparison of similar forms to bring out the difference in meanings between them. When he finished rehearing one phrase, he went right onto the next, seldom eliciting information to clarify certain aspects of the first.

Due to this state of affairs, it must be emphasized at the outset that everything in the following description of Mutsun is somewhat sketchy and must be taken as provisional at best. It is quite possible that just one or two pages of notes in Washington, D.C., contain evidence contradicting certain of the proposals made here. More optimistically, any page of the unexamined notes might contain just that bit of data needed to pin down some of the more questionable and tenuous features of this description. Since there is no opportunity to recheck Harrington's notes, they must all be considered equally valid; none must be arbitrarily tossed aside as erroneous or insignificant without good reason.

The present work should be valuable not only in presenting a small part of a body of data which has been, up until now, highly inaccessable, but also in setting up a framework, however tentative, by which the unexamined data might be more easily sorted and incorporated into a more comprehensive grammatical description. The treatment which follows is a synchronic one; Mutsun in described as if it were still spoken. Comparative

and historical work, for which it is hoped the current effort will be a useful tool, will have to await a later study.

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CHAPTER 1 - PHONOLOGY

100. Introductory Remarks

Interpreting Harrington's transcriptions to arrive at a precise phonetic characterization of Mutsun is not an entirely straightforward task. For the most part, Harrington used a fairly standard phonetic notation, but occasionally he resorted to ad hoc symbolization. Although he was an excellent phonetician, he did not consistently record all phonetic detail or clarify certain inherently ambiguous symbols (such as <u>t</u> and <u>n</u> which might be dental or alveolar sounds). Harrington seems to have adopted a somewhat broad transcription, indicating regularly only what was phonemically relevant, and relegating nondistinctive detail to occasional remarks. His transcription was not entirely phonemic, however, since he sometimes indicated more exact phonetic qualities, especially where the phonemic interpretation of a segment was not obvious.

The picture that emerges, then, is one ranging in reliability from reasonable confidence to working hypothesis. Fortunately, the bulk of the material falls towards the positive end of this scale.

110. Consonants

Mutsun has 19 consonantal phonemes, four of which are of very rare occurrence (/t y ¢ y 1 y /) and one phonotactically restricted (/ 2 /). The consonants are charted below. ¹

 $^{^{1}}$ Mason (1916) recognized only 15 consonants in Arroyo's vocabulary. He did not include the rare /ty ¢ 1Y/, treating them, respectively, as a consonant-vowel sequence ($\underline{\text{ti}}$), a cluster ($\underline{\text{ts}}$) or geminate ($\underline{\text{1}}$). The latter was based on Arroyo's $\underline{\text{11}}$.

		bilabial	dental/alveolar	retroflex	alveo-palatal/ palatal/palatalized	velar	glottal
ess	stops	p	t	ţ	t^{y}	k	2
voiceless	affricates		¢		č		
voi	fricatives		s		$\mathtt{s}^{\mathtt{Y}}$		h
(sonorants)	nasals	m	n		n^{Y}		
	laterals		1		1 ^y		
	flap/tap		r				
	semivowels	W			У		

In Spanish orthography, 11 indicates a palatalized 1 [1 Y], at least for certain dialects of Spain, and apparently this is what Arroyo usually had in mind. Mason interpreted all doubled consonants, including 11, as long (1916:404). Rare $/n^{Y}/$, indicated by Arroyo as $\tilde{\underline{n}}$ in accordance with Spanish orthography, was interpreted by Mason as a cluster ny, except in 'a few cases of doubt [where] it has been retained as ñ' (p. 403). Mason also does not indicate /2/, though this may be phonemically trivial since, with very few exceptions, /?/ occurs only word-initially (see sec. 111.2.). In his description of the phonetic system, Mason includes c, characterized only as 'sh', and comments that it 'is not definitely distinguished by De la Cuesta but is suggested by certain sh, sch orthographies' (p. 403). Indeed, c is almost non-existent in the list of stems (pp. 427-469), and is not entered at all in Mason's recounting of the alphabetical arrangement of the ligt (p. 427). The forms which Harrington transcribes with $/s^{\underline{y}}/$ are rendered by Mason (and Arroyo) with the sequence \underline{si} . Finally, Mason recognized both \underline{x} and \underline{h} , the former for Arroyo's Spanish j or g (in specific environments), the latter for h. About \overline{h} , Mason comments:

Initial and medial h may be silent, as in modern Spanish, but since it is regularly employed in certain stems, and as both h and x are found in most Costanoan texts, it is retained. [p. 404]

Mason's h does in fact correspond to Harrington's /h/ in a number of words (e.g. Mason hius·e 'wish, desire, want' [p. 454], Harrington /hiwsen/), while acting as a 'silent' letter in

111. Stops

111.1. /p t t t^y k/

Harrington renders the stops /p t k/ by the normal symbols for voiceless stops, [p t k], and there is no evidence that they are ever voiced. Thompson (1957) characterizes them as 'fortis'. There is some indication in Harrington's material that /t/ and /k/, at least, may be aspirated, though it is not clear whether aspiration is phonologically conditioned (allophonic) or simply a matter of free variation. Harrington wrote aspiration in extremely few forms, but his lack of regular attention to this feature is probably more an indication of its non-distinctive nature than its phonetic absence.

others (e.g. Mason -hiha ~ -hia 'also' [p. 426], Harrington /ya/). Mason's \underline{x} also corresponds to Harrington's \underline{h} , and, in fact, Harrington gives little indication of any allophonic variation of /h/. As far as the status of \underline{x} and \underline{h} in other Costanoan languages is concerned, Kroeber has remarked that they 'shade into one another and are probably one sound' (1910: 250). Harrington's data on Rumsen and Chochenyo, of the southern and northern branches of Costanoan, respectively, also indicate that there is only one back fricative, though, for these languages, it seems to be /x/.

²In four words, Harrington occasionally wrote a doubled [k] where geminate consonants do not occur -- either in conjunction with a preceding or following consonant, or at the end of a word:

[mé·strukk] 'with you'
['uykkaste] 'afternoon'
['ekkwe] 'not'
[siwkker] 'hawk sp.'

These words could be taken as exceptions to the rule limiting clusters to two consonants (secs. 131, 132), but since they all involve [kk], it seems more likely that they indicate something about the articulation of this particular consonant, perhaps its 'fortis' nature. The first word contains the comitative suffix /-tuk/ (sec. 332.7), in all other instances transcribed with a single [k]; the second word, recorded in 1922, was reheard in 1929 and retranscribed ['uykas to be

Examples of aspirated /t k/ before consonants are:
 [set nen] (later [setnen])/setnen/ 'acorn bread'
 [wit tri] /witti/ 'is hard, solid, firm'

[hút fek nis] (later [hutceknis])/hučeknis / 'dog'
The symbol was frequently used by Harrington to indicate wordfinal aspiration, which is equivalent to word-final /h/ (see
secs. 113.2., 140). Preconsonantal aspiration is also suggested
by the following entry for /tutper/ 'eyelash':

tutper __almost a u/here

The symbol \underline{u} is surely for a voiceless $[\underline{u}]$, in accordance with Harrington's use of a subscript circle to indicate a voiceless \underline{r} (see below) as well as established practice. In the environment following a rounded $[\underline{u}]$ and preceding a bilabial $[\underline{p}]$, the aspiration of the $[\underline{t}^h]$ would certainly have the quality of a voiceless $[\underline{u}]$. Thus, Harrington's remark can be taken as an indication of aspiration, rather than, e.g., an epenthetic vowel (see sec. 119.).

/k/, but not /t/, is also recorded with aspiration before vowels, as in [tritrkhú] /titku/ 'tears, rips'. Here aspiration is indicated by a raised [h]. Similarly, an annotation to the form [tráwraykún] /tawraykun/ 'went to be (situated)' characterizes that [k] as 'almost kh. Always so heard.' Whether the comment 'always so heard' refers to all instances of /k/,

later'; the third word was written with [kk] on several occations, but Harrington far more frequently wrote ['ekwe] and indicates that the single [k] is the correct rendition. The last word was recorded only once, and its geminate [kk] is probably phonemically single /k/.

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instances of /k/ in this phonetic environment, or this particular /k/ in this particular word or morpheme is unclear.

In one recording of one word only, word-final /t/ is indicated as aspirated: $[lot^c]$ /lo(·)t/ 'mud'. This is a loanword from Spanish <u>lodo</u>, but this seems to have no bearing on the aspiration.³

/p/ is never accompanied by any indication of aspiration.

Though somewhat vague, Thompson's term 'fortis' seems a reasonable description of Mutsun /t/ and /k/, if not also /p/. 4

As for position of articulation, Harrington provides no information other than the phonetic symbols. On this basis, /p/ is bilabial and /k/ velar. (Harrington gives no indication of variation of the /k/ before different vowels, though such variation would be expected.)

[peñék^h] 'cat' (Harrington: [pen^yek])
[khukhsúy] 'devil'
[wevőth^] 'acorn'

The last two forms are loans. The word for 'devil' is clearly Kuksu, the name of the 'big head' dance or character portrayed by the dancer found throughout northern-central California (cf. Kroeber 1925:364-384). 'Acorn' is from Spanish bellota, showing the normal substitution of Mutsun /w/ for Spanish /b/ (though /o·/ would be expected for Spanish stressed /6/ unless the preceding consonant was geminated). The aspiration would appear to be a Mutsun trait, since Spanish /t/ is not aspirated.

differ sufficiently from the English surd stops, in being pronounced with somewhat less breath or some degree of sonancy -- possibly during the explosion -- to cause them at times to assume to English ears a quality approaching that of sonant stops.

Thompson (1957) also occasionally indicates aspiration of /t k/:

⁴This characterization of Mutsun stops differs from the description given by Kroeber (1910:250). Referring to his own fieldwork on the dialects of San Jose (Chochenyo) and Monterey (Rumsen), but applying his remarks to all Costanoan languages, Kroeber says the stops varied from being voiceless to partially voiced. They

The position of articulation of /t/ (or range of positions, if there is allophonic variation) cannot be precisely determined, but it is most likely dental. 5 The sequence [ts] which is best interpreted as an affricate $/\phi/$ seems to be dental throughout its articulation (sec. 112.). It is thus likely that /t/ before /s/ in a /ts/ cluster is dental as well. Furthermore, as will be shown, alveopalatal $/s^{y}/$ is fronted to $[s^{y}]$ (a dental sibilant with palatal offglide) following /t/. This also implies that /t/ is dental, since that would make the $/s^{Y}/\rightarrow$ [sY] rule a case of simple assimilation. Finally, though there are no phonetically reliable data on any other Costanoan language (other than Harrington notes which have not yet been examined for their phonetic information), it is possible to compare Mutsun with nearby languages to see if it falls into a definable linguistic area with regard to the point of articulation of /t/. Along with Costanoan, Salinan to the south, and Yokuts and all the languages immediately to the north and east, had two types of \underline{t} , normally transcribed \underline{t} and \underline{t} . The descriptions of their

In commenting on Arroyo's use of voiceless symbols (p, t, c, qu, read with their values in Spanish orthography), Kroeber points out that

the surd explosives of Spanish are voiced during part of their formation, while the corresponding Spanish sonants are largely fricative, so that if the Costanoan stops are actually intermediate rather than surd, he would nevertheless have naturally and correctly represented them by the Spanish surd stop characters.

For this reason, Kroeber concludes, Arroyo's transcription of Mutsun gives no information on whether the stops were truly voiceless or (at least sometimes) partially voiced.

 $^{^5}$ Mason interpreted Arroyo's <u>t</u> as 'dental or interdental' (1916: 402), probably just in accordance with Spanish orthography, since he gives no further justification.

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positions of articulation are summarized below:

Language	<u>'t</u>	ţ	Source
Bodega Miwok	interdental	post-alveolar	Callaghan 1970:7
Southeastern Pomo	interdental to dental	alveolar to retroflexed	Moshinsky 1974:6
Yokuts (in general)	dental	alveolar (retroflex)	Newman 1944:13 Newman 1946:224
Southern Sierra Miwok	dental or immediately post-dental	alveolar or slightly post- alveolar	Broadbent 1964:11
Salinan	dental	alveolar	Mason 1918:11

On the basis of this areal configuration, then, it would seem most reasonable to assume that Mutsun /t/ is dental as well.

There is a small amount of evidence that /t/ may not be dental, or at least is not dental all of the time. In the sequence /st/ (even across a word boundary) the normally dental /s/ is occasionally recorded as a 'dull' [s] or [s], presumably alveolar to postalveolar (see sec. 113.1). If this 'dulling' of the /s/ is caused by the following /t/, it seems likely that /t/ is not dental itself, but rather post-dental if not alveolar. The 'dulling' process is not frequent, however, and Harrington makes specific mention of the fact that dental [s] can occur before [t]. For example, in the entry [mostor] 'tree trunk' he notes that he heard the [s] eight times, and that it was indeed [s]. 6

weak argument.

⁶Harrington's concern with /st/ clusters is undoubtedly due to his work with Chumash conducted at about the same time. He reports that in Ventureño Chumash, s is 'lowered' to s before t, l, n, or that it becomes a 'mere surd approach to the alveolar contact' (1974:6-7), implying that, for Ventureño at least, t was alveolar. The occasional 'lowering' of /s/ before /t/ in Mutsun, then, might imply that /t/ is alveolar, but the fact that this process is so infrequent makes this an extremely

Also favoring a non-dental interpretation of /t/, though again not strongly, is Harrington's recording of a California Spanish word kavresto 'horsehair rope'. (This word is elsewhere found in American Spanish as cabresto or cabestro.) The t is actually written t accompanied by the notation 'sharpish'. As will be seen (sec. 113.1), dental [s] is also written with a subscript circle and is also described as 'sharp'. The t in this Spanish word, then, was apparently pronounced with normal Spanish dental articulation. Of interest here is that only the Spanish word, and never a Mutsun word, is recorded with a specially marked dental t. If we assume that Harrington made the notation to distinguish it from other (normal Mutsun) t's, perhaps Mutsun /t/ was not 'sharpish' or dental, at least not following /s/.

In summary, it is probably the case that Mutsun /t/ was dental, though perhaps more towards 'postdental' than 'interdental'. Mason's clarification of 'dental' as applied to Salinan may be apropos: 'the tip of the tongue is pressed against the roots of the teeth' (1918:12).

/t y /, also written [t y] by Harrington, is apprently a /t/ with a voiced palatal offglide. It is never recorded with aspiration. /t y / is a fairly uncommon phoneme, and is, furthermore, apparently restricted in distribution in two ways, the second of which may be fortuituous only: (1) it does not occur word (or stem) initially; (2) when between two short vowels, it occurs only as a geminate (most consonants occur in this position either singly or geminated). There is one example

of $/t^Y/$ in word-final position, the particle $/2at^Y/$, of unknown significance. The geminate $/t^Yt^Y/$ is $[tt^Y]$, that is, the stop portion of the sound is held for extra length, then released with a palatal offglide.

 $/t^{Y}/$ is distinct from /t/ as is shown by the following near-minimal pairs:

/pat^yt^yan/ 'blood' /mattalpu/ 'put oneself face down' /hit^yt^ye/ 'ao!' /čitte/ 'dances' (verb) /mut^yt^ye/ 'eat pinole (mush) dry' /huttey/ 'make a fire!' /?amt^Yas^Ymin/ 'big eater' 'hears' /namti/ /kat^Ylus^Ymin/ 'thick-legged one' /matla/ 'is face down'

/t Y / is also distinct from a /ty/ cluster. If /t Y / were analyzed as a cluster, the geminate /t Y t Y / could only be /tty/, violating the restriction on clusters to no more than two consonants (secs. 131, 132), and a similar violation would occur in non-geminate clusters (e.g., /mty/ for /mt Y /). Furthermore, Harrington distinguishes /t Y / from a true /ty/ cluster: /hotyohte/ 'tied' is written by Harrington as:

hot-yoh-te
sep[arate] syl[lable] beginning

The sequence [tt Y] could also be interpreted as a cluster consisting of /t/ followed by /t Y / rather than as a geminate /t Y t Y /. Either analysis precludes the other, since there would be no way to distinguish /tt Y / and /t Y t Y /. (See also sec. 132.)

/t/ is apparently a voiceless retroflex stop, released with a noticeable amount of friction. Kroeber (1910:250) described it as 'very palatal, as in Yokuts and Salinan, and its frequent orthography tr conveys a fair idea of the quality of its sound'. These comparisons seem quite reasonable. Newman (1944:14) describes the corresponding Yokuts stops as apico-alveolar (as distinguished from the palato-alveolar affricates), and he elsewhere specifically terms them retroflex (1946:224). Mason (1918:12) notes that the release of Salinan t produces 'a semi-affricative effect approximating to [that is, [č]] and ty. It is practically identical, however, with the English combination tr but more truly affricative, a simple sound'. Finally, Mason characterizes Mutsun /t/ as 'the tongue-blade t found in the Costanoan and neighboring languages' (1916:404).

Harrington symbolized /t/ by the digraph tr or, on occasion, tr. The subscript circle means voicelessness, as can be seen in the entry for /kutra/ 'belt', given in Harrington's original transcription:

That is, the \underline{r} of the second syllable is fully voiced, implying that the \underline{r} of the digraph is not. (The symbol \underline{e} seems to mean aspiration of some sort.) The far more frequent transcription \underline{tr} does not imply voicing of the \underline{r} part of the digraph, but is simply shorthand for \underline{tr} .

Like /t/ and /k/, /t/ is occasionally recorded with aspiration, though this was done more frequently -- indeed, almost

regularly -- in the earlier (1922) recordings. For example: 8

1922 Recording	Revised (1929) Recording		
['etr'eniwuy]	['éttreniwúy]	/'etteniwuy/	'come to sleep!'
[tr [¢] u·hi]]	[trú·his]	/tu·his/	'day'
[morotr ^e]	[mórótr]	/morot/	'acorn husk'
[pitr ^e u ^W iy]	[pitrwiy]	/pitwiy/	'untie (it)!'

Unlike the other stops, however, /t/ is released with a certain amount of friction. This release (symbolized by the voiceless r) seems to have been less prominent when /t/ preceded a fricative, or at least /s/. Two somewhat cryptic comments give this impression. First, Harrington writes of the r of /'etse/ 'many are sleeping' (?): 'a fragment of this r'. Second, regarding /'itson/, a word the informant pronounced in response to Arroyo's Ithson 'doubt, disbelieve' (1862: entry no. 1295), although she did not herself remember the form, Harrington comments 'this r assimilated to nothingness -- try to carry and al memory [sic]'. A reasonable interpretation of these remarks is that the fricative-r release of /t/ is rather diminished before another fricative (/s/).

Elsewhere, the fricative release of /t/ is quite prominent, sometimes resembling a sibilant. For example, the <u>r</u> component in /ratmas^yte/ 'having boils, pimples' is 's-like', and that in /yutkiy/ 'throw (it) out!' is 'sh. like, but not sh'.

As the latter remark suggests, at least phonetically, /t/ seems to resemble the non-retroflex affricate /č/ (sec. 112)

Note also Harrington's early recording of /murut/ 'night, darkness' as [murutra], where the final a is apparently a voiceless vowel offglide, suggesting aspiration.

more than the non-retroflex stop /t/. On a number of occasions, Harrington changed a transcription from tr to tc (/t/ to /č/) or vice versa, but almost never changed tr to t or t to tr. 9

Arroyo had a similar problem distinguishing these two sounds (as Mason points out [1916:404]), so there are occasional differences between Arroyo's form and Harrington's. 10 Furthermore, Harrington recognized Arroyo's problem, as in shown, e.g., by his comments on Arroyo's chaipu 'praise oneself' (1862: entry no. 1274) that the informant knew neither [tcaypu] (/caypu/) nor [traypu] (/taypu/), since either could have been represented by Arroyo's transcription. Harrington also notes

Original Corrected

Recording Recording

[kút'ra] [kutr-ra] /kutra/ 'belt'

[hatsá] [hatrsa] /hatsa/ 'is stealing'

Note also [kitr.ray]/kitray/ 'stir!', but [kitrasyte] 'stirred'.

The latter form, interpreted at face value, would be /kitrasyte/, though, on the basis of attestations of other related words, should be /kitrasyte/.

In the examples with a $\underline{tr/t}$ change, the segment in question seems to occur in particularly precarious environments: before /r/, where the /r/ itself could add some coloring to a preceding sound, or before /s/, where aspiration or affrication might be difficult to hear, or assimilation towards a dental articulation might take place. Thus:

¹⁰ In his published grammar of Mutsun, Arroyo (1861) makes no comments on the phonetic quality of /t/, which he writes thr, ths and a few other ways. In an unpublished manuscript of 1819, however, he does attempt to describe this sound. The man script was photocopied by Harrington who identifies it only as 'Oro'. This may be the same as 'El Oro Molido' published, in part, by Beeler (1971). Though the sections of this manuscript dealing with Noptinte Yokuts match up with Beeler's published version, the page numbers do not, and it may be that Harrington copied another version of Arroyo's little book.

In any event, Arroyo describes /t/ as follows (p. 67 of 'Oro'):

La letra h antecedida de la t, siguiendose la letra r y despues a, é, i, ó, u se hace v:g: thra, se hiere la t, y luego se pronuncia como cha: endonde me parece qe le falta la r simplisima, como qe se hiere, y no se

that /t/ is 'tc-like' in /?eṭnempi/ 'put (the baby) to sleep'; 'easy to mishear as tc' in /paṭki/ 'sparkle'; and even 'sounds more ts-like' in /ṭiṭkuṣ

to 'torn, ripped up' (referring to the second /ṭ/).

Harrington himself compares /t/ with the corresponding consonant in Yokuts. He notes that the /t/ in /re·tem/
'louse eggs, nits', is 'a perfect Tulareño tr'. 'Tulareño'
is the Spanish word for Yokuts in general, though Harrington used it to refer to a dialect of the western San Joaquin Valley, around Tulare Lake, similar (if not identical) to Tachi. 12 If 'a perfect Tulareño tr' is like a 'perfect' tr for Yokuts in general, Gamble's (1975:7) description of retroflex stops in Wikchamni Yokuts (of the Tule-Kaweah group) may be appropriate: the voiceless unaspirated retroflex stop is 'accompanied by noticeable friction', while its aspirated counterpart 'is often articulated with considerable friction, nearly as strong as in /č/ [the aspirated laminoalveolar affricate]'. (As noted, all Mutsun stops may be aspirated.)

hiere: y do no pronunciarse, no se dira, ni sonara bien en este Ydioma.

A rough (and somewhat unsure) translation of this passage is:

The letter h preceded by t, the letter r following and then a, e, i, o, u becomes, e.g., thra; the t is pronounced, and then [the rest?] is pronounced like cha, in which it seems to me the simple [?] r is missing, as if it is pronounced and is not pronounced; and to not be pronounced, it will not be said, nor will it sound well [correct?] in this language.

Thus, thra differed from cha by somehow having an r-coarticulation (the r is 'pronounced and is not pronounced').

¹¹See sec. 112 for a possible sound symbolic relationship between /t/ and /e/ ([ts]).

 $^{^{12}{\}rm In}$ his notes on Tachi Yokuts, Harrington writes the 'Tulareño tr' as t/r (Geoffrey Gamble, personal communication).

Given the available data, then, it is difficult to decide whether /t/ is really a stop with affrication or a true affricate. 13 Phonetically, the difference between the two alternatives is probably a matter of degree, if not completely mythical. As far as the phonological system of Mutsun is concerned, it makes no difference which it is, since it would have no stop (or affricate) counterpart in either event. In keeping with descriptive tradition, it will be considered a stop.

Examples of the stops / p t t t^{Y} k/ before various vowels are:

/parwes/	'five'	/pa·či/	'(weather) is icy cold'
/petten/	'gets stuck together'		
/pissa/	'dew'	/pi·roy/	'fishing net'
/počros ^Y te/	'having sores'	/po·čor/	'a sore'
/putti/	'wraps in cloth'	/pu·yis/	'witchcraft'
/tas ^y ri/	'(cloth) is firm, stiff'	/ta·pin/	'fits, suits'
/temme/	'lies down by the fire	-	·
		/ti·wis/	'flower'
/tollon/	'much'	/to·yoh/	'bumblebee'
/tuyos/	'arrow'	/tu•pen/	'sweathouse'
/taywen/	'mush'	/ta·tak/	'plain' (geographical)
/temo/	'arrow'		
/tippe/	'knife'	/ti·nuy/	'wring(it)out'
/tokken/	'runs'	/?oto·na/	'goes to gather'
/tuppusyte/	'pricked in the eye'	/tu·his/	'day'

Either interpretation is different from Kroeber's description of Costanoan stops, among which he includes /t/ (written by him to, following the practice of the time of indicating 'palatalization' by a raised dot). See footnote 4.

```
/kat<sup>y</sup>t<sup>y</sup>a/
                     'grasps'
/tokt<sup>y</sup>es<sup>y</sup>min/
                     'runner, one who runs much'
/tat<sup>y</sup>t<sup>y</sup>i/
                     'bone'
/loht<sup>y</sup>ohte/
                     'loose'
/ka•t<sup>Y</sup>ul/
                     'leg'
                                                     /ka<sup>ty</sup>ul/
/kaphan/
                     'three'
                                                                         'leg'
/kehles<sup>y</sup>min/
                                                                         'stop!'
                     'hoarse one'
                                                     /ke·wey/
                                                                         'hangs
/kille/
                     'shines, glistens'
                                                     /hiki pu/
                                                                        oneself'
                                                                         'snake sp.'
                     'spring of water'
                                                     /ko•tehwa/
/koloy/
                                                                         'little bit'
                     'washes'
                                                     /ku·tis/
/kussa/
```

111.2. Glottal Stop

With a few exceptions (discussed below) glottal stop, transcribed 'by Harrington, is restricted to stem-initial position. Only certain pronominal elements may precede a stem, and these are regarded as proclitics rather than prefixes so //2/ is essentially limited to word-initial position. Harrington indicates glottal stop in this position with absolute regularity, and there is no question as to its phonetic presence.

The phonemic status of glottal stop, on the other hand, is open to interpretation. First of all, since ['] is so restricted in distribution, it is possible to consider it an 'automatic' phonetic onset to a stem (or word) beginning with a vowel.

(Non-initial glottal stop is exceptional under any interpretation.) A rule could be formulated, such as

$$\emptyset \rightarrow ? / \# V$$

that is, glottal stop is automatically inserted before a vowel when this vowel occurs stem (or word) initially.

The non-phonemic status of glottal stop is supported fur-

ther by distributional features of another kind. In Mason's list of verb stems (1916:441-461), there are more than twice as many vowel-initial stems (Mason did not recognize glottal stop) as stems beginning with s or x, the next most numerous steminitial segments. Furthermore, the number of stems beginning with any particular vowel is comparable to the number of stems beginning with any particular consonant. This distribution appears in non-verb stems as well. There are not enough Mutsun data from Harrington to make a meaningful break-down of this kind (the material in the Smithsonian Institution's Archives will have to be incorporated first) but a similar situation obtains in Harrington's data on Rumsen. On the assumption that it is as likely for a stem to begin with any one segment as with any other, the number of stems beginning with glottal stop seems very much out of proportion. If, however, glottal stop were not a phoneme, the distribution of stem-initial segments, be they consonants or vowels, would be more uniform. It is interesting to note in this regard that Mutsun (or Costanoan) is not alone in having glottal stop as the most common stem-initial segment. A quick survey of published dictionaries of Miwokan languages shows that /?/ and /h/ are the most common stem-initial segments (Callaghan 1965, 1970; Broadbent 1964; Freeland and Broadbent 1960), with /?/ the more common of the In fact, /?/ occurs at least twice as frequently in this position as any other consonant in Miwokan, other than /h/, and /h/ is only slightly less common. 14 In Mutsun, it is

^{14/2}/ and /h/ are also the most common stem-initial segments in other Penutian families, such as Maiduan (Shipley 1963, Uldall

important to note, first, that of the Harrington data which have been analyzed, /h/ is about as common stem-initially as is glottal stop, and, secondly, the Harrington data show that a number of Mason's vowel-initial stems really begin with /h/. This being the case, the situation in Mutsun does not differ significantly from that in Miwokan. The argument that glottal stop should not be considered a phoneme because of its comparative frequency as a stem-initial consonant, therefore, does not seem compelling. The complete predictability of glottal stop, on the other hand, deserves serious consideration as justification for not regarding the segment as phonemic.

There are two reasons to consider glottal stop phonemic, despite its predictability. First of all, a phonemic glottal stop would make the syllable canon completely regular, CV(·)(C) (see sec. 131). Regardless of the status of glottal stop, there are no vowel-initial syllables after the first syllable of a word, so it seems reasonable to extend this characterization to word-initial syllables as well. Secondly, when a stem beginning with glottal stop (phonemically, or inserted by rule) is preceded by a nasal-final pronominal element, the glottal stop is always present. That is, there is no liaison between a syllable-final nasal and a purported syllable-initial vowel, as might be expected. For example, Harrington records:

[kan-'ama'] 'my body' /kan-'ama/

[men'amatka] 'on your body' /men-amatka/

and Shipley 1966) and Wintun (at least Wintu [Schlichter 1976]), though /?/ is not necessarily more frequent than /h/. No Yukuts dictionary is readily available for this kind of comparison.

(The hyphen in the first form is Harrington's.) In fact,
Harrington comments that the glottal stop in the second form
is 'clear'. There are no examples of linking, such as *[kanamá],
with syllable division after the [ka], as might be expected if
the glottal stop were an onset rather than a real phonemic
feature. Though a glottal stop insertion rule could be formulated to apply after these pronominal elements, such a rule
would really be shifting the burden of phonemic value from a
segment (glottal stop) to a boundary, since the glottal stop
would be inserted, presumably, in order to 'preserve' the morpheme boundary. If glottal stop is phonemic, however, this
kind of justification for a rule becomes unnecessary.

In short, despite the predictability of glottal stop in stem-initial position, it seems most reasonable to consider it a phoneme of limited distribution.

Examples of initial glottal stop before various vowels are:

```
/?ahhes/ 'soap-root brush' /?a·tar/ 'dirt clods'
/?eshen/ 'blanket' /?e·yo/ 'pushes (as in swing)'
/?innan/ 'falls' /?i·sir/ 'dandruff'
/?osse/ 'copies, imitates' /?o·sompi/ 'wakes (someone) up'
/?ullis/ 'dish' /?u·či/ 'shuts (door)'
```

There are a few instances of glottal stop occurring in non-initial position. About half of these words contain what appears to be a suffixed morpheme /-?a/ of unclear significance, though the words tend to be quantifiers or adverbial particles of some kind. For example:

```
/hemeč?a/ 'one'
                              (cf. /hemečpu/ 'first time, one time')
/himah?a/
            'all'
                              (cf. /hi·mi, hi·min/ 'always')
/his<sup>Y</sup>?a/ 'something' (?) (cf. /his<sup>Y</sup>ke/ 'what is that?')
/hin a?a/ '(a little) later, soon'
/ney?a/ 'now, right now' (cf. /ne'/ 'here')
/?aruh?a/ 'early in the morning' (cf. /?aru/ 'next, later')
/karih?a/ 'far' (also [kari?a]) (cf. /kariy/ 'outside')
/?asa?a/
            'indeed, truly'
```

The remaining examples of non-initial /?/ are all quite unusual, and are best treated as residue. Some of the recordings are surely errors, but some may reflect variant pronunciations or true exceptions.

Two forms are well attested (that is, recorded consistently with [']):

The forms for 'yes' may be explained either as reduplication, a fairly infrequent phenomenon in Mutsun (see sec. 223), or as identical to the case of English [222] 'no', and not really part of the regular phonological or morphological systems. 15 15 Resembling misrecordings are:

[hi·tca'mis'] 'pet' -- Perhaps an error for /hi·čaknis'/
or /hi·čahnis'/, with stem /hi·ča(h)/ and suffix /-(k)nis'/
'dimunitive'; cf. /hičahmin/ 'pet'.
[tayke'ne] 'is touched' -- Probably for /taykehne/, with

normal suffix /-hne/ 'passive'.

[ru·ta'nis] 'was gathered up' -- Probably for /ru·tahnis/, with normal suffix /-hnis/ 'passive, past'.
[kita'uy] 'take (it) away!' -- Probably for /kita·wuy/,

with suffixes /-wu/ 'venitive; to come to...' plus /-y/

112. Affricates

Like the stops, the two affricates $/\cancel{c}$ $^{\prime}$ $^{\prime}$ $^{\prime}$ are represented with voiceless symbols († $^{\prime}$; † $^{\prime}$ or † $^{\prime}$) and can surely be regarded as always voiceless. The $^{\prime}$ s in † s indicates a dental sibilant (sec. 113.1), and $^{\prime}$ and $^{\prime}$ are used for [$^{\circ}$] (see below).

/č/ also resembles the stops in that it is occasionally marked for aspiration, though this is normally done in 1922 hearings rather than the more extensive notes taken down in 1929. /¢/ is never specifically recorded with aspiration. Examples of aspiration of /č/ are:

1922 Recording	Revised (1929) Recording		
[t∫ ^c 6llo]	(unsure)	/čollo/(?)	'shoulder blade'
[núktʃ ^{.e} iy]	[nuktci]	/nukči/	'is big-nosed'
	[páno·tc [¢] a]	/pano•ča/	'panocha (candy)'

The third word, though a loan from Spanish, contains the notation: 'tc dif. from in Sp.', that is, the articulation of the [č] is different from Spanish [č], perhaps, but not necessarily, due to the aspiration. There is no example of aspirated [č] before a consonant.

 $/\phi/$ is a very rare phoneme and seems to usually occur as a sound symbolic alternate for /t/. Phonetically, $/\phi/$ is [ts], in which the [s] is apparently dental. Harrington remarks of

^{&#}x27;imperative'. The word is borrowed from Spanish <u>quitar</u> 'to take away'. The loanword also appears, without suffixation, as /kita·ri/.

Finally, [lo'enin] 'found disgusting', [lo'e] 'disgusts'
-- Mrs. Cervantes identified the root of these words as Soledad
Costanoan and not Mutsun. Harrington remarked of the first form,
'Holds the 'as if double'.

this [s] in /¢ayla/ 'is (lying) face up' that it is the 'ordinary sharp s', meaning a dental [s] (sec. 113.1). Along the same lines, the /¢/ of /¢ummate/ 'sweet' is characterized as 'real θ -like', that is, nearly interdental. It seems reasonable to assume that the articulation of /¢/ was dental in both its stop and fricative components.

The sound symbolic nature of $/\phi/$ can be seen in a number of pairs of words:

/dummate/ 'sweet' /tummate/ 'savory (e.g. meat)'

/murdumak/ 'black ones' /murtumak/ 'blackish ones,
dark ones'

Other forms with /d/ find counterparts in Mason with t or Arroyo
with thr (or some other cluster representing /t/). For example,
for /peldey/ 'close your eyes!' Arroyo records Pelthrei (1862:
entry no. 1650), which Mason transcribes as the verb root pelte
'shut eyes' (1916:455). Not all instances of /d/ have counterparts with /t/, but /d/ occurs so infrequently it may be that
all cases are sound symbolic, at least in origin.

Finally, /¢/ occurs alongside true /ts/ clusters, written /t.s/ by Harrington (where the period symbolizes a syllable boundary, usually ascertained by having the informant 'syllabize' a word). For example:

/yatsen/ 'is hurried'

/petsen/ 'sugar'

This form is actually recorded by Harrington with an initial cluster, rather than an affricate. The difference in notation is that the members of a cluster are separated by a period, while the two parts of an affricate are not. Thus, the form is written [t.sayla]. There are no initial clusters in Mutsun, however, so this particular [t.s] may be viewed as an affricate. Originally Harrington recorded the form as [sayla], which more closely resembles the form found in Mason (1916:451) sayal 'lie face upward'.

The second affricate, /č/, is transcribed by Harrington as to following the custom of the time for the alveopalatal (or post-alveolar) affricate. 17 On the basis of this symbol alone it is reasonable to assume that Mutsun /č/ is also laminoalveopalatal (as distinguished from apicoalveopalatal or retroflex /t/). It is possible that /č/ is (lamino)-palatal, but this seems less likely since Harrington did not make a note of any particularly palatal feature of the sound as he did, e.g., for /s²/ (see sec. 113.1). The only comment Harrington makes about /č/ is in the Spanish loanword /pano·ča/ 'panocha (candy)' (see above). 18

Examples of /č/ before various vowels are:

/čaltas ymin/ 'one who urinates much'

/hučeknis^y/ 'dog'

/čiri/ 'paternal aunt' /či·ri/ 'horn'

/čorkon/ 'gets dry' /kočo·pu/ 'makes fun of'
(?)

/čuluy/ 'jump!'

113. Fricatives

113.1. Sibilants

There are two phonemic sibilants in Mutsun, /s/ and $/s^{Y}/$,

In his earliest (1922) notes, Harrington wrote $t \int$.

¹⁸ Thompson (1957) recorded four words with the symbol [č] which he described as 'lamino-alveolar, affricated'. One of these words was Spanish [lέč] 'milk' < leche; two contained /č/, [heméčλ] 'one' (Harrington's /hemeč?a/),[?učέknis] 'dog' (Harrington's /hučeknis)'). One, however, contained /t/: [tɔ́če] 'meat' (Harrington's /to·te/). The use by Thompson of [č] for both /č/ and /t/ (he nowhere recorded anything corresponding to a distinct /t/), whether due to an error on the part of the recorder or the speaker, or to the general decayed state of the language, again shows their phonetic similarity.

but the details of their pronunciation comprise by far the most complex aspect of Mutsun phonetics, encompassing both the actual articulation of the sounds as well as what Harrington really meant by various transcriptional devices and comments.

Harrington wrote five sibilant symbols, which can be grouped into three classes on the basis of the descriptive terms most often found associated with each:

1922	Symbol	1929 Symbol	Normalization 19	Descriptive Term
	s s ^y	s ° s	s s ^y	'sharp'
	s ∫	<u>s</u> <u>s</u> Y	s. s ^Y	'dull'
		s 	s :	'half way dull'

A phonetic description of these five sounds will be attempted before a justification for the phonemic analysis is presented.

Harrington's choice of symbols and characterizations of the sibilants is clearly rather idiosyncratic. At the time of his work, however, he knew of no better way to describe the sounds, or to represent them transcriptionally. He presented his views on the matter in a discussion of sibilants in Ventureño Chumash (Harrington 1974), written sometime between 1916, when he did fieldwork on Ventureño, and 1928, when he filed the article with the Bureau of American Ethnology (1974:2).

The 'normalized' symbols are one-for-one substitutions made for typographical convenience only.

Significantly, he worked on Mutsun during roughly the same period (1922 and 1929). For Ventureño, Harrington used the symbols [s] for the 'high, narrow, sharp' sibilant, [∫] for the 'low, broad, dull' sibilant, and [s] for a sound intermediate between the two (1974:3). He commented:²⁰

Our phonetical terminology for describing sibilants and changes in sibilants is inadequate. It would be convenient if there were a simple term for the group of š sounds and another for that of s sounds; also terms for s-izing and š-izing processes to replace the inexact lowering, raising, sharpening, dulling used in this paper. [1974:4]

Beeler, in discussing sibilant harmony in Barbareño Chumash, distinguishes between 'apical' [s] and 'blade' [š] (1970:16). Harrington also expresses his dissatisfaction with phonetic symbols for sibilants other than [s], and this surely accounts for his inventing symbols for use in transcribing Mutsun.

Despite the 'inexact' nature of Harrington's terminology, his account of the situation in Ventureño may well shed light on his usage of the terms for Mutsun. The 'high, narrow, sharp' [s] of Ventureño was surely apical, as Beeler describes it. Harrington identifies it as the sound of English see (1974:3), implying apicoalveolar articulation, if the statement is taken at face value rather than as merely a rough suggestion of what the sound was like. One remark in the Mutsun material

The substitution of [\check{s}] for Harrington's [\int] was made by Madison S. Beeler and Mary R. Haas, who edited Harrington's manuscript for posthumous publication.

indicates, however, that Chumash [s] was dental; the /s/ of /ru(\cdot)s/ 'saliva' is described as ' θ -like as in Chum[ash]'.

A reasonable interpretation of Harrington's terminology might be that a 'sharp' sibilant is apical, and perhaps the 'sharpest' sibilant would be dental; a somewhat less 'sharp' or more 'dull' sibilant is alveolar or, perhaps better, post-alveolar; and the 'dullest', probably laminal, sibilant would approach, if not actually reach, the palatal position. Accepting this general scheme, the Mutsun sibilants may be more or less located articulatorily.

The symbol [s] probably represented a sibilant ranging from apicodental to apicoalveolar articulation. In various notations, it was further characterized as 'real sharp', 'very sharp', and 'hissing sharp', all presumably at the sharpest end of Harrington's sharp-to-dull scale. Its dental, if not interdental, nature shows up most often following /i/, as is shown by such entries as:

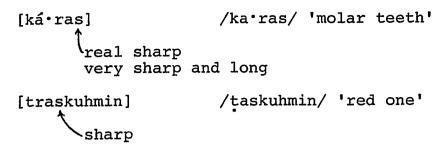
[ká·pis] /ka·pis/ 'little finger'
real 0-like

[miθte], but usually [miste] /miste/ 'pretty'
['an Y is simán] / anyis siman/ 'last week'

practically θθ

(The fact that /siman/ 'week' is a loan from Spanish semana, and that the informant normally spoke Spanish, may be relevant to the last example.)

The characterizations 'sharp', 'very sharp', etc., are not limited to [s] after [i]. For example:



Indeed, as noted above, the [s] of /ru(·)s/ 'saliva' is characterized as '0-like' even though it follows a back vowel.

Finally, [s] appears to be dental in the affricate [ts], that is, $/\phi/$, as is shown by the comment:



some counter-evidence to the dental interpretation of [s] exists, but it is rather weak. Harrington describes the final [s] of /či·tetis/ 'dancer' as 'not so awfully sharp', but this is the only non-'sharp' note about [s] in the data examined. Also, an early recording of /pa·yes, tek/ 'she is pregnant' is [pá·yestek], in which the second syllable [yes] receives the comment 'Like Eng[lish] yes' and the [s] itself is 'as Eng[lish]'. The remarks about English imply an alveolar sibilant, but since Harrington apparently settled on [s, y] (/s, y/) rather than [s] for this word, it may be taken more as information about the quality of the 'dull' sibilants than of [s].

It seems, then, that the most probable interpretation of [s] is a symbol for an apicodental sibilant which, normally after /i/, is also used to represent a somewhat more fronted articulation.

The other sharp sibilant, [s], is probably best interpreted at face value: an apicodental [s] with a palatal off-

glide. Articulatorily, it must be very similar to a [sy] cluster, as can be seen in the entry [pessyopú] 'think for oneself' (the sequence [ss^y] was characterized as being 'long') which was replaced by [pesyopu] (with the comment 'not long s'). (This second form was subsequently crossed out and replaced by [pesoypu], but this has no bearing on the discussion of phonetics.)

[s^Y] also appears in loanwords from Spanish, where the Spanish has a [sy], [si] or [se] sequence:

[pass^Yarismak] 'travellers' < <u>pasear</u> 'to pass, to travel' [hiles^Ya] 'church' < <u>iglesia</u>

(The [ss^Y] in 'travellers' is characterized as 'only half-way sharpish'. Perhaps, then, the palatal offglide induced a slightly more backed articulation on the [s].)

Finally, though phonetically similar, $[s^Y]$ is distinct from the cluster [sy] (/sy/). Examples of the cluster are:

/misya/ 'pretty ones'

/pusyu/ 'it's making a whirlwind' (cf. /pussuynis/ 'whirlwind' where the /s/ and /y/ of the stem are separated by a vowel; see sec. 222.1)

In addition to the tags 'dull' or 'dullish', [s] is occasionally described by Harrington by means of comparison to English and, in one instance, Ventureño Chumash. [s] is likened to English sh in such notations as: 'clear sh', 'surely Eng[lish] sh', '= sh', and 'very pure sh'. These characterizations imply a laminoalveopalatal spirant, or an apicoalveopalatal 'slit' spirant. On the other hand, Harrington points out that the [s]

in [posloy] /posloy/ 'make posole (stew)!' is indeed [s], even though occurring before [1], and 'is not s as in V[entureño]'. Ventureño [s] is 'lowered' to what Harrington writes $[\int]$ (Beeler's 'blade' [s]), or 'partially' lowered to [s] before [1] (Harrington 1976:6-7). For Ventureño, $[\int]$ represents the sound of English she (1974:3, 4n7), and [s] a sound intermediate between [s] and $[\]$. If Harrington is using the symbol [s] in Mutsun in the same way he used it for Ventureno, then perhaps it is not quite the English sh sound, but rather a sound approaching it, such as an apicoalveopalatal 'groove' [s] was probably not retroflex, however, since Harringspirant. ton indicated retroflexion with an r (as in [tr] for /t/) and probably would have used this scheme even for sibilants (cf. his symbol for the Yokuts affricated retroflex stop [$t \int r$], where the $\lceil /r \rceil$ implies a retroflex sibilant). It appears that $\lceil s \rceil$ is best considered an alveopalatal sibilant with an ambiguous tongue shape. 21

Dull $[s^Y]$ is written as the alveopalatal (?) [s] with a palatal offglide. The symbol $[s^Y]$, used in 1929 hearings, replaced the $[\int]$ used in 1922. $[s^Y]$ is also compared to English \underline{sh} , with such comments as 'perfect Eng[lish] \underline{sh} ', and Harrington sometimes used $[s^Y]$ as equivalent to the phonetic symbol \underline{c} which was in use at the time to represent the English \underline{sh} sound. For instance, in pondering the nature of the final consonant in the word for 'bear', Harrington wrote:

When rehearing his Mutsun materials with Isabel Meadows in 1938, Harrington termed [s] the 'grueso s', that is, the 'thick' or 'coarse s'.

Henry says he always heard 'ores, bear, with sharp s. We discussed long what w[oul]d make Claudia say 'orec. I discussed the whole matter of s and sy long with Henry, Marta and Dionisia.

(The people mentioned in this passage were all relatives of Mrs. Cervantes, the principal informant.) Similarly, upon first hearing ['epsé] 'don't (do it)!' he commented that the [s] might be c; and upon subsequent hearings, he in fact indicated that his suspicions were correct and wrote ['epsyé]. Also, he replaced early ['oycó] 'again' with ['oysyó]. 22

Harrington's use of [s] and [sY] at times seems rather arbitrary. He termed the [s] in [hostokte] 'light (in weight)' a 'clear sh', but also recorded the same word as [hosYtokte]. Quite a few entries originally written with [s] are changed by Harrington to [sY] either upon rehearing or normalization of his orthography, which implies that if [s] and [sY] were not transcriptional variants of each other, they were certainly not distinct (phonemic) sounds. On the other hand, Harrington does make it clear that [s] and [sY] were not phonetically identical as is shown by comments such as that the second [sY] in [rúysYuksYí] 'shake with palsy' is 'Really merely s' and not [sY] after all. (He later heard this sound as [s] and later

When rehearing the Mutsun materials with Isabel Meadows, Harrington transcribed \underline{c} is all places he wrote $[\underline{s}^Y]$ in the original notes. Since this informant provided both Mutsun and Rumsen words, however (sometimes without clarifying which were which), the identity of $[\underline{s}^Y]$ and \underline{c} in Mutsun is not necessarily indicated.

still as 'really' [$ilde{s}^Y$]. Regardless of what sound the word actually has, Harrington was trying to make a clear symbolic distinction.) Similarly, in the entry [múr $ilde{s}^Y$ uni $ilde{\eta}$ ka] 'I got a molar toothache', Harrington termed the [$ilde{s}$] part of [$ilde{s}^Y$] 'dull' and called the [$ilde{y}$] part 'prominent, not y', that is, the sound was definitely [$ilde{s}^Y$] and not the sequence [$ilde{s}^Y$].

Despite his remarks, Harrington also seemed to distinguish [sy] from English sh. For example, he wrote of the sibilant cluster [ssy] in [pússyumpí] 'scorches': 'Not sy. This s is only halfway like c but app[arently] not sy'. Again, $[s^{y}]$ is not a sibilant-semivowel sequence, but neither is it exactly like English sh (it is only 'halfway' like c). Another, though questionable, citation confirms the difference between English sh and $[s^{y}]$: $[m\acute{a} \cdot c^{y}i\eta ka]$, apparently 'I am afraid'. Harrington comments: 'V[olunteere]d and repeated many times. So sick I almost doubt it tho [ugh] '. What he is doubting is the legitimacy of the word, since this is the only time it appears. Of relevance here, however, is the use of the symbol $[c^{y}]$, a unique occurrence also, which appears to be equivalent to his [sY] and again shows that [s^Y] is really different from English sh. one entry, Harrington remarks that the final sibilant in [raras] 'finger' is 'easy to hear, Eng[lish] shy', that is, something like [šy], but not sh.

It seems more likely that the raised [Y] indicates palatalization, rather than e.g., a palatal sibilant, because (1) the [Y] is written only once in clusters, indicating no palatal articulation until the release of the fricative ([pússYump1]

'scorches'); (2) it is termined 'prominent', but not the regular semivowel [y] (see above); (3) the symbol parallels $[s^{y}]$. Thus, $[s^{y}]$ is probably a palatalized lamino-alveopalatal sibilant.

The 'half way dull' sibilant [s] appears rather infrequently and normally in words elsewhere recorded with [s] or [s]. Harrington did mean to mark some sort of distinction with this symbol, as is shown in a remark about the [s] in [noswe] 'breathes': 'This s, of the sharpest kind, sounded like s or s to me first time she said it'. It is apparently, as Harrington's description suggests, a sound 'half way' between [s] and [s]: a more backed articulation of apical [s], but not laminal like [s].

Despite the array of sibilants phonetically, there are only two sibilant phonemes, /s/ and /s²/, the symbols based on the most common allophone of each phoneme. In the absence of a standard phonetic symbol for [s²], the admittedly clumsy /s²/ was chosen so as not to be misleading about the phonetics of the phoneme, and also to show its similarity to palatalized /t² n² 1²/. In general, /s/ contains the allophones (or free variants) [s] and [s], while /s²/ is realized by [s²], [s²] and [s²]. Only [s] and [s²] occur word-initially. Other sibilants in this position are either errors, corrected on subsequent rehearings, or transcriptional lapses, such as the occurrences of (in Harrington's original transcription) s², rather than s² (that is, [s²]) or s² (that is, [s²]), which, given the distribution of [s²] and [s²] appears to result from Harrington's failure to write the underscore. Normally, forms containing

sibilants other than [s] or $[s^{y}]$ occur elsewhere in the data with [s] or $[s^{y}]$, implying, perhaps, free variation but certainly not phonemic contrast.

Minimal and near-minimal pairs showing the $/s/-/s^{Y}/contrast$ are:

/hassapu/ 'likes oneself'
/has^ys^yan/ 'abalone shell'

/hiske/ 'let me' or 'wait' (see sec. 443)
/his^yke/ 'what is that?'

/sukmu/ 'smokes' (verb)
/s^yukru/ 'tickles' (verb)

There are occurrences of both /s/ and /s y / before and after each of the five vowels, and both /s/ and /s y / occur as first or second members of consonant clusters with the same consonants (though there are examples of /s/ in clusters with more consonants than /s y /).

Complicating the picture somewhat, there is evidence of sound symbolism involving an interchange between /s/ and /s\footnote{Y}/. The clearest example of this phenomenon occurs in the pair of entries for the objective case form of 'splice', /su·pise/ and /s\footnote{Y}u·pis\footnote{Y}e/. Harrington comments: 'v[olunteere]d that she makes the word little by \signis^{Y}'. In other words, the form containing /s\footnote{Y}/ is the diminutive. Symbolism is not restricted to diminutives, however, as is shown by such pairs as: 23

 $^{^{23}}$ Harrington also records /mur¢usmin/ 'black one', /murtus Y min/ 'dark one', showing /t/-/¢/ as well as /s/-/sY/ symbolism. The status of the /s/ in the first form is uncertain however: Harrington also once records /murtu[s]min/ 'dark one', leaving open the possibility that /s/ is simply an error. See below on the status of /s\(^{y}/ in the suffix /-\(^{y}min/.

The occurrence of this kind of sound symbolism can explain several other $/s/-/s^{Y}/$ doublets with no indicated difference of gloss:

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/'asnu/ ~ /'as<sup>Y</sup>nu/ 'sneezes' (verb)
/haskay/ ~ /has<sup>Y</sup>kay/ 'scratch (it)!'
```

/s/ is realized as [s] almost all of the time. Under not fully understood conditions, however, it is 'dulled' to [s] and even to [s]. As in Ventureño (see above), /s/ is 'dulled' when followed by a dental consonant:

```
/ru[s]t<sup>y</sup>es<sup>y</sup>min/ 'slobbery one' (cf. /ru(')s/ 'saliva')
/pu[s]luhmin/ 'big-bellied one'
/hotro[s]tap/ 'had finger stuck into one's vagina'
/hamme[s]tap/ 'was crawled onto in the manner of a
cat'
```

The dulling seems to occur across word boundaries as well, as is shown by the pronominal objects ending in /s/:

/ye·laka[s] nansi/ 'Wait and I'll get acquainted with him'

/?ekweme[s] ta'pin/ '(It) doesn't suit you'
/?ekwe kanni[s] ta'pin/ '(It) doesn't suit me'

cf. /?ekweme[s] yete ta.pin/ '(It) will not suit you'
Unlike Ventureño, however, this 'dulling' process is not
restricted to occurring before dental/alveolar consonants, for
it is also found, e.g., before /h/:

/?ekwekwa[s] hiwsenin/ 'He didn't like him'

[s] or [s], rather than [s], is also occasionally found in the instrumental suffix /-sum/, perhaps due to the following back vowel:

/?issu[s]um/ 'with the hand'

/sire · [s]um/ 'with the heart [figurative sense]'

/nis Y s a sum/ 'because of that' (i.e., 'with that')

The last form, though recorded with [s], contains the comment

'dullish'.

The 'dulling' of /s/ is certainly an optional process, since 'sharp' [s] occurs in the same phonetic environments as the 'dulled' [s] or [s], either in additional recordings of the same words or in other words or phrases, and, in fact, is more frequent:

/pu[s]luhmin/ 'big-bellied one'

/haywe[s]tap/ 'was seen'

/ka·nme[s] tayke/ 'I touch you'

/?ekweme[s] notto/ 'Don't hit him!'

/ka·nwa[s] lokwe/ 'I take it out'

/?ekweme[s] hara/ 'Don't give him (it)!'

/sire·[s]um/ 'with the heart [figurative sense]'

There are several other instances of [s] varying with [s] in the same word, but no conditioning factor is evident. It seems best to treat these as residue, explanable as (usually corrected) mishearings (e.g., /hay[s]a/, but far more frequently /hay[s]a/ 'they'), unsure recordings (e.g., the /s/ in /ruys suksi/ 'shake with palsy' which was recorded as [s],

 $[s^{y}]$ and $[s]^{24}$), or instances of partial sound symbolism (e.g., /ya·[s]ir/ ~ /ya·[s]ir/ 'much'²⁵).

In summary, /s/ is normally realized as [s], but, under certain conditions, freely varies to [s].

Finally, two entries suggest that perhaps word-final /s/ is somewhat prolonged:

/ka·ras/ 'molar teeth'
very sharp and long
/ru(·)s/ 'saliva'
very long

On the other hand, before a consonant, /s/ is of normal length:

/pesyo/ 'thinks, remembers'
...only as long as 1st k of 'ekwe

That is, the /s/ is of the same length as the /k/ of /?ekwe/
'not' which Harrington had determined to be short (see footnote 2).

Under most conditions, $/s^{y}/$ is $[s^{y}]$. Following a dental/

In this instance, sibilant harmony may be at work, but if so it is better interpreted as a sporadic occurrence (more akin to a speech error) than a part of the phonology of the language. Harrington remarks that the final /s/ is 'really merely s', but later he hears it 's for all time', and later still says it is 'really' [sy] because it is 'so assimilated'. He does not indicate whether it is assimilated to the preceding [sy] (/sy) or the following /i/.

²⁵This form is also recorded once as (in Harrington's original transcription) [$y\bar{a}s^{y}ir$], that is, with s^{y} (not s^{y} or s^{y}), indicating that Harrington heard [s^{y}] or [s^{y}], both allophones of $/s^{y}$ /.

The word for 'saliva' was actually recorded [rus], with a short vowel, when the comment about the length of /s/ was made. See sec. 121 on vowel length in monosyllabic words.

alveolar consonant, $/s^{Y}/$ is normally $[s^{Y}]$. This alternation may be more in the nature of true allophony than free variation. Following /t/, there are few cases of $/s^{y}/$ occurring as anything other than [s^Y]:

> /kat[s^Y]i/ 'breaks someone's head' /pot[s^Y]e/ 'speaks badly of someone' /?it[s^y]a/ 'right now' /?at[s^y]aknis^ye/ 'girl [objective case]' cf. /?at[sY]aknisY/ 'girl [subjective case]'

Most of these words were recorded earlier with $[\dot{s}^{\dot{y}}]$ rather than $[s^{y}]$, but Harrington settled on 'sharp' $[s^{y}]$ after rehearings. After /r/ and /l/, /s/ also occurs as the 'sharpened' variety, but here the difference from $[s^{Y}]$ is either not so striking, or else the variation is optional: 27

> /pors Yes Ymin/ 'someone who is handy at doing lots of little things' -almost s-like, app[arently] as usual

The sequence /ns^Y/ occurs in only two sets of forms, and both are problematical. A 1922 recording [méns^Ya] 'you alone' was corrected in 1929 to [mé·nṣYa], implying either original error or else that /ṣY/ is somewhat 'sharp' after /n/. This form is also recorded in 1929 with the symbol (in Harrington's original transcription) sY, that is, lacking either the subscript circle of [sY] or underscore of [sY], leaving the phonetic status somewhat in doubt. The second set of forms are recorded with both [s] and [sY] seemingly in free variation: [monseyni] and [monsyeyni] 'comes to tell'

[[]monsemit] 'tell me!'

[[]monsYemis] 'told [benefactive]' In 1922, Harrington recorded $[mon \int e]$ 'tells', but in 1929 he wrote either [monse] or else another cryptic palatalized sibilant ambiguously $[s^Y]$ or $[s^Y]$. If the 'sharp' variants are due to the $/s^Y/ \rightarrow [s^Y]$ rule, $[s^Y]$ rather than [s] would be expected. Thus, if no error is involved, perhaps sound symbolism is at play.

/pels^yes^ymin/ 'fine, smooth one'

always strikes me as sy-like

/pirs^yana/ 'baby bird'

sharpish but not perfectly sharp

The last word was later recorded with the $/s^Y/$ indicated as the 'ordinary kind', that is, $[s^Y]$.

 $/s^{y}/$ is also 'sharpened' following /i/, but here Harrington indicated this fact by comment only, never by using [s] or [s y]:

/mis^Ys^Yimak/ 'good ones'
quite sharp

/mis^yte/ 'good

often so s-like that I have been mishearing

it in various words surely

/mis^Ytuka/ 'I warm myself'
heard with long struggle for after i it becomes
infintesimally dif[ferent] from mis.

/?itis^ypu/ 'praises onself'

Heard many times for this. Almost impossible to hear, but not s.

There remains a small residue of forms where Harrington wrote, in his original transcription, s^Y (not \underline{s}^Y or \underline{s}^Y). In all cases the forms are recorded elsewhere with $[\underline{s}^Y]$, so the ambiguous recordings can be classified as errors or transcriptional short-cuts on Harrington's part.

Before a consonant, the palatal element of $/s^Y/$ is often, though by no means regularly, lost, yielding [s]. This occurs most frequently in the two verb suffixes $/-s^Y$ min/ 'nominalizer'

and /-s^yte/ 'perfective' (see secs. 424.6, 432). Many of the words recorded with [s] in this position are elsewhere written with [s^y], and Harrington occasionally changed [s] to [s^y], though never vice versa. It is not clear whether such changes are due to corrections of mishearings, free variation or a normalization of transcription. Examples of [s] for /s^y/ in these suffixes are:

/halkas^yte/ 'blind' /halkas^ymin/ 'one-eyed one'
/hasses^yte/ 'angry' /pels^yes^ymin/ 'fine, smooth one'
/wattis^yte/ 'gone away'
/kiwros^yte/ 'bent' /ročkos^ymin/ 'unruly one' (hair)
/kippus^yte/ 'bulging, full' (cheeks)

All of the above forms (except /wattis Yte/) are also recorded with $[s^y]$ for $/s^y/$. Harrington infrequently commented on the phonetic nature of the $/s^y/$ in these environments. He did specifically note, however, that the second $/s^y/$ in /pels Yes Ymin/ 'fine, smooth one' had 'no y' on one occasion, but transcribed it with $[s^y]$ on other occasions.

There are far fewer instances of /s²/ as [s] in morphemes other than these two suffixes. Harrington records /s²yu[s]puninka/'I got glare (in my eyes when a mirror was flashed in my face)', commenting 'no y here', but also /s²yu[s²]pumpi/, the corresponding causative verb. Similarly, the /s²/ in /hiw(h)oknis²/' old person' is 's-like', but only when followed by the plural suffix /-mak/. Also, the palatalization is lost in one recording of /ho[s]tokte/ 'light (in weight)', though this form is also recorded with [s²]. In other forms, /s²/ occurs as [s²] before

a consonant.

```
Examples of the two sibilants before various vowels are:
           'splitstick'
/sallik/
                          /sa'kar/ 'louse eggs, nits'
                          /se·pek/ 'beard (on chin)'
/semmonin/ 'died'
/sinni/
           'child, baby'
                          /si·/
                                     'water'
                           /so·mon/ 'hollow (of a tree, log)'
/sottow/
           'fire'
/sukmu/ 'smokes'(verb) /su·ne/ 'hunger'
/s<sup>Y</sup>ačwe/ 'opens'
/his ys ye/ 'does, makes'
/s<sup>Y</sup>impur/ 'eyelash'
/sYollen/ 'is sad' /sYo'le/ 'sadness'
/s<sup>Y</sup>ukru/ 'tickles' (verb)
113.2. /h/
```

/h/ is certainly, as its symbol [h] indicates, a voice-less glottal fricative. Intervocalically it may be weakly articulated, as is suggested by Harrington's comment that the /h/ in /lohosymin/ 'lazy one' is 'faint and quick'. Before a consonant, /h/ may be more strongly articulated. Harrington records 'skies' as /tarahmak/, commenting of the /h/ 'or x'. 28

In word-final position, Harrington writes of more frequently than [h], but from alternate transcriptions of the same form it is clear that both symbols have the same meaning, e.g., [ro·reh] and [ro·reo] /ro·reh/ 'clover sp.'. /h/ in this position is

Harrington actually wrote 'or χ '. This symbol may be interpreted as Greek <u>chi</u>, the IPA symbol for a uvular fricative, as easily as \underline{x} , a velar fricative. Since this is a unique occurrence, and since the most reasonable inference is that /h/ in this position is somewhat 'fortis', either interpretation will do.

somewhat unstable. Some words which, on morphological grounds, should have final /h/ do not, though the /h/ does occur in the same form when non-final, e.g., before the plural suffix /-mak/:

/to·yo/ 'bumblebee' /to·yohmak/ 'bumblebees'
In other forms, /h/ remains word-finally:

/tarah/ 'sky' /tarahmak/ 'skies'

And in others, word-final /h/ occurs in some attestations, and is lacking in others:

/lasseh/ ~ /lasse/ 'tongue'
/kitroh/ ~ /kitro/ 'garment, skirt'

The most reasonable interpretation of this situation is that word-final /h/ is optionally dropped.

Even though /h/ may not appear word-finally, it is nonetheless potentially phonemic in this position, as is shown by the minimal pair:

/mommoh/ 'seed sp.' /mommo/ 'puts (someone) face
down'

The status of word-final /h/ is somewhat confusing because of the existence of non-phonemic aspiration following word-final vowels (see sec. 123). Where there is morphological evidence, it is possible to determine whether final $[\ell]$ is /h/ or nonphonemic aspiration. Where morphological evidence is lacking, final $[\ell]$ has an ambiguous interpretation. Words in which the status of final $[\ell]$ cannot be determined are rendered phonemically with /h/, indicating that, with further information, the /h/ will either be eliminated from the phonemic transcription, or else given full phonemic status as /h/. Forms in

which word-final /h/ is not attested in any recording by Harrington, but is deduced by comparison with related forms in which /h/ occurs non-finally, are rendered phonemically with /(h)/, indicating that /h/ might have occurred had Harrington elicited the form more frequently. There is no evidence that /h/ was dropped obligatorily under any condition.

There is some indication that the unstable nature of word-final /h/ has had repercussions on the 'underlying' or 'morphophonemic' representation of some words as well. That is, there are some words which occur as doublets, one with and one without final /h/:

```
/?innu/ ~ /?innuh/ 'door; road'
/?innuse/ ~ /?innuhse/ 'id. [objective case]'
/kalle/ ~ /kalleh/ 'sea'
```

(/-taka/ and /-tak/ are allomorphs of the locative case suffix, occurring after vowels and consonants, respectively. Harrington specifically notes that both forms of 'at the sea' are good.)

Examples of /h/ before various vowels are:

/kalletka/ ~ /kallehtak/ 'at the sea'

There are three nasal phonemes, /m n $n^{Y}/.$

Lacking comments by Harrington to the contrary, /m/ is best considered, as its symbol [m] suggests, a voiced bilabial nasal. In intervocalic position, /m/ may have a slight increment of length. This is suggested by Harrington's comment on Mrs. Cervantes' response to Arroyo's samursi 'having long hair' (1862: entry no. 1265). Harrington records that she did not know the word, but that it 'surely' was pronounced [samursi], with the [m] 'half held, but ev[idently] all m's in this position are thus. Surely for single m, but it bothered me it sounded s [a smudge is here, perhaps covering up an oldouble'. By 'half held', Harrington apparently meant that the [m] was held longer than other single consonants, though not as long as a geminate [mm].

/n/ is surely an apical nasal, though, as with /t/, it is not possible to determine whether it is dental or alveolar or subject to conditioned allophonic variation between the two. Before /k/, /n/ is usually a velar nasal [η]. This assimilation occurs most often before the first person singular pronominal enclitic /-ka/, and undoubtedly this frequency is due to the fact that /n/ is a very common verb ending (see secs. 421.1, 431.2). For examples:

/ti·ti[ŋ]ka/ 'I am getting well'

cf. /?ekwek ti tin/ 'He is not getting well'

/mu·hi[ŋ]ka/ 'I am (getting) hot'

/lalluni[ŋ]ka/ 'I got lost'

Occasionally, the assimilation does not occur, and Harrington's first recording (of 1922) often show the absence of the process:

The assimilation occurs, though not always, within stems as well:

1922: /hi[n]ka/ } 'what (is one) doing?'
1929: /hi[n]ka/ }

1929: /ta[ŋ]kar/ 'palate'
/ču[ŋ]ki/ 'unfolds (e.g., a blanket)' (unsure)
but /tu[n]ku/ 'wiggles nose to send a signal'

There is one instance of velar assimilation in the pronominal proclitic /kan-/ 'my': /ka[ŋ]-koro/ 'my foot', also recorded /ka·[n]-koro/ (see sec. 354 regarding the varying vowel length). Finally, there is one attestation of the assimilation occurring across a word boundary: /?iččo[ŋ] kannis pat^yt^yan/ 'I am bleeding' (literally, 'blood is coming out of me').

In one word, /n/ sometimes assimilates to a preceding /m/:
//amne/ 'rains' is recorded most often as ['amne], but occasionally as ['amme]. Likewise, in a single recording, final
/n/ of a pronominal proclitic is recorded as [m] before /p/ of
the following word: /wattin ka[m]-piretka/ 'I am going to my

There are, in addition, two cases of $[\eta]$ before /h/, though these are in related Spanish words mixed into a Mutsun sentence: /?arka $[\eta]$ hel/ < Arcángel 'Archangel'; /?a· $[\eta]$ hel/ < ángel 'angel'.

land'. Within a word, /n/ probably becomes [m] before /p/ of a following suffix, though this too is attested in only one word: /hese[m]pu/ 'makes a nest for oneself', cf. /hesne-/ 'to make a nest', /he·sen/ 'nest'. Finally, the causative suffix /-mpi/ is clearly derived from /-npi/ as shown in occasional recordings of [n] by Harrington and normal recordings of -npi or -npe by Arroyo. The suffix is here treated as monomorphemic, and thus as containing /m/ (see sec. 421.2.1). There are no examples of /m/ assimilating in point of articulation; cf. /nisysyasu[m]ka/ 'because of that, I...' (literally, 'with that, I').

The third nasal, $/n^Y/$, parallels $/t^Y/$ is being, apparently, an apical nasal with a palatal offglide, written $[n^Y]$ by Harrington. $/n^Y/$ occurs, among other places, in word-final position in the agentive suffix $/-pan^Y/$. Harrington's clearest comment on the nature of this sound is with reference to this suffix in $/hi \cdot wopan^Y/$ 'one who scolds'. He notes in 1922 that the $/n^Y/$ is a 'palatalized \tilde{n} '. In 1929, on rehearing the form, he comments 'c[learly] h[eard] forever' and 'again c[learly] h[eard], still hear it sic' (that is, as $[n^Y]$).

It is possible that $/n^Y/$ is a palatal nasal, rather than a palatalized apical nasal. On the basis of patterning this is unlikely, however, since there is a whole series of palatalized phonemes $(/t^Y \ s^Y \ l^Y/$ in addition to $/n^Y/$). Also, Harrington apparently paid close attention to the phonetic nature of $/n^Y/$, and chose to write it as $[n^Y]$ rather than $[\tilde{n}]$, a symbol with which he was familiar (see his comment above) and which he once actually used: ['annaspañ], glossed as

'que nos perdona Dios' ('may God pardon us' or 'that God pardons us') though most likely /?annaspan Y / 'pardoner, pitier'. Furthermore, he was occasionally inconsistent about whether a particular nasal-palatal sequence was a unit phone [n^{Y}] or a cluster [n_{Y}] (see below). If we continue to acknowledge Harrington's good phonetic ear, it seems that this confusion would not have occurred had $/n^{Y}$ / not been sequence-like, that is, a palatalized [n].

 $/n^{\mbox{y}}/$ is distinct from /n/ as is shown by the following near-minimal pairs:

/pina/ 'there'

/hin^ya^a/a 'a little later'

/hu·nan/ 'cures' (verb)

/humu·n^ya/ 'hummingbird'

 $/n^{Y}/$ never occurs in a cluster, including a geminate cluster, implying that it might be analyzed as a /ny/ cluster itself. Occasionally, Harrington records both $[n^{Y}]$ and [ny] for the same word or for related words:

 $/mo[n^{Y}]os^{Y}min/$ 'promiscuous one'

/mo[ny]os^yte/ 'promiscuous'

/?o[n^Y]ekma/ 'companions'

/?o[ny]enmak/ 'id.'

In such cases, it is often possible to resolve the apparent differences by recourse to other forms in which the cluster should be broken up by a vowel:

/monoypu/ 'is promiscuous'

/?oneypustap/ 'was accompanied'
Thus, the words cited above should be /monyos min/ and
/?onyekma/.

On the other hand, not all cases of $/n^Y/$ can be considered clusters. The most striking case of a non-cluster interpretation is the agentive suffix $/-pan^Y/$ which occurs only wordfinally. If $/n^Y/$ were really /ny/, the suffix /-pany/ would contain the only word-final consonant cluster in the language. Similarly, excepting some monosyllabic stems, syllables with long vowels do not end with a consonant. Thus $[ri \cdot n^Ya]$ 'mouse' cannot be $*/ri \cdot nya/$ since the syllable $/ri \cdot n/$ is impossible as the first syllable of a disyllabic stem. It is phonemically $/ri \cdot n^Ya/$.

There is only one instance of word-initial $[n^Y]$: $[n^Y \text{ott}^Y \text{o}]$ 'denies' (cf. /notto/ 'hits with the fist'). Here it is possible that the initial consonant is /n/, but palatalized due to the following geminate $/t^Y$ / (that is, the word is phonemically /not $^Y t^Y \text{o}$ /). Since this is a unique occurrence, the exact status of word-initial $[n^Y]$ must remain ambiguous.

Examples of the nasals before various vowels are:

/maţţer/	'tobacco'	/ma'hul/	'phlegm'
/mečke/	'it's clouding up'	/me·lon/	'sinks' (verb)
/minmuy/	'below, under'	/mi ^{tis/}	'fledgling'
/mommo/	'puts(something)face down'	/mo'hel/	'head'
/muruţ/	'darkenss'	/mu·hi/	'it's hot'(weather)
/namti/	'hears'	/°ana•/	'mother!' (vocative)

'this' /neppe/ 'fights' (verb) 'teaches' /ni[•]pa/ /nimmi/ 'hits with the fist' /notto/ /hunu nu/ 'dove' 'which' (relative /numan/ pronoun) /ri·n^ya/ 'mouse' 'cat' /pen^yek/ /pin^Yi ka/ 'perhaps I' /pin^Yi/ 'perhaps' (/n^Yot^Yt^Yi/ 'denies')

115. Laterals

Mutsum has two lateral phonemes, /1 1^{Y} /.

/1/ is apparently a voiced apical lateral, although, as with /t/ and /n/, its exact point of articulation (dental or alveolar) cannot be determined. Harrington wrote /l/ as [1], and, in the data examined, makes no remarks at all about its phonetic nature.

Examples of /1/ before various vowels are:

'goose' /lattun/ 'drips'(verb) /la:lak/ 'goes along rubber-/le'lete/ 'hairpin' /leppeh/ necking (ogling) all the time' 'kills' 'hide (it)!' /li·ki/ /lippay/ 'lazy ones' /loytohmin/ 'loose one' /lo'hokma/ 'gets stuck' /lu·hun/ /lullup/ 'flute'

 $/1^{\rm Y}/$ occurs extremely rarely; it is found in only three words in the material examined:

/pel^Ymo/ 'is soft'

/pitl^Yan/ 'gopher dirt, gopher track'

/hel^Yekpu/ 'is happy'

It is apparently an [1] with a palatal offglide, and is written $[1^y]$ by Harrington. 30 It is clearly a unit phoneme, as is shown by its occurrence in the clusters $/1^y$ m/ and $/t1^y$; there are no triconsonantal clusters in the language. The $/1^y$ / of $/he1^y$ ekpu/ 'is happy' is characterized as 'c[learly] h[eard]' by Harrington.

/1^Y/ is distinct from the cluster /ly/ as in /kulyan/
'blackbird' and /lolyonin/ 'became mad with joy'. It is also
distinct from /l/; compare the above three words with:

/helmo/
 'is soft'

/matla/
 'is (lying) face down'

/mitlis Yte/
 'curled up' (e.g. when sleeping)

/?eleymin/
 'hawk sp.'

The occurrence of /l/ in /helmo/ and /l Y / in /pel Y mo/, both meaning 'is soft', suggests that /l Y / may be involved in some sort of sound symbolism, but there are not enough data to clarify this matter.

116. /r/

The exact phonetic nature of /r/ is unclear. It is surely voiced, as Harrington indicates when the /r/ follows a /t/ to distinguish /tr/ from /t/, written [tr] (see sec. lll.l). For example, the /r/ in /kitroh/ is, in one attestation, specifically

Harrington had quite a bit of difficulty hearing /pitl^yan/
'gopher dirt, gopher track'. In 1922, he recorded the word as [pitlan], but in 1929 as [pitlyan] with the comment 'a full y, not 1^y'. He later recorded it as [piklan], saying that the [k] was 'c[learly] h[eard]', but finally settled on [pitl^yan], noting that this had 'a good example of 1^y'. Similarly, /kehlesymin/ 'hoarse one' and /kehlenin/ 'became hoarse' were originally recorded as [kehlyesmin] and [kehlyenin]. In this case, on rehearing, Harrington settled on [1] rather than [1^y] as the correct sound.

labelled, 'voiced'.

It is also possible that /r/ is alveolar (or dental) rather than retroflex. This is based on the fact that $[s^Y]$ occurs after /r/ as an allophone of $/s^Y/$, in the same way it occurs after /t/ and /l/ (see sec. 113.1), e.g.:

/pors y es y min/ 'someone who is handy at doing a lot of little things'

The simplest formulation of the allophonic rule for $/s^Y/$ implies that $[s^Y]$ occurs after apicoalveolar (or dental) consonants. Unfortunately, confirming evidence is lacking, since there is no example of a $/ts^Y/$ cluster to show what happens to $/s^Y/$ following a retroflex consonant.

As for manner of articulation, /r/ is surely a tap or trill. Harrington gives no help on this matter when recording forms from Mrs. Cervantes, but in rehearing Mutsun words from Isabel Meadows he often writes /r/ as [rr] and geminate /rr/ as [rrrr]. This implies a trill. In Mrs. Cervantes's speech, however, /r/ never occurs as a geminate, which would indicate that the recordings of /rr/ represent either a different dialect, Mutsun spoken with a Rumsen accent, or Rumsen and not Mutsun at all. The only other clue to the articulatory nature of /r/ comes from Arroyo. The complete phonetic description in his grammar (1861:2) is:

Al Idioma de estos Indios, le faltan las letras siguientes: \underline{b} , \underline{d} , \underline{k} , \underline{f} , \underline{r} , fuerte, \underline{v} consonante, \underline{y} \underline{x} .

(The following letters are lacking in the language of these Indians: \underline{b} , \underline{d} , \underline{k} , \underline{f} , strong \underline{r} , consonantal \underline{v} , and \underline{x} .)

(The comma between \underline{r} and \underline{fuerte} is presumed to be a typographical error.) The 'strong \underline{r} ' is undoubtedly the Spanish trill [r] written \underline{rr} in Spanish orthography. Spanish also has a tap $[\underline{r}]$ and it is this sound, apparently, which is not lacking in Mutsun. Thus, if we follow Arroyo, who could presumably distinguish tap from trill because of his native Spanish, Mutsun /r/ is a tap or flap. 31

Examples of /r/ before various vowels are:

117. Semivowels

The two semivowels of Mutsun are /w y/. /w/ is a bilabial semivowel, written [w] by Harrington. The lips are apparently quite rounded for /w/ as is suggested by such recordings as:

[yu·] ~ [yuw] /yu·/ 'go!'

[tappur "wotón] /tappur woton/ 'wood knot'

(The latter comes from /tappur/ 'wood' plus /woton/ 'knot'

< Spanish boton.) Similarly, the final /w/ of /sa·w/ 'song'

Arroyo also discusses the nature of /r/ in his Phrasebook (1962:77), saying, this time in Latin, that Mutsun /r/ is like the single intervocalic \underline{r} of Spanish orthography (i.e., the tap) and never the orthographic \underline{rr} (i.e., trill).

is in one recording characterized as 'o-like'. Furthermore, /muččuw/ 'breakfast' (noun) is recorded on two occasions as /muččup/; the identity of the final consonant as /w/, and not /p/, can be seen in the objective case form /muččuwe/. It is interesting that the associated verb form, /mučuwpu/ 'eats breakfast' is recorded with [u·] rather than [uw], again shedding light on the nature of /w/. (The presence of /w/ in /mučuwpu/, rather than /muču·pu/, is based solely on its presence in the noun form. There are no cases of verb-noun pairs where the noun has a suffixed /w/ or, for that matter, /p/.)

/y/ is a palatal semivowel, written [y] by Harrington.

Examples of the semivowels before various vowels are:

'freshet' /wa·kis/ /wakkas/ 'rump' /weclohte/ 'big-mouthed' /we·ren/ 'rabbit' /wi·cuhte/ 'narrow' /wimmah/ 'wing' /wos^Ynonin/ 'got choked' 'boils' (verb) /wuppe/ 'much' 'is enough' /ya·sir/ /yasri/ 'is torn, full of /keye'mu/ 'nudge each other /yerseksi/ with elbows' holes' 'kick (him)!' /yiray/ 'hail' /yo·kon/ 'ashes' /yopok/ 'filth' 'cheats, lies' /yu·mus/ /yumme/

118. Phonetic features of geminate consonants

Geminated consonants are treated as consonant clusters and, like other consonant clusters, occur only word-medially (see secs. 131, 132). Phonetically, geminates are apparently held for double the duration of simple consonants (if Harrington's

notations such as 'double' are taken at face value). In geminated affricates, the stop part is held, while the fricative release is of normal duration (affricate-like /tt/ also follows this pattern); in geminated palatalized consonants /t^y s^y/ the obstruent part is held, with the palatal offglide of normal duration. These characteristics are based exclusively on Harrington's transcription:

(Normalized) Harrington Transcription	Phonemic Transcription	
ttc	ర ర	
ttr	ţţ	
tt ^y	$t^{y}t^{y}$	
şş ^y	$\mathtt{s}^{\mathtt{y}}\mathtt{s}^{\mathtt{y}}$	

The other possible geminates of this type ($/\cancel{e}\cancel{e}$ $n^Y n^Y$ $1^Y 1^Y$) are not attested, but would presumably be transcribed in the same pattern (tts, nn^Y , 11^Y).

Because of their phonetic nature, there can be no contrast between these geminates and clusters consisting of affricates of palatalized consonants preceded by their non-affricate or non-palatalized counterparts. That is, there is no contrast between /čč/ and /tč/ or /t^Yt^Y/ and /tt^Y/, and the second member of each pair does not occur. Significantly, there is a contrast between /tt/ and /tt/ (as in /witti/ 'is hard, solid, firm') since /t/ and /t/ are not at the same point of articulation. (/s^Ys^Y/ need not be included here since there are no non-geminate sibilant clusters, so no possibility anyway for */ss^Y/.)

Sequences transcribed by Harrington as \underline{ttc} , $\underline{tt^{Y}}$, etc., are considered geminates on morphological grounds. That is,

there is no evidence that they are clusters which could, under the proper morphological circumstances, be separated by a vowel. 32

It might be possible to treat geminates as long consonants, transcribed /C./, rather than as consonant clusters. Favoring such an interpretation is the fact that geminates lack the phonetic features normally associated with clusters (sec. 119), and seem best described as consonants with extra-long closure. On the other hand, geminate consonants pattern as clusters in terms of both phonotactics (sec. 130) and certain aspects of morphology (sec. 220). To save the 'long consonant' analysis of geminates, length (i.e., / · /) might be considered a consonant itself, as was proposed, e.g., by Broadbent (1964:11-32) for Southern Sierra Miwok. Such an analysis, however, somewhat complicates Mutsun morphophonemics since geminates may occur across morpheme boundaries, e.g., /si·ttak/ 'teeth (locative)' (</si(·)t/ 'tooth, teeth', /-tak/ 'locative case'). Harrington indicates that geminates of this type are phonetically identical to those which occur morpheme-internally: Mrs. Cervantes 'Holds the t' in /si·ttak/. Thus, a morphophonemic rule must be added of the form

$$c_1c_1 \rightarrow c_1$$

(a sequence of two identical consonants becomes, phonemically, a long consonant, or a cluster of consonant plus $/\cdot/$). Given the

³² Similarly, in Miwok there are no clusters of the type /tč/distinct from geminates of the type /čč/. In Lake Miwok, Callaghan (1963:40) writes that if the second consonant of a cluster is an affricate, the first consonant 'is never a voiceless homorganic stop'. Likewise, no homorganic stop-affricate cluster is found in Southern Sierra Miwok (Broadbent 1964:24).

limited data, and the lack of a strong reason to analyze length as a consonant, it was felt best to retain Harrington's transcription and treat all geminates as clusters. (On the possibility of analyzing vowel length as a consonant, see sec. 135).

Several consonants are not attested as geminates. There are /¢ n^y 1^y/ as noted above, and also /w/ and /r/. The first three are rare in general, so their non-occurrence as geminates is not surprising. The exclusion of /w/ from gemination may be fortuitous since a geminante /yy/ does occur, and there is no reason to expect the semivowels to behave differently from each other. The lack of a geminate */rr/, on the other hand, is probably significant. This is suggested by comparative evidence, since both /r/ and /rr/ occur in Rumsen. In commenting on certain Mutsun words, Isabel Meadows would sometimes provide a form with /rr/, though whether such forms are of a different dialect or a different language (Rumsen) is not clear. Mrs. Cervantes gave only /r/.

That gemination is a phonemic feature of Mutsun may be illustrated by such pairs as:

/?amma/ 'eats' /?ama/ 'body, person'

119. Phonetic features of consonants in clusters

Non-geminate clusters may consist of no more than two consonants (see secs. 131, 132). There is some evidence that the first consonant of a cluster is distinctly articulated, or released, prior to the onset of the second consonant, resulting in a brief though definite break in the cluster. In the case of stops and affricates, this release could take the

form of aspiration (see secs. 111.1, 112). Occasionally, however, another phenomenon is noted. When the second consonant is a sonorant (nasal, lateral, /r/, or semivowel), an epenthetic vowel of a clearly non-phonemic status may occur between the two consonants. The first consonant, apparently, can be any consonant, though the actually attested examples are very few and, though the details are not clear, perhaps aspiration rather than vowel epenthesis occurs if the first member is /t/ or /k/, e.g. [pókenis] /poknis/ 'thick mush'. The epenthetic vowel also may appear between consonants across word boundaries. Harrington transcribes the vowel as a superscript letter, sometimes enclosed in a caret and/or parentheses to indicate its inserted nature:

```
[mis<sup>i</sup>yá] /misya/ 'pretty ones'
['am (a) né] /amne/ 'rains'
[makám rittapu] /makam rittapu/ 'you (pl) are speaking amongst yourselves'
```

 $^{^{33}}$ Actually, the only attested cases of epenthetic vowels occur before /m n r w y/. In the data from Isabel Meadows, the vowel also appears before /l/. The only non-attested possible second consonants, then, are the rare /nY 1Y/.

In rehearing his Mutsun notes with Isabel Meadows, Harrington did record epenthetic vowels following stops. In all cases, the informant was guessing at the form rather than volunteering the information, so the data may be unreliable. The examples are (in Harrington's original transcription):

pāk ren 'gets full (of tears)' (crying)

pit lan 'gopher dirt, gopher track'

cf. Mrs. Cervantes's /pitl yan/

pus rren 'blows (in witchcraft)'

pop ren 'naps'

This phenomenon occurs in some Rumsen vocabulary as well:

hup rrust 'having boils'

meh lest '(one) with fluid in eyes'

[pel^Ymo] /pel^Ymo/ 'is soft'

(Harrington's <u>svarabh</u> is clearly an abbreviation for <u>svarabhakti</u>, the Sanskrit term for 'epenthetic'.)

['itri yan], probably for ['itri yan] / ityan/ 'behind' cf. ['its.yan] / id'.

There are not enough data to determine precisely what governs the quality of the epenthetic vowel. Generally speaking, the vowel has a quality similar to the preceding vowel, as is shown in the above examples. [e], presumably a mid central vowel, follows /a/. The other hand, consonantal quality may also play a role. In 1922, Harrington recorded [pitr'uwiy], corresponding to his 1929 recording [pitrwiy] /pitwiy/ 'untie (it)!'. The 1922 transcription probably reflectes an epenthetic [u] and normal [w], that is, [pitr'uwiy]. The vowel quality here is clearly associated with the following /w/ rather than the preceding /i/. Similarly, the 1922 recording [truhiyin] seems to contain an epenthetic [i] before [y] as shown in 1929's [truhyin] /tuhyin/ 'it's getting to be late in the morning'.

In general, it is probably safe to say that, on occasion, in clusters whose second member is a sonorant, a weakly articulated epenthetic vowel is pronounced upon the release of the first consonant. The voiced nature of the vowel, regardless

Journal Transcribing Chumash, Harrington used a for a high central vowel [i], but given the weak nature of the Mutsun epenthetic vowels, mid central [a] seems a more reasonable interpretation. An example of epenthetic [a] in Mutsun, also following /a/, is in /hi·ča?misY/ 'pet' which was occasionally recorded with a superscript (a) between the /2/ and /m/. This word is peculiar, however, because of the non-initial /2/ (see footnote 15).

of the preceding consonant, is probably due to the voicing of the following sonorant. The quality of the vowel is dependent in various ways upon the exact environment. If the first member is /t/ or /k/, aspiration may preclude an epenthetic vowel. 36

120. Vowels
The vowels of Mutsun are:

	Front Unrounded	Central (Unrounded)	Back Rounded			
high	i		u			
mid	е		0			
low		a				

121. Vowel quantity

All vowels occur both long (indicated by a raised dot) and short. (On the possibility of treating vowel length as a consonant, see sec. 135.) Phonemic length contrasts may be illustrated in minimal pairs such as:

Harrington Arroyo pojolo (2105) /pohlo/ 'has bulging eyes' 'blows as part of doctoring' pusuren (2173) /pusren/ sathrara (1234) /satra/ 'is open-mouthed' (Numbers following the Arroyo forms refer to entry numbers in Arroyo 1881.) Mason reproduced these vowels, e.g., humiri (1916: 455) for Harrington's/humri-/'to baptize'. It is possible that the epenthetic vowels were not epenthetic at all during Arroyo's time, but they became weaker and weaker to the point of all but disappearing by the time Harrington did his work. Further historical study is necessary to determine their exact status.

One additional phenomenon noticed involving consonant clusters is a tendency to prolong the first consonant, though this is found in only two words: ['ekkwe] (usually ['ekwe]) /'ekwe/ 'not', and [posyo] /posyo/ 'scorches, sears', where Harrington remarks, 'The s is held, but that is the same as in 'ekwé'. A conservative conclusion from this is that the first consonant of a cluster was always 'fortis' in one way or another.

Arroyo also heard these epenthetic vowels, though he recorded them as full vowels. Compare, for example:

```
/?aman/ 'much'

/?a·man/ 'believes'

/raraṣ

/raraṣ

/ra·raṣ

/molar tooth'

/čiri/ 'paternal aunt'

/čiri/ ~ /či·rih/ 'horn'
```

In monosyllabic words, a relatively small part of the Mutsun lexicon, maintaining a distinction between long and short vowels is troublesome. Some of these words are consistently recorded with long vowels, and others consistently with short. Most, however, are recorded, seemingly erratically, with long vowels on one occasion, and short on another. Similarly, some are recorded with a special diacritic which occurs only in monosyllabic words and apparently means 'longer than short, but not as long as long', or else 'of indeterminate length'. This diacritic is written $\tilde{\mathbf{v}}$ by Harrington (where V can be any vowel). Long vowels are indicated (in the 1929 recordings) as $\tilde{\mathbf{v}}$; short vowels are unmarked. 37

Part of the variation in recording is clearly due to
Harrington's having trouble determining what the length of the
vowel in any individual word was. For example, he says that
[si'] 'water' contains 'Two moras', but [ni'] (also [ni]) 'here'

Harrington also occasionally uses the symbol \tilde{V} , normally in the combination \tilde{V} , that is, a long stressed vowel further characterized as '~'. The meaning of the tilde is unclear, but there is no indication that it refers to nasalization. It is more likely a mark of some kind of vowel quality (perhaps 'tense' as opposed to 'lax' or something of the sort) or else of pitch pattern accompanying stress. In recording Isabel Meadows's responses to Mutsun forms, as well as her own Rumsen vocabulary, Harrington almost invariably wrote stressed (long or short) vowels as \tilde{V} . In Mrs. Cervantes' Mutsun, however, the '~' is all but limited to monosyllabic words.

'sounds shorter to me.... Heard each many times over and still do not know'. Similarly, he records [ruk] '(bow)string' with an 'app[arently] short' vowel, and also [rú·k] whose vowel is 'at least longish'. The word for 'eye, face' is recorded [hí·n], [hín] and [hí·n] (that is, in Harrington's transcription, hín), and is compared, in order to determine the true length of the vowel, with the word for 'tear' (in crying), ['fi·n], ['In] and ['fin], the last with the annotation 'short'. The two words, Harrington at one point concludes, have the same length.

Harrington recognized that long vowels of the same length as long vowels in polysyllabic words were generally lacking in monosyllabic words. He remarks of the vowel in [mas] 'beads': 'normal short vowel of all monosyllables app[arently]', but even this word was earlier recorded [má·s]. In fact, most of the monosyllables about whose length Harrington comments are characterized as neither clearly long nor clearly short, but as 'shortish', half long', 'longish'. The notations 'long' or 'short' usually appear only when the word was earlier recorded with a vowel which was short or long, respectively.

Most of the monosyllabic words with vowels of ambiguous length are nouns. With one exception, discussed below, all of these nouns appear to behave in the same way: when followed by a suffix, the vowel is long, e.g.:

Interpreting this situation involves recourse to Mutsun phonotactics (or morphophonemics). As will be shown in sec. 135,

there is a general phonotactic (or morphophonemic) rule shortening underlying long vowels when followed by a consonant cluster, a word-final consonant, or a word boundary. For monosyllabic stems, however, the rule is further restricted: it applies optionally before a word-final consonant, and otherwise does not apply at all. Thus, the underlying form of [hi(·)n] has a long vowel, accounting for the vowel length in all the suffixed forms; the varying length of the non-suffixed form is due to the optional application of the vowel-shortening rule.

It is interesting that the only time a consonant cluster follows a long vowel is when the long vowel is part of a monosyllabic stem; otherwise, the vowel-shortening rule would apply. For example:

/hu·smak/ 'noses' (/-mak/ 'plural')
/lo·ttak/ 'in the mud' (/-tak/ 'locative case')

The one exception to the foregoing discussion is the monosyllabic noun for 'bodylouse': [rah], [rahmak] (plural). If these recordings are accurate, they constitute evidence for an underlying length distinction in monosyllables, since, if [rahmak] had an underlying long vowel in its stem, the form should be *[ra·hmak]. Other monosyllabic nouns attested only with short vowels (such as ['etr] /'et / 'bed') might also have underlying short vowels, though this cannot be determined in the absence of suffixed forms. That is, since monosyllabic stems (or at any rate, noun stems) are sometimes shortened in non-suffixed forms (i.e., when monosyllabic words), any underlying length distinction is neutralized. Thus, given a recording [putr] /put/

'feather', there is no way to determine whether the underlying vowel is long or short; but upon finding the objective case form [pu·trse] /pu·tse/ where the distinction is maintained, the length of the underlying vowel can be determined.

Whether the final consonant has anything to do with the likelihood of the vowel-shortening rule's applying is indeterminate. Before (voiceless) stops and affricates, the vowel is almost always recorded short, though on three occasions with annotations: 'half long' (for [lot] 'mud' [<Spanish lodo]); 'rather longish' (for a 1922 recording [sit] 'tooth'); 'at least longish' (for [ru·k], normally [ruk], '(bow) string'). But before fricatives and sonorants (only /n r w y/ are attested as final sonorants of monosyllables) there is variation or indeterminacy.

In short, there are not adequate data to satisfactorily determine what the best interpretation of the length of monosyllabic words (specifically nouns) should be. As a pragmatic solution, such forms recorded consistently with either long or short vowels are given a straightforward phonemic interpretation (long or short vowel, respectively). Those recorded with variation are rendered with indeterminate length, e.g., /hi(·)n/'eye, face'.

122. Vowel Quality

Exact vowel quality can be deduced only from Harrington's occasional comments. Vowel allophony may also have been affected by stress, but stress itself was recorded rather inconsistently (see sec. 140). Thus, only a sketchy picture can be

presented.

/i/ is a high front unrounded vowel, transcribed [i] by Harrington. Before /y/ and /w/, /i/ is noted as being quite high:

[hitwi·Ynuk] /hitwiy nuk/ 'wash it' (also [hitwiynuk])
-not merely i.

[hiwsen] /hiwsen/ 'wants, likes'

perhaps better yu ('yu' probably means [yyu])

/i/ is also termed 'close' in the monsyllable /si(·)t/ 'tooth'.

In one entry, /i/ is recorded as [±], though it is not clear exactly what Harrington meant by this symbol. In his Chumash materials, he wrote the high central [±] with = (see, e.g., Harrington 1974:2). Thus [±] here may denote a somewhat lower quality, perhaps lower-high [I]:

[wattininak] /wattininak/ 'he went (away)'
There is, in fact, a unique occurrence of /i/ as [I]:

['In] /'i(')n/ 'tear' (crying)

This word is elsewhere recorded ['i'n] and ['in] with the normal symbol [i]. Further, though non-conclusive, evidence that /i/, under certain conditions may be of somewhat lower quality comes from Harrington's various recordings of /hintise/ 'what?':

1929: [hintrise]

C[learly] h[eard]. not i. I misheard it earlier...

If /i/ were high [i], Harrington's chances of mishearing would have been much less.

/e/ is most often the lower-mid front unrounded vowel

[ϵ], or mid [E]. When long, /e'/ is most clearly of this quality:

/he·sen/ 'nest' /me·se/ 'you (objective case)'
open and long real open e

Elsewhere, it is probably also usually $[\epsilon]$, e.g.,

but Harrington states that $[\epsilon]$ is not exactly the correct quality, suggesting, perhaps, [E]:

/pors y es y min/ 'a person who is handy at doing lots of little things' almost ϵ -like as usual

Sometimes, /e/ may be somewhat lowered or centralized:

/hint^yes^ymin/ 'wanderer, rover, walker' almost a, but for e

/u/ is high back rounded [u], and, like /i/, is quite high before /y/ and /w/:

/hittapuy/ 'wash yourself!'
better puwî

/mattalpuy/ 'put yourself face down!'

better than puWí

[yu'], [yuw] /yu'/ 'go!'

/u/ is probably high elsewhere as well. Harrington's only other comment is that the phonetically 'half long' vowel in /mu(·)s/ 'breasts' is 'close'.

/o/ is probably a lower-mid back rounded vowel [\mathfrak{I}], or mid [\mathfrak{I}], always transcribed [o] by Harrington. In two entries, Harrington specifically terms long (or half-long) /o·/ 'openish', implying [\mathfrak{I} '] and [\mathfrak{I} '), or [\mathfrak{I} ') and [\mathfrak{I} '):

/mo·nis,Y/ 'white person'
/lo(•)t/ 'mud' (<Spanish lodo)</pre>

If /o/ parallels /e/, it is probably [5] or $[\Lambda]$ in most other environments as well. ³⁸

/a/ is a low, probably central, unrounded vowel [a]. Under certain circumstances, it may be somewhat raised or fronted as is suggested by:

[sike pan] 'farter'

this made pan y sound like pen to me in unaccented position

Harrington's notes also vaguely suggest that short /a/ may vary somewhat in quality from long /a./, though exactly how is not clear:

/rahmak/ '(body) lice'
_not long, tho[ugh] comes out fully

In general, it is likely that vowels are nasalized somewhat in the environment of nasal consonants, though this is indicated only once:

/kaknu/ 'hawk sp.'

Many examples of all vowels with various consonants are given in the section on consonants (sec. 110).

123. Word-final aspiration

When a vowel occurs word-finally, it is often followed by

One case of what appears to be misrecording on Harrington's part suggests that under certain conditions, /o/ may have a somewhat higher quality:

[[]so·montak] ~ [so·muntak] 'in the hollow (of a tree)'
The non-locative form of 'hollow' is recorded only as [so·mon]
/so·mon/ and there is no evidence that the locative suffix
/-tak/ affects preceding vowel quality in any way. Similarly,
Harrington recorded [so·munte] 'having a hollow'. The
recordings with [u] rather than [o] were all made at the same
time and thus may be considered the same error.

a non-phonemic offglide of aspiration, uniformly written by Harrington. Phonetically, this aspiration is apparently weaker than word-final /h/. The non-phonemic aspiration is characterized by such comments as 'faint' or 'this asp[piration] easy to hear on leaving ear close to inf[ormant]'s mouth'. Word-final phonemic /h/, on the other hand, is 'C[learly] h[heard]' or 'quite audible'. The two phenomena are similar, however, in their phonetic behavior. As noted in sec. 113.2, /h/ is optionally dropped word-finally, and since the non-phonemic aspiration also occurs only optionally, it is sometimes difficult to determine whether word-final aspiration is the non-phonemic offglide or phonemic /h/. The difference between the two shows up when a suffix is added to the word. Before a suffix, /h/ remains and the suffix takes its post-consonantal form (if applicable), e.g., /-mak/ 'plural', as in:

[wimmah] ~ [wimma] /wimmah/ 'wing'
[wimmahmak] /wimmahmak/ 'wings'

A word which ends, phonemically, in a vowel shows no trace of non-phonemic aspiration before a suffix, and the suffix takes its post-vocalic form (if applicable), e.g., /-kma/ 'plural', as in:

[tciri'] /čiri/ 'paternal aunt'
[tcirikma] /čirikma/ 'paternal aunts'
[rumme'] ~ [rumme] /rumme/ 'rivulet, arroyo'
[rummekma] /rummekma/ 'rivulets, arroyos'

There are a number of words recorded with word-final aspiration for which there are no suffixed forms attested, and thus no way to determine whether the aspiration is phonemic or

not. In these cases, the aspiration is phonemically transcribed $/^h/$, indicating its presence phonetically as well as its ambiguous nature. Presumably it would be either eliminated or promoted to /h/ if more data were available.

Non-phonemic word-final aspiration is a fairly general phonetic process, as it applies to loan words as well as native vocabulary. For example, Harrington records [pá·t.re'] as well as [pá·t.re] for /pa·tre/ 'Padre'. Interestingly, one word with final /x/ in Spanish loses this sound in Mutsun, and is in fact recorded with a final vowel not accompanied by aspiration:

/relo/ 'clock' <Spanish reloj

no trace of Sp[anish] j

The plural form confirms that the fricative was lost in the borrowing, as it takes the post-vocalic form: /relokma/.

Phonetically, there is certainly a very minor difference (if any difference at all) between a voiced vowel followed by aspiration (which would surely maintain the quality of the preceding vowel) and a vowel which is voiced for part of its duration and voiceless for the rest. In fact, Harrington gives some evidence to support this interpretation, though in only three entries, two involving sonorants rather than vowels:

[syiyar] /syiyar/ 'cigar, cigarette' <Spanish cigarro
The subscript circles in Harrington's transcriptions presumably
indicate voicelessness. (The occurrence of the voiced velar
fricative [y] is unique to this loanword. The voiceless nature
of the /r/ is not indicated when the consonant occurs non-finally

as in the objective case form /s^Yiya re/.) Non-phonemic word-final aspiration, then, might better be considered a case of word-final (partial) devoicing of voiced segments.

The aspiration (or devoicing) rule applies frequently, though optionally. Apparently the phenomenon occurs only when the vowel (or sonorant) is utterance-final. Since so much of the data consists of recitations of single words in isolation, such words would occur utterance-finally, and thus be subject to the aspiration. Harrington noted, however, that when followed by another word, the aspiration does not normally occur:

/kočka['] 'ime'mu kan-koro'se/ 'when I bring my feet together' elided except in auslaut

Note that Harrington assumes that the aspiration is part of the enclitic /-ka/ 'I' which is dropped before the /?/ of the following word; presumably Harrington also heard /kočka/ 'when I' in isolation, or with a definite pause between it and the following word, in order to catch the form 'in auslaut'. Similarly, he recorded /?isyke/ 'go away!' with final aspiration in isolation, but /?isyke niya·tum/ 'go away from here!' with no aspiration and the comment 'c becomes elided'. (The optional dropping of final /h/ may or may not also be related to its position in a sentence; there are not enough data to determine this.)

130. Phonotactics

A phenomenon similar to word- (or phrase-) final aspiration is found in Lake Miwok. According to Callaghan (1963:42), 'final juncture' may be, among other things, 'breath release [h] after vowels and sonorants'.

The syllable 131.

The Mutsun syllable canon is CV(·)(C), where C may be any consonant and V any vowel. As a result of this canon, consonant clusters occur only word-medially, and never consist of more than two members. 40 A consonant may be geminated, in which case the geminate consonant counts as a two-consonant cluster occurring only word-medially.

There are several restrictions on the basic syllable canon.

- If the initial consonant is /2/, the syllable must occur stem-initially, with a few exceptions as noted in sec. 111.2.
- The final consonant of a syllable can never be /?/ (again with the possible exceptions noted in sec. 111.2).
 - (3) Closed syllables with long vowels occur only as monosyllabic stems. 41 Otherwise, if a syllable has a long vowel, it must be an open syllable. This is an important feature of

 $[\]overline{^{40}}$ A few loanwords from Spanish are exceptions to this characterization of consonant clusters:

[/]leksyon/ 'lesson' <lección /kriwi·ri/ ~ /?eskriwi·ri/ 'to write' <escribir

[/]hwan/ ~ /hwa·n/ 'Juan'

[/]vyernes/ 'Friday' <viernes

Since /v/ does not otherwise occur in Mutsun, /vyernes/ might best be considered a Spanish word rather than a loanword.

⁴¹The sole possible exception found in native vocabulary is /ya·kmun/ '(in) the east. This word has an opaque morphology, however, so it may ultimately be based on a monosyllabic stem /ya·-/ or/ya·k-/. Other exceptions are in loanwords from Spanish:

[/]pa·tre/ 'Father, Padre' < Padre /ma·rta/ 'Marta'

^{/?}a·nhel/ 'angel' <angel (cf. /?arkanhel/ 'archangel' <arcángel)

[/]ta·stes/ or /tra·stes/ '(eating) utensils' <trastes (The nasal $/\eta$ and initial cluster /tr/ are not found in native vocabulary.)

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stem morphology (see secs. 135, 220).

Other than /?/, all consonants are exemplified in both syllable-initial and syllable-final position.

132. Consonant clusters

As noted, consonant clusters are restricted to two members and occur only word-medially. Geminates are treated phonemically as consonant clusters, although phonetically they are distinct since the first consonant is not released.

The clusters which actually occur in the data are charted in Table I. One systematic gap in the possible non-geminate clusters is the exclusion of clusters which would be identical to geminates, as noted in sec. 118. Thus, /tč t¢ tt^{y} nn^{y} 11^{y} / do not occur. The only other gap noted which is, perhaps, nonfortuitous is the lack of clusters of two sibilant fricatives (neither $/ss^{y}$ / nor $/s^{y}s$ / occurs). There are also no attestations of affricate plus sibilant (or vice versa), though whether such a constraint on consonant clusters is systematic or not cannot be verified without additional data. An important clue would be, e.g., nouns ending in /č/ (such as /pa·kuč/ 'ball') followed by the object case suffix /-se/, but such forms are simply missing from the data. 42 The genral lack of sibilant clustering may imply some sort of sibilant harmony or fusion which may have been productive at some point in the history of the language, but has left its mark only as these gaps. For example,

 $[\]overline{^{42}}$ There are also no clusters of affricates, but since /c/ is extremely rare, this might be expected. It is also interesting that the affricate-like stop /t/ is not found in clusters with an affricate.

TABLE I - Consonant Clusters

																	_	
8	17	25	36		51		62	74		89		107		118		130	142	
A	10	24	32		50	53	19	73	81	88		46		117			108	149
н	0	23	34		49		09	72	80	87	26					1	141	148
1,7		22												-				
н	∞	21	33	38	48		59	71	79	98	(a)			911			140	147
иX												ſ				·		
ជ		20	32		47			70	78			106					139	58
E		19	31		46		28	69	2	27	96	105		1.15	119	129	138	146
ч	7	18	30					89		99	95	104				128		
Ņ•	9	17			45			ı		8.5	94	103		114		127	137	
w	ī,	16	29		45			29	77		93	102		113		126	136	145
χυ	4	1			44		57			84	92	(c)		:		125	(q)	
B		i												112		124		
소	က	15	28		43	52	56	99	92			101		111		123	135	144
ty		1		37	42			65		83	91	100					134	
•ىد	2	14	27		41					82		66		110		122	133	
பு		13	26		40		55	64	12	6	90	86		109		121	132	143
2nd p	1	12			39		54	63	7.5	113	32	(a)		108		120	131	(e)
2nd 1st	വ	41	٠٠,	ţ,	노	EL	χŲ	ß	ΣŠ	면	E	п	υX	-1	17	ы	M	M

TABLE I, continued

EXAMPLES OF CONSONANT CLUSTERS

1.	čappal	'bone of shoulder blade'
2.	muptuy	'be closed-mouthed!'
3.	čupka	'is white'
	lopčos ^Y min	'big-navelled one'
5.	tapses ^Y min	'(body-) hairy one'
6.	hips ^Y un	'little while'
7.	kaphan	'three'
8.	kapla	'embraces' (verb)
9.	kiprihte	'twisted'
10.	čupyuhte	'puffed up (from wind)'
11.	hapwey	'shoo (them) away!'
12.	hotpeș ^y te	'hollowed (e.g. tree)'
13.	hottohpu	'puts on shoes'
14.	witți	'is hard, solid, firm (e.g. stick)'
15.	hatkinin	'(they) got separated (from each other)'
16.	yatsen	'is hurried (to do something)'
17.	kats ^Y i	'breaks (someone's) head and thereby kills (him)'
18.	pothenin	'(it) rotted'
19.	či•ritmin	'lark'
20.	hutna	'pounds (in a mortar)'
21.	matla	'is face down, on belly'
22.	pitl ^Y an	'gopher dirt, gopher track'
23.	hotro	'sticks finger into vagina'
24.	hotyon	'tied (something) up'
25.	hitwiy	clean (it)!
26.	[?] ekettak	'in badness' (?)
	haţţahne	'was hit'
28.	ţiţkuş ^y te	'torn (cloth)'
29.	hatsa	'goes about stealing'
30.	?ithin	'again'
31.	luţman	'got wet'
32.	retnempiy	'put (him) to bed!'

```
'is stooped over'
33. niţli
                         'pulls (someone's) ears'
34. nitro
35. hitya
                         'sews'
36. hitwe
                         'wind blows'
    tat<sup>y</sup>t<sup>y</sup>i
37.
                         'bone'
    kat<sup>Y</sup>lus<sup>Y</sup>min
                         'thick-legged one'
                         'is sad'
39. čorokpu
40. Pirektak
                         'at the rock'
41. luktis<sup>y</sup>te
                         'pot-bellied'
42. tokt<sup>y</sup>es<sup>y</sup>min
                         'runner, one who runs much'
                         'grease yourself!'
43. lukkapuy
44. nukči
                         'is big-nosed'
    heks<sup>Y</sup>oksi
                         'entertains'
46. onyekma
                         'companions'
47. tuknu
                         'signals with eye(s)'
    tokloş<sup>y</sup>min
                         'one having syphilitic lumps under ear'
48.
49.
                         'cocoon rattle'
    hotokros
                         '"sarnosos", paltry fellows' (?)
50. hokyomak
                         'goes to gather (black) mussels'
51. hakwana
                         'got broken, ripped apart'
52. ra¢kinin
53. mu¢yas<sup>y</sup>te
                         'wrinkled (of rump)'
54. hemečpu
                         'first time, one time'
                         'one who is always talking much'
55. ričtas<sup>Y</sup>min
56. mečke
                          'it's clouding up, getting foggy'
57. haččal
                          'back of an animal'
58. Pawničmine
                          'tortoise (objective case)'
59. wečlohte
                         'big-mouthed'
60. počros<sup>y</sup>te
                         'having sores'
61. ličye
                         'is standing'
62. s<sup>y</sup>ačwen
                          'opened (something)'
                          'is telling lies'
63. halaspu
                          '(they) pinch each other'
64. pistupu
65. rust^{y}es^{y}min
                          'slobbery one'
66. taskuhmin
                          'red one'
                          'scratch yourself!'
67.
     hassapuy
      ?eshen
                          'blanket'
68.
```

```
69.
      hismen
                             'sun'
       Čisnan
                             'elder (tree, flower)'
70-
                             'fear me!'
71.
      haslinit
       čisres<sup>Y</sup>te
72.
                             'in bad humor'
73.
      misya
                             'pretty ones'
                             'got worse (in health)'
74.
      yiswanin
                             'flashes light (at someone), makes a glare
       s<sup>Y</sup>us<sup>Y</sup>pumpi
75.
                               (in someone's eyes)'
      has<sup>y</sup>kay
                             'scratch (him)!'
76.
      mus<sup>y</sup>s<sup>y</sup>i
77.
                             'it's hot (weather)'
      wos<sup>Y</sup>nonin
78.
                             'choked'
      hus<sup>y</sup>lu
79.
                             'sucks'
      tas<sup>y</sup>ri
                             'is firm, stiff (cloth)'
 80.
      mis<sup>y</sup>ya
                             'good ones'
81.
                             'is big-headed' (? - 'is big (of any round
82.
       lahte
                              thing) '?)
       loht<sup>y</sup>ohte
83.
                             'loose'
                              'sky (objective case)'
 84.
      tarahse
                              'headlouse, black louse'
 85.
       kahhay
       kehles<sup>Y</sup>min
                              'hoarse one'
 86.
 87.
       hihronin
                              'slipped'
                              'is getting to be late in the morning'
 88.
       tuhyin
                              'shake (it)!'
 89.
       yihwiy
                             'hears'
 90.
       namti
       ?amt<sup>y</sup>as<sup>y</sup>min
 91.
                              'big eater'
                              'enjoys the taste'
 92.
       tumsan
 93.
       <sup>2</sup>ams<sup>y</sup>i
                              'so that, in order that'
                              'crazy, foolish one'
 94.
       mamhas<sup>y</sup>min
 95.
                              'cheats, lies, misleads'
       yumme
                              'crazy, foolish one'
 96.
       hamnas<sup>y</sup>min
 97.
       homron
                              'big strainer'
                              'does'
 98.
       hinte
       \mathtt{rantas}^{\underline{y}}\mathtt{min}
                              'long-necked one'
 99.
       hint Yeş Ymin
                              'wanderer, rover, walker'
100.
                              'is wiggling nose to send a signal'
101.
       tunku
                              'keeps quiet'
102.
       hinseksi
       me•ns<sup>y</sup>a
                              'you alone'
103.
```

```
104. hinhan
                        'how much? how many?'
105. minmuy
                        'below, under'
106. mennen
                        'grandmother'
107. hinwa
                        'when?'
                        'puts oneself face up'
108. ¢ayyalpu
109. čaltas <sup>Y</sup>min
                        'one who urinates much'
110. yolto
                        'is big-eared'
                        'he became blind'
111. halkaninak
112. peløey
                        'close your eyes!'
113. halsa^{y}min
                        'liar'
114. hels<sup>y</sup>o
                        'is soft'
115. helmo
                        'is soft'
116. tallan
                        'it's hot'
117. kulyan
                        'blackbird'
118. lilwinin
                        'amused (one) self, was entertained'
119. pel<sup>y</sup>mo
                        'is soft'
120. čirpiy
                        'shout!'
121. hu'purte
                        'having boils'
122. murtu
                        'is dark'
123. čorkon
                        'gets dry'
124. muréumak
                        'black ones'
                        'is lacking a piece'
125. harčuhte
126. yerseksi
                        'is torn, full of holes'
127. murş<sup>y</sup>un
                        'has a molar toothache'
128. marhas ymin
                        'leafy one; (body) hairy one'
129. mukurma
                        'woman'
130. parwes
                         'five'
131.
                         'got scared'
      koyponin
132. loytohte
                         'loose'
133. laytas ymin
                         'long, tall one'
134. hayt<sup>y</sup>eş<sup>y</sup>min
                         'big-mouthed one'
135. poykonin
                         'suddenly got scared'
136. haysa
                         'they'
137. Poys<sup>y</sup>o
                         'again'
138.
      huyman
                         'gets weak'
139.
       ?ammayni
                         'comes to eat'
```

140. ¢aylak 'he's (lying) face up'

141. weyrohte 'big-mouthed'

142. taywen 'mush'

143. sottowtak 'at the fire'

144. lawkun 'swallows without chewing'

145. hiwsen 'likes, wants'

146. nossowmak 'spirits, souls'

147. 'awli 'is sour'

148. tawra 'sits, lives'

149. tiwyen 'antelope'

Unsure Recordings:

- (a) 'pumlus' te 'dirty' -- a guess in response to a form from Arroyo
- (b) ?iččonpi 'takes out' -- usually recorded /?iččompi/
- (c) kunči is 'prob[ably]' a word, though its meaning is unknown
- (d) payčuhte 'having much valor' -- the informant only 'half knows' this word
- (e) mučuwpu 'eats breakfast' -- was actually recorded [mutcu·pu]; see sec. 117.

it is possible that original clusters could have harmonized to identities and/or fused into geminates, such as:

$$*/ss^{\underline{y}}/ > /ss/ or /s^{\underline{y}}s^{\underline{y}}/ or /s/ or /s^{\underline{y}}/$$

If this occurred in what was originally a triconsonantal stem, the stem would have been reanalyzed as a biconsonantal stem and treated accordingly morphologically (see sec. 220). Data are too few to make this anything but purely hypothetical.

133. Distribution of consonants

In general, all consonants occur word-initially, finally, and intervocalically. Only /?/ is systematically limited to initial position (with exceptions as noted in sec. 111.2).

Other gaps in consonantal distribution are entirely fortuitous, based on the rarity of the consonants $/\not \in t^Y$ n^Y 1^Y . Thus $/t^Y$ / and $/1^Y$ / do not occur initially, and $/n^Y$ / does so in only one word, $/n^Y$ ot Y t Y o/ 'denies', where the $/n^Y$ / may be influenced by the following palatalized $/t^Y$ t Y /. Only $/\not \in$ / and $/1^Y$ / are lacking from final position. $/n^Y$ / occurs finally only in the agentive suffix $/-pan^Y$ /; final $/t^Y$ / occurs only in the particle $/?at^Y$ /, significance unknown. All consonants, including the four rare ones, but (with the noted exceptions) excluding /²/, occur intervocalically.

There are examples of each consonant occurring either before or after each vowel (ignoring length), 43 with scattered fortuitous

Perhaps significant is the absence of certain sequences involving semivowels and associated long vowels, specifically /yi· wo· wu·/. If loanwords are taken into account, however, even two of these combinations are found:

[/]kayi na/ 'chicken' <Spanish gallina /lawu na/ 'lake' <Spanish laguna

exceptions involving the four rare consonants. Thus, non-occurring sequences include only: /'ei 'eo n^Yu 1^Ye 1^Yi 1^Yo $1^Yu/$, $/\text{et}^Y$ e'e o'e $on^Y/$.

Examples of all consonants in various vocalic environments are given in the discussion on consonants.

When vowel length is considered, several additional gaps occur. These are also non-systematic and can be accounted for simply by the lesser frequency of long vowels and the limited data.

134. Distribution of vowels

Vowels are freely distributed within the confines of the syllable canon (sec. 131).

There is no evidence for productive vowel harmony of any kind, but it is likely that vowel harmony was a process in the language at an earlier stage. Practically all stems are disyllabic, and nearly half of these stems contain identical vowels, far more than would be expected by chance. The most common pattern, ignoring length, is /a-a/, accounting for about 13% of the stems, about three times more than would be expected if distribution were purely random. Furthermore, with extremely few exceptions, if the first vowel of a stem is mid /e o/ (long or short), the second vowel is also mid (and, in over half the cases, identical). 44 Loanwords from Spanish are not subject

⁴⁴ Of the eight exceptions to the mid-vowel pattern, about half cannot be full-fledged counterexamples since they contain peculiarities of their own. For example, some appear to be involved with sound symbolism (or mishearings):

[/]me·čiknis^y/ 'fog, mist' cf. /me·čeknis^y/ 'id.' /wetrasymin/ 'very large one'

to this constraint, however, demonstrating that the harmonic process that must have once existed became fully non-productive. Examples of such loanwords are:

/henti/ 'people' < gente
/he'ru/ 'iron' < hierro
/poyi'tu/ 'chick, baby chicken' < pollito
/we'la/ 'candle' < vela
/ro'pa/ 'clothes' < ropa
/lo'ya/ 'pot' < la olla</pre>

Interestingly, there are no examples of the sequence /a-o/, 45 and only one of /u-o/ (/tuyos/ 'arrow'). In fact, almost three-quarters of the stems with /o/ as a second vowel also have /o/ as a first vowel.

While these distributional features of the vowels are undoubtedly important to a historical study of Costanoan or Penutian, they appear to have no bearing whatsoever on the synchronic grammar of Mutsun.

135. Phonotactic restrictions on long vowels

As noted earlier (secs. 121, 131), long vowels do not

cf. /wetresymin/ 'large one'
/watresyte/ 'large'

Others are not clearly recollected by the informant and may be errors. For instance, /morkinis/ 'cadaver' was given in response to Arroyo's Moroquinis (1862: entry no. 1628) even though Mrs. Cervantes earlier gave /moroknisy/ for the same form.

Morphology may also intervene, as in /poknis/ 'thick mush' related to /po ken/ 'makes thick mush'.

Apparently legitimate counterexamples are:

[/]mo·nisY/ 'white person'
/nomtimi/ 'is understandable to'
/ve·la/ 'wait!'

⁴⁵ Mrs. Cervantes guessed, but did not know for sure, that Arroyo's Rajopa 'ray of sun' (1862: entry no. 2313) was /rahhopa/. The /a-o/ sequence does occur in loans, such as /pano·ča/ 'panocha (candy)'.

occur in closed syllables, other than monosyllabic stems. There is another important feature of long vowel (open) syllables which gets involved with the morphophonemics of Mutsun. In a word of more than two syllables, if the first syllable is open and short (CV) and the second syllable is also open, the second vowel is invariably long. If the first syllable is open and long (CV·) or closed (CVC), or if the second syllable is closed, the second vowel is invariably short. Furthermore, long vowels do not occur as the second vowel of disyllabic words. Since most stems are disyllabic, a stem of the form CVCV(C)- may occur with its second vowel short or long depending on what follows. A stem of the form CVCCV(C)- or CV·CV(C)-, however, does not show variability in vowel length. The various patterns which occur can be seen in the following examples:

```
'gets wet'
     /malan/
                           'wets, causes to get wet'
     /malampi/
     but /mala·nin/
                           'got wet'
                           'foot'
     /koro/
                           'on the foot'
     /korotka/
                           'foot (objective case)'
     but /koro·se/
     /torow/
                           'soap-root'
     but /toro we/
                           'soap-root (objective case)'
Compare:
                           'sinks (in much water)'
     /me·lon/
     /me·lonin/
                           'sank'
                           'ear'
     /?o•čo/
                           'in the ear'
     /?o•čotka/
                           'ear (objective case)'
     /?o•čose/
     /mitten/
                           'grows'
                           'grew'
     /mittenin/
                           'hand'
     /?issu/
```

'on the hand' /?issutka/ 'hand (objective case)' /?issuse/ 'fire' /sottow/ 'fire (objective case)' /sottowe/ 'gets worse (in health)' /yiswan/ 'got worse' /yiswanin/ 'blackbird' /kulyan/ 'blackbird (objective case)' /kulyane/

All stems which occur under the above mentioned conditions with a long vowel are considered to have a long vowel in their underlying form. Thus, /koro/ 'foot' comes from underlying $\|koro\cdot\|$, 46 /malan/ 'gets wet' < $\|mala\cdot-n\|$, etc. These long vowels are then shortened by a general phonotactic rule which applies to all long vowels (even those in the initial syllables of stems):

v· → v / _ {cc c# #}

That is, long vowels do not occur word-finally, before a word-final consonant, or before a consonant cluster. The restrictions against two consecutive long-vowel syllables is handled by the possible underlying forms of the stems: CV·CV·(C)- is prohibited, though CVCV·(C)- and CV·CV(C)- are acceptable.

The relevance of the vowel-shortening rule to stem allomorphy will be discussed in sec. 220. For now, there are two important consequences to consider. First, the rule applies with further restrictions to monosyllabic stems:

$$V^{\bullet} \rightarrow V / \underline{\hspace{0.5cm}} C\# \text{ (optionally)}$$

 $^{^{46}}$ The notation $\parallel \parallel$ will be used to set off an underlying form when necessary.

Thus, $\|\text{hi'n}\|$ 'face, eye' \rightarrow /hi'n/ \sim /hin/ (that is, /hi(')n/ -- see sec. 121). In the other two environments, the rule does not apply: 47

Secondly, stress placement is best accounted for by reference to underlying long vowels (see sec. 142).

In short, in addition to the non-occurrence of *CV°CV°, there is a phonotactic restriction in Mutsun prohibiting each of the following sequences (but see sec. 332.11):

CVCV·# CVCCV· CVCV·CC

It is interesting to note that, in the great majority of cases, words borrowed from Spanish follow this restriction.

Spanish stressed vowels are borrowed into Mutsun as long vowels, but not when such a situation would violate the phonotactic restriction. Thus:

/ya·we/ 'key < <u>lláve</u> 48

/kami·sa/ 'shirt' < <u>camísa</u>

but

/henti/ 'person(s)' < <u>génte</u> (not */he·nti/)

/pappel/ 'paper' < papél (not */pappe·l/ or */pape·l/)

/wistitu/ 'suit, dress' < vestido (not */wisti·tu/)

This rule is the basis for setting up underlying short-voweled monosyllabic stems, such as ||rah|| 'bodylouse' which occurs with a short vowel in /rahmak/ (plural). If the underlying stem were ||ra·h||, */ra·hmak/ would be expected. In non-suffixed forms, due to the optional applicability of the rule, it is not possible to determine the underlying length.

⁴⁸Stress is indicated on these Spanish words, in violation of normal Spanish orthographic practices, to emphasize the stressed syllable.

/halesna/ 'awl' < alésna (not */hale·sna/)
/pastel/ 'pie' < pastél (not */paste·l/)

The notion of 'underlying long vowel' appears to be borrowed even though the actual length is restricted. Harrington gives a form /s^yiyar/'cigar, cigarette' < Spanish cigarro. Even though this form contains the voiced velar fricative /y/ found nowhere else in Mutsun, the object case behaves as a native Mutsun word, /s^yiya·re/, implying underlying ||s^yiya·r||.

On the other hand, this last example might imply that the underlying forms of these words have short vowels, and the vowel is lengthened by a morphophonemic or phonotactic rule. This is a possible alternative solution but it was rejected primarily because the proposed analysis makes use of a more general restriction on long vowels. As a byproduct, it accounts for the varying lengths of monosyllables and sees a shift in stress as compensation for shortening of a vowel.

/tura· tarahtak/ 'it's thundering in the sky'
/tura·/ has a long final vowel rather than the expected /tura/.
Harrington remarks that the vowel is indeed long, but the form

of course, there are a few exceptions to the foregoing discussion. In native vocabulary, the exceptions are so few as to be probably errors on the part of Harrington or his informant. Harrington records /hanni·tum/ 'from where?' rather than expected /hannitum/. /-tum/ is the ablative suffix; the unsuffixed form 'where?' is recorded variously as /hanni/, /ha·ne/, /ha·ni/. With this kind of variation in recording, this is not a serious counterexample to the phonotactic restriction on long vowels. Harrington also records several forms derived from /čulu-/ 'to jump' with short second vowels, rather than the long vowels expected from a supposed underlying ||čulu·||:

As in Southern Sierra Miwok (Broadbent 1964:11-32) it might be possible to analyze vowel length as a consonant. If this were done, the syllabic canon (excluding monosyllabic stems) would be CV(C), where the second consonant could be either a true consonant or /'/. Thus, the canon itself would preclude closed long vowel syllables or, alternatively, would treat both long vowel and closed syllables as structurally equivalent. The 'vowel-shortening' rule would then be a rule to reduce consonant clusters to no more than two members word-medially, and to a single consonant word-finally. Monosyllabic stems would continue to be exceptional by allowing syllable-final clusters (/'C/). Despite the simplification this analysis seems to bring, it poses certain problems. First of all, /'/ would have to be singled out as a consonant subject to special phonotactic constraints. It could not occur as both C2 and C4 in the sequence

has no parallel and is not elsewhere attested other than in isolation (/tura/ 'thunder'). Its status must remain a puzzle.

In loanwords from Spanish, as noted, most of the time the long-vowel restriction is followed. Sometimes, however, it is

not:

/?espe hu/ 'mirror' < espejo
/hulya na/ 'Juliana'
/wante hase/ 'tray (objective case)' < bandeja(s)
/santakru se/ 'Holy Cross (objective case)' < Santa Cruz
but cf. /santakrus/ (subjective case) with a short vowel
 as expected
/kampana ryo/ 'bellfry' < campanario</pre>

but cf. /karmele nyo/ 'person from Carmel' < Carmeleño where the long vowel precedes a single consonant Finally, non-initial /?/ deserves special mention. There are two forms with short vowels before /-?a/ where, according to the phonotactic pattern, a long vowel might be expected: /hinya?a/ 'soon, a little later', /?asa?a/ 'indeed, truly'. Three possibilities exist here (in addition to misrecording): (1) the vowel before /?/ is short in underlying form; (2) the vowel is long but vowels are shortened before /?/; (3) /?a/ is a separate word and the preceding vowel is word-final, hence short. In the absence of further data, no definitive solution can be proposed.

 $\mathbf{C_1V_1C_2C_3V_2C_4} \text{ or as } \mathbf{C_3} \text{ in the sequence } \mathbf{C_1V_1C_2V_2C_3} ^{\sharp} \text{ (except in }$ vocatives -- sec. 332.11). Moreover, monsyllabic stems would not only be exceptional in allowing syllable-final consonant clusters, they would allow clusters of only one type, namely when the first member was / · /. Secondly, considering length to be a consonant creates a conflict. Some noun suffixes occur in distinct post-vocalic and post-consonantal forms, e.g., /-tka/ (post-vocalic), /-tak/ (post-consonantal) 'locative' (see sec. 160). Following an underlying long vowel, shortened by the vowel-shortening rule, the post-vocalic form is found, e.g. /korotka/ 'at the foot' < | koro. | . If vowel length were indeed a consonant, one might expect the post-consonantal variant of the suffix to be used. The resulting form, */koro·tak/ is perfectly acceptable phonologically. The only explanation for the use of the post-vocalic form after an underlying long vowel is that the long vowel is indeed a vowel and not a VC sequence. On the other hand, if the long vowel of stems were analyzed as || CVCV (C) || is not long in underlying form, / / would be, under certain conditions, a phonologically predictable epenthetic consonant. A morphophonemic rule would thus have to be added, and the advantages of considering the vowel to be long in underlying form, enumerated above, would be lost.

In short, the simplification gained in the statement of some aspects of phonotactics would be offset by the addition of various other phonotactic and morphophonemic rules and restrictions. Accordingly, in the absence of strong reasons to the contrary, it seems best not to treat vowel length as a consonant.

140. Stress and Intonation

Although Harrington frequently transcribes accent marks over vowels, his recording of suprasegmental phenomena is extremely difficult to interpret. First, he provides almost no explanation for his various accentual symbols, which include the following (where V is any vowel, long or short):

By far the most common is the acute accent (\mathring{V}) , and this may probably be interpreted as 'primary stress' or at any rate some kind of syllabic prominence; the grave accent (\mathring{V}) almost never occurs alone, so is most likely a 'secondary stress' or a syllable of lesser prominence. The circled acute accent (\mathring{V}) is also secondary in nature, never occurring alone. The meaning of the combined grave-acute accent (\mathring{V}) is obscure, though it too seems at best 'secondary'. The tilde accent (\mathring{V}) is also a minor mystery.

In addition to not providing explanation for his symbols, Harrington records stress most erratically. In some entries each syllable is marked with an accent (sometimes all 'primary'), in some only one syllable is marked, while in many there is no suprasegmental information at all. Furthermore, different entries containing the same word sometimes show discrepancies. For example, compare: 50

/minmuy/ 'down, below'

/yu wak mo hel minmuy piretka/ 'and his head down on the ground'

Although, as will be seen, stress is apparently non-phonemic, and therefore need not be transcribed in phonemic notation, accent marks will be written for the purposes of this discussion.

```
/mehéy mínmúy/ 'look down!'
/húmmit sukúm/ 'give me a cigarette!'
/hummít mattér/ 'give me tobacco!'
/húttey/, /huttéy/, /húttéy/ 'make a fire!'
```

Given this state of affairs, the following description of Mutsun stress is conjectural at best.

141. Intonation vs. Stress

Part of the problem seems to be Harrington's indication of phrasal or sentential intonation and word stress by the same transcriptional apparatus, mainly the acute accent. The difficulty is somewhat compounded since many of the entries are single words uttered in isolation, and such words would be subject to the influences of sentence intonation patterns. In general, the last word in a sentence, including words in isolation, are marked with stress on their final syllable. Indeed, it is frequently the case that the only word marked for stress in an entire entry will be the last word, and this word will have its final syllable accented. It is thus probable that, as a feature of sentence intonation, sentence-final syllables are somehow accented. The phonetic exponents of this sentence-final intonation are not clear. The only indication is given in one comment by Harrington:

/'amma makke ní'/ 'We are eating here'

The word for 'here' is actually transcribed [nī'] accompanied by the comment 'long falling with distinct h after it'. The 'long' probably refers to the vowel length (see sec. 121);

'falling', then, might describe sentence-final intonation. 51

Whether 'falling' refers specifically to the 'tilde' accent is not clear.

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The 'distinct h' is an example of the utterance-final devoicing (or aspiration) described in sec. 123. It is likely that this devoicing is another component of setnence-final intonation.

142. Stress Assignment

If most occurrences of word-final accent are attributed to sentence intonation, what remains should be mostly word stress. 52 The pattern that emerges seems to be the following: in words of the form /CVCV(C)/, stress falls on the second syllable; in all other words, it falls on the first syllable. Excluding these words with non-initial stress for the moment, this characterization seems to explain some of the variation in Harrington's recordings exemplified above. For example, in /huttuy/ 'make a fire!', uttered as a one-word sentence, word stress would be expected on the first syllable (cf. Harrington's /húttuy/), but sentence intonation would accent the final syllable (/huttúy/), meaning that both syllables were stressed (/húttúy/). 53

There are numerous exceptions to the assumption of wordinitial stress. Some of these have explanations. For example, Harrington seems to have confused length with stress, or else marked stress on long vowels as a matter of transcriptional

 $[\]overline{52}$ It is of course likely that various sorts of phrasal intonation phenomena are still obscuring the picture, but it is nonetheless possible to make a reasonable guess about what is going on.

⁵³ Similarly, the negative particle /7ekwe/ is almost invariably recorded with initial stress, but, phrase finally, with final stress:

^{/&#}x27;ekwé, kasa'rika yeté/ 'No, I will marry (later on)'
This is a possible indication that phrasal boundaries may have
had some intonational effect, or else that /'ekwé/ is a sentence
unto itself.

convention. If a long vowel occurred in the initial syllable, this would be expected (e.g., /mu·hinká ~ mú·hinka/ 'I'm (getting) hot', where the pronominal enclitic /-ka/ is indicated once with and once without sentence intonation). When the long vowel occurred elsewhere, however, this analysis would predict that it should not be stressed. Nevertheless, stressed long vowels in non-initial syllables are occasionally found, as in /hewé·pas/ 'shadow (of a person)'. This form, however, is also recorded /héwé·pas/, so it is reasonable to assume that the initial stress is legitimate, while the stress on the second syllable is somehow influenced by the long vowel and is not legitimate (or at least is not primary). Similarly, compare the following two sentences, given in Harrington's transcription:

[motr me warerin pirese] 'Did you sweep the ground?'
['ekwe ka warerin] 'I did not sweep (it)'

The verb here is /wareri-/ 'to sweep', a loan from Spanish

barrer, followed by /-n/ 'past tense'. The stress on the long

vowel in the second sentence is probably an error, and certainly

not as prominent as the initial-syllable stress, since it is

lacking in the first sentence. Also, the object case form of

'ground' should be /pire se/. The accent on the final vowel is

probably due to sentence intonation; the accent on the second

vowel is probably a mishearing of stress for vowel length since,

as noted, Harrington often associated long vowels with stress.

Perhaps the best evidence for word-initial stress comes from non-native vocabulary. If a loanword from Spanish has stress on a syllable other than that which is stressed in Spanish, the shift must be due to Mutsun stress patterns. With a few exceptions,

what is found is that loanwords from Spanish are stressed on the first syllable, regardless of where stress falls in the Spanish pronunciation. (Spanish stressed vowels are reflected in Mutsun as long vowels, if there is no conflict with Mutsun phonotactics—see sec. 135.) Thus: ⁵⁴

```
/yúna'ri/ 'to fast' < ayunár

/kámi'sa/ 'shirt' < camísa

/kámpana/ 'bell' < campána

/mánteka/ 'fat, lard' < mantéca

/póyi'tu/ 'chick, baby chicken' < pollíto
```

Where Spanish has word-initial stress, Mutsun does also:

```
/ká·lis/ 'chalice' < <u>cáliz</u>
/lá·pis/ 'pencil' < <u>lápiz</u>
/sá·watu/ 'Saturday' < sábado
```

The effects of word-initial stress in Mutsun are dramatically seen in the word taken from Spanish soldado 'soldier' (/soldádo/). The singular form shows the expected word-initial stress: /súltatu/. In an irregular formation, however, the plural form loses the middle syllable: /súltukma/. What is striking is that the deleted syllable is the Spanish stressed syllable.

As was noted above, words of the form /CVCV(C)/ are stressed on the second syllable, and this is true regardless of the effects of sentence intonation. For instance, in sentence-final position, /hara/ 'gives' is always recorded /hará/. That the second-syllable stress is a feature of the word, and not (exclusively) sentence intonation, is shown by occurrences of /hara/ in other parts of the sentence (/-n/ is a past tense marker):

Again, stress is indicated in the Spanish words even where this violates normal Spanish orthographic conventions.

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/?ekwemes hará hine ruse néy?à/55 'Don't give him the money right now!'

/pi naway wakwas harán tó tese/ 'Then he gave him meat'.
Similarly, non-sentence-final occurrences of /koro/ 'foot' show
second-syllable stress:

/yu· wak koró tapréy/ 'and his foot up'

As was noted in sec. 135, words of the form /CVCV(C)/ come from underlying ||CVCV (C)||, with automatic vowel-shortening.

When these words occur with suffixes, the second vowel remains long, unless it precedes a consonant cluster. What is noteworthy in the present context is that the stress is on the second syllable only when the word does not contain a suffix with a vowel (that is, only when it is a disyllabic word):

/koró/ 'foot' /kórotka/ (recorded [kóròtká]) 'at the foot'

/tawah/ 'work' (noun, < Spanish trabajo)/tawahtek/
 'it is hard (to do)'</pre>

/niyá/ 'here' /níya·tum/ (recorded [níyà·tùm]) 'from here'

Compare also:

/ká·n yeté pat^yt^yá/ 'I will win (the game)'

/yéte·ka merkén/ 'I will move (change residences) '

/puhi wak-sitnum/ 'His children gather up (food off
the ground)'

/púhi·ka sá·pahse/ 'I gather up pil (type of seed)'

Thus, second-syllable stress seems to be a compensation

The occurrence of the grave accent in /néy?à/ 'right now' is unexplained. It is perhaps associated with the element /-?a/, itself of obscure significance and morphological standing. The word is also recorded with no stress indicated and, sentence finally, as [ney?á] (/ney?á/).

for loss of (underlying) length which occurs only in disyllabic forms. If all words are assumed to be unstressed in their underlying form, then the words with second-syllable stress arise by a stress assignment rule which may be schematized:

$$cv_1cv_2(c) \rightarrow cv_1cv_2(c) / _ #$$

That is, in disyllabic words with open initial syllables and long vowels in their second syllables, the long vowel is shortened and stress occurs on the second syllable. When the words are longer than two syllables, they follow the normal stress assignment rule which places stress on the first syllable (as the above examples show). 56

It is not possible to describe the phonetic realization of stress with any accuracy since Harrington provides little commentary. He does note that the second vowel of /waray/ 'cut (it)!' is 'loud' in the entry:

(That is, words with underlying $\|CVCV \cdot (C)\|$ receive stress on the second [long] vowel; all other words receive stress on the first vowel [long or short].)

On the other hand, since stress is non-phonemic, it can be assigned without reference to underlying forms, though in so doing the connection between non-initial stress and underlying long vowels is lost:

(That is, in words of the shape /CVCV(C)/ stress is on the second syllable; in all other words, it is on the initial syllable.)

Properly speaking, the stress assignment rules should not involve vowel shortening, since this process belongs to the previously discussed vowel-shortening rule. A more precise formulation would be that there are two sets of rules, their ordering with respect to one another depending upon one's theoretical point of view. In order to show the connection between underlying vowel length and stress, the stress assignment rules should precede the vowel-shortening rule:

⁽¹⁾ $CV_1CV_2(C) \rightarrow CV_1C\mathring{V}_2(\mathring{C}) / \#$ # CV... $\rightarrow C\mathring{V}_{...} / \#$ _ #

⁽²⁾ the vowel-shortening rule (sec. 135)

⁽¹⁾ vowel-shortening rule

⁽²⁾ CVCV(C) → CVCV(C) / # __ # CV... → CV... / # __ #

/waray tippesum/ 'Cut it with a knife!'

/waray/ would be assumed, by the stress assignment rule, to have stress on its second syllable, so why the first syllable is also marked is unclear. It is significant that Harrington singles out the second syllable as 'loud'. (The final stress in /tippesum/ 'with the knife' is due to sentence intonation.) The only other clue to the phonetics of stress Harrington gives is in commenting on a non-Mutsun word transcribed [ruwa] 'house'. (The Mutsun form is /rukka/, [ruwa] representing a northern dialect.) Harrington says that the [w] is 'short or 1-1/4 length. The w makes it hard to tell if long or short, but as in all words the ult[imate syllable] is prominent as the 1st syl[lable].' If taken at face value, Harrington's remark means that in all Mutsun words, the first and last syllables are equally stressed. This would be true, presumably, only of initially-stressed words occurring in sentence final position. Since this includes words in isolation, Harrington may well be referring to such a situation. Otherwise, Harrington's comment seems out of place, since if first and last syllables were always equally stressed, presumably he would mark this more consistently.

As for the phonetics of stress, it can be said only that it involves some kind of 'loudness' or 'prominence'; there is no indication of any kind of pitch accent or tonal system.

In short, stress seems to be a non-phonemic feature of Mutsun. In words of the form /CVCV(C)/ it occurs on the second syllable, otherwise it occurs on the first. Since it is predictable (non-phonemic), stress need not be written in citing

forms.⁵⁷

150. Minor Phonological Processes

In his grammar, Arroyo devotes a section to 'Forms of Metaplasm' ('Figuras del Metaplasmo') (1861:40) in which he describes several processes mostly involving vowel loss. He says that the processes take place in speaking the language with fluency, 58 which implies that they might be involved with allegro speech. The processes are found in Harrington's data as well, though with severe limitations, being almost exclusively limited to pronominal elements. (See sec. 353 for a discussion on how the pronominal variants are used.)

1. Apocope -- When combined with a following noun, pronominal elements may lose a final consonant, or even a full syllable:

```
/men-~ me-/ 'your'

/men-hisysyen/ 'your work' ('what you've done')

/me-hisysyen/ 'id.'

/makke ~ mak-/ 'our'

/mot semmon makke nossow mot semmon mak-?ama/

'Do our souls die or do our bodies die?'
```

There remain many problems with stress, including counterexamples to the above analysis. It is likely that many of the inconsistencies are due to phrasal intonation, or special intonation patterns for, e.g., imperatives (where stress is sometimes recorded on a final syllable rather than, or in addition to, the expected initial syllable). Also, since stress is indicated somewhat haphazardly, it is certain that there are numerous recording errors. The bulk of the data falls into the described pattern, however, and it seems reasonable to suppose that with more data the hypothesis set forth will be borne out.

Thus, he says of the process of antithesis: 'Es muy corriente esta figura como tambien las demas' (roughly, 'This process is very fluent, as are the others').

(Cf. also /kan- ~ ka-/ 'my'; no examples were found of /wa-/ for /wak-/ 'his, her, their'.) In the data examined, /men-/ and /kan-/ are more frequent than /me-/ or /ka-/; /mak-/ is more frequent than /makke/, though in this case there are few examples of either.

The same process is noted in the enclitic form of the subject pronouns: they differ from the independent forms, in part, by lacking final consonants:

There are even a couple of instances of /-me/ 'you' being shortened to simply /-m/, e.g., /yummehnem/ 'you are being deceived', though such cases are rare.

The objective case suffix /-se/ is sometimes reduced to simply /-s/ as in /neppese ~ neppes/ 'this (objective)', /pire'se ~ pires/⁵⁹ 'earth, ground, world (objective)'. Similarly, in objective pronouns the final vowel is often missing, as in /kannise ~ kannis/ 'me', /makkese ~ makkes/ 'us (inclusive)', /maksene ~ maksen/ 'us (exclusive)'. In the case of 'me', /kannis/ is by far the more frequently occurring form. (Examples of 'us' are extremely few.)

Arroyo lists a process of synalepha (<u>sinalefa</u>) in which he suggests that word-final vowels are sometimes lost before words beginning with a vowel (Arroyo did not recognize /?/). If such

Note the alternation in vowel length in accordance with the vowel shortening rule (sec. 135).

 $^{^{60}}$ /-ne/ rather than /-se/ is also found in /haysane/ 'them'.

an effect were found in the Harrington material, this might be good evidence that glottal stop is not phonemic; however, no such instances are attested, and Arroyo's synalepha may simply be another form of apocope.

2. Syncope -- Again, in pronominal elements, there are instances of variants formed by loss of medial segments. This is most common in object pronouns:

There are also a few occurrences of /-kas/ 'me' (cf. /kannis(e)/).

In the case of the second and third person forms, the shorter variants are by far the most common.

There is one case of syncope (or contraction) in a verb.

Harrington gives both /kuwa-/ (implying underlying ||kuwa*||) and
/ko(*)-/ as alternate forms of 'to tell':

When suffixed, the /ko(')-/ form is more common, e.g.:

/ko'n/ 'told' /ko'hne/ 'is said'

This verb is the only example of contraction of this type, and the generality of the process is unknown. There are no other words of the form /Cuwa(·)/ in the data examined, though there is an apparent monosyllabic (hence exceptional or irregular -- see secs. 221, 410) verb stem /ho·-/ 'to carry' attested only in the phrase /ka·n ho·yni/ 'I come to carry (it)'. Whether

this /ho(')-/ is related, synchronically or historically, to a stem /huwa(')-/ or the like is not known.

3. Apheresis -- Loss of part of the beginning of a form is found in the third person subject enclitics /-ak/, after a consonant, and /-k/, after a vowel (cf. /wa·k/ 'he, she'). 61

Similarly, /-te/ (or /-ete/) is derived from /yete/ 'later' in /yu'mete/ 'and you will...' < /yu'/ 'and', /-me/ 'you', /-te/ 'later' (or < /yu'/ 'and, /-m/ 'you', /-ete/ 'later'). This is the only example of shortening of /yete/, though Arroyo implies that it is frequently shortened, both to /yet/ and /et/.

Syncope and apheresis work together in deriving forms made up of two pronominal elements, e.g.:

/-kas/ 'I-him' also /-kawas/ < /-ka/ 'I', /-was/ 'him'
/-mes/ 'you-him' also /-mewas/ < /-me/ 'you', /-was/ 'him'
The fusion does not occur when the subject pronoun is a free form;
cf. /ka'nwas/, /me'nwas/.</pre>

Finally, Arroyo notes a process of metathesis (in fact, 'Metastesis' heads his list of 'Figuras'). As will be seen in the discussion of morphology, metathesis is an important process in Mutsun, though it is morphologically, not phonologically, based. Arroyo states that metathesis

...esta propia de los niños; que aun casi no pueden pronunciar; y las Madres ô Padres les hablan con las letras que tiene la voz trastornadas, y fuera del modo con que deben estar....

(...is peculiar to children; who just cannot yet pronounce [words properly]; and their mothers or fathers speak to them with the word's letters reversed and out of the manner in which they should be....)

That is, Arroyo considers metathesized forms an artifact of the speech of children, or the speech of parents to their children, and not 'proper' Mutsun. If Arroyo is not referring to a special subset of words which really are part of children's language, his remarks certainly do not apply to the Mutsun revealed by Harrington's data. On the other hand, it might be well to bear Arroyo's comments in mind when doing a historical study on the origins of metathesis as a grammatical process in Costanoan, and even Miwok.

160. Morphophonemics

The only phonologically conditioned morphophonemic process of any importance in Mutsun is the vowel shortening rule already discussed as an aspect of phonotactics (sec. 135). Other morphophonemic alternations are morphologically conditioned.

As will be seen, there is a morphological process of metathesis in the formation of stems (sec. 221). Since metathesis assures that there will be no consonantal clusters of more than two consonants, and that there will be no

word-final clusters, it is possible to consider the process phonologically motivated. Since there are morphological aspects to the process (i.e., it is triggered only by certain suffixes), it seems best to consider it morphologically based.

There are also several suffixes which occur in different shapes depending on the phonological form of the stem (or suffix) to which they are attached. This variation might also be accounted for by phonologically conditioned morphophonemic rules, but the rules would be all but morpheme-specific and thus would not really capture any generalization about the language. For example, both the noun plural and locative case suffixes occur in post-vocalic and post-consonantal forms, and the difference between the two, in each case, involves metathesis:

	post-vocalic	post-consonantal	
plural	/-kma/	/-mak/	
locative	/-tka/	/-tak/	

Note, however, that the basis of the metathesis is different. In the plural suffix, the alternation is ${}^{\prime}C_{1}^{}VC_{2} \sim {}^{\prime}C_{2}^{}C_{1}^{}V/$ while in the locative it is ${}^{\prime}C_{1}^{}VC_{2} \sim {}^{\prime}C_{1}^{}C_{2}^{}V/$. These facts seem best summarized by just listing the alternate forms rather than positing two different 'suffix metathesis' rules.

Similarly, the object and instrumental case suffixes have two forms: /-e/, /-um/, respectively, after sibilants and sonorants, /-se/, /-sum/ otherwise. There does seem to be a restriction on non-geminate sibilant clusters (see sec. 132), and thus the lack of /s/ in these suffixes after /s. might be due to this phonotactic constraint. There is no

restriction, however, on /ss/ geminates or sonorant + sibilant clusters, so the lack of /s/ after /s/ and sonorants must be considered morphologically conditioned, and each suffix must be listed with a special 'post-sonorant' and 'post-/s/' form. Since this form is identical to the 'post-/s^y/' form, there seems no reason to consider /-e/ or /-um/ after /s^y/ different from /-e/ or /-um/ after sonorants or /s/.

Finally, the 'mediopassive' suffix /-n/ is followed by /i/ when there is another (consonant-initial) suffix following it, e.g.,:

This /i/ could come from two possible sources: (1) be part of the 'mediopassive' suffix (/-ni ~ -n/); (2) be epenthetic, and added to break up a final consonant cluster. The second alternative seems unlikely since no cluster could result anyway from the addition of /-ti/ 'continuative'. The remaining possibility, that the suffix is /-ni/ before another suffix (all verbal suffixes are consonant-initial) and /-n/ word-finally brings up the possibility of a morphophonemic rule of apocope (cf. sec. 150). /-ni/ would be the only vowel-final suffix to undergo the process consistently, however, so the rule, once again, would be morpheme-specific and therefore not really worth establishing. 62

⁶² A third source for the /i/, of course, is that it is part of the following suffix (e.g., /-in, -iy, -iti/). The /i/ would then be deleted following any suffix other than /-n/ or any stem. All other verbal thematic suffixes (other than the

nominalizing suffixes which cannot be followed by verb suffixes anyway) are vowel-final, leaving /-n/ the only such suffix not ending in a vowel. The 'general' rule dropping /i/ after a vowel (suffix or stem-final), therefore, would really be a rule designed to 'preserve' the vowel after a single morpheme. Since /-n/ receives special treatment anyway, it seems best to make this special treatment a property of /-n/ itself, not of all other suffixes.

In extremely few cases, the suffix seems to appear as /-ni/ even word-finally. For example, Harrington gives /lisysyen-/ 'to work, do work' in the sentence /lisysyenka/ 'I do work', but also records /lisysyeni/ in the sentence /ka·n lisysyeni/ 'I intend to do work' (Harrington's gloss: 'yo lo voy hacer, estoy pensando para hacerlo'). This is the only example of a notion of 'intent' entering into a translation, so the status of /-ni/ is uncertain.

CHAPTER 2 - INTRODUCTION TO MORPHOLOGY 200. Morphological classes

Morphemes in Mutsun are of two types, roots and suffixes. Every word begins with a root and may be followed by zero, one or several suffixes. Only particles can occur with no suffix, while nouns and verbs must contain at least one suffix following the root. On phonological grounds, possessive pronominal elements preceding nouns are considered proclitics (roots) rather than prefixes: they do not count as the first syllable of a word in determining placement of stress (see sec. 140). Similarly, some pronominal elements, and a few adverbial elements, which come at the ends of words are considered enclitics rather than suffixes since they are not a required part of a properly formed word (see sec. 230).

There are several types of suffixes, and the structure of words can be best described in terms of stems and themes formed by roots plus successive layers of suffixaiton.

210. Roots

Roots are monomorphemic. Most roots are disyllabic, though some, notably roots of pronouns, particles, and a few nouns, are monosyllabic. Monosyllabic roots may have long or short vowels, and be open or closed syllables: 63

CV	ya	ya 'also' (particle)
cv.	si•	si· 'water'
CVC	ll mot ll	mot 'interrogative particle'

 $^{^{63}\}mathrm{From}$ now on, slashes will be omitted in giving forms in phonemic notation.

CV·C ||ka·n| ka·n 'I'

Disyllabic roots may be in any of the following forms:

'foot (objective case)' ||koro | koro se CVCV. 'soap-root (objective CVCV'C |toro w toro we case)' CV·CV | to·te 'deer, meat' to•te 'fishing net' CV·CVC ||pi·roy| pi roy ||?issu|| 'hand' ?issu CVCCV 'daughter' ||tawre|| tawre 'fire' sottow CVCCVC ||sottow| 'tree trunk' mostor mostor

In addition, a very few words seem to be based on trisyllabic roots, although it is possible that these words are really mono- or disyllabic roots followed by unidentified suffixes.

All such words are nouns, e.g.:

tore pa 'pipe'
sipruna 'tule root'
hotokros 'cocoon rattle'

220. Stems

stems are mono- or bimorphemic. A monomorphemic stem may be identical to a root, or else derived from it by means of changes in vowel or consonant length and/or metathesis. Thus, a root may be associated with one, two, or occasionally several stems, the choice of which stem to use in a given situation normally being determined by the following suffix or morphological status of the stem (noun vs. verb). Consideration of bimorphemic stems will be postponed until after the formation of monomorphemic stems is described.

221. Stem types

Each particle has one stem only, and this stem form is

identical to the root. Each noun also has only one stem form and, for the most part, it too is identical to the root. In anticipation of later discussion, it will be convenient to term this single noun stem its <u>primary stem</u>. Primary stems which are not identical to their roots are discussed in sec. 222. Noun stems which are not primary are based on <u>reduplicated</u> stems (sec. 223).

Verb stems, on the other hand, often come in sets of two, and occasionally more, forms. The two main stems of a verb may be called the <u>primary stem</u> and the <u>derived stem</u>. The form of the derived stem can be predicted from that of the primary stem, but not always vice versa. The primary stem can take any one of seven possible forms, the derived stem only four (each of which is identical to one of the primary stem forms). 64 The main characteristic distinguishing primary and derived stems is that all derived stems end in a vowel, while primary stems may end in a vowel or consonant. The various primary and derived stems are shown in table 2. (The fourth primary stem form is very rare, and there is no example of its derived stem. If it follows the pattern, however, it would be $\mathrm{C_1V_1C_2C_3V_2.}$)

When the primary stem ends in a vowel, it is identical to its derived stem. When the primary stem ends in a

There are a couple examples of monosyllabic verb stems. It is not clear exactly how they fit into the primary/derived scheme, however, and they are treated as 'irregular' (sec. 413). Primary noun stems, on the other hand, may be in any of the seven forms taken by primary verb stems, but may also be monosyllabic, contain four consonants ($\|C_1V_1C_2C_3V_2C_4\|$), or even be trisyllabic. For examples, see sec. 210.

Table 2

	primary stem	<u>derived stem</u>	example
1.	$c_1 v_1 c_2 v_2 \cdot$	c ₁ v ₁ c ₂ v ₂ .	male - 'to rub with saliva'
2.	$c_1v_1c_2v_2 \cdot c_3$	$c_1 v_1 c_2 c_3 v_2$	pasik-65 ~ paski- 'to greet, visit'
3.	$c_1^{}v_1^{}\cdot c_2^{}v_2^{}$	$c_1^{v_1 \cdot c_2^{v_2}}$	hi wo- 'to scold'
4.	$c_1^{}v_1^{}\cdot c_2^{}v_2^{}c_3^{}$	$(c_1^{} c_1^{} c_2^{} c_3^{} c_2^{})$	<pre>li wak - 'to hide (nearby)'</pre>
5.	$^{\mathrm{c}}_{1}\mathrm{v}_{1}\mathrm{c}_{2}\mathrm{c}_{2}\mathrm{v}_{2}$	$\mathtt{c_1v_1c_2c_2v_2}$	pitte- 'to tie'
6.	$c_1^{v_1^{c_2}}c_2^{c_2^{c_2^{c_2}c_2^{c_2^{c_2^{c_2}c_2^{c_2^{c_2^{c_2^{c_2}c_2^{c_2^{c_2}c_2^{c_2}c_2^{c_2}c_2^{c_2}c_2}c_2}}}}}}}}}}$	$\mathtt{c_1v_1c_2c_3v_2}$	liččey- ~ ličye- 'to stand'
7.	$c_1^{}c_1^{}c_2^{}c_3^{}c_2^{}$	$\mathbf{c_1} \mathbf{v_1} \mathbf{c_2} \mathbf{c_3} \mathbf{v_2}$	<pre>?irko- 'to defecate'</pre>

consonant, the derived stem is formed by metathesis of the final V(·)C of the primary stem. If this metathesis creates a sequence of consonant cluster plus long vowel (as it would in the case of derived stems of type 2), a phonotactic constraint is violated and the vowel is shortened (sec. 135). 66

If it creates a triconsonantal cluster (as it would for derived stem type 6), the first two consonants, always a geminate cluster, are reduced to a single consonant. 67

$$c_1 \rightarrow c_1 c_1$$
 / $cv - v(c)$

Actually, the primary stem form $\|C_1V_1C_2V_2\cdot C_3\|$ never occurs in this shape since it is always followed by a consonant-initial suffix resulting in a short second vowel due to the vowel-shortening rule. It is considered to have a long vowel in underlying form in order to be parallel to the $\|C_1V_1C_2V_2\cdot\|$ form.

 $^{^{66}\}text{Similarly, a derived stem of the rare fourth type would presumably become } \text{C}_{1}\text{V}_{1}\cdot\text{C}_{2}\text{C}_{3}\text{V}_{2} \text{ by simple metathesis, then shorten its first vowel by the vowel-shortening rule.}$

⁶⁷It is possible to posit that stem types 5 and 6 have a single, non-geminate, consonant in their underlying form and that there is a 'gemination rule' of the form:

As noted earlier, the different stem forms are used before different suffixes; that is, primary verb stems are found only before certain suffixes, while derived verb stems

Such a rule would apply to stems only, but it would not be limited to verb stems since it could account for nouns such as 'issu 'hand' and sottow 'fire' from underlying stem (and, in the case of these nouns, root) forms $\|\cdot\|$ and $\|\cdot\|$ sotow $\|\cdot\|$. From a synchronic point of view, there is no compelling reason to accept one solution over the other; the analysis making the underlying forms most like their surface forms was chosen. It should be noted, however, that if the length of V_2 in stem types 1 and 2 were analyzed as predictable rather than underlying (see sec. 135), stem types 5 and 6 would unquestionably contain geminate consonants. That is, from underlying $\|\cdot\|_{C_1V_1C_2V_2(C_3)}\|$, either $/(C_1V_1C_2C_2V_2(C_3))/$ or $/(C_1V_1C_2V_2\cdot(C_3))/$ might be predictable, but not both.

Another possible analysis involves considering length to be a consonant (as proposed, though rejected, in secs. 118, 135). It would then be possible to reduce the number of primary stem types to four. The four types, with their counterparts in the scheme adopted above, would be:

length as a consonant	length not as a consonant		
a. $c_1 v_1 c_2 v_2 c_3$	1. $c_1 v_1 c_2 v_2$.		
b. $c_1 v_1 c_2 v_2 c_3 c_4$	$2 \cdot c_1 v_1 c_2 v_2 \cdot c_3$		
	$3 \cdot c_1 v_1 \cdot c_2 v_2$		
c. $c_1 v_1 c_2 c_3 v_2$	5. $c_1 v_1 c_2 c_2 v_2$ (or $c_1 v_1 c_2 \cdot v_2$)		
	7. $c_1 v_1 c_2 c_3 v_2$		
	$4 \cdot C_1 V_1 \cdot C_2 V_2 C_3$		
$\mathbf{d.} \ \mathbf{c_1} \mathbf{v_1} \mathbf{c_2} \mathbf{c_3} \mathbf{v_2} \mathbf{c_4}$	6. $c_1 v_1 c_2 c_2 v_2 c_3$ (or $c_1 v_1 c_2 \cdot v_2 c_3$)		

Furthermore, if subscripts are ignored, treating length as a consonant would show all derived stems, except type (a) to be of a single shape, CVCCV. The simplification achieved by this analysis, however, does not seem to be of great utility.

In the first place, special restrictions would have to be imposed to prevent / from occurring as C4 in stem types (b) and (d). Secondly, stem type (a) becomes anomalous. Its exemption from the normal CVCCV pattern of derived stems, noted above, implies that a special rule would have to be posited to prevent primary stem type (a) from undergoing metathesis. Thus, the generalization that all derived stems end in a vowel must be abandoned, or else specific reference must be made to the fact that the final consonant in stem

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are found only before others. Verb stems other than primary and derived play a very small role in Mutsun grammar; they are discussed in secs. 223 and 410.

222. Stem formation

Most of the time, primary noun stems and primary verb stems are identical to their roots. Under certain conditions, however, the root is somehow modified in becoming a primary stem. Modification may be of two types: (1) internal (involving changes, e.g., in vowel or consonant length), (2) suffixal (adding a suffix to a root to form a bimorphemic stem).

type (a) is not a 'normal' consonant after all, but a special 'non-consonantal' consonant, / · /. Indeed, the possibility of characterizing all derived stems as ending in a vowel, and viewing metathesis as a process whose function is to assure this, detracts from the appeal of analyzing / / as a consonant. Thirdly, the proposed reanalysis hides certain relationships between primary and derived stems. Derived stem types 1, 3 and 5 are associated only with primary stem types 1, 3 and 5, respectively. All other derived stems are formally identical (C₁V₁C₂C₃V₂) and hence cannot predict a particular primary stem type. If length is treated as a consonant, these relationships between primary and derived stems are rearranged. Derived stem type (c), C₁V₁C₂C₃V₂, is associated only with primary stem type (c), but the special relationship between primary and derived stems of types 3 and 5 is lost. Derived stem type (b) would be $C_1V_1C_2C_4V_2$, no longer schematically identical to type 7, which is included in type (c). Primary stem type (d) has two derived stem types (both based on very regular rules of cluster reduction): $C_1V_1C_3C_4V_2$ if C_2 is /·/ (corresponding to type 4), and $C_1V_1C_2C_4V_2$ if C_3 is /·/ (type 6). The second derived stem of type (d) is the same as that of type (b), but the first is not. Neither is formally identical to type (c), although derived stems of types 4 and 6 (d) are identical to that of type 7 (c).

Of course, all of the relationships between the various stem types can be recaptured by explicitly noting which consonant (C₂, C₃ or neither) is /·/. So doing, however, would render the analysis of length as a consonant useless: there would be the originally proposed seven primary stem types. For these reasons, along with those noted in sections 118 and 135, length is not here treated as a consonant.

Frequently the two processes cooccur.

222.1. Internal modification

Differences between primary stems and roots show up most strikingly when comparing the primary stems of related nouns and verbs. There are numerous such pairs which are obviously based on the same root, but there is no way to predict the exact shape of the noun from the verb or vice versa. The primary noun stem may be identical to that of the verb, as in:

||čala|| 'urine' ||čala|| 'to urinate'||?issu|| 'hand' ||?issu|| 'to play the hand game'||?ittak|| 'payment' ||?ittak|| 'to pay'

On the other hand, there may be a difference between the noun and the verb stems, as in:

| ta·la| 'heat'| talla| 'to be very hot'||či·ri| 'horn'| čiri | 'to hook with horns'||he·yes| 'beard'| heyes| 'to shave'||muččuw| 'breakfast' ||mučuw| 'to eat breakfast'

In such cases, it is not clear whether the primary noun stem or the primary verb stem (or some third form) is identical to the root. Moreover, there are a number of cases of noun-verb pairs where the primary stem of the verb is not attested, e.g.:

||pa·kuč|| 'ball' ||pakču|| 'to play ball' (derived stem)

In a case such as this, the primary verb stem could be <code>||pa·kuč||</code> (identical to the noun), <code>||pakkuč||</code> or <code>||paku·č||</code>. ⁶⁸

Note, however, that the derived verb stem can be predicted from the noun stem if the noun stem has three consonants (as in $\|pa \cdot ku\check{c}\|$ 'ball'). This is because all derived stems with three consonants have the same shape, $\|C_1V_1C_2C_3V_2\|$. Whether all triconsonantal nouns have related verb forms, on the other hand, is unknown.

(There are no clear examples of a primary verb stem of the form $\|c_1v_1c_2c_3v_2\|$ being related to a noun of the form $\|c_1v_1c_2v_2c_3\|$.)

The distinction between roots and stems is even more striking in the case of monosyllabic nouns and related verbs. Since all regular verbs must have disyllabic stems, a second vowel, usually e, is added to the monosyllabic root, e.g.:

In short, primary stems of both nouns and verbs may be formed from the same roots, but not necessarily in the same manner. When the primary stems of root-sharing nouns and verbs are not identical, no way has been found to determine which, if either, is identical to the root. All that can be said at this point is that one way of forming stems is by internal modification of roots, but the details of exactly what kinds of modifications are carried out under what circumstances remain to be worked out, perhaps with historical and comparative evidence being necessary.

222.2. Bimorphemic stems

Frequently, in noun-verb pairs, only the derived stem of the verb is attested. Often, in such cases, the verb has a third consonant even if the noun does not. This is true for disyllabic as well as monosyllabic nouns, e.g.:

tap body hair tapse in tapses min hairy one 69

| ha·y| 'mouth' | hayt^ye| hayt^yes^ymin 'big-mouthed one' | 'uri'| 'head | | 'ursi| 'ursis^ymin 'one with much hair' | head hair' | head hair' | pa·ya| 'speed' | paysa| paysas^ymin 'fast one, fast runner'

Furthermore, these added third consonants are sometimes found in derived stems where the attested primary verb stem lacks them:

Finally, it is possible to have two derived stems, one with and one without the third consonant, as in:

||čala•|| in čala 'urinates' 70
||čalta|| in čaltas ymin 'one who urinates much'

It appears, then, that a stem may differ from a root by consisting of the root plus some sort of 'stem-deriving' suffix. Such a suffix may be a second vowel (in the case of monosyllabic roots being related to verb stems) and/or a third consonant.

There is only one example of such a 'stem-deriving' suffix with clear semantic import: -wi 'undo'. Compare:

patti- 'to grasp, take in hand, seize'
patwi- 'to let go'

The nominalizing suffix -symin occurs only after derived verb stems (sec. 424.6).

⁷⁰The lack of any overt suffix after čala shows that it is based on a derived stem. See sec. 410.

ma·hi- 'to close (a container)'
mahwi- 'to open (a container)'
pitte- 'to tie, fasten'
pitwi- 'to untie'

In the absence of the suffixed form, the first member of each pair above would be assumed to represent the form of the verb root. The suffix seems to be added to the root, causing loss of the second vowel and shortening of long vowel or geminate consonant if necessary. The resulting stem is a primary verb stem (though, being of the form ${}^{\rm C}_1{}^{\rm V}_1{}^{\rm C}_2{}^{\rm C}_3{}^{\rm V}_2$, is identical to the derived stem). It is clear that it is primary since it appears in contexts requiring the primary stem, e.g., before the reflexive suffix -pu: pitwipu 'unties oneself' (e.g., untie hair).

The exact morphophonemic processes involved in forming stems from roots plus stem-deriving suffixes are not at all understood. For example, the 'undo' suffix appears as -wa, rather than -wi, in kičwa- 'to unlock, open with a key' (cf. kičča- 'to lock, close with a key'). Similarly, the suffix is -we in maswe- 'to uncover' (cf. massa- 'to cover'). This suggests that there must have been some kind of vowel harmony involving suffixes which was lost as a productive process. It might be best to consider the suffix to be (or have been)

⁷¹ The meaning of kičča- clearly implies European influence, but the word appears to be native. Remotely possible Spanish sources are quicial (/kisiál/) 'door or window jamb' or quicio (/kisio/) 'door hinge', though these should be borrowed as kisyal and kisyu respectively. It is of course possible that Mutsun borrowed the word from another Indian language which may have, in turn, borrowed it from Spanish.

-wV, where the exact quality of V was determined by factors which cannot be presently worked out.

The possibility of stem-deriving suffixes producing primary stems, regardless of exactly how the process works, means that any stem having a third consonant might really be based on a root plus a stem-deriving suffix. In addition to -wi (or -wV), four such suffixes have been found to have possible interpretations:

||sv|| (where V is the second vowel of the root) 'iterative' or 'distributive' -- see sec. 412.

| tv | is found in many stems involving body parts, e.g.: 72

||rintal in rintan 'gets skinny'

| lahte | lahte 'is big-headed' (perhaps, 'is big' of any round object)

||lukti|| luktis | 'pot-bellied'

||yolto|| yolto 'is big-eared'

||pultu|| pultu 'is bulging out (of eyes) '

Note also:

| ropto | in ropto 'is dirty', applied specifically to the face

muptu | muptu 'is closed-mouthed'
cf. mu·pi- 'to close (someone's) mouth'

||satla|| in satlahmin 'flat-nosed one'

pohlo 'is bulging out (of eyes)'

||sotlo|| sotlos | sotlos | min 'thick-lipped one'

| wečlo | wečlohte 'large-mouthed' (person or sack)

puslumin 'pot-bellied one'

⁷²Mason (1916:413) also identified this suffix, terming it 'corporeal'.

 $\|kV\|$ seems to mean something similar to $\|wV\|$ 'undo' in a few stems:

Whether the third consonant of other stems is a stemderiving suffix, or simply the third consonant of a root,
cannot be unambiguously determined. Even in cases where it
is clear that the third consonant, or third consonant plus
second vowel, must have been a suffix at some time in the past
(since there is a similar root lacking the third consonant),
there is no reason to assume that such is the case synchronically. That is, there are numerous pairs of stems which appear
to have a common root, though whether this connection is
synchronic or historic residue cannot be determined. Some
examples of such sets follow (suffixes are separated by
hyphens, if known).

nosso-pu- 'to breathe, take a deep breath'
nossow 'spirit'
noswe- 'to rest' ("take a breather")
hassa- }
haska- }'to scratch (an itch)'
latwe-pu- 'to give signs with the tongue'
latse- 'to be long-tongued'
hinwi- 'to remember'
hinsu- 'to know (information), know how'
ha·si-n- 'to be afraid' (general term)
hasli-n- 'to be afraid' (as a person alone at night)

```
\left.\begin{array}{l} \text{helmo-} \\ \text{hels}^{y} \text{o-} \end{array}\right\} 'to be soft'
'esse- 'to cover with a blanket'
?eshen 'blanket'
?i.na 'disease, sick one'
'inha-n- 'to get sick'
?innu 'road'
'inyu- 'to walk, travel, walk along the road'
?inwi-n- 'to tire of the road, tire of travel'
rocyo-n- 'to get snarled, tangled' (string)
ročko-n- 'to get unruly' (hair)
ruyma- } 'to shake (somebody) with hand to arouse
ruywa- } (him) '
ruys Yu-ksi 'shakes with palsy'
mure-syte 'it has become very late in the afternoon, it is getting dark'
murut 'darkness, night'
mukyu-knis<sup>Y</sup> 'old woman'
mukurma 'woman'
mukkeh 'son, 15 years and older' (woman speaking)
su'ne 'hunger'
sunyi-pu- 'to be full from eating'
taprey 'above, on top'
tappis 'top of head'
lawu- }'to gulp down, swallow without chewing'
tippi-hte 'curled up, coiled up' (snake)
tips Yin 'basket'
tiplile 'spinning' (e.g., a top)
tippe- 'to wander about groping' (e.g., at night)
yu'ti- }'to throw out, toss out of a container'
```

In addition, there are sets of stems differing in their second vowel, implying a shared monosyllabic root:

mala-n- 'to get wet'
male- (||male ||) 'to rub, moisten with saliva'

?ukke- 'to bring water'
?ukki-si- 'to drink'
cf. ?ukni-n- 'to drown (in a small amount of water)'
rummes 'backbone'
rummis 'stalk'
tappa-n- } 'to be suitable for, to fit'
ta pi-n- 'to go'
watti-n- 'to come'

222.3. Other types of stem relationships

(1) w ~ k -- There are several pairs of stems differing in that the primary noun or verb stem is of the form CVkkVC-and the associated derived stem is CVwCV-. Such stems are historically related. Proto-Costanoan had a consonant *kw which became w in Northern Costanoan and k in Southern Costanoan. Mutsun, however, has both k and w from *kw according to the following rule:

*kwkw > kk *kwC > wC

(The reflexes of *kw in other environments are irrelevant in the present context.) Thus, putting *kw into Proto-Costanoan stems:

*CVkwkwVC- > CVkkVC- (primary stem)
*CVkwCV- > CVwCV- (derived stem)

Examples of such stems, which can be treated as 'semi-

suppletive' synchronically, 73 are:

sakker 'fat, grease, lard' (noun)
sawre- 'to be fat'

takkar-pu- 'to seat oneself'
tawra- 'to sit, to live'

?akkes 'salt' (noun)
?awse- 'to salt'

A related phenomenon, also involving the addition of a third consonant, is:

?akke-n- 'to dawn; to wake up'
?awye-n- 'to wake up'

(2) Sound symbolism -- There are also some stems which seem to be related via sound symbolism, involving consonants, vowels or both. Examples involving consonants are:

The would have been possible to posit an underlying segment (morphophoneme) $\|kw\|$, realized phonemically as /k/ or /w/ under different conditions, to account for these stems. Though such a segment would reflect the historical facts, it would serve no other function in Mutsun than to register the relationship between a handful of stems. It was thought best to treat the stem alternations as historic residue and not incorporate unnecessary morphophonemic apparatus.

```
y \sim 1^{74} keye'-mu- 'to elbow each other, jostle with
                             the elbow'
                   kele -- mu- 'to push each other, jostle with
                             each other'
           t ~ ¢
                   murtumak 'blackish ones'
                   mur¢umak 'black ones'
           t~č
                   pakkut 'shinney ball'
                   pa·kuč 'ball' (e.g., baseball)
           h \sim s^{y} mu'hi- 'to be hot' (weather)
                   mus<sup>y</sup>s<sup>y</sup>i- 'to be warm' (weather)
    Vowels are involved in: 75
           ma·hul 'phleqm'
           me hel 'gum, secretion on edge of eyelids'
           tiyo- (||tiyo||) 'to shoot (something) with an arrow'
           tuyos 'arrow'
           watre-syte 'large, great' (speed)
           wetra-symin 'large one' (buttocks)
           wetre-symin 'large one' (rock, ear)
           matla- 'to be face down, prone'
           motlo- 'to put one's head down'
     Several sets show both consonantal and vocalic symbolism:
           rippu-n- 'to get jabbed, pricked'
           ruppu-n- 'id.'
           tuppu-n- 'id.' (in the eye)
           čappu-n- 'id.'
74 Compare the y-1 alternation found in Bodega Miwok: kuyéyyih
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^{&#}x27;old woman', kul(1)éyyih 'woman' (Callaghan 1970:41).

⁷⁵ One pair shows that vowel symbolism may be reconstructible: sitytyimpi- 'to make (something) very small', ku·tyihmin 'small one'. Costanoan s derives, in part, from Miwok-Costanoan *k before *i. If the s in sitytyimpi is such an s, the reconstructed stems would be something like *kitytyi-, * $ku \cdot t^{y}i$ -, showing * $i \sim *u(\cdot)$.

Finally, there seems to be a kind of symbolism based on rearranging the consonants of the root:

222.4. Conclusion

Whether a stem is mono- or bimorphemic, whether identical to its root or not, it is treated in the same way. That is, the stem-forming processes producing the primary stem from the root, or from the root plus a suffix, have no bearing on the functioning of the stem in terms of, for example, how its derived stem is formed. Because of this fact, and because it is normally not possible to tell whether a stem is mono- or bimorphemic or whether it is identical to its root or not, the primary stem, rather than the root, is considered the basic unit of morphological description.

223. Reduplication

Reduplication is a minor feature of Mutsun morphology, though it does occur in two distinct patterns.

223.1. CVC reduplication

In a very few words, the stem is formed by reduplicating the first CVC of the root, followed by the rest of the root (if there is more). Usually there is no non-reduplicated counterpart for such words. For example: ⁷⁶

root stem

| tule | | tultule | in tultule 'palpitating, jumping' (e.g., heart)

cf. | tule | tule 'knocks (on door)'
| pol | | polpol | 77 polpolsi 'is spotted'
| por | | porpor 'cottonwood' or 'poplar'
| som | | somsom 'armpit'

In the verbs, the semantic import of this type of reduplication seems to be a repetitive notion (individual but repeating hearbeats, individual but numerous spots). The nouns, most likely, were originally descriptive terms, though their meanings are not known.

223.2. Reduplicated stems

The second form of reduplication depends on the shape of the primary stem. In the case of verbs, it is probably reasonable to say that there is a reduplicated stem in

⁷⁶There is one unsure form honhon e.- 'lifting feet' ('taking high steps' [?]) attested in:

honhon Ye·ka wa·te 'I come lifting my feet' Presumably, this form is based on a root $\| hon^Ye \cdot \|$. If the word is legitimate, this shows a morphophonemic alternation between n and nY such as $n^Y \rightarrow n$ / __ h, or perhaps / __ C, there being no attested n^YC clusters.

⁷⁷ Arroyo (1862: entry no. 2201) gives a form <u>polloi</u> glossed '<u>pintalo</u>' ('paint it!'). Harrington's informant did not know the word, but it would probably be pollo-y or polloy (-y 'imperative').

addition to the primary and derived stems. It is also possible to speak of the reduplicated stem of a noun since it is formed from its primary stem by exactly the same rules forming the reduplicated stem of a verb from a primary verb stem.

The formation of the reduplicated stem is complex when given in symbolic notation; a chart (table 3) will serve better: 78

Table 3

	<pre>primary stem</pre>	derived stem	reduplicated stem	attested as
1.	$c_1 v_1 c_2 v_2$.	c ₁ v ₁ c ₂ v ₂ .	$c_1 v_1 c_2 v_1 \boldsymbol{\cdot} c_2 v_2$	noun, verb
2.	$c_1 v_1 c_2 v_2 \cdot c_3$	$^{\mathrm{C_{1}V_{1}C_{2}C_{3}V_{2}}}$	$\mathtt{c_1v_1c_2v_1 \cdot c_3v_2}$	noun (verb?)
3.	$c_1 v_1 \cdot c_2 v_2$	$c_1 v_1 \cdot c_2 v_2$	$c_1v_1 \boldsymbol{\cdot} c_2v_1c_2v_2$	noun
4.	$c_1 v_1 \cdot c_2 v_2 c_3$	$(c_1v_1c_2c_3v_2)$	$c_1 v_1 \cdot c_2 v_1 c_3 v_2$	noun, verb
5.	$\mathtt{c_1v_1c_2c_2v_2}$	$^{\mathrm{C_{1}V_{1}C_{2}C_{2}V_{2}}}$	$c_1^{} c_1^{} c_2^{} c_2^{} c_1^{} c_2^{} c_2^{}$	verb
6.	$\mathtt{c_1v_1c_2c_2v_2c_3}$	$^{\mathrm{C_{1}V_{1}C_{2}C_{3}V_{2}}}$	$\mathtt{c_1v_1c_2c_2v_1c_3v_2}$	noun (verb?)
7.	$c_1 v_1 c_2 c_3 v_2$	$c_1^{} v_1^{} c_2^{} c_3^{} v_2^{}$	$c_1^{}v_1^{}c_2^{}c_3^{}v_1^{}c_3^{}v_2^{}$	verb

In general, the reduplicated stem consists of the primary stem up to but not including its second vowel; this is followed by a repetition of the first vowel, but in the length of the primary stem's second vowel; this, in turn, is followed by the primary stem's last consonant (whether it be its second or third) and second vowel, always short.

Examples of reduplicated stems in verbs include:

⁷⁸For convenience, the derived stem form is repeated here to give the full range of stem types of verbs. Derived stem type 4 is unattested. The occurrence of reduplicated stems in nouns or verbs is indicated in the fourth column.

primary stem

- 1. ||kite | kiti te 'creaking' (not attested in other stems)
- 4. ||le·let| le·lete 'rubbernecking' 79

 cf. lelte- 'to rubberneck' (derived stem)
 - ||la·yat| la·yata 'standing'

 cf. layta-syte 'long, tall' (derived stem)
- 5. ||kille| killile 'sparkling'
 - cf. kille- 'to sparkle' (derived stem)
- 7. ||tiple| tiplile 'spinning' (e.g., a top) (not attested in other stems)

The semantic function of reduplicated stems seems to be some sort of continuative, but, unlike CVC reduplication, there is flowing, not broken up, activity. 'Standing' seems to fit in as a continuative form of a root meaning 'long, tall'; thus 'standing' is 'continually being tall' (cf. standing tall in English). 'Rubbernecking' is apparently a continuing procedure.

With few exceptions, the nouns based on reduplicated stems are not obviously related to other nouns or verbs in other stem forms. Where there are related words, the primary stems differ, though they are based on the same roots. For example:

primary stem

- 1. | hama | hama ma 'simple-minded one' | hunu hunu dove'
- 2. ||huma·n^y| humu·n^ya 'hummingbird' ||ama·y| ama·ya 'naked one' (cf. ama· 'body, person')
- 3. || ?e·na|| ?e·nena 'berry sp.'

^{79 &#}x27;Rubbernecking' is Harrington's gloss. It seems to mean wandering about, staring or ogling or gawking at things.

- 4. ||ha·kan| ha·kana 'rattlesnake rattle' ||mu·mič| mu·muči 'wild rose' ||mu·mir| mu·muri 'fly' (cf. mumru-n- 'get full of flies' [derived stem])
- 6. || ammin | ammani 'rain' (cf. amen 'to rain') |
 | tammal | tammala(h) 'mountain lion'

The final h in 'mountain lion' is probably the nominalizing suffix -h (sec. 424.3), suggesting that tammala- might be the reduplicated stem of a verb. The h is of unsure status since it is lost before the instrumental suffix -sum, a unique occurrence. Another possible example of a nominalized reduplicated verb stem is in the placename kulu·listak 'at the elbow' (modern Gilroy). This word consists of the locative suffix -tak attached to a noun kulu·lis which must mean 'elbow', though it is not attested as such. If the final s is the nominalizing suffix -s (sec. 424.2), the verb stem remaining, kulu·li-, fits the pattern of a reduplicated stem of type 2, kuli·l.

Semantically, these nouns are probably all descriptive in origin, though the exact etymologies cannot be recovered. The 'continuative' aspect found in the verbs seems to be involved, however, as in 'rattlesnake rattle', 'hummingbird' and, perhaps, 'fly'.

Considering these nouns to be based on reduplicated stems is not without problems. For example, parani 'hill' may be the reduplicated stem of parin, or it may contain a suffixed -ni found on several nouns (hurani or hurani 'grave hole', laryeni 'pole, mast, staff'). This suffix may, in turn, be related to a suffix -i found on other nouns

(hikkani 'tar'). In fact, this -i may be a suffix on mu·muri 'fly' based on \mu·mur\, which would bring it into line with its verb counterparts (mumru-n- 'to become full of flies').

There remain a few trisyllabic nouns which do not fit the pattern of reduplicated stems (e.g., tore pa 'pipe'), suggesting the possibility that some of the nouns resemble reduplicated stems fortuitously. Furthermore, there are several verbal forms which look as though they should be reduplicated stems, and are semantically suitable, but do not quite fit into the pattern:

pe tole 'sticky' (cf. pette- 'to stick together [e.g. with glue]')

he tole 'hanging, swaying'

lu'tiye 'hanging'

?u·nime 'understand'

These forms are not normal reduplicated stems because of their vowels: in reduplicated stems, the first two vowels are always identical. Notice also the following:

lelwețe 'rubbernecking'

lisniye 'flat'

These forms are not normal reduplicated stems because each contains a fourth consonant (and, in the case of the first, the vowels are wrong).

The above 'irregular' stems might be evidence of another form of reduplication or stem formation, perhaps involving suffixed -Ce. Unfortunately, these constitute the full set of irregular forms, so no definite conclusions can be drawn. It should be reiterated that reduplication, at least in the

data examined, is a rather rare state of affairs, and may be totally unproductive. The 'regular' and 'irregular' forms of reduplication may be the mere residue of a more complex process.

230. Themes, words and suffixes

A theme consists of a stem plus zero, one or two thematic suffixes. The theme as a whole is followed by a final suffix. A theme plus a final suffix is a word.

Most thematic suffixes follow only verb stems. They include suffixes of transitivity (voice, causative, etc.), direction (e.g., ablative), aspect and nominalization. Thematic suffixes following noun stems are mostly plurals, verbalizers and other derivational suffixes. It is theoretically possible to have more than two thematic suffixes per theme, though no clear example of more than two has been found. Thematic suffixes of verbs are discussed in sec. 420; those of nouns in sec. 320.

Words normally contain one and only one final suffix.

In the case of verbs, the final suffix may be one of mode

(imperative), tense, voice or aspect. Note that the distribution

of functions of thematic and final suffixes is not mutually

exclusive. See sec. 430 for a discussion of verbal final

suffixes. For nouns, including nominalized verbs, most

final suffixes involve case (sec. 330).

240. Clitics

As mentioned earlier (sec. 200), possessive pronominal elements preceding nouns are not considered prefixes on

phonological grounds, and also because they are never a required part of the structure of words. They normally receive no word stress, however, so they are not full-fledged independent forms either. Thus, they are classified as 'proclitics', elements preposed to, in this case, nouns, but not structurally part of them.

Similarly, suffix-like pronominal elements which follow verbs (and other words) are considered enclitics. They are not a required part of a morphologically complete word and, in fact, are lacking if their function is fulfilled by independent pronominal forms (nouns).

Clitic and independent pronouns are discussed in sec. 350.

CHAPTER 3 - NOUNS AND PRONOUNS

300. Introductory remarks

As described earlier, a noun is made up of a noun theme followed by a final suffix. A noun theme may be either a nominalized verb (see sec. 424) or else a noun stem followed by zero, one or occasionally two thematic suffixes. Noun stems which are followed by a thematic suffix with verbalizing force become verb themes (see Chapter 4). Pronouns, a subtype of nouns, have special characteristics. They are described in sec. 350. Similarly, demonstratives are treated in sec. 360, and interrogative noun stems in sec. 611.

310. Noun stems

Noun stems are nearly all disyllabic, though some are monosyllabic and a very few are trisyllabic. Trisyllabic stems are either reduplicated stems (see sec. 223.2) or else are unanalyzable. Examples of noun stems are:

po'r- 'flea'

to te- 'deer, meat'

sottow- 'fire'

mostor- 'tree trunk'

ha 'kana 'rattlesnake rattle' (reduplicated)

tore 'pa- 'pipe' (unanalyzable)

320. Thematic suffixes

321. -mak ~ -kma 'plural'

These are by far the most frequently occurring nominal 80 The syllabic structure of noun stems was described in sec. 210. Only monosyllables of the form CV (that is, short open syllables) are not found as noun stems.

thematic suffixes. -mak occurs after noun stems (or themes) ending in a consonant; 81 -kma after those ending in a vowel:

'string' ru·kmak ru(•)k 'wing' wimmahmak wimmah 'head louse! kahhaymak kahhav 'son' ?innismak ?innis rukkakma 'house' rukka 'deer, meat' to tekma to•te sinni 'child' sinnikma 'clock' relokma (< Spanish reloj) relo huttu 'belly' huttukma sipruna 'tule root' siprunakma

-mak is apparently the only nominal thematic suffix which may follow another thematic suffix, be it nominal itself or verbal (a nominalizing thematic suffix). For example:

hučěknis^y 'dog' hučeknis^ymak (-knis^y 'diminutive) hiwasmin 'arriver' hiwasminmak (-s^ymin⁸² 'nominalizer')

Number is not an obligatory category of nouns in Mutsun.

A non-suffixed noun may be interpreted equally well as singular or plural according to context. Thus, for example, the plural form of rukka 'house' is rukkakma; yet rukka alone can be

The is interesting that about half of the attestations of -mak occur after h. Whether this is a significant fact or an accident of the data sample is not known, but it is likely to be accidental since Harrington seems to have elicited plural forms as a means of discovering whether word-final aspiration was phonemic (/h/) or not (see secs. 113.2, 123). There is one instance of -mak following a vowel:

se·mo 'dead one' se·momak 'dead ones'
The singular form is also recorded [se·mo'], but in isolation only, making the status of the ['] uncertain.

⁸²Why -s^ymin occurs here as /-smin/ is not clear, but it is so attested (see sec. 424.6). The (derived) verb stem is hiwa:- 'to arrive'.

plural as well, as in makse rukka 'our houses'. Note also:

tere puyme men-tu ris 'Cut your fingernails!'

Here, tu ris 'fingernail' occurs in a plural sense; tu ris mak
is also attested. Apparently using the plural suffix is a

matter of free choice or style, as Harrington gives both

mak-hu·s
mak-hu·smak
}'our noses'

If plurality is marked, however, it seems that it must also be marked in all coreferential nouns in the same sentence, e.g.:

nepkam mukurmakma missimak 'These women are pretty ones'

Here, nepkam 'these' is the plural form of neppe 'this';
mukurma is the singular (or unmarked) 'woman'; missimak
'pretty ones' (a nominalized verb with verbal thematic suffix
-mak -- see sec. 424.7) is paralleled by mismin 'pretty one'.

On demonstrative and interrogative stems, plurality may be indicated with slightly different suffixes (see secs. 360, 611). In pronouns, plurality is indicated by suppletive forms (see sec. 350). 83

322. -ti 'substantive verbalizer; to be..., to behave as...'

This suffix produces verb themes. For example:

wu tati 'to be a relative, kin'
< wu ta 'relative, kinsman'</pre>

In the data examined, only one regular noun had an irregular plural suffix: -kwa in merekwa 'maternal grand-mothers' (< ||mere·||).

⁸³The first and second person plural pronouns (makke/makse, makam) seem to be built on a root mak-, identical to the post-consonantal form of the noun plural suffix.

po·rti- 'to act like a flea' < po·r 'flea' tokkohti- 'to serve as a bed' < tokkoh 'mat'

This suffix is related to the verbal thematic suffix -ti 'continuative' (see sec. 422.1).

323. -min 'one who has...; one who is characterized by...'

This suffix is similar in semantic scope to the final suffix -te (sec. 331), but it forms noun themes rather than verbs. Examples:

ti raș min 'one with a big rump' < ti raș 'rump' sitnunmin 'one who has children' < sitnun 'child, offspring'

(Arroyo [1862: entry no. 2157] suggests that sitnunmin need not refer to a parent; it could be a wet nurse [chichigua].)

Nouns in -min are occasionally found without attested stems lacking the suffix, e.g.:

či ritmin 'meadowlark' kiritmin 'clover sp.' 'awničmin 'tortoise'

Such forms are undoubtedly descriptive in origin, though their etymologies cannot be determined.

-min is related to the verbal thematic suffixes $-s^Y$ min and -hmin 'nominalizer' (see sec. 424.6).

Occasionally Harrington glosses nouns in -min as if they were verbs; e.g., his gloss for ti rasymin, exemplified above, is 'having a big rump'. Generally, such glosses appear only when the word is given in isolation. It is clear from sentences, as well as parallels with verbs nominalized by -symin or -hmin, that these forms are nouns.

In one case, Harrington glosses he senmin as '(it) is a nest' ('es un nido'). This form is based on the noun he sen 'nest' plus -min, and should mean 'one who has a nest' or the like. Harrington's gloss, again with no context, is likely to be in error.

The remaining thematic suffixes are not well attested; some, if not all, are likely to be unproductive, frozen elements.

324. $-\text{knis}^{Y} \sim -\text{knis} \sim -\text{nis}^{Y} \sim -\text{nis} \sim -\text{is}$ 'diminutive' (?)

-knis^Y is found with several nouns, only one of them ever occurring without it. Perhaps it carries the 'diminutive' sense of 'endearment':

mukyukniş^Y 'old woman' hiwokniş^Y 'old person' (also recorded hiwhokniş^Y) 'atş^Yakniş^Y 'girl' hučekniş^Y 'dog'

The plural form of <code>?atsYaknisY 'girl'</code> is irregular, but it does show that the stem of the word is <code>?atsYa-</code>, legitimizing -knisY as a suffix (at least formally): <code>?atsYayikma 'girls'</code>. -kma is the normal plural suffix (sec. 321); -yi- is unique and unexplained. The other forms in -knisY have plurals in -mak, as would be expected (e.g., hučeknisYmak 'dogs').

-knis is found in Pannaknis 'aunt', attested only once.

(It is also found in earlier recordings of hučeknis, 'dog'.)

The word for 'aunt' is undoubtedly related to Parnan 'mother' and perhaps literally means something like 'little mother'.

Though Harrington does not so indicate, it is likely that Pannaknis is 'maternal aunt' since another word, čiri, is specifically glossed as 'paternal aunt, father's sister'.

Why the suffix ends in s rather than sy is unknown, but Harrington insists that it does (by comparing it to Patsyaknis, 'girl'). s and sy have been observed to have some kind of sound symbolic relationship (see sec. 113.1) and that may

be involved here. Also, effects of some sort of sibilant harmony cannot be ruled out.

There is a shred of evidence that -knis occurs only after vowels, while -nis follows consonants:

me·čiknis^Y 'fog, mist'

Harrington once recorded this form as me·čeknis, which makes it look more like the related verbal form mecke- 'to cloud up, get foggy, misty'. The verb suggests that the k is part of the stem; 85 if this is so, the noun stem may be me·ček- or me·čik- and the suffix -nis Y . The i, rather than e, as the second vowel is unexplained, but is also aberrant, since almost no stems with e as their first vowel have non-mid second vowels (see sec. 134).

If this analysis is on the right track, it opens up the possibility of a suffix -nis. 86 Such a suffix does indeed seem to exist:

misnis '(Catholic) Mass'

cf. mi·sa 'id.'; both words < Spanish misa poknis 'thick mush'

cf. po ke- 'to make thick mush' pussuynis 'whirlwind'

cf. pusyu- 'to make a whirlwind'

The roots of these three forms would be, respectively, | mi(·)s |, ||po(·)k||, ||pussuy||. The relationship between misnis and mi·sa

On the other hand, since the second vowel may also be different, it is possible that the noun stem is me 'či- and the (derived) verb stem is mečke-. Cf. sec. 222.

 $^{^{86}}$ It also implies that two of the forms given to illustrate -knisy might contain only -nisy: hiwo-kniṣY or hiwok-niṣY 'old person' huče-kniṣY or huček-niṣY 'dog'

may be one of distinguishing types of masses. Mrs. Cervantes implies that misnis is any mass, 'any day of week', perhaps, though not explicitly, leaving mi sa for the Sunday Mass. A diminutive sense for -nis would fit in well here ('little Mass'). Unfortunately, misnis is also glossed as 'Sunday'. Furthermore, why misnis, rather than, e.g., *mi saknis, would be formed is not known.

The relation between a noun stem po(·)k- and verb po·keis paralleled by sa(·)w 'song' / sa·we- 'to sing'; thus,
poknis may well be legitimately analyzed. Similarly, the
relation between a noun stem pussuy- and verb pusyu- is
paralleled by lullup 'flute' / lulpu- 'to play the flute',
lending credence to its analysis.

Finally, as if reducing the suffix one step further, a possible diminutive suffix -is is found in:

toro wis 'edible soap-root, the smaller kind' cf. torow (\(\text{toro w} \) 'soap-root'

325. -ič 'augmentative' (?)

A possible augmentative suffix is found in one form:

wara·kič 'one who cries much'

This is clearly based on ||wara·k|| which apparently means 'crier'.

It occurs in:

Puthin haysa warak

This is glossed by Harrington as 'the 2 of them are crying (at the same time)' ('uthin 'two', haysa 'they'), but, since warak must be a noun (its verbal form being warka- 'to cry'), the sentence probably means 'The two of them are criers'. 87

326. -wa 'serpent'

In names of serpent-like creatures, this suffix usually appears, though sometimes it is optional. It seems semantically odd for a thematic suffix, and might better be considered a stem-deriving suffix producing trisyllabic noun stems. No explanation can be offered for its apparent optionality: 88

lissok ~ lissokwa 'water snake' (once recorded: li·sokwa)

lissonwa 'id.'

ko·ţehwa 'big snake sp.' (gopher or bull snake?)
littokwa 'earthworm'

327. -i

A few noun themes end in i, though no significance has been found for this suffix. Except once, the i follows n, making it possible that in some cases the suffix is -ni. For example:

hikkani 'tar'

cf. hiknampi- 'to tar' whose derived stem hikna- also contains n)

la yeni 'pole, mast, staff'

In addition, three forms may be interpreted either as reduplicated stems (sec. 223.2) or as noun themes ending in -(n)i:

mu·muri 'fly' (insect) < mu·mir- or mu·murcf. mumru-n- 'to become full of flies'

⁸⁷ On rehearing the Mutsun material with Isabel Meadows in 1932, Harrington records that warak is 'una lloradera, cuando lloran munchos' ('a crying-by-many [?], when many people cry').

⁸⁸The young of the lissokwa is given as littokma. It is not clear whether this is litto- + -kma 'plural' or littok plus an unidentified suffix -ma.

pa·rani 'hill' < pa·rin- or pa·ra(n)
'ammani 'rain' < 'ammin- or 'amma(n)
cf. 'amne- 'to rain'

330. Final suffixes

331. -te 'verbalizer'

When added to a noun stem, this suffix produces a verb meaning 'having X' or 'characterized by, associated with X', where 'X' is the noun. For example:

Being nominal in origin, verbs in -te may enter into noun compounds (see sec. 710). When this happens, the semantic import is something like 'having X as a Y' or 'having a Y which is X' where X is the first noun and Y the noun in -te. For example:

ri·tay ?eshente '(He) has a rabbitskin-blanket as a blanket'

(ri·ṭay 'rabbitskin-blanket', 'eshen 'blanket')

That is, '(He) has a blanket which is a rabbitskin-blanket'.

Occasionally, a form ending in -te does not have an attested noun; nevertheless, it can be seen to fit into the semantics described. For example:

-te is clearly related, both formally and semantically, to the verbal final suffixes -s^Yte and -hte 'perfective' (sec. 432). It is because of this relationship that -te is considered a final suffix rather than a thematic suffix; neither -te nor -s^Yte/-hte can be followed by any other suffix. (Cf. nominal thematic suffix -ti 'substantive verbalizer', sec. 322.)

322. Case

Noun themes end in at least one final suffix. All final noun suffixes, except -te (above), indicate case. There is good evidence to isolate eight different cases, and some evidence suggesting three more. Two (perhaps three) of the suffixes, under certain circumstances, cooccur with other case suffixes, but otherwise there is only one final suffix per noun.

322.1. -Ø 'subjective case' or 'unmarked case'

In the simplest situations, nouns ending in this suffix serve as subjects of sentences. For example:

po kon kan-?issu 'My hand is (getting) swollen' (po kon 'swells up', kan- 'my', ?issu 'hand', -Ø 'subjective case')

?innanin kan-torow 'My soap-root fell down'
 (?innanin 'fell down', kan- 'my', torow[|| toro·w ||] 'soap-root', -Ø 'subjective case')

yulke sottow 'The fire is burning'
(yulke 'burns', sottow- 'fire', -Ø 'subjective case')

In one entry, -te seems to have a more substantive sense (i.e., 'to be...'): 'anyiste 'is another (one)' < 'anyis' other (one)'. It is given in no clear context, so it cannot be evaluated.

```
hittahne posol homrontak 'The posole (stew) is washed in the big strainer'

(hittahne 'is washed', posol- [||poso·1||] 'posole', -Ø 'subjective case', homrontak 'big strainer [locative case]')

parki lawan 'The bow is heavy'

(parki 'is heavy', lawan- [||lawa·n||] 'bow', -Ø 'subjective case')

?ippiwas ?iččin 'The rattlesnake bit him'
```

?ippiwas ?iččin 'The rattlesnake bit him'
 (?ippi- 'rattlesnake' -Ø 'subjective case',
 -was 'him', ?iččin 'bit')

Nouns ending in -Ø may occur in sentences which also contain pronominal subjects. When the pronoun is a third person (singular) form, usually the enclitic -(a)k, the noun and pronoun are often coreferential, as if a type of apposition. In such cases, the pronoun seems to be an optional component of the sentence. For example:

rukkatek ta·r }
'The moon has a house'
ta·r rukkate 'having a house', -k 'he, it',
 ta·r- 'moon', -Ø 'subjective case')
ru·nuk pen Yek 'The cat is purring'
 (ru·nu 'purrs', -k 'it', pen Yek- 'cat',
 -Ø 'subjective case')

pettempik ma·rta pappele 'Marta is sticking the
 papers together (e.g., with glue)'
 (pettempi 'causes to be stuck together',
 -k 'she', ma·rta- 'Marta', -Ø 'subjective
 case', pappele 'paper [objective case]'
 [< Spanish papel])</pre>

pina wa·te pa·tre 'Here comes the Padre'

pinak wa·te mukurma hisiw 'Here comes the woman

who recently gave birth'

(pina 'there', -k 'she', wa'te 'comes', pa'tre- 'Padre', -Ø 'subjective case'; mukurma- 'woman', -Ø 'subjective case', hisiw- [|hisi'w||] 'one who recently gave birth', -Ø 'subjective case'; mukurma hisiw is a noun compound -- cf. sec. 710)

See also sec. 354 for a discussion of a special construction involving possessed nouns.

A further function of nouns in $-\emptyset$ is that of 'predicate' in equational sentences, the structure of such sentences being simply noun + noun (see sec. 730). For example:

me n po r 'You are a flea'
 (me n 'you [subjective case]', po r 'flea', -Ø 'subjective case')

men-hičahmin heksen 'Your pet is a quail'

(men- 'your', hičahmin- 'pet' -Ø 'subjective case', heksen- 'quail', -Ø 'subjective case')

kiprihmin wak-hi(')n 'His eyes are crossed'
 (kiprihmin- 'twisted one' [nominalized verb],
 -Ø 'subjective case', wak- 'his', hi[']n'eye[s]', -Ø 'subjective case')

Nouns in -Ø also follow the particle kata (||kata.||)
'like, as, seems'. For example:

men-se pek kata hire 'Your whiskers are like a rat's'

(men- 'your', se pek- 'whiskers, beard', -Ø

'subjective case', hire- [||hire ||] 'rat', -Ø

'subjective case')

?ekwe makam rorosypu kata sinnikma 'Don't (youplural) play around like children!'
 ('ekwe 'not', makam 'you [plural, subjective
 case]', rorosypu 'play', sinnikma- 'children',
 -Ø 'subjective case')

In nominal compounds, normally the first noun is in the 'subjective' or 'unmarked' case regardless of the case of the second (head) noun. For example:

takkas min si tka tawrak 'He lives at the hot springs'

(takkas min- 'hot one', -Ø 'subjective case', si tka 'water [locative case]', tawra 'lives', -k 'he')

hit^yt^ye makke haywena takkas^ymin si'se 'Let's go to see the hot springs!'

(hit^yt^ye 'go!', makke 'we [inclusive]' [>'let's go!'], haywena 'go to see', takkas^ymin- 'hot one', -Ø 'subjective case', si'se 'water [objective case]')

takkas min si., literally 'hot one / the water', is the normal term for 'hot springs'.

A final function of nouns marked with 'subjective' $-\emptyset$ is that of objects in imperative sentences involving third person objects (including reflexives); that is, when the verb ends in -y 'imperative' or -yut 'plural imperative'. Having the object of imperatives marked with the 'subject' suffix leads to no confusion since the true subject of an imperative verb is included in the verb suffix itself. Examples of nouns in $-\emptyset$ as objects of imperatives include:

kussapuy men-mo·hel 'Wash your head!'
 (kussapuy 'wash yourself!', men- 'your',
 mo·hel- 'head', -Ø 'subjective case')

pittey wak-ha(')y 'Tie up its (the sack's) mouth!'
 (pittey 'tie up!', wak- 'its', ha[']y- 'mouth',
 -Ø 'subjective case')

hippuy tappur 'Carry the wood on your back!'

(hippuy 'carry on your back!', tappur- 'wood',

-ø 'subjective case')

ruččey wak-?uri 'Braid her hair!'

(ruččey 'braid!', wak- 'her', ?uri- [||?uri'||]

'head hair', -Ø 'subjective case')

rammayut to te 'Eat (you-plural) the meat!'
 (rammayut 'eat [you-plural]!', to te- 'meat',
 -Ø 'subjective case')

haray men-?issu 'Give (him) your hand!'

(haray 'give!', men- 'your', ?issu- 'hand',

-Ø 'subjective case'; note that there is no

overt indirect object)

When the object of an imperative sentence is pronominal, a special demonstrative form, nuk, is used. For example:

piţţey nuk 'Tie it up!'
(piţţey 'tie up!')

?iččompiy nuk 'Take it out!'
 (?iččompiy 'take out!')

To indicate plurality, the <u>object</u> form of the third person plural pronoun, haysan(e), is used in addition to nuk:

Piččompiy nuk haysan 'Take them out!'

When the object of an imperative verb is a first person pronoun, the objective, not subjective, form of the pronoun is used. This is true even though the verb suffix -t 'imperative, first person object' specifically expresses the case relationships. For example:

ričwit kannis 'Untie me!'
(ričwit 'untie me!', kannis 'me')

himmat maksen 'Look for us!'
 (himmat 'look for me/us!', maksen 'us
 [exclusive]')

Even in such constructions, when the first person is the indirect object, a nominal direct object takes the -Ø suffix:

'iččompimit sottow 'Take out the fire for me!'
 ('iččompimit 'take out for me!', sottow- 'fire',
 -Ø 'subjective case')

hummit sukum 'Give me a cigarette!'

(hummit 'give, hand me!', sukum- [||suku·m||]

'cigarette', -Ø 'subjective case')

When expressed, a pronominal indirect object takes the object case form:

There are, of course, some exceptions. Occasionally the nominal object of an imperative verb does occur with the objective case suffix. Such instances are very rare and may be errors.

Since -Ø occurs on objects of imperative verbs, terming it 'subjective' is somewhat of a misnomer; 'unmarked' is probably more realistic. Nevertheless, since in other functions -Ø does mark the subject of a sentence, the normal case term 'subjective' will continue to be used. From this point on, all nouns not specifically tagged with a case designation may be assumed to be in the 'subjective case'.

332.2. -se ~ -e 'objective case'

The 'objective case' suffixes mark both direct and indirect objects. -e occurs after sonorants and sibilants; -se (occasionally shortened to -s -- see sec. 150) occurs elsewhere. For example:

```
suku·me < sukum (||suku·m||) 'cigarette'
eshene < eshen
                   'blanket'
mo·hele  / mo·hel 'head'
?a·sire < ?a·sir
                   'year'
sottowe < sottow
                   'fire'
sa·raye < sa·ray
                   'crow'
ta·rese < ta·res
                   'man'
tu·ris e < tu·ris fingernail(s)'
sikkotse < sikkot 'mole (gopher?)'
tarahse < tarah (||tara·h||) 'sky'
         < ?issu 'hand'</pre>
?issuse
```

As noted in sec. 332.1, the objective suffix is not normally used to mark the nominal object of an imperative verb. Examples of the objective suffix marking direct objects of non-imperative verbs are:

```
sukmuka hemeča suku·me 'I'm smoking a cigarette' (sukmu 'is smoking', -ka 'I', hemeča 'one', suku·me 'cigarette [objective]')
```

ka·n mehe·si kulyane 'I see the blackbird'
 (ka·n 'I', mehe·si 'see', kulyane 'blackbird [objective]')

?oto naka yu kise 'I go to gather up acorns'
 (?oto na 'go to gather up', -ka 'I', yu kise
'acorns [objective]')

As with the subjective suffix, an appositive construction is possible: an objective noun can occur along with a third person objective pronoun with which it is coreferential. For example:

ka nwas lollesi sinnise 'I make the baby babble'
(ka n 'I', -was 'him', lollesi 'make babble',
sinnise 'baby [objective]')

Presumably, the objective case suffix would be used to mark the indirect object also. Only pronouns -- always in the objective case -- are found in this position, however; this is surely just a gap in the data. Examples of pronominal indirect objects are:

The benefactive construction, where the verb contains the benefactive suffix -mi '(to do something) for (somebody)', takes an objective beneficiary. Here, both noun and pronoun are exemplified:

his semik tuti yase wak-makkuhse 'She is making tortillas for her husband'

(his semi 'makes for', -k 'she', tuti yase 'tortillas [objective]', wak- 'her', makkuhse 'husband [objective]')

ka·nmes riri·mi men-pa·n^Yuse 'I baste your shawl for you'

(ka·n 'I' -mes 'you [objective]' riri·mi

(ka·n 'I', -mes 'you [objective]', riri·mi 'baste for', 90 men- 'your', pa·nYuse 'shawl [objective]' [< Spanish paño])

Finally, there is one instance in which the use of the objective case seems somewhat idiomatic:

The verb stem ||riri| is glossed by Harrington as 'hilvanar' meaning 'to baste (in sewing)'. If it has other meanings, especially in California Spanish, they are unknown to me. Mason (1916:450) glosses riri as 'put selvage on cloth' for Arroyo's (1862: entry nos. 2309, 2310) 'poner el orillo (al pañuelo)'.

?i natek pa tare 'He is sick with measles'
 (?i nate 'having a disease', -k 'he',
 pa tare 'smallpox, measles [objective]')

See also sec. 421.1 for a discussion on the use of the objective case with mediopassive verbs.

332.3. -sum ~ -um 'instrumental case'

The 'instrumental' suffix is -um after sonorants and sibilants, -sum elsewhere. For example:

hi num < hi(')n 'eye, face'

tappurum < tappur 'wood, tree'

toro wum < torow (||toro w||) 'soap-root'

pi·royum < pi·roy 'fishing net'</pre>

tu hisum < tu his 'day'

?ireksum < ?irek (||?ire·k||) 'rock'</pre>

kurkahsum < kurkah 'pinole' (mush)</pre>

?issusum < ?issu 'hand'</pre>

For the most part, the meaning of the instrumental case is 'by means of...', 'making use of...'. Thus:

waray tippesum 'Cut (it) with a knife!'
 (waray 'cut!', tippesum 'knife [instrumental]')

hattinin wak su nesum 'He died suddenly of hunger'
(hattinin 'died suddenly', wak 'he', su nesum
'hunger [instrumental]')

ričča haysa ri·časum 'They are speaking their language'

(ričča 'speak', haysa 'they' or 'their',
ri·časum 'speech, language [instrumental]')

motme cappun kan-se peksum 'Do you get scratched

The exact gloss of pa·tar is unclear, but it refers to a disease or diseases involving eruptions on the skin. It may also refer to the sores themselves.

by my beard?'

(mot 'interrogative particle', -me 'you',

čappun 'get pricked, scratched', kan- 'my',

se peksum 'beard [instrumental]')

?enney taskuhminum 'Paint (it) red!'
 (?enney 'paint!', taskuhminum 'red one
 [instrumental]')

It also has some slightly idiomatic usages:

ta kanak neppe tu hisum 'He is coming during
the day'

(ta kan 'come', -ak 'he', neppe 'this',
tu hisum 'day [instrumental]')

Harrington glosses tu hisum as 'por dia' ('by day').

ka nmes monseyni ?i nakmasum 'I come to tell
you about the sick ones'
(ka n 'I', -mes 'you [objective]', monseyni
'come to tell, advise', ?i nakmasum 'sick
ones [instrumental]' 92)

Harrington glosses ?i nakmasum 'de los enfermos' ('of the sick ones'), here perhaps with the sense of 'with news of the sick ones'. The sentence was elicited in response to a phrase from Arroyo (1862: entry no. 1679):

Monseim cames inase. Te vengo á avisar de los enfermos.

This first word is probably a misprint for Monseini corresponding to Harrington's monseyni. The third word is apparently for 'i'nase 'sick one(s) (objective)', but Mrs. Cervantes, according to Harrington, volunteered the instrumental form and 'Did not seem to approve [the] obj[ective] 'i'nakmase

Note that the instrumental suffix, a final suffix, follows the thematic plural suffix -kma.

['sick ones']'. (The gloss given above is actually a translation of Arroyo's.) 93

332.4. -tak ~ -tka 'locative case'

The 'locative' suffix is -tak after consonants, -tka after vowels:

The locative suffix by itself has either a static or an allative sense. In its static sense, it refers to the location of an activity or condition. For example:

?urkantak wak hutahne 'It is ground up in the mortar'

('urkantak 'mortar [locative]', wak 'it', hutahne 'is ground up')

?i natek horkostak 'He is sick in his throat'
 (?i nate 'having a disease', -k 'he',
 horkostak 'throat [locative]')

piretka tawray 'Sit on the ground!'
 (piretka 'world, land, earth [locative]',
 tawray 'sit!')

There is one unusual instrumental form: tammalasum 'mountain lion (instrumental)'. This is based on tammala(h), where the final h occurs before the objective suffix (tammalahse) but not before the instrumental. This fact is unexplained.

 s^{Y} ukrukames men-?issutka 'I tickle you on your hands'

(s^Yukru 'tickle', -ka 'I', -mes 'you [objective]', men- 'your', ?issutka 'hand[s] [locative]') 94

la kintek pappeltak 'It is on top of the paper'
 (la kinte 'located on [top]', -k 'it',
 pappeltak 'paper [locative]' [< Spanish papel])</pre>

The allative sense of the locative suffix, referring to the locational goal of an activity, is exemplified in:

kallehtak ka·n wattin 'I am going to the sea'
 (kallehtak 'sea [locative]', ka·n 'I',
 wattin 'go')

hit^Yt^Ye makke rukkatka 'Let's go (in)to the house' (hit^Yt^Ye 'go!', makke 'we [inclusive]' [> 'let's go!'], rukkatka 'house [locative]')

niș^Yș^Ya lațwen hurčaș^Ymintak 'These descend (in)to Hell'

(niṣ^Yṣ^Ya 'this [one], these', latwen 'descend', hurčaṣ^Ymintak 'Hell [locative]'⁹⁵)

The locative suffix combines with the ablative suffix -tum to indicate where an action came or comes from (see sec. 332.6).

The locative suffix may appear on two nouns in a row, as in:

tammantak pa·ranitka 'on the other side of the hill'

Compare this use of the locative with body part terms with that of the objective suffix (sec. 354).

⁹⁵hurčas min is a nominalized form of the verb hurčan- 'to get drunk' meaning 'drunken one'. Thus hurčas mintak 'to Hell' is literally 'to (the place of) the drunken one(s)'. hurčan is likely to be a loan from Spanish borracho 'drunk'.

(tammantak 'other side [locative]', pa·ranitka 'hill [locative]')

Thus, this phrase is literally 'on the other side, at the hill'.

This is not a normal noun compound; if it were, the first

noun would not be marked for case (or it would be in the

subjective case) (see secs. 332.1, 711).

The locative suffix is a common component of placenames and, as such, seems to be a frozen element. For example:

kulu·listak 'at the elbow' (placename; modern
Gilroy)

karmentakwas ka·n 'I am a Carmel person'
 (karmentak 'Carmel', -was 'attributive',
 ka·n 'I')

The placename for Carmel occurs in this entry only. The first two syllables (/karmen/) are clearly <u>Carmel</u>; the locative -tak appears to be a frozen element not treated on a par with the normal locative suffix. Thus, it is possible for another final suffix -was 'attributive' (sec. 332.5), to be attached to the placename. -was cannot otherwise occur after another final suffix, but following placenames it means 'people/person of...'.

Finally, the locative case marking seems to be used idiomatically in himmentak, glossed as 'juntamente' ('jointly, at the same time'). It is the locative of a noun himmen 'mixture, union, a joining together', itself the nominalization of the verb himme- 'to bring together, unite'. Thus, himmentak is literally 'at (the place of) the union', not too far from the Spanish sense of 'at the same time'. It occurs as the translation of a phrase from the Arroyo manuscript (see

footnote 10):

end:

Mi Señor Jesu Christo Dios, y Hombre juntam^{te}

(My Lord Jesus Christ [is] God and Man jointly)

The Mutsun version of this is mostly Spanish, except for the

...thrareshiha imentac [Arroyo's transcription]
...ta·res ya himmentak 'man also "in the joined together place"'

332.5. -was 'attributive case'

This suffix occurs very infrequently. Except when following a placename, where it means 'person/people of...', it always links two nouns, the first of which is an attribute or characteristic of the second: 96

čisnanwas lullup 'elder tree flute'
 (čisnanwas 'elder tree [attributive],
 lullup 'flute')

huttuwas to 'te 'meat of the belly'
(huttuwas 'belly [attributive]', to 'te 'meat')

karmentakwas ka·n 'I am a Carmel person'
(see sec. 332.4)

332.6. -tum 'ablative case'

The 'ablative' suffix, indicating where the action The attributive suffix also seems to occur in the following sentence:

yete murtey horpeywas ?etse 'They will be sleeping at midnight'

(yete 'later', murtey 'at night', horpeywas 'in the middle [attributive?]', 'etse 'they sleep')

If horpeywas is indeed attributive, it is the only example of the attributive noun following the head noun, and it also implies that adverbial elements (at least those in -y -- see sec. 540) are nominal.

described in a sentence comes from, occurs only after themes which are inherently locative or else after the locative final suffix. Inherently locative themes include the interrogative hanni ~ ha·ni ~ ha·ne 'where?' and locative demonstratives (e.g., nahan 'there', niya 'here'). See secs. 362, 611.

Following the locative suffix, the ablative suffix occurs in:

wattinka neppe rukkatkatum 'I am going (away)
 from this house'
 (wattin 'go [away]', -ka 'I', neppe 'this',
 rukkatkatum 'house [locative-ablative]')
wa teka 'irektaktum 'I come from the rock'

(wa·te 'come', -ka 'I', ?irektaktum 'rock [locative-ablative]')

332.7. -tuk 'comitative case'

The 'comitative' suffix, meaning 'along with', also occurs quite rarely, and its morphological (and phonological) status is uncertain. It seems to follow the objective form of a pronoun, though this is based on a single attestation:

ka·n wattin me·stuk 'I'm going with you'
 (ka·n 'I', wattin 'go', me·stuk 'you
 [(objective?)-comitative]')

It is possible, however, that there is an allomorph -stuk which occurs after a shortened pronominal stem, and also after the interrogative hatte 'who?' in hattestuk 'with whom?'. Since no objective form of hatte is attested, the status of the s is uncertain.

The comitative suffix seems to follow nouns directly:

kan 'e'te tammalahtuk 'I am sleeping with the mountain lion' 97

(kan 'I', ?e 'te 'is sleeping', tammalahtuk
'mountain lion [comitative]')

diyo·stuk makke ri·ča 'We speak with God'

(diyo·stuk 'God [comitative]' [= Spanish <u>Dios</u>,

hence the non-Mutsun /d/ as well as the long

vowel before a consonant cluster], makke 'we

[inclusive]', ri·ča 'speak' 98)

332.8. -me 'personal locative case'

This suffix, attested only three times, refers to the location of a person, apparently in the sense of 'in the vicinity of...' or 'in the presence of...':

haysa tawra diyo sme 'They live with God'
(haysa 'they', tawra 'sit, live', diyo sme
'God [personal locative]')

ha yi makam man-pappame 'Come here (you-plural) to your grandfather!'

(ha·yi 'come here!', makam 'you [plural]', men- 'your', pappame 'grandfather [personal locative]'99)

The personal locative seems to follow objective forms of pronouns, if one attestation can be taken as indicative:

ha yi kannisme 'Come here to me!' 100

⁹⁷ From the context in which this sentence occurs it is clear that it is a mountain lion pelt that is being slept with.

⁹⁸ ri·ča- 'to speak' is either an error for ričča- or ri·či-, both 'id.', or else evidence for a form of 'speak' in a durative aspect -- see sec. 411.

^{99&#}x27;Grandfather' is attested only one other time, there as parpa.

¹⁰⁰ Harrington glosses this sentence as 'ven conmigo' ('Come with me!'), but the verb ha yi clearly means 'come here!',

(ha'yi 'come here!', kannisme 'me [personal locative]')

332.9. -way (?) (rare)

This suffix is found in only two forms:

misnisway 'Sunday' (< misnis 'mass' < Spanish <u>misa</u>)
pi naway 'therefore' (< pi na 'that')

It seems to mean something like 'on account of...' or 'for...'. This is a straightforward interpretation for pi'naway, literally 'on account of that, because of that, for that'. In what seems to be some minor confusion, Harrington glosses misnis as 'Sunday' with Mrs. Cervantes's comment 'M[eanin]g para ir a misa' ('[The] meaning [is] in order to go to mass'); this is followed by the entry misnisway 'Sunday'. Apparently, misnisway means '(the day) for Mass'. Whether misnis alone can really mean 'Sunday' is unclear.

332.10. -ya 'genitive' (?)

A possible genitive suffix is found only once, and following a proper noun, which may or may not be significant:

mariaya sitnune 'to Maria's son' 101 (sitnune 'offspring [objective]')

Elsewhere, including situations involving a proper noun, genitive relations are expressed by noun + noun sequences, or noun + wak-noun, where wak- is the third person possessive proclitic (see secs. 354, 711).

giving an allative, rather than comitative, sense to the personal locative suffix.

¹⁰¹sitnum actually means 'offspring' in general; it is clear
from the context here, however, that 'Maria's offspring' is
'Mary's son', Jesus.

332.11. - 'vocative'

With two kin terms, 'mother' and 'father', a lengthening of the final vowel seems to have vocative force:

?ay ?ana 'Oh, mother! (Come and take me away
from this man...!)'
 (?ay 'oh!', ?ana 'mother [vocative]')

ha·yi ?apa· 'Come father!'

(ha·yi 'come here!', 'apa' father [vocative]')

Elsewhere, 'mother' and 'father' are recorded (again, only once each) as:

Parnan 'mother' Pappa 'father'

The status of final n in 'mother' is unclear, but cf. sec.

340. The lengthening of the final vowel in vocative forms is the only case in which long vowels occur word finally (other than in monosyllables -- see also footnote 49). Other changes in the stems are according to regular phonotactic constraints against (1) two long vowel syllables in the same word (thus, Panar, not Parnar), and (2) long vowel following consonant clusters (thus Papar, not Pappar). In two other vocative expressions recorded, there seems to be no special form:

ha·yi makam, kan-paplay 'Come here, my grandchildren!'

(ha·yi 'come here!', makam 'you [plural]', kan- 'my', paplay 'grandchild[ren]')

s^Ya·naypuy paplaymak 'Come here, grandchildren!'
(s^Ya·naypuy 'come here!', paplaymak
'grandchildren')

340. Possession in kin terms

Mason (1916:410) describes a system of showing possession in kin terms by means of infixes. According to him, -s-infixed before the last vowel of the stem indicates 'my', while 'his' is expressed by infixed -n- and/or suffixed -n. Mason cites, for example:

taka 'elder brother' taksa 'my elder brother' taknan 'his elder brother'

(Mason has one example of -t- for 'thy', but he terms it 'very dubious'.) This construction is only barely suggested in Harrington's data. In response to Arroyo's (1862: entry no. 1622) Merse 'mi Abuela materna' ('my maternal grandmother'), Mrs. Cervantes said she did not know a form merse, nor what the -s- might be; she did give ka·n-mere 'my material grandmother' (with the long form of the possessive proclitic -- see sec. 354).

On the other hand, Harrington records:

?ansa 'my mother'
kan-?ansa 'id.'

These forms match up exactly with Mason's <u>ansa</u> 'my mother'.

Mason suggests that 'his mother' should be <u>anan</u> or <u>annan</u>

(in his transcription), based on <u>ana</u> 'mother' plus infixed and/or suffixed n. Such a form is not exemplified by him, but it does occur in Harrington's data:

wak-?a nan 'his mother'

If the final n is indeed the third person marker, this entry parallels the doubly-marked kan-?ansa 'my mother'.

Harrington does not provide an 'unpossessed' form, nor is a counterpart to Mason's ana 'mother' found. It is likely, nevertheless, that the stem for 'mother' is 'a na- for two reasons: (1) the vocative form is 'ana' (see sec. 332.11); (2) the related form 'annaknis 'aunt' is based on a stem 'anna-, lacking the final n (see sec. 324). It is possible, then, that Harrington's 'a nan is, in fact, the third person possessed form with -n 'his'. Three other forms that Mason suggests contain -n- and/or -n 'his' are attested in Harrington's data. Interestingly enough, two of them occur only with third person possessors:

hulya na mennen } Juliana's grandmother 102

wak-sitnun 'his offspring'
mariaya sitnune 'to Maria's son' (objective case)
The third form, however, is attested with both a first and

ka-hawnan 'my wife'
wak-hawnan 'his wife'

a third person possessor:

Even here there is some ambiguity. In 1922, 'my wife' was recorded as ka-hawan, lacking the 'infixed' -n-. It is possible that the 1929 recording ka-hawnan was formed on analogy to wak-hawnan, the meaningfulness of the infixed -n-having been forgotten.

At best, this possessive construction is a marginal phenomenon, seemingly unproductive, at least to Mutsun's last speaker. Thus, the word for 'offspring', with both of its n's, $\overline{102}$ mennen is likely to be 'paternal grandmother' as distinguished from mere which is specifically glossed 'maternal grandmother'.

is the basis for the derived forms situante 'having children' and situanmin 'one who has children (e.g., wet nurse)'; 'his father' is attested as wak-?appa, not *?appan or *?apnan as Mason's analysis would predict.

350. Pronouns

The pronominal system of Mutsun includes three persons There is also good, but not conclusive, and two numbers. evidence that there was an inclusive/exclusive distinction in first person plural forms. There is no gender distinction, and glosses such as 'he' or 'his' are to be taken as shorthand for 'he, she, it' or 'his, her, its'. Pronominal elements are of two types, free and clitic. The free pronouns are independent words (nouns) and are inflected for case (subjective, objective, personal locative and comitative are attested). Clitics are further subdivided into two types. Proclitics are possessive pronouns and precede only nouns; enclitics are subject and object pronouns and normally follow the first word of the sentence, whatever it may be. As will be apparent, the clitic pronouns are reduced versions of the free pronouns, and, undoubtedly, arose from them due to phonological weakening. Enclitics are not obligatory elements in the structure of words, but are phonologically part of them since they constitute environments for the vowelshortening rule (sec. 135). Proclitics, on the other hand, though loosely attached to nouns, are not phonologically part of them since they do not take word-initial stress (sec. 140). In addition, the imperative suffixes of verbs incorporate pronominal notions. These are discussed in sec. 434.

351. Independent pronouns

The independent pronouns are as follows:

Subjecti <u>ve</u>			<u>Objective</u>			
	singular	plural		singular	plural	
1	ka•n		(inclusive) (exclusive)	kannis(e)	makkes(e) maksen(e)	(inc.) (exc.)
2	me•n	makam		me•se	makamse	
3	wa•k	haysa		wa•kse	haysan(e)	

The frequent loss of final e in the objective forms was discussed in sec. 150. The subjective case pronouns consist of the pronoun stem plus -Ø 'subjective case'. The third person singular object pronoun consists of the stem plus -se 'objective case' parallelling normal noun construction (see sec. 332.2), but all the other objective forms show irregularities. First, the first person plural exclusive and the third person plural show a suffix -ne rather than the usual -se. Second, the second person plural form has -se after a sonorant (m) where normally only -e would appear. Third, the first person singular form is based on a special stem kanni- (rather than ka·n-). Finally, the second person singular form loses stem-final n (me·- rather than me·n-).

The distinction between inclusive and exclusive first person plural pronouns is posited on fragmentary evidence. First of all, in the few cases where there is a second person subject (including imperatives) and first person plural object, maksen(e) is found:

himmat maksen 'Look for us!'
(-t 'imperative, first person object')

koč <u>makse</u> tawra, yu·me <u>maksene</u> pakkasi
'When <u>we</u> are seated, you look for <u>us</u>'
(-me 'you')

While these examples do not prove an inclusive/exclusive distinction, they indicate that if there is one, make is the exclusive member, since the verbs are not reflexive. Similarly, when there is a second person object and a first person plural subject, normally make is found:

lilwimpi maksemes 'we are going to entertain you tomorrow'

(-mes 'you [objective]')

Secondly, only makke follows $\operatorname{hit}^{Y} t^{Y} e$ 'go!', forming what Harrington translates as 'let us go' as in:

hit Yt Ye makke rukkatka 'ams Yi makke 'ekwe malan 'Let's go (in) to the house so that we don't get wet'

If the inclusvie/exclusive distinction is legitimate, it makes sense that the 'first person imperative' form contains the inclusive member of the set. This interpretation is supported by another almost identical sentence:

hit Yt Ye makke rukkatka ?ams Yime ?ekwe ?amnehne 'Let's go (in) to the house so that you don't get rained on' (-me 'you')

Again, if the inclusive/exclusive distinction is real, makke must be the inclusive member, since it would be semantically aberrant to say, 'Let us, but not you, go into the house so that you don't get rained on'.

Further evidence is more in the nature of inference.

Apparently, though not explicitly, in answer to a question such

as 'How did you spend the night?' or 'Did you sleep well?' or something of the kind, Harrington records an appropriate response as: mis to make 'akkenin' We woke up well' (that is, 'we spent the night well and woke up refreshed' or the like). This sentence contains the alleged exclusive pronoun make, the only one making sense in this context. (One is not likely to answer the question with 'You and I slept well'.)

It is possible that the makke/makse distinction is one of number rather than inclusivity. For example, makke might be 'dual' and makse 'plural'. All of the examples cited above would be compatible. One further Harrington entry supports this view: mis yte makke 'We d. are well'. The 'd.' is Harrington's undefined abbreviation, perhaps standing for 'dual'. This sentence was recorded in 1922; upon reeliciting it in 1929, however, Harrington got mis te make for which he does not provide a new gloss, meaning either 'd.' does not mean 'dual', makse may also mean dual, or Harrington should have reglossed the sentence. Furthermore, one sentence argues against the dual/plural interpretation: parwes makke yowe nin 'We remained (only) five' (that is, 'Only five of us were left'). Here the supposedly 'dual' makke refers explicitly to five people. The inclusive interpretation, on the other hand, makes sense for this sentence.

In only one entry does Harrington indicate that only one of the two pronouns is appropriate:

himmemu makke 'We join together, come
together'

[for number sequence only]

makse cannot be used in this sentence, Harrington notes, though it is not clear why. The verb contains the reciprocal suffix —mu making the literal meaning something more like 'we unite with each other' or 'we join with each other', but this need not be restricted to an inclusive interpretation. The exclusive makse also occurs with reciprocal verbs, e.g.:

makse kap(p)almu 'We embrace each other'

(Harrington records both /kappalmu-/ and /kapalmu-/ 'to

embrace one another'.) If there is no error involved,

the prohibition against makse in the first sentence must

be contextually determined (the speaker must have been

addressing the person he was joining). On the other hand,

the inclusive/exclusive interpretation might be wrong.

Indeed, there are a number of counterexamples to the inclusive/exclusive analysis. For example:

makkemes lilwimpi 'We entertain you'
 (-mes 'you [objective]')

Here the 'inclusive' form takes a second person object ('you and I entertain you'). Arroyo's version of this sentence, however (1862: entry no. 1739), contains macse, that is, makes. Similarly, Harrington records:

makkemes ni pa 'We are teaching you'

Actually, Harrington glosses this sentence 'te estoy enseñando'

('I am teaching you') even though it clearly contains the first person plural pronoun makke. This suggests that the whole thing might be an error on somebody's part.

The most reasonable interpretation of the situation is that the inclusive/exclusive distinction was probably at one

time a functioning part of the language, but, by the time of Harrington's work with the last speaker of Mutsun, it was in a decayed state, resulting in an often undifferentiated pair of first person plural forms. A somewhat more optimistic view might be that the distinction was still legitimate while Harrington was doing his work, but there are simply a number of errors in the data.

As with all monosyllabic words with long vowels, the singular independent pronouns sometimes occur with short vowels (see secs. 121, 135). It is not known exactly what syntactic, semantic or phonological (intonational?) conditions are most conducive to vowel shortening, nor which, if any, of the attestations of short vowel pronouns are recording errors. One tendency that has been noted is that short vowel forms are found more frequently than their long vowel counterparts as the subjects of subordinate clauses. For example:

kommes^yteka kan hinne 'I am tired from having walked'

(kommes te 'tired', -ka 'I', kan 'I', hinne 'walk'; thus literally, 'tired-I I walk')

Whether this observation is based on systematic facts about the language cannot be determined from the data examined thus far. Regardless of its accuracy, the long vowel subject pronouns are, in general, far more frequent than the short vowel forms.

Pronouns in the comitative and personal locative cases are exemplified only once each in the following exchange:

ha · yi kannisme 'Come with me!'

ka·n wattin me·stuk 'I am going with you'
The gloss of the first sentence is a direct translation of
Harrington's 'ven conmigo!' but should probably be something
like 'Come here to me!'. The personal locative suffix -me
follows the object form of the first person singular pronoun kannis. Similarly, the comitative suffix in the second
sentence, -tuk, follows a shortened (by syncope) form of the
second person object pronoun me·se. (For further discussion
of the personal locative and comitative cases, see secs. 332.7,
332.8.)

352. Enclitic pronouns

Enclitic pronominal elements include singular forms only:

<u>Subjective</u>		Objective	
1	-ka	-kas (rare)	
2	-me ~ -m	-mes	
3	-ak ~ - k	-was	

In the case of the third person subject form, -ak occurs after consonants while -k follows vowels. The second person -me occurs after both consonants and vowels, but is reduced to -m on a few occasions following a vowel. Examples of enclitic pronouns are:

ma·yika 'I am laughing (at something)'
yiswaninka 'I got worse (in health)'
mu·hinme 'You are (getting) hot'
nitlime 'You are stooping over'
mehe·sihnem 'You are being looked at'
rintaninak 'He got skinny'
huskek 'He is playing the flute'

Enclitic subject pronouns can follow not only verbs, as in all the above examples, but also particles and, occasionally, nouns. For example:

ne(')k 'He is here'
(ne['] 'here')

motme mala·nin 'Did you get wet?'
 (mot 'interrogative particle', mala·nin 'got
 wet')

Panyistakka tawra 'I live somewhere else'
 (Panyistak 'other [locative]', tawra 'sit,
 live')

Enclitic object pronouns occasionally follow verbs directly (e.g., tappanmes '[it] suits you, fits you'), and are also sometimes found after nouns (e.g., 'ippiwas 'iččis 'the rattlesnake bit him'), but they are almost always found following subject pronouns, independent or enclitic. Examples of enclitic object pronouns after independent pronouns are:

ka·nmes tayke 'I touch you (with my hand)'
ka·nwas hussen 'I smelled it'
me·nwas murtumpin 'You made it black'
lilwimpi maksemes 'aru·ta 'We are to entertain
 you tomorrow'
pi·naway wakwas haran to·tese 'Therefore he gave
 him meat'

Examples following enclitic subject pronouns are:

-mekas 'you-me'
hinkayimekas monse 'What do you tell (advise)
me?'

-kames¹⁰³ 'I-you:

¹⁰³ In a few entries, Harrington records -kammes. These may be errors, or else reflect the source of the enclitics, the reduced independent pronouns: kan+mes(e) > kammes > kames.

ri·čikames 'I'm talking to you'

-kawas 'I-him'

wehhekawas 'I stop him'

-mewas 'you-him'

?ekwemewas ruymampi 'Don't shake him (to arouse him)!'

-akwas ~ -kwas 'he-him'
ho 'yonakwas 'He seized him'
yummekwas 'He's deceiving him'

Finally, the subject + object enclitic forms may fuse together:

-kawas > -kas 'I-him'
hiwsenkas ha wa 'I like to call him'

-mewas > -mes 'you-him'
motmes haran to tese 'Did you give him meat?'

353. Functions of independent vs. enclitic pronouns

The conditions under which one or the other of the two pronoun types may be used may be guessed at, though further study is required to work out the details.

For simple sentences with pronominal subjects, either the independent or the enclitic form is used, but they are never used together. With few exceptions, the independent form is always the first word in its sentence; the enclitic form, again with a few exceptions, follows the first word of its sentence, whatever this word may be. 104 Compare, for

¹⁰⁴ No enclitic subject pronoun follows a noun with which it is coreferential, although it is possible for a sentence to have both a nominal and pronominal subject, e.g.:

rukkatek ta'r } 'The moon has a house'
ta'r rukkate }
Such double marking of the subject has nothing to do with
word order as is shown by comparing the above with:

```
example:
```

```
'He is sleeping (lying) face down'
?e tek matla )
   (matla 'is [lying] face down', -k 'he', 'e'te
   'is sleeping')
huysime tache 'You are in a hurry to ask'
histame huysi ta he 'Why are you in a hurry to
   ask?'
   (huysi 'is in a hurry to...', -me 'you',
   ta.he 'questions, asks', hista 'why?')
          'She has given birth'
hiswinak
ney?ak hiswin 'She has given birth just now'
 (hiswin 'gave birth', -ak 'she', ney?a 'just
   now', -k 'she')
tursinka 'I am (getting) cold'
yete ka tursin 'I will get cold later'
   (tursin 'is [getting] cold', -ka 'I',
   yete 'later')
```

In terms of semantics, it is difficult to discern the difference between use of independent and enclitic subject pronouns. This difficulty arises because Harrington's glosses give no indication of any difference. Indeed, some sentence pairs are equated, as if there is no difference whatsoever:

```
ka·nmes muyṣ¹in
muyṣ¹inkames

'I like you'
wa·k mumruhne
mumruhnek

'It is filled up with flies'
```

Apparently the difference is involved with emphasis or focus or topicalization. The enclitic pronouns are probably

sakkerte to te 'The meat has (much) fat'
tappur so montek 'The tree has a hollow'
 (sakkerte 'having fat', to te 'meat', tappur
 'tree, wood', so monte 'having a hollowed out part')

rather neutral in force. This seems likely due to thier reduced form, as well as the fact that their placement (normally after the first word of a sentence) is guided by totally formal rather than semantic criteria. The independent forms, on the other hand, are probably more emphatic, behaving more like common nouns syntactically (see sec. 720).

It is interesting that ka·n 'I' is by far the most commonly occurring independent pronoun; enclitics -me and -(a)k are found far more frequently than their independent counterparts me·n 'you' and wa·k 'he, she, it', respectively.

The situation with independent vs. enclitic object pronouns is almost identical. Normally, the enclitic object forms follow the subject noun or pronoun (independent or enclitic). For the first person singlular, however, kannis(e), the independent form, is used rather than the enclitic -kas (which, as noted, is exemplified very infrequently). The independent second and third person singular objects, me'se 105 Such an interpretation is also vaguely suggested by the following pair, given with Harrington's Spanish glosses:

mehehneme 'te miran a tí' ('they're looking at you')
men mehehne 'a ti te miran' ('id.')

These third person plural glosses are the normal way
Harrington translated passive sentences, so the above both
mean 'you are being looked at'. The Spanish construction a tí
'(to) you' is emphatic (the te is the more neutral object
marker), and it is even more emphatic when sentence initial.

That the emphatic Spanish gloss corresponds to the Mutsun
sentence with the independent pronoun may indicate that a
similar function is served by preposed pronouns in Mutsun:

mehehneme 'You're being looked at'
men mehehne 'You are being looked at'
It is possible, of course, that the Mutsun-Spanish resemblance
is due to the bilingual situation, the word order of one
being influenced by that of the other.

and wa·kse, are exemplified extremely few times, while their enclitic counterparts are found often. For them, the independent forms are certainly 'marked', and, thus, probably more emphatic.

Actually, the distinction between independent and enclitic pronominal elements is not as clear cut as the above description implies. Harrington frequently transcribes the independent object pronoun kannis 'me' adjoined to the preceding word, including those ending in enclitic subject pronouns, as if a suffix; similarly, he often writes the enclitic object pronouns -mes and -was as free words. Furthermore, wak, presumably a weak form of the independent third person singular wa·k, sometimes follows the verb with which it is associated much in the manner of the enclitic -ak. In light of the probably emphatic or focusing function of the independent pronouns, this suggests that postposed (often reduced) independent pronouns are less emphatic than (normally full) sentence-initial forms, and that, synchronically as well as historically, the enclitic forms are simply further reductions.

The plural subjective pronouns do not have reduced (enclitic) counterparts, and their placement before or after the verb seems relatively free (or at least the determinants have not yet been discerned). The first person plural inclusive makke occurs quite often after the verb, and following hit yt e 'go!' forms a phrase meaning 'let's go!'.

354. Proclitic pronouns: possessives

The proclitic possessive pronouns are either reduced

versions of the independent subject pronouns, or else are identical to them:

	singular	<u>plural</u>	
1	kan- ~ ka-	mak-	
	(~ ka·n-)	makke (inc	clusive)
		makse (exc	clusive)
2	men- ~ me-	?	
3	wak-	haysa (ran	e)

The difference between kan- and ka- 'my' and men- and me- 'your' seems to be one of free variation, though the shorter forms are less frequent. Examples of the singular possessive proclitics are: 106

kan-to·te 'my meat'
ka-?uri·se 'my (head) hair (objective)'
men-to·te¹⁰⁷ 'your meat'
me-tokko(h)¹⁰⁷ 'your mat'
wak-mo·hel 'his head'

The full (long vowel) form of the first person possessive pronoun comes up much less often, but it is apparently legitimate and not an artifact of mishearing. For example, in

The proclitic pronouns are written with following hyphens to show that they are phonologically associated with the following word (accounting, for example, for the reduction of mento me-), but not actually part of that word (so that they do not receive word-initial stress -- see sec. 142).

There are two examples of further variation among the proclitics. First, in one entry, Harrington writes mekkoro for men-koro 'your foot'. This may simply represent a definite pause between a proclitic me- and the noun koro. Second, he writes watriččan 'his speaking' for what should presumably be wak-riččan; the proclitic-final k becomes t by assimilation to the following r, showing the phonological association of the proclitic and its following noun.

Harrington himself refers to the men- in men-to te 'your meat' as a 'proclitic'; similarly, he says of me- in me-tokko(h) 'your mat': 'not men- but proclitic'.

addition to kan-koro 'my foot', Harrington records ka·n-koro. Of the possessive element in ka·n-relo 'my clock' (< Spanish reloj) Harrington remarks 'the slow pronunc[iation]'. No example is found of me·n- for men- 'your', and there is only one of wa·k-: wa·k-koro 'his foot', alongside wak-koro. Perhaps, then, ka·n- 'my' is more emphatic than kan- by being pronounced with more care (the 'slow' pronunciation). It is interesting that the first person singular form is the one which occurs most often in its fullest possible shape, be it independent subject or object pronoun (ka·n, kannis[e]) or possessive marker.

The plural possessive pronouns are not well exemplified in the data examined. The evidence for the distinction between inclusive and exclusive in the first person plural was discussed in sec. 351. The full forms of the pronouns can evidently either precede or follow the associated noun, though this is exemplified only for makes:

makse rukka } 'our houses'
rukka makse

The proclitic mak- is probably a reduction of the inclusive makke since it is certain that makke and mak- mean the same thing in the following sentence:

mot semmon <u>make</u> nossow mot semmon <u>mak-</u>ama
'Do <u>our</u> souls die or do <u>our</u> bodies die?'

On the other hand, mak- may neutralize the inclusive/exclusive distinction; there is not enough information to tell.

There is no second person plural possessive form attested. It is possible, however, that there is none, if

the following sentence contains no error:

ha·yi makam men-pappame 'Come here (you-plural)
to your grandfather!'
(ha·yi 'come here!', pappame 'grandfather
[personal locative]')

This imperative sentence is addressed to more than one listener (makam 'second person plural subject'), yet the possessive pronoun, presumably referring to all the listeners, is singular men-. There are no further examples to shed light on the situation, but it seems reasonable to assume that the number distinction for second person is neutralized, or at least not obligatorily expressed, for possessive pronouns.

The third person plural haysa, with possessive function, is quite rare, but it is clearly attested in:

mo·niṣ^Ymak haysa ri·ča 'the Spanish language'
(mo·niṣ^Ymak 'white people, Spanish Californians',
ri·ča 'language, speech, words')

The phrase seems to literally be 'White people (Spaniards) / their language'. There are no clear examples of wak-, the third person singular possessive proclitic, having a plural interpretation.

Non-pronominal possession is achieved by simple juxtaposition of nouns (in the order possessor-possessed), though
the third person singular possessive form may be attached to
the possessed noun. (See also sec. 711.) For example:

The possessive sense of haysa may recur in:
ričča haysa ri·časum 'They're speaking their
language'

⁽ričča 'speak', ri·časum 'language [instrumental])
Here, however, haysa may equally well be interpreted as the subject pronoun.

```
hulya·na mennen }
hulya·na wak-mennen }
'Juliana's grandmother'
hulya·na wak-mennen  
'ippi ha·kana }
'rattlesnake's rattle'
'ippi wak-ha·kana }
```

There are several occurrences of a special construction involving possessed nouns which is reminiscent of inalienable possession, though there is no morphological basis for an alienable/inalienable distinction. In all attested instances of the construction, there is a pronominal subject (or object) coreferential with a possessive pronominal proclitic in the same sentence. For example:

ka·yika kan-sire 'My heart aches' or 'I ache in
my heart'
 (ka·yi 'aches', -ka 'I', kan- 'my', sire
 '"heart" [as seat of emotions; literally,
 'liver']')

?ekweme siksan men-?ama 'Don't get dirty on your
body!' or 'Don't get your body dirty!'
 (?ekwe 'not', -me 'you', siksan 'gets dirty',
 men- 'your', 'ama 'body')

There is apparently an identity being expressed between the pronoun (in this case, 'I' or 'you') and that with which the pronoun is associated (here, 'my heart', 'your body') such that the verb applies to both equally. Such sentences are rare; more often, either the subjective pronoun or the possessive pronoun is missing, though the structure is parallel to the fuller form. Thus:

malas Yteka ?uri 'My hair is wet' or 'I'm wet in my hair' or 'I have my hair wet' (malas Yte 'wet', -ka 'I', ?uri '[head] hair')

- ti·ruka parki mo·hel 'My head is very heavy' or
 'I have my head very heavy' (e.g., when sick)
 (ti·ru 'much', -ka 'I', parki 'is heavy',
 mo·hel 'head')
- layṭaṣYte men-?urî 'Your hair is long' or 'You
 have your hair long'
 (laytasYte 'long', men- 'your', ?uri 'hair')

Third person subjective and possessive pronouns can also occur in this type of construction:

- huppes tek wak-?uri 'His hair is smoothed down' or 'He has his hair smoothed down' (huppes te 'smoothed down [of hair]', -k 'he', wak- 'his', 'uri 'hair')
- luktis te wak-huttu 'He is pot-bellied' or 'He has
 his belly hanging out'
 (luktis te 'pot-bellied', wak- 'his', huttu
 'belly')
- ratmas te himah a wak- ama 'He is full of sores all over his body'

 (ratmas te 'full of sores', himah a 'all', wak- 'his', ama 'body')

Nouns in this construction are not limited to body parts; they may refer to any identifying characteristic of the pronominal subject-possessor:

- tollonme yu·mus 'You have much filth' (i.e.,
 'You're filthy')
 - (tollon 'much', -me 'you', yu·mus 'filth')
- tollonak hine ru 'He has much money'
 (tollon 'much', -ak 'he', hine ru 'money'
 [< Spanish dinero])</pre>
- ti ruk titkus te wak-ta pu 'His clothes are all torn to pieces' or 'He has his clothes all torn up'

(ti·ru 'much', -k 'he', titkus Yte 'torn to pieces', wak- 'his', ta·pu 'clothes' [< Spanish trapo 'cloth'])

Possessed nouns may also be treated as regular subjects (perhaps with an appositional third person subject pronoun):

men-mo·hel tollonak ?i·sir 'Your head is full
 of dandruff'

(men- 'your', mo·hel 'head', tollon 'much',
-ak 'it', ?i·sir 'dandruff')

The verbs in these 'inalienable possession' sentences are 'mediopassive' in nature. That is, the subjects (and possessors) in the sentences are not agents, but, rather, are somehow being acted upon; something happens to the subject, or has already happened to the subject, resulting in a particular state (e.g., 'pot-bellied' is a result of having 'become pot-bellied'). Sentences with 'active' verbs (see sec. 414.1) do not occur with this construction, but instead make use of reflexive verbs or nouns in the objective case. For example:

kussapuka kan-mo hele 'I wash my head'
 (kussapu 'wash oneself', -ka 'I', kan'my', mo hele 'head [objective]')

The 'inalienable possession' construction is also found with possessed nouns in the objective case. Thus, a pronominal object may occur in the same sentence as a nominal object preceded by a possessive pronoun, the two pronominal elements being coreferential. For example: 109

There are no unambiguous examples of a deleted objective or possessive pronoun in this construction as there are for the subjective construction. Also, compare these sentences with those involving body parts in the locative case (sec. 332.4).

ka·nmes mis impi men-he·yese 'I fix your beard up well'

(ka·n 'I', -mes 'you [objective]', mis impi 'cause to be good', men- 'your', he·yese 'beard [objective]')

ka·nwas lokwe wak-hi·ne 'I take out his eye'
 (ka·n 'I', -was 'him', lokwe 'take out'
 wak- 'his', hi·ne 'eye [objective]')

Moreover, the construction occurs with reflexive verbs where the subject and object are coreferential. A noun preceded by a possessive pronoun coreferential to this reflexive subject/ object occurs in the objective case. For example:

hintisumme hittapu me-si·tse 'With what do you clean your teeth?'

(hintisum 'with what?', -me 'you', hittapu 'clean oneself', me- 'your', si·tse 'teeth [objective]')

One sentence is attested with both the 'inalienable' construction and the 'appositive' construction (secs. 332.1, 332.2):

ka nwas yete mu pi wak na ye neppe ta rese
'I will close this man's mouth'
 (ka n 'I', -was 'him', mu pi 'close [someone's]
 mouth', wak his', ha ye 'mouth [objective]',
 neppe 'this', ta rese 'man [objective]')

The objective suffix -was is coreferential with neppe tarese 'this man', and both are coreferential with wak- 'his'.

360. Demonstratives

There are six demonstrative pronouns ('this'/'that').

Like all nominal elements, they are inflected for case and number, but, like the personal pronouns, they exhibit some irregular formations. The demonstrative pronouns may occur alone as nouns ('this one'/'that one') or as modifying elements preceding a noun ('this N'/'that N'). In this latter function, they are uninflected for case. Furthermore, at least some of the demonstrative pronouns seem to occur alone in a verbal sense ('to be here'/'to be there').

In addition, there are three locative demonstratives ('here'/'there') which are considered to be inherently in the locative case.

- 361. Demonstrative pronouns
- 361.1 neppe ~ ne(⋅) 'this'

The monosyllabic alternant is very rare (found only twice in the data examined). Examples of neppe as a modifying element (uninflected for case) are:

- ta kanak neppe tu hisum 'He is coming today'
 (ta kan 'comes', -ak 'he', tu hisum 'day
 [instrumental]')
- wattinka neppe rukkatkatum 'I go away from this
 house'
 - (wattin 'go', -ka 'I', rukkatkatum 'house
 [locative + ablative]')
- marahte neppe we'ru 'This skin has much fur' (marahte 'having [much] fur, hair', we'ru 'skin, pelt' [< Spanish <u>cuero</u>])

Note that the demonstrative element is unaffected by the case of the governing noun.

When used as a noun, neppe is inflected for case by the addition of the normal case suffixes. Attested forms are:

neppe 'this one' -Ø 'subjective case'
neppese ~ neppes -se ~ -s 'objective case'
neppesum -sum 'instrumental case'
neppewas -was 'attributive case'

For example:

makkes neppe 'uttasi 'This one cares for us' (makkes 'us [exclusive]', 'uttasi 'takes care of, cares for')

lelseninka neppese 'I enjoyed this (one)'
 (lelsenin 'enjoyed', -ka 'I')

hinkehtek koctuknek ?ennehne neppesum 'How would it be if it were written with this (one)?' (hinkahte 'how be?', -k 'it', koc 'if, when', -tukne 'irrealis', -k 'it', ?ennehne 'is written')

The attributive form, neppewas, is attested in isolation only, glossed 'de este' ('of this').

The plural of neppe is formed irregularly: nepkam 'these'. For example:

nepkam mukurmakma missimak 'These women are pretty ones'

(mukurmakma 'women', missimak 'pretty ones')

The only case suffix occurring in the data with nepkam is -se 'objective' in:

kan ma·sa nepkamse 'I am covering these'
 (kan 'I', ma·sa 'cover [plural object or
 action]')

When used alone, the monosyllabic alternant ne(·) seems to carry a verbal and locative force, 'to be here', though it is attested only in the simple sentence:

ne(')k 'Here he is!
 (-k 'he')

361.2. niṣ^Yṣ^Ya 'this'

This demonstrative pronoun occurs infrequently, and exactly how it differs from neppe is not known. 110 It occurs as a noun as well as a modifier:

 nis^{y} s y a tu·his 'this day'

niş İş İa latwen hurčaş İmintak 'These descend (in) to Hell'

(latwen 'descend', hurčas mintak 'Hell [locative]')

The second example shows again that number is not obligatorily expressed in Mutsun. No plural form of nis y a is attested.

The only oblique case with which $\operatorname{nis}^{y} s^{y}$ a occurs in the data is the instrumental which takes on a special meaning of 'thus, therefore' (literally, 'with this'):

nis^Ys^Yasumka ?uṭṭaspu diyo·se 'Therefore I take care of myself for God'¹¹²

Mason (1916:440) glosses ne, nepre (i.e., ne[·] \sim nepre) this (close) and nisia (i.e., nisYsYa) as this (farther).

lll Also attested is $\operatorname{nis}^{Y} \operatorname{s}^{Y} \operatorname{awasum}$, glossed identically to $\operatorname{nis}^{Y} \operatorname{s}^{Y} \operatorname{asum}$ 'por eso' ('therefore'). It seems to be an attributive (-was) plus instrumental (-um) sequence, a unique construction in the data.

¹¹² The actual gloss of this sentence is not clear. Harrington translates it 'por eso yo espero (lit. me cuido por) Dios' ('therefore I "espero" [literally, take care of myself for] God'). The verb espero in this context seems to mean 'I fear', a less common sense of the word than 'I hope' or 'I wait for',

(nis ys yasum 'with this, thus', -ka 'I', 'uttaspu 'take care of oneself', diyo'se 'God [objective]')

361.3. nuppi 'that'

This form is attested in isolation only, glossed in English as 'that'. The plural, formed irregularly, is nupkam 'those' and is attested only as a modifier:

nupkam ta·resmak 'those men'
nuppi is far less common than other words for 'that' (see below).

361.4. pi·na 113 'that', pina '(be) there'

How pi na differs from other demonstratives glossed as 'that' is not known since all are translated by Spanish eso 'that'. The plural of pi na, pinkam 'those', is glossed by the more remote aquellos 'those', but so is nupkam (see above). Hopefully, a study of textual material will elucidate the distinctions.

pi·na is attested both as a noun and as a modifier.

As a noun, it is found in the subjective, objective (pi·nase) and instrumental (pi·nasum) cases, though the latter occurs in isolation only glossed as 'con eso' ('with that'). As noted above, the plural is formed irregularly, pinkam; it too

both of which seem incompatible with 'take care of myself'. Thus the overall meaning probably involves the notion of taking care to avoid the wrath of God.

¹¹³ Isabel Meadows said the word should be pinna, not pina.

¹¹⁴ Mason (1916:440) glosses pina (i.e., pi·na) 'this (more distant)' implying that pi·na is the most proximate of the remote demonstratives.

is attested in isolation only. 115 Examples:

himmus tek pi na ta res 'That man is tipsy'

(himmus te 'dizzy, wild, tipsy [somewhat drunk]', -k 'he', ta res 'man')

mot pi·na men mirahnis 'Is that what you were given?' 116

(mot 'interrogative particle', men 'you'
mirahnis 'was given')

pi·naseskames his yesis 'Is that what I had you do?'

(pi nase 'that one [objective]', -s 'interrogative enclitic', -kames 'I-you', his seesis 'made [someone] do [something]')

pi na is clearly related to a verbal locative form pina (||pina ||) 'to be there', glossed by Harrington as 'alli está' (or 'ay está') ('[he] is there'). It occurs in such contexts as the following:

pina ro·te '(It) is (kept) there'
 (ro·te 'is kept [somewhere], is [at a place]')

pina ka tawra 'There is where I live' (-ka 'I', tawra 'sit, live')

pina hu rani 'A grave hole is there'

pi naway wakwas haran to tese 'Then (thus?) he
 gave him meat'
 (wak 'he', -was 'him', haran 'gave', to tese
 'meat [objective]')

The word seems to be pi·na plus a suffix -way attested in only one other form in the data, misnisway 'Sunday', based on misnis 'mass' (< Spanish misa). The status of -way as, perhaps, a temporal adverbial suffix awaits further data for verification.

116 The word is recorded as pina, but there is no verbal locative sense in the gloss (see below). It is assumed to be an error for pi·na.

In addition there is a form pi naway glossed 'entonces' ('then, thus') which occurs in:

pina wa·te pa·tre 'Here comes the Padre' (wa·te 'comes')

361.5. tina. 'that', 'to be there'

There are not enough data to figure out exactly how tina (||tina.||) differs from pi.na (and pina). It occurs infrequently in Harrington's notes. It is never used as an independent noun, though this may be due to a gap in the data; it does occur as a locative element. Examples:

hopey tina tappurtak 'Go up (in) that tree!'
(hopey 'ascend!', tappurtak 'tree [locative]')

mot tina sinni 'Is the baby there?'
 (mot 'interrogative particle', sinni 'baby')

mot wak tina lippahte rammay 'Is he hidden
 inside there?'

(mot 'interrogative particle', wak 'he',
lippahte 'hidden', rammay 'inside')

No plural or oblique case form is attested.

361.6. nuk 'that', 'to be there'

This demonstrative pronoun is found only as an object of an imperative verb where it is used in place of a third person pronoun. For example:

kaplay nuk 'Embrace him!'
ho yoy nuk 'Take it! Grasp it!'

In addition, though no contexts are provided, nuk is once glossed 'ayá está' (presumably for 'allá está' '[he] is

The object nuk need not always be included. At one point, Harrington asked Mrs. Cervantes to distinguish between ho yoy 'here, take it!' and ho yoy nuk 'id.'. She 'never tho [ugh] t of it, but thinks the ho yoy is near and the ho yoynuk is when the article is further'.

there'), with a locative verbal sense. 118

118 According to Arroyo (1861:33) nuk is used in forming a passive construction:

Usan tambien de otra especie de pasiva, ô tienen otras expresiones en las impersonales, que in nuestra Gramatica latina se hacen en pasiva, aunque las terminaciones son en activa, y podemos llamarlas pasivas; v.g.: Dicese, ô se dice, que te dan; Dicese, que te han de dar; Dicese, que te dieron; ò Dicen, que te entregan; Dicen, te han de entregar; Dicen, que te entregaron. En estas, y semejantes impersonales, usan los Indios de esta lengua: Aragne nuc me; Arastap nuc me. El nuc es lo mismo que dicen; y lo demas como queda dicho.

(They also use another type of passive, or have other impersonal expressions, which in our Latin Grammar are made in the passive, although the endings are in the active, and we can call them passive; e.g., It is said that they give to you; It is said that they are to give to you; It is said that they gave to you; or They say that they hand over to you; They say that they are to hand over to you; They say that they handed over to you. In these, and similar impersonals, the Indians of this language use: harahne nuk me; harastap nuk me. The nuk is the same as they say; and the rest as is said [in previous passages].)

The Mutsun words are indeed passive, harahne 'is given', harastap 'was given', and the glosses, translated literally above, might better be 'you were given', 'you are to be given', etc. Arroyo's identification of nuk with dicen 'they say' (or with se dice 'it is said') cannot be taken at face value as implying that nuk means 'say' or the like. Perhaps there is a suggestion here of an evidential system, though it is otherwise lacking in the data. Another possibility is that nuk functions as a direct object. The pronoun me (presumably for the enclitic -me 'you') is the recipient of something; perhaps nuk indicates that thing. Thus, harahne nuk me may be 'You are given that (one)', where nuk is used in place of a third person objective pronoun. Unfortunately, Arroyo exemplifies this nuk with only one verb, hara- 'to give', in his Grammar. In the Phrase Book (1862), however, it occurs in other environments, one of which was reheard by Harrington:

pots ehne nuk me
Harrington does not gloss this phrase, but Arroyo's translation (entry no. 2141) is 'Dice que se te ha de murmurar'
('[One] says that you are to be gossiped about'). The passive

362. Locative demonstratives

362.1. niya· ~ ni(·) 'here'

The alternation between the long and short forms of this demonstrative seems to be a matter of free variation. refer to a geographical location ('here where we are now') or to a location being pointed out, e.g. a body part. For example:

> Pippi ni Piččin 'The rattlesnake bit here' ('ippi 'rattlesnake', 'iččin 'bit'; Harrington specifically points out that ni 'here' can mean 'in this place' or 'on [a particular part of the] body')

ni·ka tawra 'I live here' (-ka 'I', tawra 'sit, live')

mu·hi niya 'It's hot here' (mu·hi 'is hot [weather]')

As an inherently locative noun, niya may be followed directly by the ablative suffix -tum (sec. 332.6); this is the only oblique case suffix attested after this demonstrative. For example:

> Pis ke niva tum 'Get out of here! Get away from here!' ('is Yke 'go! scat!')

362.2. naha· ~ nahan 'there'

Although Harrington remarks 'Both naha and nahan = verb pots $^{\rm Y}$ ehne is attested elsewhere meaning 'is gossiped about' or 'is spoken badly about' or the like. The presence of nuk here is puzzling, though it is clearly Arroyo's nuk since his gloss begins with dice 'one says'. The active verb potsye'to gossip about, etc.', is not found with two objects.

In short, far more data are required to properly analyze nuk in this passive or impersonal context.

allá ['there'], there are no clear examples of naha (||naha.||) in the data. The semantic distinction between this demonstrative and nuhu ~ nu· 'there' (below) is not apparent from their few occurrences in Harrington's notes. 119 Indeed, neither is well exemplified, but some examples of nahan are:

nahan kawran taskuhmin 'The red one ends here'
 (kawran 'ends, finishes' [< Spanish acabar],
 taskuhmin 'red one')</pre>

nahan witimsatka wasu·ra 'there in the trash container'

(witimsatka 'throwing away implement
[locative]' [? -- see sec. 424.5], wasura
'trash' [< Spanish basura])</pre>

nahan occurs followed by two oblique case suffixes,
-was 'attributive' and -tum 'ablative', the latter in
isolation only, glossed as 'de allí' ('from there'). The
attributive is found in:

mot nahanwas pire 'Is (he) of that land?'
 (literally: 'Is [he] of the land-of-there?')
 (mot 'interrogative particle', pire 'earth,
 land, world')

362.3. nuhu ~ nu(') 'there'

This demonstrative occurs in just a few sentences:

nuhu kawran taskuhmin 'The red one ends there' (cf. nahan, sec. 362.2)

nuhu tunne čupkas Y min 'The white one arrives

¹¹⁹ Mason (1916:466) glosses <u>nu</u> as 'there (nearer)' and both <u>naxana</u> and <u>nuxu</u> (for nahan and nuhu) as 'there (farther)'.

there' 120 (tunne 'arrives', čupkas ^Ymin 'white one')

Harrington remarks of this sentence: 'piná cannot be used in this sentence. It means allí está [(it) is there]'. Presumably, then, nuhu lacks this verbal sense. If that is so, the locative verbal sense of nu· in nu· ye·hu 'The old man is there' is aberrant. It may be an error, however; in another context, Mrs. Cervantes 'denies that there is a nu corresponding to ni ['here']'.

CHAPTER 4 - VERBS

400. Introductory remarks

A verb is formed by adding a final suffix to a verb theme. A verb theme consists of a verb stem followed by zero, one or (occasionally) two thematic suffixes.

410. Verb stems

With almost no exceptions, verb stems are disyllabic. The various canonical shapes of verb stems, as well as the distinctions between primary, derived and reduplicated stems were described in sec. 220.

The relationship between the primary and derived stem of a verb is a purely formal one: the choice between the two is determined by the suffix which immediately follows the stem. There is no semantic distinction between primary and derived stems. Primary stems have been found with certainty before only two suffixes, -pu 'reflexive' and -mu 'reciprocal', and perhaps also before the aspectual suffixes -ti and -si. The derived stem occurs before all other suffixes, which means that the derived stem is very much more common. When the derived stem is of the form $C_1V_1C_2C_3V_2$, if there is no attestation of the verb with a reflexive or reciprocal suffix, there is no way to determine its primary stem, since it may be any one of four possibilities; if the derived stem is of any other shape, it is identical to its primary stem (see sec. 221).

Reduplicated stems, on the other hand, do convey semantic information, namely a 'continuative' aspect (see sec. 223).

As noted earlier, they occur very infrequently in the data and thus cannot be analyzed with much depth. They will, because of this lack of information, be mostly excluded from further consideration. 121

411. Multiple primary stems

In a few cases, there are pairs of primary verb stems of the same verb, the difference, if discernable, being one of aspect. For example, Harrington gives:

massa- 'to cover (something), put the cover
 on (a container)'

Harrington notes specifically that massa- refers to putting one cover on, while massa- denotes a 'Pl[ural] object or act'. He notes, further, that these forms are comparable to notto- and nosto-. Only the former appears in the data examined, and it means 'to give (someone) one hit with the fist'. If we take Harrington's suggested comparison at face value, nosto- must mean 'to hit (someone) several times' or 'to hit several (people)'. In a slightly more complex pair, a similar distinction is found. Citteti- 'to dance along' is based on a stem Citte- 'to dance', followed by -ti 'continuative, to go along ...-ing'. The related noun Cittetis 'dancer' contains

¹²¹ In the case of one stem showing CVC reduplication (sec. 223.1), a suffix -si occurs: polpolsi 'spotted'. This suffix also occurs with a non-reduplicated stem in čo·holsi 'pierced, full of holes'. This latter form may be a primary stem (since derived stems all end in vowels) or else a modification of a noun stem (cf. čohol 'hole'). Without further data, the status of these stems, and their common suffix, cannot be determined.

this same suffix, plus a nominalizing -s, but the stem is či·te-. This latter stem does not occur elsewhere but it would seem to mean 'to dance repeatedly or continuously' or the like. Similarly, compare riččapu- 'to talk amongst selves' and ri·časpu- 'to have a conversation'. The first comes from ričča- 'to speak (to/about)' + -pu 'reflexive'; the second from ri·ča-, -s (significance unknown), -pu. ri·ča- may refer to several speakers or listeners, or ongoing exchanges of speech. Finally, ?e·te- seems to mean 'to be sleeping' while ?etten- is 'to fall asleep' (-n 'mediopassive').

What these forms suggest is an aspect-like distinction expressed by the form of the primary verb stem. Such a system might be something like:

 $^{\rm C_1V_1C_2C_2V_2}$ 'semelfactive' or 'momentaneous' or 'punctual'

C₁V₁·C₂V₂ 'iterative' or 'distributive' or 'durative' or 'continuative'

This would leave any stem with a third consonant mostly

¹²² The 'continuative' stem form ri-ča- might also occur in the following exchange:

hattestuk makam ri·ča 'With whom do you (plural) speak?'

diyo·stuk makke ri·ča 'We speak with God'
(hattestuk 'with whom?', makam 'you [plural]',
diyo·stuk 'God [comitative]', makke 'we
[inclusive]')

The verb here might be more correctly glossed as 'speak all the time' or 'speak habitually' or the like. In another context, however, Mrs. Cervantes specifically denied that ri·ča is a word in Mutsun: one cannot say *ri·čaka, only riččaka 'I am speaking' (-ka 'I'). This may imply a mishearing, or perhaps that ri·ča can be used only with a plural subject. There might also be confusion with ri·či- 'to speak (to)'. The etymological or morphological relationship between ričča- and ri·či- is unknown. Further information is required to untangle these attestations.

outside of the system, since all stems with three consonants have identical derived stems, ${^{C}}_{1}{^{V}}_{1}{^{C}}_{2}{^{C}}_{3}{^{V}}_{2}$, a form which makes long vowels phonotactically impossible (see sec. 135). The aspect distinction could be maintained only when the primary stem of the verb occurred and, as noted, this is fairly infrequently.

Unfortunately, there are no more clear examples to corroborate or even refute such a proposal. 123 If the system is a legitimate one, more data will have to be examined to work out its details. On the other hand, it is possible that Harrington has uncovered the remnants of a once productive stem

123 There are, however, ambiguous examples. Compare: po to- 'to pull out hair, pluck out feathers' putki- 'to pull out a handful of hair' The first form is glossed more completely as 'arrancar el pelo
...a jalones' ('to pull out [someone's] hair in tugs') implying pulling out much hair, or completely plucking a chicken. The second form, on the other hand, is clearly glossed with a semelfactive sense. The former 'durative' or 'distributive' form does indeed have a long first vowel, and the latter 'semelfactive' form has a short vowel. The difference in vowel quality, however, does not seem to fit the pattern, though it does bear a striking resemblance to what happens in Wikchamni Yokuts where underlying short \underline{o} is raised to \underline{u} when the next vowel following is i (Gamble 1975:25; Newman [1944:26] describes this process but in different terms). a vowel harmony rule such as that in Wikchmani were at one time functioning in Mutsun (or Costanoan), then the underlying forms of the two stems in question may have been ||po·toll

||potkill (→ /putki/ by the vowel harmony rule)
Of course, this is sheer speculation and is riddled with
problems. A major problem is the status, both in terms of
semantics and morphology, of -ki. It may be that this stemderiving suffix is responsible for the 'semelfactive' sense
of putki-, and vowel length is irrelevant or secondary.
Furthermore, the noun put (||pu・t||) 'feather' is probably
involved somehow in all this.

What this example shows is that the 'semelfactive'/
'durative' stem pairs found in Mutsun may be relics of a
far more widespread and complex process, perhaps having
implications for the historical development of Penutian as
a whole.

aspect system. 124 For the present description, such stem pairs will have to be regarded as if independent, unrelated stems. This sleight of hand does not affect the analysis as a whole; it merely removes the problem of related stems to one of diachrony and, therefore, a future study.

412. Stem-deriving suffixes

As noted earlier, there is some evidence that the third consonant, or final CV, of some verb stems is (or was) a suffix; -wV, with the sense of 'undoing' the action otherwise signified by the verb stem, was given as an example (sec. 222.2).

One such suffix is discussed by Arroyo in his Grammar (1861:18-30). He refers to two types of verbs, singular and plural, exemplified by the verb 'to give' (hara-, in Harring-ton's data):

Verbo singular: Ara, Dar. Verbo colectivo, o Verbo plural: Arsa, Dar tambien, pero Dar a muchos, o Dar mucho. [1861:19]

(Singular verb: hara- 'to give'. Collective or plural verb: harsa- also 'to give', but 'to give to many' or 'to give much'.)

The difference, formally, is the presence or absence of a third consonant -s-. Mason (1916:420) also discusses this

⁻s-:

The only similar pair of primary noun stems is 'issir and 'isir. There is some confusion as to their meaning: one means 'dirt of the head, dandruff' while the other is 'body dirt, grease'. The problem is that the informant reversed herself on several occasions, but the latest hearing had 'isir referring to 'dandruff'. This set exhibits a phenomenon more in the nature of sound symbolism than anything else.

De la Cuesta pays considerable attention to this suffix in his grammar, suggesting that it is frequent with every verbal stem. Strangely, very few unquestionable examples are found in the phrase-book.

Mason's evaluation is reflected in Harrington's data. Arroyo's 'collective' or 'plural' -s- is found, though only rarely.

Only one of Mason's examples is recorded by Harrington:

semmon- 'to die' semson- 'many to die'

The two forms are found in contexts which support Arroyo's and Mason's characterization of -s-:

kata semmonin hemeč?a ?ama 'Somebody died'
 (literally: 'It seems as though one person
 died')

(kata 'like, as, seems', semmonin 'died'
[past tense of semmon-], hemeč?a 'one',
?ama 'body, person')

hiruhmin makse semson hatkun 'All of us (will) die suddenly'

(hiruhmin 'all', makse 'we [exclusive]', semson 'many die', hatkun 'die suddenly')

The 'collective' or 'plural' -s- is found in other words as well:

tersey tappur 'Break (chop) the wood (e.g., with an axe)!'

tappur tersehmin 'cut wood' (wood that has been cut and is ready to burn)

(tappur 'wood', tersey 'break! chop!', tersehmin 'something already cut'; the second phrase is a noun compound)

tere puyme men-tu·ris 'Cut your fingernails!' (tere puy 'cut yourself!', -me 'you', men-

'your', tu·ris 'fingernail[s]')

The sense of terse- is one of repeated action, either due to repeated blows with an axe, or due to cutting through many logs. The reflexive tere pu- (< ||tere || + -pu 'reflexive') implies action upon a single person, in this case, 'you'.

ha tastap '(it) was stolen'

'ekweme hatsa 'Don't go around stealing!'

(ha ta 'to steal', -stap 'passive, past

tense', 'ekwe 'not', -me 'you')

Harrington glosses hatsa as 'to be stealing'; it seems to be a continuative or habitual form, with an -s-, as distinguished from hata- which, in the passive at any rate, seems to refer to a single crime.

yete murtey horpeywas 'etse 'They will be sleeping at midnight'
(yete 'later', murtey horpeywas 'at midnight'
[see footnote 96])

Here, 'etse is glossed by Harrington as 'estan durmiendo' ('they are sleeping') even though there is no overt subject, plural or otherwise, in the sentence. The idea of plurality, then, may reside in the -s-. Compare:

?e.te- 'to be sleeping' (durative?)
?etten- 'to fall asleep' (-n 'mediopassive')

Occasionally, before the reflexive suffix -pu, an -sis found. For example:

?u·hespu- 'to raise oneself up'

cf. ?u·he- 'to raise (something), lift (something)'
The reflexive suffix is always directly preceded by the
primary stem of the verb, and the primary stem may end in a
consonant. Thus, it is possible that this -s- is the same as
the 'plural' or 'distributive' -s- which precedes the second
vowel of derived stems, though the semantic contribution of
-s- before -pu is not known (see sec. 421.4.1).

Not all cases of s as a third consonant involve the 'plural' or 'distributive' -s-; in some cases, s is simply the final consonant of the stem:

'ittas 'new one' 'itsa- 'to be new'
tu·ris 'the cold (weather) tursin- 'to get cold'
yu·mus 'filth' yumsus ymin 'filthy one'

(The nominal primary stems are all related to verb stems in which metathesis has occurred -- see sec. 220.)

Furthermore, in some cases where the -s- is clearly suffixal, its semantic import is obscure:

huppes te } 'smoothed down (hair)'

rukka 'house'

ruksa- 'to make a house'

Exactly how productive the 'plural' -s- might be cannot be determined from the data examined, but it does appear to have been a productive stem-forming element at one time.

Regardless of its status, stems formed with or without -s- and, for that matter, with or without the 'durative' long vowel (sec. 411), or any other third consonant suffix (sec. 222.2), are all treated alike in terms of building up verb themes and full verbs by suffixation. It seems likely that part of the aspectual apparatus of Mutsun resided in its stem formation, though more information is needed to discover the synchronic and/or historic details.

413. Irregular verb stems

There are two verbs, obviously related by sound symbolism, which are irregular in having monosyllabic stems before some suffixes and varying disyllabic stems before others:

mis-
$$\sim$$
 missi- 'to be pretty' mis y - \sim mis y i- 'to be good'

These stems occur as follows:

(1) Before -s^Ymin 'nominalizer; inherent characteristic' and -s^Yte 'perfective', the monosyllabic stem is used and the resulting sibilant cluster is simplified in favor of the stem sibilant: 125

mismin 'pretty one' miste 'pretty' mis^ymin 'good one' mis^yte 'good'

(2) Before -ya 'nominalizer; inherent characteristic, plural', the monosyllabic stem is used:

misya 'pretty ones' mis^yya 'good ones' (unsure)

stems is probably phonological simplification:

*mis(s)isYmin > *mis(s)sYmin > mismin

*misY(sY)isYmin > *misY(sY)sYmin > misYmin

Why such simplification should occur with just these words, and no others, is unknown.

¹²⁵ In these cases, the historical source of the monosyllabic stems is probably phonological simplification:

- (3) Before -mak 'nominalizer; inherent characteristic, plural', the disyllabic stem with geminated sibilant is used:

 missimak 'pretty ones' mis^ys^yimak 'good ones'
- (4) Before -mpi 'mediopassive-causative', the disyllabic stem with a single sibilant is used:

mis impi- 'to make well, cause to be well (done)'

Four other monosyllabic verb stems occur in the data.

Two are shortened versions of disyllabic roots:

kuwa- ~ ko·- 'to say' (cf. sec. 150)
yu·pe ~ yu· 'go!' (occurs as an imperative only)
The third is also probably the result of contraction, though
thereis no corroborating evidence (cf. sec. 150):

ho yni- 'to come to carry' (-yni 'venitive; to come to...')

The fourth is related to a disyllabic stem, though why the final syllable is lost is not known: 126

haypu- 'to see oneself' (-pu 'reflexive')

cf. haywena- 'to go to see' (-na 'andative; to

go to...')

414. Meanings of verb stems

A verb stem with no thematic suffixes may still be a verb theme. In such instances, the various grammatical categories expressed by the thematic suffixes are embodied in the verb stem itself, or else are unmarked. Directionality (andative, 'to go to...'; venitive, 'to come to...') are unmarked in verb stems; aspect is somehow marked ('punctual'

¹²⁶ If the primary stem of haywe- is haye w- or hayyew-, the reflexive should be hay (y) ewpu-.

vs. 'durative' vs. 'iterative', etc.) though the details are not clear (see secs. 411, 412). In terms of transitivity (encompassing voice, causation, reflexivization, reciprocation, benefaction) verb stems are of three types, active, stative and mediopassive.

414.1. Active verb stems

Active verb stems express action of a transitive sort.

The subject is the agent or performer of the action; the object is the receiver of the action. For example:

- ka·nmes lu·yi 'I'm pushing you (as in a swing)'
 (ka·n 'I', -mes 'you [objective]', lu·yi- 'to
 push', -Ø 'non-past' [final suffix])
- ka·nwas hatta 'I'm sweeping it (the ground) clean'
 (ka·n 'I', -was 'it [objective]', hatta- 'to
 sweep clean', -Ø 'non-past')
- wissak pire se 'It (the chicken) is scratching the ground'
 - (wissa- 'to scratch', -Ø 'non-past', -k 'it',
 pire·se 'ground [objective]')
- ?ippiwas ?iččin 'The rattlesnake bit him'
 (?ippi 'rattlesnake', -was 'him', ?ičči 'to bite', -n 'past tense')

Among the active verb stems are those derivationally related to noun stems, where the noun functions more or less as an 'incorporated object' of the verb. The noun may or may not be expressed when such verbs are used. For example:

yete ka poslo 'I will make posole (stew) later'
 (yete 'later', -ka 'I', poslo 'to make posole',
 -Ø 'non-past'; cf. posol 'posole')

sukmuka hemeča suku·me 'I'm smoking a cigarette'
(sukmu- 'to smoke', -Ø 'non-past', -ka 'I',
hemeča 'one', suku·me 'cigarette [objective]')

The object need not always be expressed when an active verb stem is used, and, because of this, a number of active stems may be used intransitively. For example:

ru·nuk penYek 'The cat is purring'
 (ru·nu- 'to purr', -Ø 'non-past', -k 'it',
 penYek 'cat')

Nevertheless, the vast majority of active verbs are truly transitive in that they can take objects. 127 For example:

sinni lolle 'The baby babbles'
lolleka sinnise 'I babble at the baby'
 (lolle- 'to babble [at]', -Ø 'non-past',
 -ka 'I', sinni 'baby', sinnise 'baby
 [objective]')

?ekwe ?irko '(He) doesn't defecate'
motme ?irkon men-koro·se 'Did you defecate on
your legs?'
 (?ekwe 'not', ?irko- 'to defecate [on]', -Ø
 'non-past', -n 'past', mot 'interrogative
 particle', -me 'you', men- 'your', koro·se

Furthermore, when subsequent suffixation is taken into account, the transitive nature of most active verbs can be seen clearly. For example, active verb stems are the only type which may take

'foot, leg [objective]')

the reflexive suffix -pu, since this suffix means that the subject of the verb acts upon itself. In this way, some seemingly intransitive verb stems can be considered regular active verbs. For example:

tawrak 'He's sitting' or 'He sits' (also, 'He
lives [in a place]')
(tawra- 'to sit' -0 'non-past' -k 'he')

(tawra- 'to sit', $-\emptyset$ 'non-past', -k 'he')

ličyeka 'I'm standing'
(licye- 'to stand', -Ø 'non-past', -ka 'I')

but also

takkarpu- 'to sit down, assume a sitting
 position' 128

liččeypu- 'to stand up, assume a standing
position'

Finally, there are a few active verb stems that are inherently imperative, e.g.:

hoṭṭo 'go! scat!'
ha·yi 'come here!'

For further discussion, see sec. 434.6.

414.2. Stative verb stems

Stative verb stems express a state or condition or assumed bodily position; they do not take objects. For example:

sawrek 'It is fat' (e.g., a goose)
 (sawre- 'to be fat, fatty', -Ø 'non-past',
 -k 'it')

ropto men-hi(·)n 'Your face is dirty'
(ropto- 'to be dirty', -Ø 'non-past',

¹²⁸On the relationship between takkar- and tawra-, see sec. 222.3.

men- 'your', hi[']n 'face, eyes')

parki lawan 'The bow is heavy'

(parki- 'to be heavy, weigh much',
non-past', lawan 'bow')

matlak 'e·te' He is sleeping (lying) face down'

(matla- 'to be face down, in a prone position',

-ø 'non-past', 'e·te- 'to be sleeping', 129 -ø

'non-past')

Stative verb stems occur quite frequently with the nominalizing thematic suffixes -hmin and -s^Ymin 'inherent characteristic' and -mak 'inherent characteristic, plural'. In fact, some stative verb stems occur only before one or another of these thematic suffixes. Compare, for instance:

čupka 'is white' (čupka- 'to be white', -∅ 'non-past')

čupkas^ymin 'white one' čupkamak 'white ones'

taskuhmin 'red one' taskumak 'red ones'

A non-nominalized stative verb *tasku 'is red' is not attested.
Whether such gaps are fortuitous is not known.

414.3. Mediopassive verb stems

A third type of verb stem is 'mediopassive', always occurring with a mediopassive suffix. These stems are discussed in sec. 421.1.

420. Thematic suffixes

A verb stem may be followed by up to two thematic suffixes 129 Perhaps ?e·te- 'to be sleeping' can be interpreted as a stative verb as well, meaning 'to be in a state of sleep'. in forming a verb theme. The thematic suffixes modify the basic meaning of the verb stem in terms of transitivity, aspect and/or directionality; some thematic suffixes are nominalizing in force, producing noun themes. Final suffixes (sec. 430) may further affect the transitivity and aspect of the stem, and may also change its mode from indicative to imperative. When no thematic suffix follows a verb stem, the resulting verb theme has the aspect and transitivity (active or stative) of the stem itself, and is unmarked for directionality.

421. Transitivity suffixes

For the most part, a verb stem may be followed by at most one transitivity suffix. There may be two transitivity suffixes, however, only if the second is 'benefactive' (sec. 421.3).

421.1. Voice: -n ~ -ni 'mediopassive'

The mediopassive suffix is -n before the final tense suffix $-\emptyset$ 'non-past' and -ni elsewhere (i.e., before any other suffix). In most cases, the suffix indicates that

There are three exceptional forms in which -ni, rather than -n, seems to occur before -Ø 'non-past':

ka·n lisysyeni 'I am thinking about doing it (the
work); I intend to do it'
cf. lisysyenka 'I do work'

In the second phrase, the mediopassive suffix is -n as would be expected (lisysye-n- 'to do work', $-\emptyset$ 'non-past', -ka 'I'). The final i of the first phrase is unexplained, as is the difference in glosses between the two entries. Perhaps there is another suffix involved here which just happens to not occur elsewhere in the data. Exactly why 'to do work' should be a mediopassive verb is also unclear.

The other two exceptions are:
 hassenik 'he got angry'
 (-k 'he'; rather than hassenak, with -ak 'he')

something happens to the subject, whether caused by the subject himself or by some irrelevant agent. 131 Glosses of mediopassive verbs often take the form 'to become...' or 'to get...'. For example:

yetek malan 'He will get wet later'
 (yete 'later', -k 'he', mala-n- 'to get wet',
 -Ø 'non-past')

hurčaninka 'I got drunk'

(hurca-ni- 'to get drunk' [< Spanish borracho
'drunk' ?], -n 'past', -ka 'I')

halkaninak 'He became blind'
 (halka-ni- 'to become blind', -n 'past',
 -ak 'he')

čorkon si 'The water is drying up'
(čorko-n- 'to get dry, dry up', -Ø 'nonpast', si 'water')

Along these same lines, some mediopassive verbs simply refer to happenings beyond the subject's control, such as:

ţuppini

in: ka n tuppini 'I got pricked in the eye'
This is doubly exceptional because of the past tense of the
gloss. The normal past tense would be tuppinin (-n 'past'
following -ni 'mediopassive'); this is also attested, implying
that the tuppini form is an error. The 'past tense' tuppinin
also occurs, however, with a future tense gloss:

ka·n yete tuppinin 'I will get pricked in the eye'
 (ka·n 'I', yete 'later')

Harrington expressed some surprise at all these forms, but reheard them several times and insists that, phonologically at least, they are correct. Since this is a unique occurrence, its status cannot be assessed.

¹³¹ The term 'mediopassive' for this suffix was first used by Michael Silverstein (1975:377), though he used the phrase 'mediopassive-adjectival'. Mason (1916:416) isolated the suffix as -ni and termed it 'intransitive'.

```
?innanme 'You fall down'
    (?inna-n- 'to fall down', -Ø 'non-past',
    -me 'you')

mitten sinni 'The child is growing'
    (mitte-n- 'to grow', -Ø 'non-past', sinni
    'child, baby')

hinnuninka 'I woke up'
    (hinnu-ni- 'to wake up', -n 'past', -ka 'I')

semmoninak 'He died'
    (semmo-ni- 'to die', -n 'past', -ak 'he')
```

The mediopassive verbs are not stative, since they refer to some change of state or some sort of action. They are not active since the subject of the verb is not the one performing the action or causing the change of state, but rather is the recipient. Furthermore, they are not passive since no agent is implied.

There are a number of active stems which may become mediopassive themes by the addition of the mediopassive suffix. For example:

Similarly, stative verb stems may be the basis of mediopassive themes by the addition of the mediopassive

suffix. Such themes mean 'to become...' or 'to attain...' the state expressed in the stem. For example:

?awye- 'to be awake'
?awye-n- 'to wake up'
?ekte- 'to be evil, bad'
?ekte-n- 'to become evil'

A particularly interesting subset of these stative-mediopassive pairs involves words referring to temperature. When the subject is the weather, the stative form is used; when the subject is a person, the mediopassive form is used, implying that the subject becomes warm or cold. For example:

mus^Ys^Yi pire 'It's warm' (literally: 'The world is warm')

(mus^Ys^Yi- 'to be warm', -Ø 'non-past', pire 'world, land, earth')

mus^Ys^Yinka 'I am warm' (better: 'I become warm')

(mus^Ys^Yi-n- 'to be/get warm', -Ø 'non-past', -ka 'I')

Compare also:

pa·či- 'to be icy cold' pa·či-n- 'to be/get icy cold' mu·hi- 'to be hot' mu·hi-n- 'to be/get hot'

The mediopassive temperature verbs indicate that the subject experiences the temperature. In fact, experiential verbs in general are mediopassive, including verbs expressing emotional states. For example:

tumsanme 'You enjoy the taste (of something)' (tumsa-n- 'to enjoy the taste', -Ø 'non-past', -me 'you')

lilwinak 'He is having a good time, is enjoying
 himself'
 (lilwi-n- 'to have a good time, enjoy oneself',
 -Ø 'non-past', -ak 'he')
čakkuninka 'I became sad'
 (čakku-ni- 'to become sad', -n 'past', -ka 'I')

Finally, there are certain motion verbs which occur only with mediopassive -n(i). The exact semantic function of the mediopassive in these cases is not entirely clear, unless it expresses the idea that the subject is somehow put into motion. Some of these motion verbs are:

ta·ka-n- 'to come' (cf. wa·te- 'id.')

tokke-n- 'to run'

molyo-n- 'to dance the mo·loy [woman's dance]'

watti-n- 'to go (away)' (cf. wa·te- 'to come')

hummu-n- 'to fly'

humme-n- 'to move to and fro'

hiwa-n- 'to arrive' (||hiwa·-ni-||)

ha·he-n- 'to flee'

latwe-n- 'to descend' (cf. hope- 'to ascend')

'iččo-n- 'to go out'

latwe-n- 'to enter'

Mediopassive verbs occasionally occur with objects.

Most often they occur with the experiential verbs. The object
then expresses what has produced the experience or emotion:

Harrington terms ?iččon and ?akkun 'inchoatives'. He seems to have analyzed the suffix -n as an inchoative suffix on all verbs, perhaps considering verbs here glossed as 'to get to...' or 'to become...' as meaning 'to begin to...' or 'to begin to do...'. No such interpretation seems justified, however, when considering the data all together. ?iččon and ?akkun do make sense as mediopassives if they are interpreted as 'to get out' and 'to get in' as opposed to 'to move oneself out' or 'to move oneself in'.

- yetekwas wallun 'He will be envious of him later' (yete 'later', -k 'he', -was 'him', wallu-n-'to be envious [of], to feel envy [for]', -Ø 'non-past')
- ti rukames hiwsen 'I like you very much'

 (ti ru 'much', -ka 'I', -mes 'you [objective]',

 hiwse-n- 'to like', -Ø 'non-past')
- ka nwas hassenis 'I became angry with him'
 (ka n 'I', -was 'him', hasse-ni- 'to become
 angry, feel anger [for, about, with]', -s
 'remote past')
- lelseninka neppese 'I was pleased with this (one)'
 (lelse-ni- 'to be pleased, happy [with]', -n
 'past', -ka 'I', neppese 'this [one][objective]')
- hessonit 'Hate me!'

 (hesso-ni- 'to hate, feel disgust [for], be
 disgusted [by]', -t 'imperative, first person
 object')

Other objects occurring with mediopassive verbs express various relationships between the verb and object, but never that of 'receiver of action' as would be the case with an active verb:

- 'Blood is coming out of me')

 ('iččo-n- 'to come out', -Ø 'non-past',
 kannis 'me', pat ytan 'blood')
- tappanmes men-sumrero 'Your hat fits you'

 (tappa-n- 'to fit, be suitable for', -Ø

 'non-past', -mes 'you [objective]', men'your', sumrero 'hat' [< Spanish sombrero])
- wak tokkenis haysane 'He ran away from them'
 (wak 'he', tokke-ni- 'to run [away from]',
 -s 'remote past', haysane 'them')

yu·mete hiṣ Yṣ Yen pire·se 'and you will become earth'

(yu· 'and', -me [or -m] 'you', -te [or -ete]

shortened from yete 'later', hiṣ Yṣ Ye-n- 'to

become, turn into', -Ø 'non-past', pire·se
'world, land, ground, earth [objective]')

There are some verb stems which never occur witout a mediopassive suffix, whether it be a simple mediopassive -n(i) or one of the other mediopassive suffixes (see secs. 421.2.1, 424.6). The lack of non-mediopassive counterparts to these verbs is not due to a gap in the data; such forms are specifically denied by Mrs. Cervantes. For example, the following occur only as mediopassives:

tokke-n- 'to run'

'istu-n- 'to dream'

ta·pi-n- 'to fit, to suit'

pulki-n- 'bottom comes off'

poyko-n- 'to become frightened'

muys Yi-n- 'to like'

hihro-n- 'to slip, to slide'

lelse-n- 'to be pleased, happy'

momme-n- 'to be late, delayed'

The implication of this is that there are not two, but three kinds of verb stems: active and stative, which take no specific voice suffix, and mediopassive, which always takes a voice suffix. In addition, as has been noted, some active and stative stems may take a mediopassive suffix to form a mediopassive theme.

Though the active/stative vs. mediopassive distinction holds up in a majority of cases, the exact relationship between the two is not always clear cut, particularly regarding

semantics. There remain a few verb pairs, one member of each lacking a mediopassive suffix, one taking it, with no apparent difference in meaning or use. How many of these pairs might be errors cannot be determined from the data examined. Examples are:

pusre-/pusre-n- 'to blow (as part of doctoring)'
sa·we-/sa·we-n- 'to sing'
hinwi-/hinwi-n- 'to remember'

Only one voice suffix may occur per verb. Thus, verbs with -n(i) cannot be followed by nominalizing suffixes with mediopassive force (sec. 424.6) or by final suffixes associated with voice (passive, sec. 433). Furthermore, verbs in -n(i) cannot be followed by a perfective suffix, which includes certain voice-like characteristics (sec. 432).

421.2. Causatives

421.2.1. -mpi 'mediopassive-causative'

This suffix is probably historically a sequence of two suffixes, the first being -n 'mediopassive', the second -pi, perhaps 'causative'. Synchronically, it is occasionally recorded as /-npi/, betraying its origins, though the assimilated /-mpi/ occurs essentially all of the time. The suffix -pi is, with two ambiguous exceptions, otherwise

¹³³ As might be expected, there is one exception. Harrington gives a form ?a minihne glossed simply as 'creer' ('to believe'). This word consists of ?a ma-ni- 'to believe in' plus -hne 'passive', and thus should mean 'to be believed in' or the like. ?a ma-n(i)- is independently attested; e.g., ?a manka diyo se 'I believe in God' (-Ø 'non-past', -ka 'I', diyo se 'God [objective]'). The 'mediopassive-passive' anomaly is not attested in any sentence, and, therefore, its status is uncertain.

absent from the data. 134 Since -pi has no independent existence, but always functions in tandem with -n, the two are considered synchronically fused into a single monomorphemic suffix -mpi. 135

The meaning of this suffix is both causative and mediopassive: the subject of the verb does something such that the
object is affected in the same way the subject of a plain
mediopassive verb is affected. That is, the subject is
responsible for something happening to the object, or for
the object's experiencing something. Comparisons with plain
mediopassive forms should clarify this:

mala-n- 'to get wet' mala-mpi- 'to cause (someone)

to get wet'

hinnu-n- 'to wake up' hinnu-mpi- 'to cause (someone)

to wake up'

koypo-n- 'to become koypo-mpi- 'to scare (someone)' frightened'

ta·ka-n- 'to come' ta·ka-mpi- 'to bring'

čoppopismak 'Friday of Lent'

motytyolpiksi 'to make (someone) bend down'
The first word is related to a reflexive verb theme coppopu'to fast', but this is itself an unsure form. 'Friday of Lent'
seems to be made up of a stem coppo- 'to fast', -pi (?), -smak
'nominalizer; habitual agent' and thus should mean 'one (or
those) who cause (someone) to fast'. The semantics are unclear.

The second word is also only a guess on the informant's part in response to Arroyo's motiolpicsi (a form in the unpublished manuscript -- see footnote 10). The form is probably related to motlosyte 'head down' (motlo- 'to be with head down', -syte 'perfective') and might consist of motytyol- 'to be bent down', -pi (?), -ksi 'continuative (?), intensive (?)'. This is the only example of -ksi following anything other than the verb stem directly.

¹³⁴ The two exceptions are these:

¹³⁵ This also makes it unnecessary to explain why -n, rather than -ni, occurs before another suffix.

?iččo-n- 'to come out' ?iččo-mpi- 'to take out'
Though transitive, mediopassive-causative verbs are
different from active verbs. Compare, for instance:
 pette- 'to stick (things) together (e.g., with glue)'
 pette-n- 'to get stuck (together), to get sticky'

The distinction between stative and mediopassivecausatives is more clear cut:

together'

pette-mpi- 'to cause (things) to become stuck

Some examples of mediopassive-causatives in sentences are:

tonnempinka hine rus 'I lost the money'
 (tonne-mpi- 'to lose, cause to get lost',
 -n 'past', -ka 'I', hine rus 'money [objective]'
 [< Spanish dinero])</pre>

mus^ys^yimpit kannis 'Warm me up!'

(mus^ys^yi-mpi- 'to warm up, cause to become warm',

-t 'imperative, first person object', kannis 'me')

me·nwas murtumpin 'You made it black' (e.g., painted something black)

(me·n 'you', -was 'it [objective]', murtu-mpi'to blacken, cause to become black', -n 'past')

ka·n makamse ta·kampi to·tese 'I bring you (plural)
meat'

(ka·n 'I', makamse 'you [plural][objective]', ta·ka-mpi- 'to bring, to cause to come', to·tese 'meat [objective]')

Though mediopassive in orientation, the mediopassive-

causative suffix is a causative suffix and not a voice suffix; thus, there is no prohibition against other voice suffixes following:

?iččompihnis wak-hi(*)n 'His eye was taken out'
 (?iččo-mpi- 'to take out, cause to come out',
 -hnis 'passive, past tense', wak- 'his', hi[*]n
 'face, eye')

Apparently, the mediopassive-causative suffix may be followed by the benefactive suffix (sec. 421.3) in one of the highly rare sequences of two transitivity suffixes. This is exemplified in only one word, however:

?iččompimit sottow 'Take out the fire for me!'
 (?iččo-mpi- 'to take out, cause to come out',
 -mi 'benefactive', -t 'imperative, first person
 object', sottow 'fire')

In the case of verbs with mediopassive stems (see sec. 421.1), the mediopassive-causative suffix is the only means to use the stems in a transitive way. For instance, the stem hinnu- 'to wake up' is a mediopassive stem; to say 'to wake (somebody) up', the mediopassive-causative suffix is employed: 136

ka·n yete hinnumpi wa·kse 'I will wake him up later'
(ka·n 'I', yete 'later', hinnu-mpi 'to wake

¹³⁶ The mediopassive-causative suffix is also found after a reduplicated stem:

ka·nwas tiplilempi 'I make it spin'
 (ka·n 'I', -was 'it [objective]', tiplile-mpi'to cause to be spinning', -Ø 'non-past')

cf. tiplile 'spinning' (e.g., a top)

The existence of the mediopassive-causative suffix with this stem implies the possibility of a theme tiplile-n- (with -n 'mediopassive') which might mean 'to get to be spinning', a mediopassive sense overlapping with the 'inchoative' as proposed by Harrington (see footnote 132).

[someone] up, cause to wake up', -0 'non-past', wa·kse 'him')

*ka·nwas hinnu
(ka·n 'I', -was 'him')

421.2.2. -si 'active-causative'

This suffix is added to active verb stems. It means that the subject of the verb causes the object to perform some action. The relation between the object and an active-causative verb is the same as that between the subject and a plain active verb. For example:

ka nwas lollesi sinnise 'I make the baby babble'
 (ka n 'I', -was 'him', lolle-si- 'cause [someone]
 to babble', -Ø 'non-past', sinnise 'child, baby
 [objective]')

cf. sinni lolle 'The baby babbles'
 (sinni 'child, baby', lolle- 'to babble',
 -Ø 'non-past')

Mason (1916:420) terms this suffix the 'mandative' since it is often glossed as 'to command (someone) to...'. Although the 'mandative' sense is sometimes intended, the suffix seems to have a more general causative meaning. Further examples are:

histames his yesis partre 'What did the Padre have you do?' or 'What did the Padre command you to do?' (hista 'what?', -mes 'you [objective]', his ye's e-si- 'to cause to do', -s 'remote past', partre 'Padre')

Pammasi wakesitnune '(She) feeds her child'
(Pamma-si- 'to give [someone something] to eat,
to cause [someone] to eat', -Ø 'non-past', wake'her', sitnune 'child, offspring [objective]')

421.2.3. -nu 'positional-causative'

This suffix is infrequently attested, but seems to mean 'to cause (someone) to be in a position of/to...'. For example:

cf. ¢ayla- 'to be face up, in a supine position'

matlanun kannis '(He) put me face down'
 (matla-nu- 'to cause [someone] to be in a prone
 position', -n 'past', kannis 'me')
 cf. matla- 'to be face down, in a prone position'

ka·n mu·sinu 'I nurse (the baby)' (literally:
 'I position [the baby so it can] suckle')
 (ka·n 'I', mu·si-nu- 'to cause [someone] to be
 in a suckling position', -Ø 'non-past')
 cf. mu·si- 'to suckle'

In one case the suffix appears to be -ynu:

ka·nwas ?itmaynun 'I lifted it up'
 (ka·n 'I', -was 'it [objective]', ?itma-ynu 'to cause to be in a raised position' [?], -n
 'past')
 cf. ?itma- 'to rise, get up (e.g., in the
 morning)'

421.3. Benefactive: -mi

The benefactive suffix means 'to do (something) for (the benefit of someone else)'. The subject of a benefactive verb is the actor; the beneficiary is an 'indirect object' marked for objective case. Any other objective noun or pronoun is the 'direct object' and is related to the verb in the same way it would be if there were no benefactive idea present.

For example:

```
his ys emik tuti yase mak-makkuhse 'She is making tortillas for her husband'

(his ys e-mi- 'to make [something] for [someone]',

-Ø 'non-past', -k 'she', tuti yase 'tortillas [objective]', wak- 'her', makkuhse 'husband [objective]')
```

honnomit 'Wrap it (e.g., a bow) for me!'

(honno-mi- 'to wrap [something] for [someone]',

-t 'imperative, first person object')

lalkamit kannis 'Bring me geese!'
 (lalka-mi- 'to get [hunt] geese for [someone]',
 -t 'imperative, first person object', kannis
 'me')

The benefactive meaning is clearly brought out in benefactive - non-benefactive pairs, such as:

sikkenme kannise 'You farted on me'
sikkeminme kannise 'id.'
 (sikke- 'to fart [on]', -n 'past', -me
 'you', kannise 'me')

The difference in meaning between the two phrases is described by Mrs. Cervantes:

sikkeminme kannise w[oul]d mean you farted on me because I ordered you to, and w[oul]d not be used....

Thus, in the first sentence, kannise 'me' is merely the direct object, while in the second kannise is apparently both direct object and beneficiary.

In verbs which normally take an indirect object, the contribution of the benefactive suffix is too subtle to be understood without further data. Compare, for example:

monsemit } 'Tell me!' or 'Advise me!'
monset

(monse- 'to tell, to advise', -t 'imperative,
 first person object')

The benefactive suffix is the only transitivity suffix which has been found to occur along with another transitivity suffix. It follows the mediopassive-causative suffix -mpi in: 137

137 In two cases, -mi seems to occur after mediopassive -n, but both are highly problematical examples:

Pinnanmi 'is fallen'
pislanmi 'to be drizzling'
The first form is glossed 'está calleado', presumably California
Spanish for 'está caído' ('is fallen') (cf. 'Pinna-n- 'to fall').
Harrington notes that Mrs. Cervantes agreed that the form was
'indirective' (that is, benefactive). The second form is
glossed 'esta lluviendo finito' ('it is raining thinly, finely'),
'está luviznando' ('it's drizzling') and the like. If -mi in
these forms is indeed benefactive, the usage is apparently
idiomatic, since, despite Harrington's comment, no benefactive
sense can be discerned. The words are also troublesome since
-n, rather than -ni, 'mediopassive' is found before another

-mi may also occur in two other uninterpretable forms. The first, patYtYamin, is glossed 'ganaron a la mujer' ('they won the woman'), elicited in response to Arroyo's (1862: entry no. 2165) Patiamin hac jaunan 'Aposto la mujer' ('I bet the woman' or, if apostó is intended by Arroyo, 'The woman bet'). Harrington's version of Arroyo's phrase would probably be patYtYamin wak hawnan. The verb is based on patYtYa-'to win (a game)' (cf. patYtYa-n-'[game] gets won'). The final -n is presumably 'past tense' (sec. 431.2). The interpretation of the phrase might be 'They won (the game) for the woman' except in Arroyo's phrase, hawnan 'woman, wife' appears in its subjective rather than objective case form.

suffix (cf. sec. 421.1).

The second odd word is 'ittemin, glossed as 'abhorrecen lo que haces' ('they abhor what you do'). It is related to a mediopassive-causative form 'itte-mpi- 'to hate' (i.e., 'to cause to be detestable' or the like). Mrs. Cervantes denied the possibility of an active verb *'itte- or even a plain mediopassive *'itte-n-. If the final -n in 'ittemin is the past tense suffix, the gloss 'abhorrecen', in present tense, is unexplained. The interpretation of this word remains a mystery.

Finally, it is possible that both pat ytyamin and pittemin do not contain the benefactive suffix, but rather end in -min, resembling the nominalizing suffixes -symin and -hmin (sec.

?iččompimit sottow 'Take out the fire for me!'
 (?iččo-mpi-mi- 'to take [something] out, cause
 [something] to come out, for [somebody]', -t
 'imperative, first person object', sottow 'fire')

421.4. Reflexive/reciprocal

The reflexive and reciprocal suffixes follow the primary, rather than the derived, verb stem.

421.4.1. -pu 'reflexive'

In general, -pu added to an active verb stem indicates that the subject acts upon himself. For example:

?ennepuk 'He's painting himself'
 (?enne-pu- 'to paint oneself', -Ø 'non-past',
 -k 'he')

hassapuka 'I like myself'

(hassa-pu- 'to like oneself', -Ø 'non-past',
-ka 'I')

hattapuy tayitmin 'Beat (hit) yourself eight times!'
(hatta-pu- 'to beat oneself [with an implement]',
-y 'imperative', tayitmin 'eight')

Notice that in the last example the imperative suffix -y, normally referring to a third person object, refers back to the subject, as would be expected in a reflexive construction.

The reflexive is also used when the subject does something to or on some part of his body. For example:

ručče-pu- 'to braid one's hair'

cf. ručče- 'to braid (someone else's) hair'

piţţe-pu- 'to tie oneself (e.g., belt, hair)'

^{424.6)} as well as the nominal thematic suffix -min (sec. 323). There is no indication, however, that either of these words is a noun.

cf. pitte- 'to tie (something) up'

male - pu - 'to wet or rub oneself with saliva'

cf. male - (||male | | |) 'to wet or rub (something,
someone) with saliva'

heyes-pu- 'to shave oneself'

cf. heyse- 'to shave (someone else)'

The particular body part affected may be mentioned in sentences involving reflexives of this type. The body part appears in the objective case (except in imperatives -- see sec. 332.1). For example:

pitwipuka ka-?uri se 'I untie my hair'
 (pitwi-pu- 'to untie oneself', -Ø 'non-past',
 -ka 'I', ka- 'my', ?uri se '[head] hair
 [objective]')

lukkapuy men-?uri 'Grease your hair!'
 (lukka-pu- 'to grease oneself', -y 'imperative',
 men- 'your', ?uri 'hair')

motme ?irkopun men-koro·se 'Did you defecate on
 your legs?'
 (mot 'interrogative particle', -me 'you', ?irko-pu 'to defecate on oneself', -n 'past', men- 'your',
 koro·se 'foot, leg [objective]') 138

Related to action directed towards a body part is action directed to the body as a whole; reflexive verbs are used in this function also:

takkarpuy 'Sit!'

(takkar-pu- 'to assume a sitting position, to

138 Compare:

motme 'irkon men-koro'se 'id.'
The difference in meaning is that the reflexive form refers to defecating onto oneself, while the non-reflexive 'irko- 'to defecate (on)' treats the recipient of the action as if not connected to the perpetrator.

put oneself into a sitting position', -y
imperative')

nuyyulpuy 'Stoop over!'
 (nuyyul-pu- 'to assume a stooped-over position,
 to put oneself into a stooped-over position',
 -y 'imperative')

In this function, the reflexive suffix may be added to a stative stem referring to body position. For example:

mattalpuy 'Lie on your stomach!'
 (mattal-pu- 'to put oneself into a prone
 position', -y 'imperative')

When someone other than the subject is put into a particular position (i.e., in non-reflexive verbs), the positional-causative suffix -nu is added to the stative stem; thus, matla-nu-'to put (someone else) into a prone position' (see sec. 421.2.3). The stem here is matla-'to be in a prone position'.

Reflexives differ from mediopassives in that in the former the subject of the verb is the moving force behind whatever happens to him, while in the latter, the agent is unknown or irrelevant. Thus, in the few cases where there are both reflexive and mediopassive verbs built on the same stem, a semantic distinction is possible. For example (-n is 'mediopassive' -- sec. 421.1):

his ys ye-pu- 'to turn oneself into'
his ys ye-n- 'to become;'
cf. his ys ye- 'to do, to make'
hiki-pu- 'to hang oneself'
hiki-n- 'to get hung' (unsure form) (< | hiki |)

Nevertheless, the distinction may be blurred, and there are several pairs of forms, glossed identically by Harrington, whose only semantic difference must be one of emphasis: the mediopassive verbs focus on the subject as being acted upon, while the reflexive verbs focus upon the subject's actions as well. For example:

ročoy-puročyo-n} 'to get snarled, tangled' (e.g., string)

merke-pumerke-n} 'to move, change residence'

Thus, there is apparently some overlap in function between reflexive and mediopassive verbs. This might account for several reflexive verbs which, on semantic grounds, might seem more like 'experiential' mediopassives (cf. sec. 421.1):

čayum-pu- 'to be envious of'
čorok-pu- 'to be sad'
hel^yek-pu- 'to be happy'

With a plural subject, reflexive verbs do not seem to refer to each individual involved acting upon himself, but rather to the group as a whole acting upon the group as a whole. The idea seems to be one of doing something 'amongst oneselves' and, apparently, is distinguished from the reciprocal (sec. 421.4.2) which implies a group of two or more individuals acting upon each other in the same way at the same time. Examples of plural reflexives are:

Perhaps reflexive verbs with plural subjects are ambiguous, meaning either 'to do (something) as a group amongst oneselves' or 'to do (something) individually to oneself'. Thus, Harrington gives both of the following sentences:

monoypu 'está jugando' ('[He] is playing')

pistupu haysa 'They are pinching one another'

(pistu-pu- 'to pinch oneself', -Ø 'non-past',
haysa 'they')

makam riččapu 'You (plural) are talking (amongst yourselves)'

(makam 'you [plural]', ričča-pu- 'to speak to/
amongst oneself [oneselves]', -∅ 'non-past')

cf. ričča haysa ri·časum 'They are speaking their language'

(ričča- 'to speak', -Ø 'non-past', haysa 'they'
or 'their', ri časum 'language, speech, words
[instrumental]'; the idea of 'amongst themselves'
is lacking from this non-reflexive verb)

There are a number of reflexive verbs for which the reflexive suffix seems to be used idiomatically, for there is no obvious reflexive sense. Some of these verbs are glossed identically to their active counterparts:

cosse-pucosse-pucosse

Pekwe makam monoypu 'no esten jugando vds.' ('Don't [you-plural] be playing!')

The sense of monoypu is clearly sexual (cf. monyo- 'to be whorish, do whorish things'), thus the 'playing' of the glosses is sexual play. The singular gloss for the first phrase implies masturbation ('to play with oneself'); the second sentence may mean 'Don't fool around amongst yourselves sexually!' or 'Don't (you-plural) masturbate!'. The euphemistic glosses hide whether one or the other or both interpretations might be possible. (The word for 'to copulate' is not reflexive, but reciprocal: yossomu- 'to copulate with each other'. This too is given a euphemistic Spanish gloss, 'se estan enamorando' ['they are loving each other'].)

Other examples of the reflexive used idiomatically are:

halas-pu- 'to lie, to fib'

cf. halsas min 'liar' (-s min 'nominalizer;
inherent characteristic')

'amen-pu- 'to cloud up' 140

cf. 'amne- 'to rain (on)'

mučuw-pu- 'to eat breakfast'

?ussu-pu- 'to fast'

Finally, in a few reflexive verbs, a stem final s occurs before the suffix -pu which does not occur in non-reflexive forms. For example:

ka·n ?u·hespu 'I raise myself up (for God)'
 (ka·n 'I', ?u·hes-pu- 'to raise oneself up',
 -Ø 'non-past')
 cf. ?u·he- 'to raise, lift'

?ekweme yummespu 'Don't be lying, cheating'
 (?ekwe 'not', -me 'you', yummes-pu- 'to be lying,
 cheating, misleading', -Ø 'non-past')
 cf. yumme- 'to cheat, lie, mislead'

The exact semantic and morphological contribution of this s is not clear. It is part of the stem, since -pu always follows the stem directly. The status of s as the third consonant in stems was discussed in sec. 412 where it was suggested that it might have an 'iterative' or 'distributive' or 'plural'

usage is not really idiomatic at all.

Perhaps, then, 'amen-pu- literally means 'to put water all over (something)'. If so, the reflexive

sense. Such might be the case here too, though there is too little data to be sure. The gloss of 'u'hespu as 'raise one-self to God' (although nothing directly corresponding to 'to God' is in the Mutsun phrase) suggests a repeated or habitual activity as part of religious ritual. The Spanish gloss of 'ekweme yummespu is 'no vengas engañando' ('don't come deceiving!'), implying 'don't be prepared to lie!', perhaps some kind of directive for habitual behavior. The kind of evidence needed to figure out what this s is all about is a pair of reflexive forms built on the same stem, one with and one without the s. No such pair is found in the data. 141 Thus, as with almost all third consonants of stems, the s must, at least for the time being, be treated as a stem-

The closest thing to such a pair is: 'ahhes-pu-'to brush one's hair'

Paha pure 'to comb one's hair'
The first form, with the s, is related to a noun Pahhes 'soaproot brush' also with an s, though it may not be the same one (cf. -s 'nominalizer; instrumental', sec. 424.2). There is another word for 'brush', either Pahha or Pahhas, which, if not an error for Pahhes, might be related to the second form above. The relation between the noun (or nouns) and reflexive verbs is not known since there are no other related forms. The difference in vowels between the reflexive verbs is another problem. The difference in English glosses is probably irrelevant. In short, little can be gleaned from the pair regarding stem-final s.

Another possible pair is ?annas-pu-/?anna-pu-. The former is glossed only as 'to pity' and is entered with no context. The latter occurs in the phrase:

haysa 'annapu henti 'the poor people'

(haysa 'they', henti 'people' [< Spanish gente])

Both are related to 'anna-n- 'to pity' and, by extension, 'to pardon'. If 'annapu- is given its most straightforward interpretation, it might mean 'to pity oneself'. The phrase would then mean 'they pity themselves, the people' or simply 'the people pity themselves'. Whatever the semantics of 'anna-pu-, they do not help in determining the value of s in 'annas-pu-, or how 'annas-pu- differs from 'anna-n-.

deriving suffix of 'unknown significance' (cf. sec. 222.2).

421.4.2. -mu 'reciprocal'

This suffix signifies identical or complementary action on the part of two or more subjects towards each other. All reciprocal verbs take plural subjects. For example:

hi·womu haysa 'They are quarreling'

(hi·wo-mu- 'to quarrel, to scold each other',

-Ø 'non-past', haysa 'they')

cf. hi·wo- 'to scold'

Other examples of reciprocal verbs are:

nimmi-mu- 'to fight with each other'
cf. nimmi- 'to fight'

?issu-mu- 'to play the hand game with each other'
cf. ?issu- 'to play the hand game'

keye -mu 'to elbow each other, to jostle each
 other with the elbow'
 cf. keye (||keye ||) 'to jostle with the elbow'

422. Aspect

Three thematic suffixes indicating some aspectual notion have been found. As noted earlier, aspect seems to have been signified in the verb stem itself, though the details have not been worked out (see secs. 411, 412). Aspectual thematic suffixes are in complementary distribution with each other, but not with the transitivity thematic suffixes which they may follow. The aspectual suffixes are not clearly found with other thematic suffixes, but whether this is a systematic prohibition or an accident of the data is not known.

422.1. -ti 'continuative; to go along ...-ing, to ... along'

The meaning of this suffix is best illustrated by Harrington's gloss for 'ammatika (< 'amma-ti- 'to go along eating', -Ø 'non-past', -ka 'I'):

voy comiendo [I go eating]. I walk along (e.g. street) and eat at the same time.

Thus, the activity is not finite, but extends over a period of time. Other examples are:

čitte-ti- 'to go along dancing' < čitte- 'to dance' ričča-ti- 'to go along talking' < ričča- 'to speak'

The suffix may follow transitivity suffixes such as -ni 'mediopassive' and -mi 'benefactive' (sec. 421). For example:

hasli-ni-ti- 'to go along with fear' < hasli-ni- 'to be afraid'

hilsi-mi-ti- 'to go along begging for someone else' < hilsi-mi- 'to beg for someone else'

Some examples of -ti in sentences are:

- yete kammes hummiti 'I will treat you (to something)'
 (yete 'later', -kammes 'I-you', hummi-ti- 'to
 go along giving', -Ø 'non-past'; thus the subject
 will give not one item just once, but will continue to do so for a little while)
- men hinsuti 'You know what you are doing'

 (men 'you', hinsu-ti- 'to go along knowing [how to do something, or a fact]', -Ø 'non-past'; thus, the subject continues to have knowledge about what he does)
- nu'yatiy men-riččan 'Stop your talking!'

 (nu'ya-ti- 'to keep stopped', -y 'imperative',

 men- 'your', riččan 'talking' [verbal noun --

see sec. 424.1]; that is, 'stop talking and remain not talking!')

-ti is related to the nominal thematic suffix -ti which derives verbs meaning 'to be a...' or 'to go along like a...', again with a clear continuative sense (cf. sec. 322).

It is possible that -ti follows the primary rather than the derived stem, but more evidence is needed to be sure. In all but one case, the stem preceding -ti is in a form which may be either primary or derived. The one example illustrating a primary stem is 'oneyti- 'to go along accompanying' (?) attested in:

?ams, i haysa ?oneyti diyo·se 'so that they might
accompany God' 142
 (?ams, i 'so that', haysa 'they', diyo·se 'God
 [objective]')

The stem is clearly primary in form since it ends in a consonant (?oney-) and is also found before reflexive -pu (?oneypustap 'was accompanied', -stap 'passive, past tense'). What makes ?oneyti- a non-conclusive example of primary stem before -ti is that it was earlier recorded as ?oneyati, certainly an error, but possibly an error for ?onyeti. Furthermore, it is possible that ?oneyti is based on a noun stem ?oney- plus nominal thematic suffix -ti (sec. 322). The noun 'companion' is attested both as ?onyen (which seems to be a verb stem ?onye- plus nominalizing suffix -n [sec. 424.1]) and as plain ?onye. Noun doublets of this type do not occur

¹⁴² The Spanish gloss for this sentence is 'para que acompeñen á Dios'. The stem 'oney- (derived: 'onye-) is always glossed by a form of Spanish acompañar 'to accompany'.

elsewhere in the data. In short, onyeti is part of a set of related terms which seems to have unique properties. As such, it would be nice to have another clearer example before asserting that only primary stems precede -ti.

422.2. -ksi 'continuative, habitual, imperfective, intensive' (?)

The exact meaning of this suffix is not clear, but it does have something to do with intensifying a state or extending an activity. Arroyo (1861:27-8) translated the suffix as 'bien perfectamente' ('perfectly well'), and Mason (1916:421) adopts Kroeber's (1910:253) term 'excellentive'.

The suffix occurs on only fourteen forms in the data examined. Interestingly, it seems to be required with some active verb stems, the unsuffixed stem being specifically denied as grammatical. In such cases, the exact semantic contribution of the suffix is sometimes difficult to discern, though a general notion of continuing, rather than punctual or even repetitive, activity comes through:

ruyṣ^yu-ksi- 'to shake with palsy'
ni·pa-ksi- 'to be teaching' < ni·pa- 'to teach'
hiṣ^yṣ^ye-ksi- 'to be making (things)' < hiṣ^yṣ^ye- 'to
do, to make'

hapu-ksi- 'to be cleaning' (*hapu-)
hense-ksi- 'to be quiet, still' (*hense-)

Perhaps a 'habitual' motion is conveyed in howsoksi- 'to command' which occurs in:

makkes howsoksi '(He) commands us' 143

¹⁴³ Actually, the phrase is taken from Arroyo's manuscript (see footnote 10):

(makkes 'us [exclusive]')

The verb 'to command' also occurs unsuffixed (howso-). Since the phrase with -ksi is in a religious context, it is likely that the one doing the commanding is God or Christ, and that the commanding is a regular or habitual activity.

When added to stative stems, -ksi seems to intensify the state:

yerse-ksi- 'to be all torn up, full of holes' cf. yerse-n- 'to become torn, full of holes'; the mediopassive verb implies an unattested yerse- 'to be torn'

kitsi-ksi- 'to be painted, decorated' pels^Ye-ksi- 'to be soft'. 144

Finally, -ksi seems to have a mediopassive sense, at lease some of the time. Compare:

?e·yo-ksi- 'to be rocking, swinging to and fro'
 (e.g., in a swing)

'e'yo- 'to push (someone) to and fro'

On the other hand, ni·pa-ksi- 'to be teaching' retains its active (and transitive) sense. 145

numan macques onsocsi 'el qe [i.e., que] nos manda' That is, numan makkes howsoksi '(the one) who commands us' (numan 'relative pronoun'). Mrs. Cervantes only responded to the verb, showing that Harrington copied the manuscript incorrectly (it probably reads ousocsi).

¹⁴⁴ Harrington remarks that Mrs. Cervantes did not approve of non-suffixed *pelsye, although pelsyesymin 'soft one' (-symin 'nominalizer; inherent characteristic' -- sec. 424.6) was acceptable. Harrington also notes that another form is possible, but not definite: pelsyeksimin 'one which is soft'. If the form is legitimate, it is unique in having a suffix -min, related to -symin, following -ksi.

 $^{^{145}}$ -ksi occurs after a reduplicated stem hallale- (< halle-, cf. sec. 223.2) in hallaleksi, apparently meaning 'coming in single file'.

422.3. -si

This suffix is difficult to interpret, partially due to lack of understanding of idiomatic California Spanish. When verbs occur both with and without -si, the semantic contribution of the suffix is sometimes translated by the phrase 'no mas' (literally, 'no more' or 'only'). Thus:

kammes nimmi 'yo peleo contigo' ('I fight with you')

(kammes 'I-you' [< ka(·)n 'I', -mes 'you

(objective)'], -Ø 'non-past')

nimmisi 'no mas estas peleando' ('You are fighting "no mas")146

mehehneme 'te miran a ti' ('They look at you')
mehe sihnem 'no mas te estan mirando' ('They are
 looking at you "no mas"')
 (-hne 'passive', -m ~ -me 'you')

The latter two words are really passive, being translated into Spanish actives with third person plural subjects as is normally done in Harrington's data. A closer approximation to their meanings would be 'You are looked at' and 'You are being looked at "no mas":

Perhaps 'no mas' indicates that focus is on an ongoing activity itself, not on its inception or termination. The normal way of saying 'to see' or 'to look at' is mehe'-si-as in:

ka·n mehe·si kahhaye 'I'm looking at the headlouse'
 (ka·n 'I', kahhaye 'headlouse [objective]')

There is nothing in the Mutsun phrase corresponding to a second person pronoun. The subject must have been provided by context.

Non-suffixed mehe- (||mehe·||) is found far less frequently and seems to direct attention to something other than the seeing itself. For example:

mehey minmuy 'Look down!'
 (-y 'imperative', minmuy 'down')

mehet kannis 'Look at me!'

(-t 'imperative, first person object', kannis
'me')

cf. mehe'siy 'Be looking!' or 'Remain looking!'
 (-y 'imperative')

Similarly:

kan mehe mis^Yte kan-hi·num 'I see well with my eyes'
(kan 'I', -Ø 'non-past', mis^Yte 'well, good',
kan- 'my', hi·num 'eyes [instrumental]')

Here there is no activity of 'looking at' in progress at the time of speaking. Along these lines, compare:

?ams.Yi yulke, yu.ka pu.te 'So that (the fire) burns,
I am blowing (at it)'
 (?ams.Yi 'so that', yulke- 'to burn, be burning',
 -Ø 'non-past', yu. 'and, and so', -ka 'I', pu.te'to blow [at, out]', -Ø 'non-past')

pu·tesika sottowe 'I'm blowing at the fire'
 (pu·te-si- 'to be blowing [at]', -Ø 'non-past',
 -ka 'I', sottowe 'fire [objective]')

The second sentence is translated in Spanish as 'aquí estoy soplando la lumbre' ('here I am blowing at the fire') implying that the activity is already in progress, with no implications of its inception, or else that only the 'blowing' is referred to, the function or goal of the activity (to keep the fire going) being irrelevant. The non-suffixed puriter is used where the activity serves some function beyond itself.

Unfortunately, not all forms in -si obviously fit into this semantic area of a 'single, in-progress activity', implying that the characterization presented is deficient (if not entirely incorrect). Other examples of -si are:

dio·s kannis yete ?uṭṭasi 'God will take care of me'
 (dio·s 'God', kannis 'me', yete 'later',
 ?uṭṭa-si- 'to take care of', -Ø 'non-past')

?ukki-si- 'to drink' (cf. ?amma- 'to eat')

hoṭwe-si- 'to serve oneself'

tiswi-si-yni- 'to come to judge'
 (-yni 'venitive; to come to...')

setne-si- 'to make acorn bread' (*setne- is denied)

It should be added that, due to a gap in the data, there

is no way to know whether -si occurs before primary or derived stems.

423. Directional suffixes

423.1. -na ~ -yku 'andative; to go to...'

These two andative suffixes can be considered suppletive variants. -na occurs only before the final tense suffix -Ø 'non-past'; -yku occurs before -n 'past' and -s 'remote past'. For example:

?oto naka yu kise 'I go to gather acorns'
 (?oto na- 'to go to gather', -Ø 'non-past',
-ka 'I', yu kise 'acorns [objective]')

huyninaka kalletka 'I go to fish in the sea' (huyni-na- 'to go to fish', -Ø 'non-past', -ka 'I', kalletka 'sea [locative]')

hit Yt e makke haywena takkas min si se 'Let's go and see the hot springs'

(hit^Yt^Ye 'go!', makke 'we [inclusive]' [> 'let's go!'], haywe-na- 'to go to see', -Ø 'non-past', takkas^Ymin 'hot one', si·se 'water [objective]' [> 'hot springs (objective)'])

makse tawraykun rammay 'We went to be (literally: sit)
inside'

(makse 'we [exclusive]', tawra-yku- 'went to sit',
-n 'past', rammay 'inside')

?inyusak hakwaykus 'He went along the road to go to get mussels'

('inyu- 'to travel along [the road]', -s 'remote past', -ak 'he', hakwa-yku- 'went to get mussels', -s 'remote past')

-na is frequently found after verb stems derived from nouns, with the meaning 'to go to gather...' or 'to go use...':

lalka-na- 'to go to gather geese' < la lak 'goose' pakču-na- 'to go to play ball' < pa kuč 'ball'

This state of affairs led Mason (1916:412) to classify -na as a verbalizing suffix attached to noun stems. The present analysis sees the noun and verb stems as related, but with -na following a verb stem, not a noun stem. Thus, when in Harrington's data -na is found after a stem which is otherwise attested only as a noun stem, e.g., mi'sa-na- 'to go to Mass' (cf. mi'sa 'Mass' [< Spanish misa]), under the view proposed here mi'sa- must be a (derived) verb stem for which a generalized gloss such as 'to have to do with Mass' might be appropriate.

The andative suffix is found after -pu 'reflexive' in:

li·ki-pu-na- 'to go to kill oneself'

cf. li·ki-na- 'to go kill (somebody, something else)'

Whether it can occur in combination with other thematic suffixes is unknown. 147

For the imperative, a special 'andative-imperative' suffix is used, -yis (sec. 434.5).

423.2. su 'andative; to go to...'

This second andative suffix is attested only once:

mučuw-pu-su- 'to go to eat breakfast' cf. mučuw-pu- 'to eat breakfast'

How it is distinguished from -na ~ -yku cannot be determined. 148

423.3. -yni 'venitive; to come to...'

Unlike the andative -na ~ -yku, this venitive suffix

Arroyo (1861:45) admits to having had a hard time distinguishing the two, but he observed that -na is used when the subject will return rather soon, or goes to a nearby place; -su is used when the subject will not return soon or goes to a distant place. (Also, a non-suffixed verb is used when the subject moves only a few steps or not at all in order to do something.)

Since Mason and Arroyo disagree with each other, we can only hope that the unexamined Harrington data contain the answer.

¹⁴⁷ In one case, the semantics of the andative are unusual. Harrington glosses wa·teykun an 'anduvo' ('[he] went, came, moved along'), calling it the 'past aorist' of wa·tena. (Indeed, Mrs. Cervantes's denial of *wa·tenan and *wa·tenas is the basis for considering -na and -yku together.) The peculiarity is that the stem, wa·te-, means 'to come', so that wa·teykun is literally 'went to come' or the like. Interestingly, wa·te- does not occur in the past tense except in these andative forms. Perhaps, under circumstances not yet known, the andative is required as part of past tense formation, though this still leaves the non-past wa·tena unexplained (or, as an expedient, 'idiomatic').

^{148&}lt;sub>Mason</sub> (1916:420-21) distinguishes them as follows:

The first, -na, denotes motion to a distant place or outdoors... The second, -su, denotes motion to a nearby place or indoors.

occurs with all three tense suffixes. For example:

?ammaynika 'I come to eat'
 (?amma-yni- 'to come to eat', -Ø 'non-past',
 -ka 'I')

wa k ?at monseynis 'He came to tell (God)'
 (wa k 'he', ?at particle, significance
 unknown', monse-yni- 'to come to tell',
 -s 'remote past')

The suffix can probably be used with an imperative suffix following as well, though Harrington tags the one attestation as only 'App[arently]' legitimate:

?ammayniy 'Come to eat!'
 (?amma-yni- 'to come to eat', -y 'imperative')

Like the andative, the venitive occurs after the reflexive suffix -pu, though whether it can occur with other thematic suffixes is unknown. An example with the reflexive is:

ware -pu-yni- 'to come to visit'

There may be a historic connection between the venitive -yni and the locative demonstrative ni(·) 'here' (sec. 362.1).

423.4. -wu 'venitive; to come to...'

A second venitive suffix is attested very rarely:

ha·yi 'ammawuy 'Come to eat!'

(ha·yi 'come here!', 'amma-wu- 'to come to
eat', -y 'imperative')

This sentence was actually glossed in the present, probably an error due to the recentness of the -n 'past' suffix. A more revealing gloss might be 'I have come to see you'.

ha·yi čittewuy 'Come to dance!'

(ha·yi 'come here!', čitte-wu- 'to come to dance', -y 'imperative')

A non-imperative example is also found which may give some clue as to how the two venitive suffixes are distinguished from each other:

?ammawuka 'I will come to eat'
 (?amma-wu- 'to come to eat', -Ø 'non-past',
 -ka 'I')

The notion of futurity of the gloss (Spanish: 'yo voy a venir a comer despues' ['I am going to come to eat later']) is unexplained unless it has something to do with the venitive -wu. The other venitive, -yni, is found with no such notion:

?ammaynika 'I come to eat'

(Spanish: 'vengo a comer'). Perhaps tense is not so much involved here as is physical proximity. Thus, maybe -yni is used when the subject is relatively near the goal (the place to which he is coming); then -wu is used when the goal is farther away. Without more data, this remains pure conjecture.

The venitive -wu is found after the mediopassive suffix -n(i); whether it can occur with other thematic suffixes is unknown:

424. Nominalizing suffixes

When a nominalizing suffix is added to a verb stem, it forms a noun theme (see sec. 300).

424.1. -n 'nominalizer; passive (?)'

When added to an active verb stem, this suffix denotes 'that which is acted upon' or 'that which results from (the action).'. 150 For example:

Pamman 'food, meal' Pamma- 'to eat'
Petsen 'supper' Petse- 'to eat supper'
Price 'that which is Price 'to speak'

said'

cf. rica 'language, speech, words'

pitten 'tied up Pitte- 'to tie up'

bundle'

The derived noun themes, like all noun themes, are followed by the appropriate final case suffix. For example:

his ys yeka ammane 'I make the meal'

(his ys ye- 'to make', -Ø 'non-past', -ka 'I',

amma-n- 'meal', -e 'objective case')

On occasion, Harrington refers to nouns in -n as 'verbal nouns', not only because they are based on verb stems, but also because of their syntactic behavior. The syntax of 'verbal nouns' is not well illustrated in the data examined, but, at least under certain, as yet unclear, conditions, they occur as if verbs in subordinate clauses. For example:

nu yatiy men-riččan 'Stop your talking!'

(nu ya-ti- 'to stop [doing something]', -y

'imperative', men- 'your', ričča-n- 'that

which is spoken; talking', -Ø 'subjective

case')

¹⁵⁰ Silverstein (1975:377) termed this suffix 'mediopassive-adjectival', deriving a '(verbal) adjective'. Mason (1916: 406) called it 'resultative, infinitive' and said that is 'denotes result or phenomenon of an act'.

In such instances, however, the verbal function of the 'verbal noun' is stronger than the nominal function. For one thing, the objective case suffix is not used where it would be expected on a regular noun, e.g.:

neppe halak ?ekwek nu·yati wak-riččan 'This blind man does not stop talking'

(neppe 'this', halak [or hallak] 'blind person', ?ekwe 'not', -k 'he', nu·ya-ti- 'to stop [doing something]', -Ø 'non-past', wak- 'his', ričča-n- 'talking', -Ø 'subjective case' [?])

Mediopassive verb stems cannot be nominalized by -n; they remain verbs in contexts calling for 'active' verbal nouns:

nu·yatiy men syollen 'Stop being sad!'

(nu·ya-ti- 'to stop [doing something]', -y

'imperative', men 'you', syolle-n- 'to be
sad', -Ø 'non-past' [?]; cf. syollen 'sadness')

yuttun kan wattin 'My trip is called off'
(yuttu-n- 'to go to one side', -Ø 'non-past',
kan 'I', watti-n- 'to go', -Ø 'non-past'; thus
literally: '[That] I go is put aside' or the like)

The resemblance between both the form and function of -n 'nominalizer' and -n 'mediopassive' is striking, but not understood in the absence of more data on the verbal nouns.

Because of this suffix, nouns ending in n are suspect as being verbal nouns. When there is no verbal counterpart, there is no way to determine whether they are nouns ending in -n 'nominalizer' (synchronically or historically) or nouns which just happen to have n as a third (or fourth) consonant. Some of these nouns are: 151

There is one example of nominalizing -n following the reflexive thematic suffix -pu, but the gloss is not clear:

?urkan 'mortar'

424.2. -s 'nominalizer; instrumental'

Added to an active verb stem, this suffix forms a noun theme meaning 'that with which (the action) is performed'. 152 For example:

```
sippos 'feather (on arrow)' sippo- 'to put feathers on (an arrow)'

'ampis 'spit (for roasting)' 'ampi- 'to roast'

horkos 'throat' horko- 'to swallow'

kiččas 'key' kičča- 'to lock,

close door

with a key'

kitras 'stirring paddle' kitra- 'to stir'

pittes 'knot (in a cord)' pitte- 'to tie'
```

As with nouns in -n, there are a number of nouns

yossopun 'un enamorado' ('a beloved one'?)
The stem of this word is yosso- 'to copulate'. yosso-pu-, not attested independently, would presumably mean 'to copulate with

attested independently, would presumably mean 'to copulate with oneself'. The effect of adding -n is not clear. Cf. yossopany 'a copulator'.

¹⁵² Silverstein (1975:377) called this suffix 'agentive nominalizer' and the derived noun a 'noun of agency'. Mason (1916:406) called it 'causative, abstractive' saying that it 'denotes cause or phenomenon of an act, and is generally used with words of abstract significance'.

ending in s. Whether these nouns are derived, synchronically or historically, from verbs, or just happen to end in s, is unknown in the absence of attested verbal counterparts. Some of these nouns are:

tuyos (||tuyo·s||) 'arrow' (cf. tiyo- 'to shoot an arrow')

ta res 'man'

ka ras 'molar tooth'

pu'yis 'witchcraft'

rummes 'backbone'

?akkas 'north'

424.3. -h 'nominalizer'

A third nominalizing suffix is both rare and obscure in its meaning. It is found in:

ruččeh 'braid' ručče- 'to braid, make braids' tokkoh 'mat, bed' tokko- 'to spread out, unroll (a mat)'

These two examples (the only clear cases in all the data) make
-h seem similar in function to -n. Whether this is true
awaits further data.

Since h in word-final position is sometimes lost (sec. 113.2), there may be a number of nouns in -h which have not been discerned. Similarly, due to the phenomenon of word-final aspiration (sec. 123), some nouns attested with final h may, in fact, not have it at all. Such a noun is:

hippuh 'a load'

cf. hippu- 'to carry on back'

Finally, any noun which ends in h may be a noun derived from a verb. Again, in the absence of such a verb, the status of noun-final h in unknown. Some examples of nouns ending in

h are:

```
tiwih (||tiwi·h||) 'feather headdress'
tarah (||tara·h||) 'sky'
to·yo(h)
                  'bumblebee'
                  'horn' (cf. či·ri 'id.')
či•rih
wimmah
                  'wing'
                  'sea' (cf. kalle 'id.')
kalleh
                  'tongue'
lasseh
                  'skin, pelt'
pattah
kurkah
                  'pinole' (mush)
                  'garment, skirt'
kitroh
```

424.4. -pan 'nominalizer; habitual agentive (?)'

This suffix is not well represented in the data, but it seems to follow active verb stems in deriving noun themes denoting the habitual performer of an action. For example: 153

hi·wopan^Y 'a scold' < hi·wo- 'to scold'

poslopan^Y 'posole-maker' < poslo- 'to make posole'

(stew)'

vummepan^Y 'liar' < vumme- 'to lie, cheat, mislead'

yummepan 'liar' < yumme- 'to lie, cheat, mislead' yossopan 'copulator' < yosso- 'to copulate'

424.5. -msa 'nominalizer'

This suffix is also poorly represented in the data. It seems to have an instrumental sense, referring to things which facilitate the activity, but which are not themselves a

¹⁵³ In one case, a stem-final s occurs before -pan , but with no known significance (cf. secs. 412, 421.4.1): Pannaspan . This is glossed as 'que nos perdona Dios' ('may God pardon us'), but perhaps should be 'pardoner'.

yossopan is glossed by Harrington as 'uno que no mas anda enamorando mujeres [one who just goes around loving (i.e., copulating with) women], young or old, whatever he can find'.

product of the activity. 155 For example:

čittemsa 'place for dancing' < čitte- 'to dance'
witimsa 'dust pan' < witi- 'to throw away'</pre>

The suffix also has a more abstract significance:

This latter word is attested only with a locative suffix, mi·samsatka 'at the time of the Mass'. This is the only instance of a locative suffix referring to time rather than space. On the verbal status of mi·sa- see sec. 423.1.

Finally, the suffix occurs after ro·te- 'to be at (a place), to be kept at (a place)':

ro·temsa pappel
pappel ro·temsa
} 'where paper is kept'

Clearly, further data are needed to get the meaning and usage of this suffix into focus.

424.6. - symin ~ -hmin (~ -smin) 'nominalizer; inherent characteristic'

When added to verb stems, these suffixes form noun themes referring to the verbal notion as an inherent characteristic, e.g., 'one who is...', 'one who always...'. The distinction

Mason (1916:407) explicitly terms it 'instrumental'. He says it 'denotes instrument or means for the performance of an act'.

between the three alternants is only partially understood.

-s^ymin may be added to an active, stative or mediopassive verb stem. In all such cases, the derived noun denotes what would be the subject of the verb stem (the 'agent' of the active verb, the one affected by the mediopassive verb, the one who is in the state of the stative verb).

When added to an active verb stem, the derived noun refers to 'one who always...' or 'one who habitually...'. For example:

yikkaş^Ymin 'grinder' < yikka- 'to grind'
paytaş^Ymin 'hunter' < payta- 'to hunt'

How -ş^Ymin in such cases differs from -pan^Y (sec. 424.4) is
unclear.

When added to a stative verb stem, the derived noun refers to 'one who is...' or 'one who is characterized by...' or 'one who has a noticeable characteristic of...'. For example:

čupkas^ymin 'white one' < čupka- 'to be white'
matkas^ymin 'bitter one' < matka- 'to be bitter'
yoltos^ymin 'big-eared one' < yolto- 'to be big-eared'

When added to a mediopassive verb stem, the derived noun refers to 'one who has become...' or 'one who always or habitually becomes...'. For example:

Počkosymin 'deaf one' < Počko-n- 'to become deaf'
mittesymin 'grown one' < mitte-n- 'to grow'
hassesymin 'savage, wild, < hasse-n(i) - 'to get angry'
fierce one'</pre>

Notice that in the case of the mediopassive stems, the mediopassive suffix -n(i) does not occur in the nominal form. As

was noted earlier (sec. 421.1), some active stems may take the mediopassive suffix to become mediopassive verb themes. When these stems are nominalized by -symin, they may also be interpreted as if mediopassive. For example:

Theoretically, this should lead to ambiguities, since the noun could refer to the subject of either the active or mediopassive verb (the breaker, or the one who gets broken). Only one such multiple interpretation is attested:

pa·kas min 'shelled one (e.g., a nut)'

'sheller (e.g., of nuts)'

< pa·ka-n- 'to get shelled'

pa·ka- 'to shell'

Finally, derived nouns in -s^ymin may be related to nouns. In such cases, a derived verb stem related to the noun stem is used. The meaning of these derived nouns is 'one who is characterized by...'. For example:

mohles min 'one having a big head' cf. mo hel 'head'

marhas marah 'leafy one; (body) hairy one'
cf. marah (||mara·h||) 'leaf; body hair'

hunhus min 'snotty one'
cf. hunnuh 'snot'

hurkes min 'sinewy one' cf. hurek (|hure k|) 'sinew'

When there are attested noun-verb pairs involving other suffixes, the derived nouns in $-\Y min can be seen to be based

on the verb rather than the noun:

tohres min 'one who always coughs'
< tohre- 'to cough'
cf. to her 'cough'

The difference between -symin and -smin is unknown. The latter occurs very rarely and may be the result of mishearing, mistranscription, sound symbolism, or sibilant harmony. Note also the troubles Harrington had in distinguishing sibilants in certain contexts, the suffix -symin being one of them (sec. 113.1). Examples of -smin are:

hiwasmin 'arriver' < hiwa-n- (||hiwa·||) 'to arrive' murgusmin 'black one'

cf. murtus min 'dark, black one' murtu- 'to be dark, black'

-hmin occurs less frequently than -s^ymin. When suffixed to an active verb stem, the derived noun corresponds to what would be the object of that verb, that is, something acted upon by that verb. The action has been completed resulting in the object being in a particular state. Thus, nouns in -hmin translate '...one' or 'one which has been...'. For example:

tersehmin 'cut one' < terse- 'to cut'
sačkihmin 'split one' < sački- 'to split (something)
in half)

ampihmin 'roasted one' < 'ampi- 'to roast'

mirahmin 'given thing' < mira- (||mira·||) 'to give (a gift)'

Despite this difference between the functions of -s^ymin and -hmin, no active verb stem has been found suffixed by both. Thus, it is possible that the distinction is fortuitous and something else is going on.

When suffixed to a stative verb stem, -hmin has exactly the same effect as -s^ymin. One difference, which may be due to lack of data, is that stative verb stems followed by -hmin do not occur in a non-nominalized form. Examples of stative verb stems plus -hmin are:

taskuhmin 'red one'
satlahmin 'flat-nosed one'
ku t Y ihmin 'small one'

No difference between -hmin and -symin has been discerned which would predict which suffix occurs with which stative verb stem, based either on semantics or, e.g., phonological shape of the stem. Until more data are examined which might shed light on this situation, each stative verb stem must be marked as taking either -hmin or -symin (and, smilarly, either -hte or -syte 'perfective' -- see sec. 432).

For the most part, stems preceding $-s^Y \min/-h \min$ are of the form $C_1 V_1 C_2 C_3 V_2 -.$ In the data examined, a little under 10% of all such words have a geminate cluster instead of $-C_2 C_3 -$, and under 6% have a single medial consonant. This predominant $-C_2 C_3 -$ pattern extends to verb stems which, before other suffixes, do not have a third consonant. That is, sometimes a third consonant is added to the stem in forming the derived stem to precede $-s^Y \min/-h \min.^{156}$ For example:

¹⁵⁶ The same phenomenon is observed before -s tive' (sec. 432).

It is not the case that all stems acquire a third consonant if they do not already have one, accounting for the 15% or so which do not fit the $-C_2C_3$ - pattern. For example:

čappus^ymin 'prickly, thorny < čappu- 'to prick' one'

miţţeş^Ymin 'grown one' < miţţe-n- 'to grow'
pa·kaş^Ymin 'sheller' < pa·ka- 'to shell
(e.g., nuts)'

The added third consonant is observed only before -symin; its absence before -hmin may be due to the small amount of data.

There seems to be no way to determine whether a third consonant will be added or not, so each verb which does add a third consonant must be listed as having a special derived stem. 158

CVCV CV·CV CVCV· CVCCV
Under the present analysis, the first stem form is excluded.

As will be seen, the proposed reanalysis does not predict which consonant will be added as a C3.

On the basis of the data examined, the reanalysis does

 $[\]overline{157}_{\mbox{Harrington elaborates: 'One that just goes around to eat off of friends'.}$

There is one possible way to predict when a third stem consonant will be added. It is possible that some primary (and derived) stems of the form $C_1V_1C_2C_2V_2$ — have as their underlying form $\|C_1V_1C_2V_2\|$. Then, by a general rule, $C_2 \rightarrow C_2C_2$ except in the stem form which precedes $-\varepsilon Y$ min/-hmin (and also $-\varepsilon Y$ te/-hte 'perfective') where a third consonant is added. Stems with underlying geminates, i.e., $\|C_1V_1C_2C_2V_2\|$, then, are those which would not take the additional consonant. (A special rule would have to be added for /r/ which never occurs as a geminate and, when C_2 , does not seem to be followed by an added third consonant.) Such an analysis is not without exceptions, but it does have the advantage of making the possible underlying stem canonical possibilities more systematic. That is, the following patterns could occur:

The third consonant often appears in stems related to noun stems, particularly monosyllabic noun stems. For example:

tapses min '(body) hairy one'

cf. tap 'body hair'

hayt yes min 'big (wide) mouthed one'

cf. ha(')y 'mouth'

rust yes min 'slobbery one'

cf. ru(')s 'saliva'159

ru'se- 'to spit (on)'

?ursis min '(head) hairy one'

cf. ?uri (||?uri'||) '(head) hair'

paysas min 'fast one, fast runner'

Based on the relatively few forms which add a third consonant, the identity of the added consonant must be individually specified. The choices, however, seem limited, the most common being $t^{\rm Y}$, 160 t and s (as exemplified above).

In one case, two different third consonants are added, with a resultant difference in meaning:

cf. pa'ya 'speed'

ričtas min 'one who talks much' ričwas min 'one who talks much' < ričča- 'to speak'

not seem to have too many advantages (for a synchronic description) over simply marking the few verbs which add a third consonant. The infusion of more data will surely tip the scales in favor of one analysis or the other.

 $^{^{159}\}mathrm{Cf.}$, however, muses $^{y}\mathrm{min}$ 'big breasted one' (mus 'breast'), with no added consonant.

 $^{^{160}\}mathrm{Mason}$ (1916:426) recognized the addition of t Y (ti in his transcription) to such forms, tagging it 'adjectival-agentive'. He states that its 'import is not clear'.

The first form implies one who talks too much in the sense of gossiping (and is, according to Mrs. Cervantes, an insulting word). The second refers to one who talks continuously, but has no bad connotations.

The status of the added third consonants seems tied up with that of third consonants in general. Cf. sec. 222.2.

Derived nouns in -symin/-hmin occur frequently in noun compounds as the modifying (non-head) noun and as predicates in equational sentences (see secs. 711, 730). For this reason, they are often glossed (in Spanish) as adjectives, and Mason (1916:425) classifies them as such. Arroyo (1861: 12-13) also calls them adjectives, but points out how they take the same suffixes as nouns. From Arroyo's point of view, this would be natural, since in his native Spanish adjectives can be used as nouns: grande 'big' (adjective), el grande 'the big one' (noun). In Mutsun, however, it seems best to consider them simply nouns. As such, they must be followed by the appropriate nominal final (case) suffix (sec. 332). For example:

- ka·n hiṣ^yṣ^ye ?ekṭeṣ^ymine 'I did something evil' or 'I committed a sin' (ka·n 'I', hiṣ^yṣ^ye- 'to do, to make', -s 'remote past', ?ekṭe-ṣ^ymin- 'evil one, something evil', -e 'objective case')
- wak hiwsen wetres mine 'She likes a big one'

 (wak 'she', hiwse-n- 'to like', -Ø 'non-past',

 wetre-s min- 'big one', -e 'objective case')
- ?enney taskuhminum 'Paint it red!'
 (?enne- 'to paint, to write', -y 'imperative',

tasku-hmin- 'red one, something red', -um
'instrumental case')

Examples of nouns in -s^Ymin/-hmin in noun compounds and equational sentences are:

takkas min si 'hot springs' (takka-s min 'hot one, something hot', si 'water')

- hemeča yummus ymin tappur 'a rotten piece of wood' (hemeča 'one', yummu-symin 'rotten, dried out one', tappur 'wood, tree, log')
- wetres min wak-?o.co 'He is big-eared' or 'His ears are big'

 (wetre-s min 'big one, something big', wak- 'his', ?o.co 'ear[s]')
- wak-ha(•)y meylosymin 'His mouth has no teeth'
 (wak- 'his', ha[•]y 'mouth', meylo-symin 'toothless one')

Since both noun compounds and equational sentences consist of the sequence noun + noun, ambiguities in interpretation may result, e.g.:

sawres ymin to te 'fat(ty) meat' or 'The meat is
fat(ty)'
(sawre-s ymin 'fatty one', to te 'meat')

As with all nouns, number is an irrelevant category and a plural interpretation is possible (as in the sentence about 'big ears' above). Cf. also:

Puthin paytas min 'two hunters'

In general, when plural is intended, a special plural nominal
izing suffix is used instead of -s min/-hmin (-mak, -s mak/-smak,

secs. 424.7, 424.8). For example:

paytasmak 'hunters'

The relationship between -s^Ymin/-hmin and the nominal thematic suffix -min (sec. 323) is obvious, but, because of the limited exemplification of -min, no clear reason has been found for why some noun stems take -min while others use a related verb stem plus -symin/-hmin. 161 Nevertheless, this raises the possibility that -s^ymin and -hmin are each really sequences of two suffixes, -sY-min and -h-min, where -min could be the same as the nominal thematic suffix -min, and -sY and -h could be nominalizing suffixes. The fact that -h exists as a nominalizing suffix supports this view (sec. 424.3); $-s^{Y}$ could easily be an allomorph of nominalizing -s (sec. 424.2), which may even serve to explain the few cases of -smin, as well as Harrington's problems in distinguishing /s/ and $/s^{Y}/$. Furthermore, the fact that both -h and -hmin occur less frequently than -s and -s^ymin lends weight to the hypothesis. Historically, it is probably the case that -hmin and -symin are suffix sequences. Synchronically, however, they behave as units. This shows up most clearly when they are compared to their plural counterpart -mak (sec. 424.7) which occurs immediately after the verb stem, not after a suffixed -sy or -h. It seems unlikely that the singular forms would be

Perhaps something akin to alienable vs. inalienable possession is involved. For example, words meaning 'one with a big...' or 'one with much...', referring to body parts, are generally in the nominalized verb form, e.g. tapsesymin '(body) hairy one' (tap 'body hair'), mohlesymin 'big-headed one' (mo·hel 'head'). On the other hand, -min is found with such 'alienably possessed' concepts as 'irekmin 'one with much money' ('irek 'rock, money'), makkuhmin 'one with a husband' (makkuh 'husband'; if this were a nominalized verb in -hmin, it would be *makhuhmin). This is not a clean distinction, however; cf. ti·rasymin 'big-rumped one' (ti·rasy 'rump'; if this were a nominalized form in -symin it would be *tirsyasymin). More data are needed.

nominalized with $-s^Y$ or -h, then further suffixed with -min, while the plurals take -mak alone. Positing an allomorph $-\emptyset$ of $-s^Y$ and/or -h which might occur before -mak seems more artificial than considering $-s^Y$ min and -hmin synchronically unitary suffixes.

Finally, $-s^Y$ min behaves irregularly with the monosyllabic verb stems mis- 'to be pretty' and mis Y - 'to be good' -- see sec. 413.

424.7. -mak 'nominalizer; inherent characteristic, plural'

This suffix has the same semantic import as -s^ymin/-hmin, but the noun themes derived by means of it are plural. 162 -mak follows only stative and mediopassive stems, mostly the former. (The related -s^ymak ~ -smak follow active verb stems -- see sec. 424.8). For example:

wittimak 'hard ones' < witti- 'to be hard, solid, firm' (e.g., a stick)

'awlimak 'sour ones' < 'awli- 'to be sour'

meylomak 'toothless ones' < meylo- 'to be toothless'

cf. meylosymin 'toothless one'

mittemak 'grown ones' < mitte-n- 'to grow'

cf. mittesymin 'grown one'

Perhaps as an accident of the data, noun themes in -mak which are the plural counterparts of those in -hmin do not have attested non-suffixed verb stems. Some examples of the

¹⁶² In only one example is a derived noun in -s^ymin/-hmin treated as a regular noun in that its plural is formed by adding the nominal thematic plural suffix -mak:

hiwasmin 'arriver(s)' hiwasminmak 'arrivers'

In all other cases, verb suffix -mak (or -s mak/-smak, sec. 424.8) replace -s min/-hmin.

singular-plural pairs are:

pusluhmin 'pot-bellied puslumak 'pot-bellied one' ones'
taskuhmin 'red one' taskumak 'red ones'
weyrohmin 'big-mouthed weyromak 'big-mouthed one' ones'

As with -s^Ymin/-hmin, stems used with -mak may be related to nouns and, futhermore, contain the added third consonant in the same forms (see sec. 424.6). For example:

lopčos^Ymin 'big-navelled lopčomak 'big-navelled one' ones'

cf. loppoč 'navel'

paysas min 'fast one, paysamak 'fast one, fast runner' fast runners' cf. pa·ya 'speed'

The connection between this nominalizing suffix and the nominal thematic suffix -mak 'plural' is obvious. This verb suffix, however, follows stems ending in vowels, while the noun suffix follows those ending in consonants (see sec. 321).

424.8. -s^Ymak ~ -smak 'nominalizer; habitual agent'

These suffixes, obviously related to the just described -mak, follow only active verb stems. There is apparently no difference between them but, unlike -s^Ymin/-hmin (sec. 424.6) -smak is found more frequently than -s^Ymak. With one stem, yikka- 'to grind', there is free variation between the two.

Like -symin/-hmin, when added to active verb stems, -symak/
-smak denote habitual performers of the action. Often, the
derived noun is not marked for number, but may be used as
either a singular or plural noun. For example:

pa·kasmak 'sheller(s) (of nuts)' < pa·ka-'to shell'
 cf. pa·kas^Ymin 'id.'; 'shelled one'

huynis mak 'fisherman, fishermen' huyni- 'to fish' huras mak 'gravedigger(s)' hura- (||hura ||) 'to dig a grave'

On the other hand, sometimes only a plural gloss is given. In such cases, it is not known whether the meaning must be plural or if Harrington simply failed to record the singular sense. For example:

cf. yikkas^Ymin 'grinder' The difference in meaning between active verbs suffixed

by -s^Ymin/-hmin vs. -s^Ymak/-smak is unknown, other than the possible inherent plurality in some forms.

As with -symin/-hmin, historically -symak/-smak are sequences of two suffixes. Synchronically, however, there is no compelling reason to regard them as other than monomorphemic.

424.9. -ya 'nominalizer; inherent characteristic, plural'

This suffix is found with a few stative verb stems. It is semantically indistinguishable from -mak (sec. 424.7), given the examined data, and is sometimes just an alternate form. For example:

čupkaya 'white ones' < čupka- 'to be white' cf. čupkaș^ymin 'white one'

::

cupkamak 'white ones'

?ekteya 'evil ones' < ?ekte-n- 'to become evil'
cf. ?ektesymin 'evil one' 163</pre>

satlaya 'flat-nosed ones'

cf. satlahmin 'flat-nosed one'

sotloya 'thick-lipped ones'

cf. sotlos min 'thick-lipped one'

-ya is also found with the irregular verb stems mis-'to be pretty' and mis^{y} - 'to be good' (see sec. 413):

misya 'pretty ones' cf. missimak 'id.'
mis^yya 'good ones' (unsure) cf. mis^ys^yimak 'id.'

A suffix -ya also occurs after a numeral with a collective sense: 'uthinya 'both of them' (< 'uthin 'two'). The exact relationship between these two -ya suffixes is unknown.

425. Miscellaneous thematic suffixes

425.1. -i

A final -i is added to Spanish verbs as part of their incorporation into Mutsun. Mutsun borrows the infinitive form, invariably ending in -r in Spanish, and must add a vowel since all (derived) verb stems end in vowels. For example:

kasa·ri- 'to get married' < casar

huka ri- 'to play' < jugar

taha ri- 'to stop' < atajar

ware · ri - 'to sweep (indoors)' < barrer 'to sweep'

Verb stems in -i are then treated as normal (non-suffixed)

¹⁶³ In Arroyo's manuscript (see footnote 10), a form hequithremac 'los malos' ('the bad, evil ones') is found. This is likely to be 'ektemak, a form suggested by Isabel Meadows, though not attested from Mrs. Cervantes. An independently occurring stative verb stem *'ekte- 'to be evil' is not attested, but is probable.

verb stems:

huka ri-na- 'to go to play' (-na 'andative' -- sec. 423.1)

425.2. -te

This suffix occurs with two stems. Its exact function is unclear. 164

latwe-pan^Y 'one who gives signs with the tongue'

(-pan^Y 'nominalizer; habitual agentive' [?])

lelwete- 'to go along rubbernecking all the time'
cf. le·lete 'id.' (reduplicated stem -- sec. 223.2)
lelte- 'to ogle, to rubberneck'

Cf. also stem-deriving suffix -tV, sec. 222.2.

430. Final suffixes

Each verb theme is followed by one final suffix. In the case of plural imperatives only, two final suffixes may be found. Final suffixes are of four main types: tense, apsect (perfective), voice (passive), and mode (imperative). In addition, a very few other suffixes are occasionally recorded.

431. Tense

Final suffixes of tense mark the verb theme as 'non-past' $\overline{^{164}}_{Mason}$ (1916:413) terms this suffix 'corporeal' and describes it as follows:

Followed by a vowel in harmony with the preceding one generally refers to action with or on parts of the body.

or 'past'. 'Past' tense consists of two degrees, 'recent past' (or 'past' for short) and 'remote past'. In addition, notions of tense may be expressed periphrastically, particularly in the case of future events. See sec. 440.

431.1. -Ø 'non-past'

This final suffix marks events (or states) as not occurring (or existing) in the past. Thus, it encompasses the present time as well as the future. Occasionally, especially with mediopassive verbs, a past tense translation is given; this, if not an error, implies that the 'non-past' may impinge somewhat on the immediate past, something that happened 'just now'.

'Non-past' verbs are translated into Spanish in three ways: (1) simple present tense (e.g., <u>él</u> <u>come</u> 'he eats'), (2) present progressive (e.g., <u>él</u> <u>está</u> <u>comiendo</u> 'he is eating'), (3) 'to go to...' (e.g., <u>él</u> <u>va</u> [a] <u>comer</u> 'he's going to eat'). Occasionally the same word will be glossed in two or three different ways, sometimes even in the same entry, implying that the Mutsun 'non-past' is neutral towards the distinctions expressed by the Spanish translations. Since using a true 'present tense' is probably relatively infrequent (people do not normally narrate action as it is occurring), it is likely that the 'non-past' tense is used most often to indicate events about to begin. Nevertheless, the third translation is probably best not treated as a 'future' tense, but rather as an inchoative-like notion (e.g. 'he proceeds to eat'). 165

 $[\]overline{165}$ Arroyo (1861:45) also comments on the translation 'va a...'

Future time is indicated periphrastically, but with the 'non-past' suffix on the verb (sec. 440).

As is the case with all final suffixes, the 'non-past' suffix may follow a verb theme made up of the verb stem alone, or one made up of a verb stem plus one or two thematic suffixes. Examples of 'non-past' include:

ka·nwas katta 'I sweep it clean'
 (ka·n 'I', -was 'it [objective]', hatta- 'to
 sweep clean', -Ø 'non-past')

ka·n yete hatta 'I will sweep (it) clean'
 (ka·n 'I', yete 'later', hatta- 'to sweep
 clean', -Ø 'non-past')

tokkenak 'He runs'

(tokke-n- 'to run', -Ø 'non-past', -ak 'he')

yetek tokken 'He will run'
 (yete 'later', -k 'he', tokke-n- 'to run',
 -Ø 'non-past')

ka·n heyespu 'I shave myself'
 (ka·n 'I', heyes-pu- 'to shave oneself',
 -Ø 'non-past')

hintisme pira.na 'What are you going to bury?' or 'What do you go to bury?'

(hintis 'what?', -me 'you', pira.-na- 'to go to bury', -Ø 'non-past')

?ekwe haysa hiwsen tawhari 'They don't like to work'
 (?ekwe 'not', haysa 'they', hiwse-n- 'to like',
 -Ø 'non-past', tawhari- 'to work' [< Spanish
 trabajar], -Ø 'non-past')</pre>

^{(&#}x27;goes [or is going] to...'). He says that it is comparable to the andative suffixes -na and -su (secs. 423.1, 423.2) but used when the subject moves only a few steps away, or else when there is no motion involved at all prior to doing the activity expressed in the verb. This too is probably better interpreted as an inchoative than as a future or an andative.

431.2. -n '(recent) past'

This is the most frequently occurring of the two past tense suffixes. It is not clear just how far back into the past it extends. It is found in sentences with 'its' a 'just now' as well as with 'uyka 'yesterday'. The 'remote past' suffix -s (sec. 431.3), associated with events of 'long ago' or those of 'anyis siman 'last week', also can be applied to events which occurred 'uyka 'yesterday'. It would appear, then, that 'yesterday' is a rough dividing line between the two past tense suffixes, though further data, ideally in the form of texts, are necessary to be sure.

Examples of -n 'past' are:

- ket^yt^yonkawas 'I quarreled with him'
 (ket^yt^yo- 'to quarrel [with]', -n -past',
 -ka 'I', -was 'him')
- me nwas murtumpin 'You made it black' (e.g., painted
 it black)

(me n 'you', -was 'it [objective]', murtu-mpi'to cause to become dark, black', -n 'past')

- motmes haran si'se 'Did you give him water?'

 (mot 'interrogative particle', -mes 'you-him',
 hara- [||hara:||] 'to give', -n 'past', si'se

 'water [objective]')
- ?ekwekwas hiwsenin 'He did not like him'
 (?ekwe 'not', -k 'he', -was 'him', hiwse-ni'to like', -n 'past')
- me·lonin wu·ki 'The ship sank'
 (me·lo-ni- 'to sink', -n 'past', wu·ki 'ship'
 [< Spanish buque])</pre>

- rekkepun pa tre 'The Padre moved (changed
 residence)'
 (rekke-pu- 'to move oneself', -n 'past')
- hintisme ma·hiykun 'What did you go to close?'
 (hintis 'what?', -me 'you', ma·hi-yku- 'went
 to close', -n 'past')

431.3. -s 'remote past'

As described above, the 'remote past' seems to refer to events of yesterday (overlapping with the 'recent past') and earlier. Examples:

- ?ippiwas ?iččis 'The rattlesnake bit him'
 (?ippi 'rattlesnake', -was 'him', ?ičči- 'to
 bite', -s 'remote past')
- hinhan makse ?uyka rammus 'How many times did we shoot (them) on the fly yesterday?'

 (hinhan 'how many? how much?', makse 'we [exclusive]', ?uyka 'yesterday', rammu- 'to shoot [something while it is] flying', -s 'remote past')
- wak tokkenis haysane 'He ran away from them'
 (wak 'he', tokke-ni- 'to run [away from]',
 -s 'remote past', haysane 'them')
- hasliniska ?okse 'I got scared some time ago'
 (hasli-ni- 'to get scared', -s 'remote past',
 -ka 'I', ?okse 'some time ago')
- 432. Aspect: -syte ~ -hte 'perfective'

Perfective verbs differ from past tense verbs in that while the latter indicate that an activity or condition took place or existed in the past, the former express the idea of some state existing in the present (or in the time frame

established by discourse) as a result of the completion of some action. Frequently, Harrington translates perfective verbs with a present tense form of the Spanish verb estar 'to be' plus a past participle, e.g., está perdido '(he) is lost', or by estar plus an adjective, e.g., está largo '(it) is large'. Occasionally the Spanish preterite tense is used, e.g., yo soplé 'I blew (at it)', and sometimes alternate glosses are provided, e.g., está escondido and se escondió '(he) is hidden; (he) hid'. Furthermore, the Spanish adverb ya 'now, already' often is a part of the gloss, e.g., ya está muerto, ya se murió 'now (he) is dead, he died already'. The common thread running through these various translations (as well as a few other types) is one of a state existing as a result of something having occurred. The English 'present perfect', perhaps, is a closer approximation: 'he is lost' might better be 'he has become lost' (that is, he is lost now as a result of having completed the activity of getting lost). Similarly, the other example glosses above might be more revealingly recast as 'it has become long', 'he has become hidden', 'he has died'. Actually, the 'present tense' notion is an artificiality of the English translation. The 'perfective state' may well exist in the past (or, presumably, future) as established by context. This semantic characterization, while not without exception, seems valid for the vast majority of 'perfective' verbs.

Generally speaking, -s^Yte is associated with mediopassive verbs, -hte is associated with active verbs, and both occur

with stative verbs. 166 Only -hte can follow thematic suffixes; -s^yte always follows verb stems directly. The true distinction between the two suffixes, however, would seem to be more complex, since counterexamples to the active-mediopassive dichotomy are found, as will be discussed below.

When -s^Yte follows a mediopassive verb stem, the resulting perfective verb indicates that the subject has been affected by the activity described by the verb, and 'has attained' or, loosely, 'is in' a particular state as a result. For example:

semmos tek 'He has died' or 'He is dead' (semmo-s te 'dead', 167 -k 'he'; cf. semmo-n-to die')

motme ?akkus te 'Have you gone in?'

(mot 'interrogative particle', -me 'you',

(Mason transcribed Arroyo's <u>g</u> before consonants as <u>k</u>, giving -kte for Arroyo's -gte; nevertheless, he noted that -xte might be a better interpretation. Arroyo himself recorded -ste for Harrington's -sYte.)

Mason termed -kte a 'perfect transitive (participle), adjectival', and -ste a 'perfect intransitive (participle), adjectival'. As he indicates, the transitive-intransitive dichotomy is not very strict; about half of Mason's examples of -kte are 'intransitive'.

Two suffixes of the greatest frequency are evidently cognate. These are -kte [i.e., -hte] and -ste [i.e., -syte]. The former is listed by De la Cuesta merely as a preterit tense suffix, the latter, though of frequent occurrence, not mentioned at all...

Both seem to have the sense of a past participle, and, like the latter, are frequently used adjectively. They express completed action or achieved condition. Though little difference is discernable between the two, it would appear that -kte is used principally for transitive relations, -ste for intransitive ones. They are frequently translated by the Spanish ya, "already."

¹⁶⁷ For brevity, perfective verbs will be glossed as participles except where this would be misleading or inappropriate.

?akku-sYte 'entered'; cf. ?akku-n- 'to go in')

takkas te sakker 'The fat has become hot'

(takka-s te 'heated', sakker 'fat, grease';

cf. takka-n- 'to get heated, burnt')

me·los tek, rekwek haywehne 'It has sunk, it is not seen'

(me·lo-s^yte 'sunk', -k 'it', ?ekwe 'not', -k 'it', haywe-hne 'is seen'; cf. me·lo-n- 'to sink')

There is some evidence that -s^yte itself carries a mediopassive sense, making all verbs in -s^yte 'mediopassive perfectives'. In the first place, as was noted earlier (sec. 421.1), some active verb stems may take on a mediopassive sense when suffixed with the mediopassive suffix -n(i). These same verb stems, when suffixed with -s^yte, seem to be mediopassive as well:

pa·ka-s^Yte 'shelled, husked' (e.g., nuts)
cf. pa·ka-n- 'to get shelled'
pa·ka- 'to shell, to husk'

 $\text{his}^{\text{Y}}\text{s}^{\text{Y}}\text{e-s}^{\text{Y}}\text{te}$ 'done, made' (i.e., 'has become, has been made')

cf. his ys Ye-n- 'to become' his ys Ye- 'to do, to make'

In light of this, it is possible that those active verb stems which are followed by -s^yte, but which are not attested with -n 'mediopassive', might also take on a mediopassive sense, the lack of mediopassive -n forms being an accidental gap in the data. For example:

huppe-s^yte 'smoothed down' (hair)

cf. huppe- 'to smooth down (someone's hair)'

?*huppe-n- 'to become smoothed down'

titku-s^yte 'torn, ripped into pieces'

cf. titku- 'to tear, rip into pieces'

?*titku-n- 'to get torn, ripped'

ma·na-s^yte 'extinguished' (fire)

cf. ma·na- 'to extinguish, put out (a fire)'

?*ma·na-n- 'to become extinguished'

On the other hand, it is possible that with exclusively active verb stems (those that cannot take -n 'mediopassive'), the state described by the perfective form is that of the object, rather than subject, of the active verb. This seems

to be true of verbs in -hte (see below).

Secondly, there are some instances in which the distinction between mediopassive and reflexive is not clear cut (see sec. 421.4.1). This may be paralleled by some verbs in -s^Yte which occur otherwise only as reflexives (in -pu). For example: 168

sunyi-syte 'filled up (from eating)'
cf. sunyi-pu- 'to be full from eating'

 $-s^{\underline{Y}}$ te also occurs with stative verb stems, as in:

lukți-șYte 'pot-bellied' < lukți- 'to be pot-bellied'
kolle-șYte 'thin, lean' < kolle- 'to be thin, lean'</pre>

As is the case with active verb stems, stative verb stems are sometimes found followed by mediopassive -n in mediopassive themes meaning 'to become...' (sec. 421.1). When these stative

Another example is loks yo-s te 'lying' / lokos y-pu- 'to lie, fib'. Mrs. Cervantes says loks yos te is a word in the Ausayma dialect, though no such identification is made for lokos ypu- (or for loks yos ymin 'liar'). How different the Ausayma dialect was from Mrs. Cervantes's is unknown.

stems are followed by -s^Yte, a mediopassive sense seems to be expressed:

?awye-s^Yte 'awake' (i.e., 'has become awake,
has woken up')
cf. ?awye-n- 'to wake up' (intransitive)
?awye- 'to be awake'

If this is true of all stative verb stems followed by -s, then the above examples might be better translated 'has become pot-bellied', 'has become thin'. Similarly, note:

mot sawres te la lak 'Is the goose fat?'

(mot 'interrogative particle', sawre-s te 'fat, fatty', la lak 'goose')

The gloss given above is a translation of Harrington's 'está' gordo el ansar?', but if sawre-syte (< sawre- 'to be fat, fatty') has a mediopassive sense, a better gloss might be 'Has the goose become fat?'. The Spanish verb estar 'to be' in Harrington's translation implies a temporary, rather than inherent, characteristic, which goes along with the proposed mediopassive, rather than stative, sense of sawre-syte.

Finally, -s^yte occurs on verb stems which are apparently derived from nouns, paralleling -s^ymin 'nominalizer; inherent characteristic' (sec. 424.6). For example:

ratma-s^yte 'full of boils, pimples' cf. ra·tam 'boil, pimple'

Again, a mediopassive sense seems appropriate for these perfective forms, i.e., 'has become full of boils'. This interpretation seems particularly apt in:

laytas te men-?uri 'Your hair is very long'
(layta-s te 'long, large', men- 'your', ?uri
'[head] hair'; cf. layat 'length')

If layta-s^yte has the mediopassive notion of 'become', the gloss might be 'Your hair has become very long'. 169

In short, -s^Yte occurs with mediopassive verb stems, and adds a mediopassive sense to some (if not all) of the active and stative stems which it follows. The semantics of -hte are a bit more complex.

Following an active verb stem, -hte indicates that the action has been completed. In the data examined, with one exception (noted below), if the subject of the perfective verb is the first or second person, the subject is the agent (subject) of the corresponding nonperfective active verb.

For example:

ka·n witihte 'I have thrown (it) away'
 (ka·n 'I', witi-hte [||witi·-hte||] 'thrown
 [something] out, down, away')

Perfective verbs in -hte with first or second person subjects may also occur with objects which correspond to the objects of the active counterparts. Thus:

ka·nwas mirahte 'I have given him a present'
 (ka·n 'I', -was 'him', mira-hte [||mira·-hte||]

Arguing against this proposal, however, is Harrington's Spanish gloss: 'es muy largo tu pelo' ('Your hair is very long') where es 'is' is used, implying an inherent condition; está 'is', in this context, would imply the temporary condition appropriate to the mediopassive interpretation.

'given [something] as a present [to somebody]')
motmes hitwihte 'Have you cleaned it?'
(mot 'interrogative particle', -mes 'you-it',
hitwi-hte 'cleaned [something]')

When the subject of a perfective verb in -hte is a third person (or noun), the distinction between -hte and -syte is difficult to discern. It is possible that -hte denotes passive relationship: the subject of the perfective verb corresponds to the object of the active verb. On the other hand, a mediopassive interpretation seems equally, if not more, reasonable. For example:

kan-temo sippohtek 'My arrow is (well) feathered'
 (i.e., '...has been feathered' or '...got
 feathered')

(kan- 'my', temo 'arrow', sippo-hte 'feathered',
-k 'it'; cf. sippo- 'to put feathers on [an arrow]')

- ho yohtek 'It is grasped' (i.e., '...has been grasped' or '...got grasped')

 (ho yo-hte 'grasped', -k 'it'; cf. ho yo- 'to take, grasp')
- lippahtek 'He is hidden' (i.e., '...has been hidden'
 or '...got hidden, became hidden')
 (lippa-hte 'hidden', -k 'he'; cf. lippa- 'to hide
 [something]')
- pittehtek 'It is tied into a bundle' (i.e., '...has
 been tied' or '...got tied')
 (pitte-hte 'tied into a bundle', -k 'it'; cf.
 pitte- 'to tie [something] up', pitte-mpi- 'to
 make [something] into a knot, bundle' 170)

The mediopassive-causative form pitte-mpi- implies that a plain mediopassive pitte-n- 'to get tied' might be a legitimate form, though it is not found in the data examined (cf. sec. 421.2.1).

A mediopassive, rather than passive, interpretation seems especially appropriate in a few cases for which a nonperfective form is missing from the data. For example:

loytohtek 'It (stick, bolt, tooth) is loose' (i.e.,
 '...became loose')
 (loyto-hte 'loose', -k 'it')

tippihte ?ippi 'The rattlesnake is coiled up'
 (i.e., '...got coiled up')
 (tippi-hte 'coiled up', ?ippi 'rattlesnake')

Though passive senses are theoretically possible, it seems unlikely that the intended meanings are 'a tooth was loosened by somebody' or 'the rattlesnake was coiled up by somebody'.

There is slight evidence that the connection between first and second person and 'active' perfectives in -hte, on the one hand, and third person and 'passive' or 'mediopassive' perfectives, on the other, is an accident of the data. In one case, a second person subject is treated passively or mediopassively:

me n hikihte 'You are hanging' (i.e., '...have been
hung' or '...got hung')

(me·n 'you', hiki-hte [| hiki·-hte|] 'hung')

A non-suffixed active verb stem hiki. 'to hang (something)' is missing from the data; only a reflexive (hiki. -pu- 'to hang oneself') and unsure mediopassive (hiki. -ni- 'to get hung') are found. If a true active form is indeed impossible, and not simply lacking due to a gap in the data, this may explain the non-active interpretation of the perfective form. (On the relationship between reflexives and mediopassives, see

sec. 421.4.1.) Unfortunately, this would make a distinction

between -hte and -s^yte that much more obscure. If, on the other hand, hiki - is a legitimate form, this might imply that all perfectives in -hte (based on active verb stems) are potentially ambiguous: they may be interpreted either actively or (medio)passively regardless of the person of the subject. Clearly, more data are needed to work out a solution.

There is one environment in which only -hte, and never -s^yte, is found, namely following thematic suffixes.

-hte is found after -pu 'reflexive' (sec. 421.4.1) and -mpi 'mediopassive-causative' (sec. 421.2.1); whether it can follow any other thematic suffix is not known. For example:

liččeypuhteka 'I am standing' (i.e., 'I have put myself into a standing position')

(liččey-pu-hte 'standing, stood [oneself] up', -ka 'I'; cf. liččey-pu- 'to stand up')

lippapuhtek 'He is hidden' (i.e., 'He has hidden himself')

(lippa-pu-hte 'hidden [oneself]', -k 'he'; cf. lippa-pu- 'to hide oneself')

Both of these examples are found with perfective, but non-reflexive, counterparts, with nearly identical meanings:

ličyehteka 'I am standing' (i.e., 'I have stood up') (ličye-hte 'standing, stood up', -ka 'I'; cf.

¹⁷¹ There is an interesting example involving a perfective verb with no subject:

ličye- 'to stand up')

lippahtek 'He is hidden' (i.e., 'He has been
 hidden' or 'He got hidden')
 (lippa-hte 'hidden', -k 'he'; cf. lippa 'to hide [something]')

In the case of the reflexive perfective, it is possible to interpret the third person subject as the performer of the action (corresponding to the subject of an active verb), a clear departure from the generalization found among non-reflexive perfectives. 172

-hte follows mediopassive-causative -mpi in only one example:

wattimpihtek tipsyintak 'He carried him in a
 basket'
 (watti-mpi-hte 'carried', tipsyintak 'basket
 [locative]'; cf. watti-mpi- 'to carry', watti-nto go')

Since this is the only example of this construction, it is impossible to determine whether the third person pronoun -k refers to the carrier or the one carried.

Finally, in the few cases where -hte follows a stative verb stem, it may be semantically identical to $-s^{Y}$ te:

weyrohte wak-ha(*)y 'He is big-mouthed' or 'His
 mouth is big'
 (weyro-hte 'big-mouthed', wak- 'his', ha[*]y
 'mouth')

Nevertheless, since subjects of reflexive verbs are simultaneously agents and receivers of the action, the status of third person subjects of perfective verbs being acted upon (passively or mediopassively) may still be valid. That is, in the example given, the third person subject of both reflexive lippa-pu-hte and nonreflexive lippa-hte is the one who is hidden.

satlahte wak-hu·s 'He is flat-nosed' or 'His nose is flat'

(satla-hte 'flat-nosed', wak- 'his', hu·s 'nose') Whether -hte carries a possible mediopassive interpretation ('His mouth got big', etc.) as -sYte might is unclear from the few examples. At best, it must be posited that some stative stems take -sYte, and others take -hte, the distribution apparently an arbitrary one (synchronically, at least). It is important to note that those verbs which take -hte also take -hmin 'nominalizer; inherent characteristic', while those which take $-s^{y}$ te also take $-s^{y}$ min 'id.' (sec. 424.6). For example:

> weyrohte 'big-mouthed' weyrohmin 'big-mouthed one' sawres y te 'fat, fatty' sawres y min 'fat, fatty one'

This dichotomy between h and sy is not limited to stative stems. In many cases, verbs taking -s te may also take -s^ymin, and those taking -hte may also take -hmin; there are no examples of a stem taking both -syte and -hmin, or -hte and -s^Ymin. With stative verb stems, the choice seems to be arbitrary; if the semantic distinctions suggested for -symin/ -hmin and -syte/-hte prove, upon examination of further data, to be invalid, perhaps the distinction is (synchronically) arbitrary throughout the Mutsun verb system. 173

humrisYte haysa 'They are baptized' (i.e., 'They have become baptized')

humrihtek 'He is baptized'
 (cf. humri- 'to baptize')

The difference in number here seems irrelevant; perfectives in -sYte often occur with -k 'third person singular subject'. Since this example is unique, it is unknown whether it is an

¹⁷³ In only one case is a verb stem followed by both -syte and -hte, apparently with no difference in meaning:

Perfective verbs in -s^Yte/-hte are, in some ways, quite similar to nominalized verbs in -s^Ymin/-hmin. For example, for the most part, both refer to states achieved as a result of something happening or as a result of doing something.

Indeed, they are frequently glossed identically by Harrington. Nevertheless, there may be a semantic distinction (beyond that implied by the noun-verb dichotomy): when differences are indicated, nominalized verbs in -s^Ymin/-hmin tend to be used to describe inherent conditions or important characteristics of their subjects, while perfectives in -s^Yte/-hte tend to be used for more transient features. Compare, for example:

takkaṣ^ymin si· 'hot springs' (literally: 'hot one / water')

takkas te sakker 'The fat is hot' (or 'The fat has become heated')

laytas min pa rani 'high hill' (literally: 'high
 one / hill')

layṭaṣ^Yte men-tu·riṣ^Y 'Your fingernails are (have become) long'

Sometimes, an idiomatic distinction seems to have developed:

halkas^Ymin 'one-eyed one' halkas^Yte 'blind'

cf. halka-n- 'to become blind'

On the other hand, forms in $-s^y$ min/-hmin and those in $-s^y$ te/-hte are usually glossed identically, which may indicate that the primary distinction between the two sets of suffixes is

error or indicative of some as yet undiscovered fact about Mutsun. (The pre-mission meaning of humri-, if not a borrowing from some obscure Spanish word, has not yet been discovered.)

only grammatical (noun vs. verb).

Perfectives resemble their nominalized counterparts in yet another feature: they may occur with stems with an added third consonant (see sec. 424.6). There are extremely few examples, probably due to limited data, but note: 174

maymis te 'funny' (literally: 'laughed at') cf. ma·yi- 'to laugh (at)'

huppes te hupses te } 'smoothed down' (hair) 175

cf. huppe- 'to smooth down (someone's hair)'

174 One other case of an added third consonant is somewhat complex:

lohos te 'lazy' (cf. lohos min 'lazy one') lohtyohte 'loose'

Both of these forms are glossed with Spanish flojo 'lazy; lax, loose, limp'. Harrington uses English in glossing lohosyte, etc.; Arroyo (1862: entries no. 1571, 1603) implies that in the case of loht ohte flojo means 'loose' rather than 'lazy' by offering suave 'soft, smooth' as a synonym and apretado 'tight, squeezed' as an antonym. Harrington specifically notes of lohos te (and related lo ho 'lazy one'): 'Nothing to do with Sp[anish] flojo'. If Harrington is right and no borrowing is involved, the example shows not only a third consonant, but also some kind of distinction between -syte and -hte. On the other hand, if Harrington is wrong and Spanish flojo is the source of these words, the presence of ty as a third consonant, as well as the differential use of -sYte and -hte, implies some kind of productivity of both constructions. Furthermore, it is possible that both lohoand lohtYo- are native Mutsun stems which, as a result of contact with Spanish flojo, took on specialized meanings. The situation is complicated by the presence of two other forms:

> loytohte 'loose' lohtokte 'id.'

(The latter form is again glossed only with flojo, but as applied to una cosa ['a thing'], not a person, suggesting that 'lazy' is an inappropriate English translation.) If no errors are involved, loytohte looks as if it could have come from loht ohte by a form of metathesis and cluster simplification:

hty > hyt > yt The presence of k rather than h (or s^{Y}) in lohtokte suggests that it is a noun (lohtok) verbalized by -te (sec. 331).

¹⁷⁵ On the status of s as a third consonant, see sec. 412.

The similarity between the perfective -syte/-hte and the nominal final suffix -te 'verbalizer' (sec. 331) is obvious, but the relation between the two is not. Surely it is of the same nature and origin as that between -symin/-hmin and nominal thematic suffix -min 'one who is characterized by...' (see secs. 323, 424.6).

Finally, note that the perfective suffixes combine in an irregular fashion with two stems, mis-'to be pretty', mis^{Y} - 'to be good'. See sec. 413.

433. Voice: Passive

There are three passive voice suffixes, each indicating, in addition to voice, a particular tense: 'non-past' or 'past'. Passive suffixes follow only active verb themes (i.e., verb themes containing active verb stems and no transitivity thematic suffixes [sec. 414]) or causative verb themes (verb themes containing a causative thematic suffix [sec. 421.2]). 176

The subject of a passive verb is the receiver of the action, corresponding to the object of the active or causative verb. The agent is never expressed. In general, passive verbs are glossed as Spanish actives, with third person plural agents. Since there is no agent indicated in Mutsun, however, such third person plural agents are best considered equivalent to 'somebody'. It is possible, in fact, that 'passive' is a somewhat erroneous characterization of the suffixes; maybe 'impersonal agentive' or the like is more

¹⁷⁶ There is one exception, ?a manihne, glossed simply as 'creer' ('to believe'). See footnote 133.

appropriate. In any event, passive verbs differ from mediopassive verbs in that there is no suggestion that the subject itself is ever responsible for the action.

433.1. -hne 'passive, non-past' (or simply 'passive')

Non-past passives are translated both in the present tense and in a probabilistic future tense ('he is to be...'), the distinction in time given by context. For example:

- hit^yt^ye makke rukkatka, ?ams^yime ?ekwe ?amnehne
 'Let's go (in) to the house so that you are not
 rained on'
 (hit^yt^ye 'go!', makke 'we [inclusive]' [> 'let's
 go!'], rukkatka 'house [locative]', ?ams^yi 'so
 that', -me 'you', ?amne- 'to rain [on]', -hne
 'passive')
- riččahneme yete 'You will be spoken to'
 (ričča- 'to speak [to]', -hne 'passive', -me
 'you', yete 'later')
- ?urkantak wak hutahne 'It is pounded in the mortar'
 (?urkantak 'mortar [locative]', wak 'it', hutna'to grind, pound', -hne 'passive')
- hittahne posol homrontak 'The posole (stew) is
 washed in the big strainer'
 (hitta- 'to wash', -hne 'passive', posol
 'posole', homrontak 'big strainer [locative]')
- li kihneme 'You are to be killed'
 (li ki 'to kill', -hne 'passive', -me 'you')

As some of the examples above suggest, -hne, in addition to being 'non-past', might also, in some contexts, express 'habitual' action, though further data are needed to verify this.

433.2. -hnis 'passive, past'

This suffix seems to be made up of -hne 'passive' plus
-s 'remote past' (sec. 431.3); the vowel change (i rather than
e) is synchronically unexplainable. -hnis occurs as a unit,
however, in complementary distribution with all other final
suffixes, and, thus, is considered synchronically monomorphemic.
The tense distinction between -hnis and -stap 'passive, past'
(sec. 433.3) is unclear; both are glossed by Spanish preterites.
Examples:

- ka·n rakkehnis hwa·n 'I was named Juan' 177
 (ka·n 'I', rakke- 'to name', -hnis 'passive,
 past')
- mot pi na men mirahnis 'Is that what you were given?'177

 (mot 'interrogative particle', pi na 'that', men 'you', mira- [|mira |] 'to give [something] as a gift [to]', -hnis 'passive, past')
- ?iččompihnis wak-hi(')n 'His eye was taken out'
 (?iččo-mpi- 'to take out' [literally, 'to cause
 to come out', -mpi 'mediopassive-causative'],
 -hnis 'passive, past', wak- 'his', hi[']n 'eye')

433.3 -stap 'passive, past'

As noted above, the distinction between -stap and -hnis is unknown. Examples: 178

¹⁷⁷ Note that when more than one nominal argument is involved, all are in the subjective or unmarked case, not in the objective case. Date are too few, however, to draw any definite conclusions from this.

?iččistap wak 'He was bitten'
 (?ičči- 'to bite', -stap 'passive, past',
 wak 'he')

matlanustapak 'He was put face down'
 (matla-nu- 'to put [somebody] face down, into
 a prone position' [< matla- 'to be face down',
 -nu 'positional-causative'], -stap 'passive,
 past', -ak 'he')</pre>

434. Mode: Imperative

A final imperative suffix is the only suffix which affects the mode of the verb; in all other cases, the mode is indicative. The imperative suffixes are especially noteworthy in that they incorporate pronominal notions, specifying whether the object is first or third person. As final suffixes, imperative suffixes are unique in that more than one may occur in a single word, though such sequencing of suffixes is limited to cases involving plural subjects.

434.1. -y 'imperative'

This is by far the most common imperative suffix. The 'subject' of verbs with this suffix is always second person singular and, though very rarely, a second person singular pronoun may accompany it. When used with verbs taking objects, the object is a noun or a third person pronoun. Object nouns are in the subjective case, rather than the object is a noun or a third person pronoun.

wak ?oneypustap 'He was being accompanied'

(The Spanish gloss of this sentence is 'lo iban acompañando'

[they were going accompanying him']). The reflexive here

seems to be used idiomatically, but the exact interpretation

of the sentence is unclear. ?oneypu- does not occur in any

other context. (Cf. ?oneyti- 'to accompany' [see sec. 422.1],

?onyen 'companion'.)

jective (see sec. 332.1). If the object is a third person pronoun, a special demonstrative, nuk, is used (see sec. 361.6). -y is also used for imperative forms of reflexive verbs, and is found with mediopassives where no object is involved. Examples of -y include: ma·nay sottow 'Put out the fire!' (ma·na- 'to extinguish, put out', -y 'imperative', sottow 'fire') ruččey wak-?uri 'Braid her hair!' (ručče- 'to braid', -y 'imperative', wak- 'her', 'uri '[head] hair') tere puyme men-tu·ris 'Cut your fingernails!' (tere · - pu - 'to cut oneself', -y 'imperative', -me 'you', men- 'your', tu·ris 'fingernails') henseksiy 'Keep quiet!' (e.g., said to children) (hense-ksi- 'to remain quiet', -y 'imperative') wattiniy 'Go!' (watti-ni- 'to go', -y 'imperative') tarrestiy 'Become a man!' (ta·res-ti- 'to become a man' [< ta·res 'man', -ti 'substantive verbalizer'], -y 'imperative') pittey nuk 'Tie it up!' (pitte- 'to tie up', -y 'imperative', nuk 'that one [object of imperative]') nottoy nuk 'Hit him with your fist!' (notto- 'to hit with the fist', -y 'imperative', nuk 'that one [object of imperative]')

?iččompiy nuk haysan 'Take them out!'
 (?iččo-mpi- 'to take out', -y 'imperative',
 nuk 'that one [object of imperative]', haysan
 'them')

In one instance, both nuk and an object noun (in subjective case) are found to cooccur:

haskay nuk wak-mo·hel 'Scratch his head!' or
'Scratch him on the head!'

(haska- 'to scratch (an itch)', -y 'imperative',
nuk 'that one [object of imperative]', wak- 'his',
mo·hel 'head')

This is apparently a case of the 'inalienable possession' construction discussed in sec. 354; nuk and wak- are coreferential. 179

434.2. -yut 'plural imperative'

This suffix is used when a command is given to more than one person; that is, when the 'subject' is second person plural. Otherwise, it is used under the same circumstances as -y:

- riččayut, kata makam ?ekwe hinsu 'Speak! It seems you (plural) don't know how!'

 (ričča- 'to speak', -yut 'plural imperative', kata 'like, as, seems', makam 'you [plural]', ?ekwe 'not', hinsu- 'to know [how]', -Ø 'non-past')
- wattiniyut 'Go away (you-plural)!'
 (watti-ni- 'to go [away]', -yut 'plural
 imperative')
- rammayut to te 'Eat meat (you-plural)!'
 (ramma- 'to eat', -yut 'plural imperative',
 to te 'meat')

in general, rather few.

The plural imperative suffix may also follow other final imperative suffixes (except for -y) to give them a plural sense. For example:

monsetyut 'Tell me (you-plural)!'
 (monse- 'to tell', -t 'imperative, first
 person object', -yut 'plural imperative')

Also, -yut may add a plural sense to those few verbs which are inherently imperative (sec. 434.6). For example:

'is Ykeyut 'Go away (you-plural)!'
cf. 'is Yke 'Go away!'

Thus, -yut is the only final suffix which may occur after another final suffix. Further examples of -yut are given when illustrating other imperative suffixes. 180

434.3. -t 'imperative, first person object'

Unless specified otherwise by the addition of -yut 'plural imperative', the subject of imperative verbs with this suffix is singular. The object may be a singular or plural first person. If an object pronoun is used, though it need not be, it is in the objective case (cf. sec. 332.1). If an object pronoun is not used, from the available data, it appears that the object is assumed to be singular. For example:

ru·set 'Spit at me!'

In one instance, -yut seems to be used as a particle:

himmentak yut 'All of you are together'
himmentak is a locative noun meaning 'in the same place' or
the like (cf. sec. 332.4); yut seems to impart a second person
plural sense. The exact status of this unique example cannot
be determined.

(ru·se- 'to spit [on/at]', -t 'imperative,
first person object')

mehet kannis 'Look at me!'
 (mehe- [|mehe |] 'to look at', -t 'imperative,
 first person object', kannis 'me')

himmat maksen 'Look for us!'
 (himma- 'to look for', -t 'imperative, first
 person object', maksen 'us [exclusive]')

mus^Ys^Yimpit kannis 'Warm me up!'
 (mus^Ys^Yi-mpi- 'to warm up, cause to be warm',
 -t 'imperative, first person object', kannis 'me')

To indicate a plural subject, the plural imperative -yut may be added, as shown in sec. 434.2, or else a rare suffix -m 'plural imperative, first person object' may be used.

434.4. -m 'plural imperative, first person object'

This suffix is found in only two forms:

monsem kannis 'Tell me (you-plural)!'
 (monse- 'to tell', -m 'plural imperative, first
 person object', kannis 'me')

makam kannis muş^yş^yimpim 'Warm me up (you-plural)!' l81 (makam 'you [plural]', kannis 'me', muş^yş^yi-mpi-'to warm up, cause to be warm', -m 'plural imperative, first person object')

Harrington comments that the -m in the second sentence was 'not readily v[olunteere]d'. The distinction, if any, between -m and the sequence -tyut is not known. Both constructions are extremely rare in the data.

¹⁸¹ The verb was actually recorded [músimpim], though in all other attestations the stem occurs as musysyi-.

434.5. -yis 'andative imperative'

This suffix means 'go to...!', being the imperative counterpart of the andative suffixes -na ~ -yku and -su (secs. 423.1, 423.2). The subject is apparently singular unless the suffix is followed by -yut 'plural imperative'. For example:

čitteyis 'Go to dance!'
 (čitte- 'to dance', -yis 'andative imperative')

hoṭṭo čala·yis 'Go to urinate!'

(hoṭṭo 'go!' čala·- 'to urinate', -yis
'andative imperative')

tapruyis 'Go to gather wood!'

(tapru- 'to gather wood', 183 -yis 'andative imperative')

?uttuyisyut 'Go to put (it somewhere) (you-plural)!'
 (?uttu- 'to put', -yis 'andative imperative',
 -yut 'plural imperative')

Imperatives in -yis are often, though not always, preceded by hotto 'go! scat!', an inherently imperative verb (sec. 434.6).

434.6. Inherently imperative verbs

There are a few verbs which are inherently imperative and which, therefore, need not be marked with an imperative

 $[\]overline{^{182}}_{\text{Mason}}$ (1916:419) termed the suffix the 'missionary imperative'.

¹⁸³ The verb theme tapru-, based on the noun tappur 'wood, tree, log', is found only before an andative suffix, either the 'andative imperative' -yis or the plain 'andative' -na (tapruna-'to go to gather wood'). Whether andative suffixes are required of all verbs derived from nouns in this way is not clear. Cf. sec. 423.1.

suffix. It is possible to analyze them as ending in $-\emptyset$, a special imperative suffix allomorph, or $-\emptyset$ 'non-past', or in no final suffix at all. ¹⁸⁴ The choice is an arbitrary one, but to keep the generalization that all verbs end in a final suffix, it may be assumed that the inherently imperative verbs end in $-\emptyset$ 'non-past', the semantics of which are not conflicting with the idea of imperative.

The inherently imperative verbs found in the data examined include: 185

¹⁸⁴ ayun 'bring!' is irregular in that it ends in a consonant. This may imply that the inherently imperative verbs all occur in their primary stem form, in which final consonants do appear, followed by no final suffix or by -Ø 'non-past'. On the other hand, the inherently imperative verbs may all be derived stems, like all other imperative verbs, and 'ayun is truly aberrant.

¹⁸⁵ Mason (1916:468-9) treats some of these inherently imperative verbs as interjections: it·ie (for hitytye); yupe, yu (for yu·pe ~ yu·); ain·, aiun, auin·, anin (for ayun); yela (for ye·la); oto (for hotto). They are here treated as verbs because (1) they take the 'plural imperative' suffix -yut, and (2) where semantically appropriate, they take objects in the subjective case if nominal (e.g., ayun si· 'Bring water!') or objective case if pronominal (e.g., ye·lakas 'Wait for me!'), exactly in the pattern of regular imperative verbs.

^{186&}lt;sub>2at</sub>y_ty_a 'be silent!' also occurs in the phrase ²at^yt^ya me-ha(·)y, literally, 'be silent your mouth!'. It is translated into Spanish by Harrington as 'cayate [for callate] laboca' ('be quiet [in] the mouth!' or 'shut up your mouth!'). Whether this is a native construction or a calque from Spanish is not known.

?ayun 'bring!'
?is^Yke 'go away!'

Several of these verbs have interesting features. First, hit $^{Y}t^{Y}$ e occurs in the sequence hit $^{Y}t^{Y}$ e makke ('we [inclusive]') with the sense of 'let's go!' and may or may not be followed by another verb:

hit Yt e makke rukkatka 'Let's go (in) to the house!'

(rukkatka 'house [locative]')

hit yt e makke witi na rukkase 'Let's go tear down the house!'

(witi-na- 'to go to throw away, throw down',
-Ø 'non-past', rukkase 'house [objective]')

Second, hotto 'go! scat!' may be used either alone, or else followed by a verb in -yis 'andative imperative':

hotto 'Go! Scat!'

hotto ?irkoyis 'Go to defecate!'

Third, ha'yi 'come here!' also occurs followed by -syte 'perfective' in ha'yis te '(has already) come'. Finally, ye'la 'wait!' appears in a nonimperative sense when followed by a subjective pronoun (e.g., ye'laka 'I'll wait', and may also be used as an auxiliary verb (see sec. 442).

Plural subjects may be indicated by suffixing -yut 'plural imperative':

yu·yuṭ 'Go (you-plural)!'
hitYtYeyuṭ 'Go (you-plural)!'
'iṣYkeyuṭ 'Go away (you-plural)!'
'ayunyuṭ si· 'Bring (you-plural) water!'

The plural form of ha 'yi 'come here!' may be either ha 'yiyut' or ha 'yi makam, with makam 'you (plural)' simply following

the verb. It is not known whether makam may follow other imperative verbs (inherently imperative or suffixed) with the same sense.

434.7. Negative imperatives

Negative imperatives are not formed with imperative suffixes, but rather with the negative particle ?ekwe plus a second person pronoun followed by the verb in the non-past tense. See sec. 510.

440. Periphrastic verbal constructions

Several kinds of verbal notions are expressed periphrastically rather than by suffixation. In such cases, the main verb is preceded by a verbal <u>auxiliary</u>. The morphological status of auxiliaries is ambiguous, having characteristics of both particles and verbs. Rather than arbitrarily settle on one class or another for these forms on the basis of limited data, they will be treated here as special cases.

The auxiliaries encompass notions of tense (future) and/or modality.

441. yete 'later'

This very common auxiliary is normally glossed 'despues'
('later, after') and is used in conjunction with a non-past
tense verb in forming the future tense. For example:

yete ka hiwan 'I will arrive'
 (yete 'later', -ka 'I', hiwa-n- 'to arrive',
 -Ø 'non-past')

?ekweka yete ta kan 'I will not come'
 (?ekwe 'not', -ka 'I', yete [||yete ||] 'later',

ta·ka-n- 'to come', -Ø 'non-past')

wa·k kannis yete matlanu 'He will put me face down'
 (wa·k 'he', kannis 'me', yete [||yete·||] 'later',
 matla-nu- 'to put [someone] face down, into a
 prone position', -Ø 'non-past')

Despite being glossed as a particle or adverb, yete seems to really be a verb, though its meaning is somewhat unclear. Isabel Meadows, though a better speaker of Rumsen than Mutsun, said that it does not mean 'despues' but rather 'deja-un-rato' (presumably, 'wait a while' or 'postpone for a while' or the like). If her intuitions are correct for Mutsun, the first sentence exemplified above might be more literally translated 'I wait a while (and then) arrive' or 'I put off for a while that I arrive', or, if interpreted impersonally, 'It is postponed for a while that I arrive', etc. The verbal status of yete is seemingly assured by the fact that it occurs as a perfective in -sYte (sec. 432):

yetes te ka'n semmon 'I am about to die' (ka'n 'I', semmo-n- 'to die', -Ø 'non-past')

The exact meaning of the perfective yetes to is obscure. It is attested only in this example, and, unfortunately, Harrington's handwriting is, in this entry, difficult to decipher. The gloss of the full sentence appears to be 'ya mero me muero yo' ('already "mero" I die'), but "mero", uninterpretable in this context, may easily be a misreading for whatever Harrington actually wrote. Arroyo (1862: entry no. 1221) has the identical sentence, and he glosses it 'Poco falta para morirme' ('little [time] is left before I die'). This suggests that

yetes te may mean '(has already been) postponed' or '(has already) waited', the full sentence perhaps meaning 'I am in a state of having already finished waiting to die' or the like. More data are required to pin down the exact semantics of yete and yetes te.

On the other hand, yete behaves unlike any other 'verb' in that it may lose its initial consonant (or initial syllable):

yu·mete his ys yen pire se 'and you will become earth'

(yu· 'and', his ys ye-n- 'to become', -ø 'non-past',

pire se 'earth, world, dirt [objective]')

The sequence -mete may be divided as either -me-ete (-m 'you', -ete short for yete [||yete·||]), or -me-te (-me 'you', -te for yete). As noted earlier (sec. 150), Arroyo suggests that the shortening of yete· is rather common, though it occurs only in this example in Harrington's notes.

Until more data are examined, the most conservative interpretation is that yete is an auxiliary of unsure syntactic status. Perhaps yetes to best treated as residue suggesting that, at some time in the history of Mutsun, yetewas a full verb.

442. ye·la 'wait'

Occurring alone, or with a pronominal object, ye la is an inherently imperative verb (sec. 434.6) meaning 'wait!':

ye·la, ye·la 'Wait, wait!'
ye·lakas¹⁸⁷ 'Wait for me!'

Harrington also records ye lakkannis 'wait for me!'. kannis is the objective pronoun 'me', and, according to Harrington, the /k/ at the end of ye la is really there. If so, its significance is unknown, unless it comes from -t 'imperative,

(-kas 'me')

With a subject pronoun (and perhaps also noun, though none is attested), it means simply 'wait', though with a connotation of 'wait until something happens':

ye·laka 'I'll wait (until something happens) 188

This notion of 'wait while (or until) something happens' seems to carry over when ye la is used as an auxiliary. In this function, ye la is translated by any one of several imperative verbs (aguarda 'wait!', espera 'id.', deja 'allow, let!') or else by means of a future tense (ir a... 'to be going to...'). The intended sense seems to be 'Wait a bit while (or and) something happens (or will happen)'. For example:

ye·laka male·pu

(-ka 'I', male·-pu- 'to wet, rub oneself with saliva', -Ø 'non-past')

This is translated by Harrington as 'dejame mojarme con mi saliva' ('let me wet myself with my saliva'), but, given the semantic scope of ye·la, might better be glossed 'Wait a bit while I wet myself with saliva' or 'Wait a bit and I'll wet myself with saliva'. This accounts for the occasional future tense glosses, e.g.:

ye·lakammes po·to

(-kammes 'I-you', po·to- 'to pull out hair',

first person object' which has assimilated to the following /k/. No parallel example is found.

¹⁸⁸ The context given as an example was: 'I will wait here while you go to gather aulones [abalones]'.

¹⁸⁹ The 'let' sense of <u>deja</u> might be reflected in an English gloss such as 'Just let me wet myself...' which implies 'Wait just a second while I wet myself...'.

-Ø 'non-past')

Harrington glosses this in half-Spanish, half-English: 'yo te voy pull out your hair' ('I am going to pull out your hair') as if ye'la meant 'to be going to' or 'future' or the like. A more reasonable translation, in light of other uses and glosses of ye'la, might be 'Wait while I pull out your hair' or 'Wait and I'll pull out your hair'. The futurity implied by ye'la seems to be much more immediate than that implied by yete' (sec. 441).

443. hiske (?)

Most of the time, hiske is translated by the Spanish imperative form <u>deja</u> 'allow, let, permit', implying a precative function ('let me...', etc.). Nevertheless, it is occasionally translated as if identical to ye·la (sec. 442) which is also

There are several additional unexplainable facts about ye·la. First of all, it is occasionally followed by a suffix -mini·, with apparently no difference in meaning:

ye·lamini·ka pesyo 'Wait while I think', 'Just a second and I'll think', etc.

⁽⁻ka 'I', pesyo- 'to think [of], to remember', -Ø 'non-past')

This is glossed by Harrington as 'espera que voy a pensar' ('wait [so] that I will think' or 'wait because I am going to think' or the like). This suffix is attested in only one other sentence. More data are required to investigate it further.

Secondly, in two cases, ye'la is followed by a past tense verb:

ye·lak koyponin (-k 'he', koypo-ni- 'to get scared', -n 'past') ve·lak wa·ten

⁽⁻k 'he', wa·te- 'to come', -n 'past')
The glosses of both of these sentences make use of the Spanish subjunctive: 'deja que se espante' ('let [him] get scared'), 'dejalos que vengan al baile!' ('let them come to the dance!' -- the plurality and notion of 'the dance' are absent from the Mutsun sentence). The construction and semantics of these sentences is not understood.

glossed, sometimes, with deja. Examples:

hiskeka kučru kan-suku·me 'Let me roll my cigarette'

(-ka 'I', kučru- 'to fold, roll', 191 -ø

'non-past', kan- 'my', suku·me 'cigarette [objective]')

hiskekames nansi 'Let me know (meet?) you' (-ka 'I', -mes 'you [objective]', nansi'to know, be acquainted with', -Ø 'non-past')

In all occurrences of hiske in the data examined, the subject is first person singular. Whether this is always the case or is an accidental gap is not known.

¹⁹¹ The verb kučru- is an unsure form; it may be kutru-.

¹⁹² Note also hiskeka nansi and ye·lakas nansi, both glossed identically as 'yo lo voy a conocer' ('I am going to know [meet?] him'); the objective pronoun is missing from the first Mutsun sentence.

CHAPTER 5 - PARTICLES

500. Introductory remarks

Particles include words which are uninflected as well as a few enclitics which, were they not phonologically linked to a preceding word, would be indistinguishable from other particles both formally (lacking suffixation) and semantically. Some particles (or particle-like words) are discussed in the sections on periphrastic verbal constructions (sec. 440) and interrogation (sec. 612). Others are discussed below, divided by their semantic scopes.

Included among the particles are some words which, strictly speaking, are not particles but, rather, inflected forms. Nevertheless, they function in the same way as the various particles with which they are classed and might be inflected from a historic viewpoint only.

Finally, in violation of the definition, some particles are found with suffixation. In the case of the negative particle, the suffix -na might be classed as a special particle suffix (see sec. 510). In other cases, the data are inadequate to form definite conclusions, but, on the basis of other factors, the words involved may still be tentatively classed as particles.

510. Negation

Negation in Mutsun is accomplished by the negative particle ?ekwe preceding the negated verb (or noun in equational sentences). For example:

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?ekwek ti tin ?i na 'The sick one is not getting
better'
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(-k 'he', ti:ti-n- 'to get better [in health]',
-Ø 'non-past', ?i:na 'sick one')

parwes ?ekwe pa kanin 'Five (nuts) didn't get shelled'

(parwes 'five', pa'ka-ni- 'to get shelled',
-n 'past')

- makam ney?a ?ekwe hentilmak kata ?okse 'You (plural)
 are not now pagans as you were before'
 (makam 'you [plural]', ney?a 'now', hentilmak
 'gentiles, pagans' [< Spanish gentil + -mak
 'plural'], kata 'like, as, seems', ?okse 'in
 the past')</pre>
- ?ekwemes yete ta pin sapa tu 'The shoe will not
 fit you'
 (-mes 'you [objective]', yete 'later', ta pi-n'to fit, to suit', -Ø 'non-past', sapa tu 'shoe'
 [< Spanish zapato])</pre>

Used alone, 'ekwe means simply 'no'. For example:

?ekwe, kasa·rika yete 'No, I will get married later'
 (kasa·ri- 'to get married' [< Spanish casar],
 -Ø 'non-past', -ka 'I', yete 'later')</pre>

Negative imperative sentences are formed by sentenceinitial 'ekwe followed by a second person pronoun, then a verb in the non-past tense:

?ekweme hinne 'Don't go!'
 (-me 'you', hinne- 'to go', -Ø 'non-past')

?ekwe makam keye mu 'Don't (you-plural) jostle
each other with the elbow!'
 (makam 'you [plural]', keye -mu 'to jostle each
 other with the elbow', -Ø 'non-past')

As with positive imperatives, nominal objects are in the subjective case, though pronominal objects are in the objective case:

?ekwe siksan men-?ama 'Don't get your body dirty!'
 (-me 'you', siksa-n- 'to get dirty', -Ø 'non-past',
 men- 'your', ?ama 'body')

?ekweme kannis ruse 'Don't spit on me!'
 (-me 'you', kannis 'me', ruse- 'to spit [on/at]',
 -Ø 'non-past')

Non-imperative negative sentences with second person subjects may also be constructed 'ekwe plus second person pronoun plus verb. Presumably, the context aids in interpreting the potential ambiguity. For example:

?ekweme hiţţapu men-?issuse 'You don't wash your hands'193

(-me 'you', hitta-pu- 'to wash oneself', -∅
'non-past', men- 'your', ?issuse 'hands
[objective]')

?ekweme niya ṭawra 'You don't live here'
 (-me 'you', niya 'here', ṭawra- 'to sit,
 live', -Ø 'non-past')

A second negative particle, 'eps'e, is attested only rarely, but each time it is translated 'no vayas...' ('don't go and...') implying, perhaps, a 'negative-future-imperative' or 'prohibitional' sense. 194 In Harrington's data, it is

¹⁹³ In this particular case, the fact that the nominal object is in the objective case signals that no imperative is involved.

¹⁹⁴ Arroyo (1861:23) states that 'epsy'e 'siempre lleva la oracion â Subjuntivo, ó â Futuro' ('always takes the sentence to the subjunctive or future').

found only three times, twice alone, once with a following verb:

'epsyeme monsen 'Don't tell!'
 (-me 'you', monse- 'to tell', -n [?] 196)

More examples of $exp.^{y}$ are needed to figure out exactly how it differs from $exp.^{y}$

Pekwe followed by a special suffix -na forms a negative existential verb. Used impersonally (with no marked subject) it means 'there is (are) not'; used with a subject, it means 'does not have'. For example:

?ekwena petsen 'There is no sugar'

ekwena tawah 'There is no work'

'ekwenak sit 'He has no teeth' (-k 'he')

?ekwenak ta·stes wak-lase·natka 'He has no utensils
at his meal'

(-k 'he', ta·stes 'utensils', 197 wak- 'his'

¹⁹⁵ Harrington glosses 'eps' eme 'no vayas a hacer que hagas' ('don't go and do what you might do').

¹⁹⁶ The status of the final n in monsen is not clear; monse- is nowhere else attested with final n. The n could be mediopassive -n (sec. 421.1) though this would be a unique usage of that suffix, or it could be past tense -n (sec. 431.2), though no past tense seems to be involved. Finally, it could be nominalizing -n (sec. 424.1). If final n is not a mistake, nominalizing -n is the most probable choice, though only by default: the use of verbal nouns is not well understood. (Cf. also footnote 190.) Note, in addition, 'ekweme monse 'Don't tell!' with no final n. (Both 'epsyeme monsen and 'ekweme monse are glossed identically in Spanish: 'no vayas avisar' ['Don't go and tell!'].)

¹⁹⁷ta·stes < Spanish trastes and is transcribed by Harrington as [tra·stes]. Normally Harrington's tr is /t/; in this case, it is possible that the word is Spanish, not a phonologically assimilated loanword, and should be transcribed /tra·stes/.

lase natka 'meal [locative]' [< Spanish
la cena])</pre>

Whether 'ekwena is a full verb (i.e., ends in $-\emptyset$ 'non-past' and could possibly end in -n 'past', etc.) or a special particle is not known. 198

520. Quantification

Other than numerals and numeral-like particles (e.g., 'all') (sec. 620), there are several particles which serve an adverbial function of quantification ('much', 'little'). Two words seem to function as antonyms of 'ekwena 'there is no' (sec. 510) in expressing the idea of 'there is much', 'having much'. It is possible, then, to consider them verbs, but, in the data examined, they function more adverbially than verbally and are never found with suffixation. Furthermore, like 'ekwe, they often occur sentence initially as if to augment a sentence in the same way 'ekwe would negate one. The two words are:

tollon ti•ru

Two other words meaning 'much' are more clearly adverbial particles:

ya·sir
raman (attested twice only)

These words are exemplified in:

tollon lo(')t 'There is much mud'
tollonak hine ru 'He has much money'
 (-ak 'he', hine ru 'money' [< Spanish dinero])</pre>

 $¹⁹⁸_{\mathrm{On}}$ the two other attested cases of -na, see secs. 611.4, 611.6.

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tollonak tawhari his ys ek turtiyase 'She works hard making tortillas'

(-ak 'she', tawhari- 'to work', -Ø 'non-past', his ys e- 'to make', -Ø 'non-past', -k 'she', turtiyase 'tortillas [objective]')
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hemmen tollon 'There is still much' (hemmen 'still, yet')

ti'ruka mohles^ymin 'I am very big-headed' (-ka 'I', mohle-s^ymin 'big-headed one')

ti·rume yete murtus min 'You will be very black'

(-me 'you', yete 'later', murtu-s min 'black one')

ti·ruk titkus Yte wak-ta·pu 'His clothes are all torn up'

(-k 'he', titku-s^Yte 'torn up', wak- 'his', ta·pu 'clothes' [< Spanish <u>trapo</u> 'cloth'])

ya sirme 'inhanin 'You have become very sick'

(-me 'you', 'inha-ni- 'to get sick', -n 'past')

?orkoninka ya·sir 'I got quite scared'
 (?orko-ni- 'to get scared', -n 'past', -ka 'I')

?awli ?aman 'It is very bitter'
 (?awli- 'to be bitter', -∅ 'non-past')

The rare particle ?aman is also attested in the exclamation ke·se ?aman 'oh my!' (see sec. 580).

Related to ya'sir is yasri, glossed by Harrington as 'to be enough'. It is listed in isolation only.

The idea of 'having little' or 'there is little' may be expressed by ku·tis, though it is exemplified in Harrington's data only twice:

ku·tis to·te 'a little bit of meat'
ye·laka ?ukkisi ku·tis 'Wait while I drink a little'
(ye·la 'wait!' [see sec. 442], -ka 'I',

?ukki-si- 'to drink', -Ø 'non-past')

It seems best classified as a particle, rather than a noun ('little bit') because Harrington specifically notes that, following the verb 'ukkisi- 'to drink', it cannot be *ku*tise, with an objective suffix -e.

530. Temporal particles

Particles referring to time will be listed below, followed by exemplification of some and further discussion.

ney'a 'now'

'ama (||'ama.||) 'now'

'its, a 'just now'

'aru (||'aru.||) 'next, afterwards, later'

'aru.ta 'tomorrow'

'aruh'a 'early in the morning'

hin a 'soon, in a little while'

hips, un 'little while' (unclear whether it means

'in a little while' or 'for a little while')

murtey 'at night'

okse 'in the past, in past times'

?oysYo 'again'
?osYo (||?osYo*||) 'again'
?ithin ~ ?ithine 'again'

hemmen 'still, yet'
hi mi ~ hi min 'always'

horpey 'in the middle of (night, year)'

Examples:

- hitwe ney?a 'The wind is blowing now'

 (hitwe- 'wind to blow', -Ø 'non-past', ney?a 'now')
- makam ney?a ?ekwe hentilmak kata ?okse 'You (plural) are not pagans as (you were) in the past'

 (makam 'you [plural]', ney?a 'now', ?ekwe 'not', hentilmak 'pagans' [< Spanish gentil + -mak 'plural'], kata 'like, as, seems', ?okse 'in the past')
- hinkayime 'aru 'What did you say next?'
 (hinka-yi 'what say?', -me 'you', 'aru 'next,
 afterwards, later')
- ?itsYame ?itman 'You just now got up'
 (?itsYa 'just now', -me 'you', ?itma- 'to get
 up [from bed]', -n 'past')
- ?uykakwas ?iččin 'It bit him yesterday'
 (?uyka 'yesterday', -k 'it', -was 'him',
 ?ičči- 'to bite', -n 'past')
- yete 'oys' o lattun 'It's going to drip again' (yete 'later', 'oys' o 'again', lattu-n- 'to drip', -Ø 'non-past')
- hemmenak mitten 'He's still growing'
 (hemmen 'still, yet', -ak 'he', mitte-n'to grow', -Ø 'non-past')
- hi·mime tawra 'You're always sitting'
 (hi·mi 'always', -me 'you', tawra- 'to sit,
 live', -Ø 'non-past')

The semantic distinctions between the forms given the same English gloss are not known, nor are the conditions (if

any) governing the alternating forms indicated.

The relationship between 'aru 'next, afterwards, later',
'aru ta 'tomorrow' and 'aruh'a 'early in the morning' is
obvious, but the details of the relationship are not. -ta
is an otherwise non-occurring suffix; -'a, as noted in sec.
111.2, is found in adverbial forms, but is otherwise mysterious,
as is the h preceding it.

Mrs. Cervantes knew the particle 'ara, apparently semantically identical to 'aru, but commented 'es una palabra que se acostumbraba de usar antes' ('it is a word that they were accustomed to using before'), that is, she considered it an old fashioned word.

The word 'uyka 'yesterday' is related to a verb stem identical in form, 'uyka- 'to get to be later in the day'.

It is a mediopassive stem and, therefore, is followed by -n 'mediopassive' (sec. 421.1) as in:

?uykan hismen 'It's getting later'
 (hismen 'sun')

The sentence is literally 'The sun gets later', the idea apparently being that the sun is continuing along its course through the sky. 199 '2uyka is also related to '2uyak 'evening',

The stem tuhyi- 'to get to be late in the morning' is used, Harrington reports, after 8:00 a.m., and, apparently, until around noon; after that (though this is not specifically noted) ruyka- is used, and, when it is getting dark, mure- 'to get to be late in the afternoon' takes over. Thus, the sun 'gets later' in the morning by rising to its zenith at noon; 'gets later' in the afternoon by continuing on towards the western horizon; and gets later still as darkness approaches. Just as ruyka- is related to ruyka 'yesterday' and ruyak 'evening', so tuhyi- is related to tuchis 'day' and mure- to murtey 'at night'. ('To dawn is rakke-n-; 'sun to set' is rakku-, probably the same as rakku-n- 'to enter'.)

exemplified only in the phrase mis min 'yak 'good evening' (mis min 'good one'), perhaps more properly a noun than a particle. 200 Finally, in 1922 Harrington glossed a perfective verb 'yaykas to as 'la tarde' ('afternoon'), though in 1929 as 'to be later'. It probably really means '(has already become) later (in the day)'. Whether it can be used as a noun or particle meaning 'afternoon' (the opposite of 'aruh'a 'morning', Harrington reports in 1922) is not sure; it appears in citation form only.

horpey 'in the middle of' is highly unusual since it is related to a verb horpe-n- 'to get to be at the middle of'. The particle horpey is itself attested only in a rather odd formation, murtey horpeywas 'at midnight' (murtey 'at night'). Presumably -was is 'attributive', but normally the attributive noun precedes its head (see sec. 332.5). Both murtey and horpey are interesting in that they end in -y, commonly found with locative particles (sec. 540).

Apparently, past tense suffixes are not always required if an appropriate temporal particle is used. For example:

ho yo haysane ?okse ?ams i haysane ?amma '(He) took them in order to eat them'

(ho yo 'to take, grasp', - i 'non-past', haysane 'them', ?okse 'in the past', ?ams i 'so that', ?amma 'to eat', - i 'non-past')

In other attestations, both particle and past tense suffixes

²⁰⁰ Cf. mis min murut 'good night' (murut 'darkness, night'). The connection between 'evening' and 'yesterday' may be simply that that part of 'yesterday' closest to now is its 'evening'. Alternatively, a completed day is one which has 'become later' to the point of having an 'evening', and 'yesterday' is a completed day.

cooccur:

hasliniska ?okse 'I got scared some time ago'
(hasli-ni- 'to get scared', -s 'remote past',
-ka 'I', ?okse 'in the past')

Finally, there is one instance of what appears to be a temporal particle taking a tense suffix:

yukwas 'os yos rippas 'He jabbed him again' (yu 'and', -k 'he', -was 'him', 'os yo 'again', rippa- 'to jab, stab')

Harrington remarks that both 'os' o and the verb rippa-were 'V[olunteere]d ... in same tense', namely -s 'remote past'.

This is the only attestation of 'os' o 'again'. Thus, whether it should really be 'os' os is not known. Also unclear is its relationship to 'oys' o 'again' which never occurs with a suffix.

540. Locative particles

Particles with a locative or spatial sense almost all end in -y, best considered a frozen suffix. Attested in the Harrington material are:

hut Yt Yuy 'ahead, in front'
kariy (||kari y||) 'outside'
karih a 'far'
minmuy 'below, under; on the ground'
rammay 'inside'
taprey 'above'
?ityan ~ ?i¢yan 'behind'

Examples of locative particles in sentences are:

mot wak tina lippahte rammay 'Is he hidden inside
 there?'

(mot 'interrogative particle', wak 'he', tina
'there', lippa-hte 'hidden', rammay 'inside')

- minmuyak mehe si 'He is looking down'

 (minmuy 'below, under', -ak 'he', mehe -si'to look [at]', -Ø 'non-past')
- kari yak tawra 'He lives outside'
 (kari y 'outside', -ak 'he', tawra- 'to sit,
 live', -Ø 'non-past')
- wak wa'te hut Yt uy 'He comes in front', 'He walks ahead'

(wak 'he', wa·te- 'to come', $-\emptyset$ 'non-past', hut $^{Y}t^{Y}uy$ 'ahead, in front')

- ?ams^yik ?ekwe hinne karih?a 'so that he doesn't go
 far away'
 (?ams^yi 'so that', -k 'he', ?ekwe 'not', hinne'to go, to walk', -Ø 'non-past', karih?a 'far')

The exact relationship between kariy 'outside' and karih?a 'far' is not known, but the latter again shows the -?a suffix found on a number of particles, as well as an unaccounted for h (cf. ?aru 'next, afterwards', ?aruh?a 'early in the morning'. sec. 530).

550. Conjunctions

Several particles serve to link sentences either in coordinate or subordinate constructions. Only one of these particles, yu. ~ yu 'and', has been found to link words (in this case, nouns) as well.

yu v yu 'and', sometimes 'and so, and therefore' e ne 'and' (attested clearly only once)

koč 'when, if'

?ams, in order that, in order to'

?amu· 'in that, such that'

kanni 'so that' (unsure form)

Pussi 'because' (see also sec. 611.7)

kata (||kata·||) 'as if' (see also sec. 570)

Examples:

ney?a me·n mun yu·mete hiṣ^Yṣ^Yen pire·se 'Now you are dirt and you will become earth'

(ney?a 'now', me·n 'you', mun 'dirt, loose earth', yu· 'and', -me-te or -m-ete 'you later' [< yete 'later'], hiṣ^Yṣ^Ye-n- 'to become', -Ø 'non-past', pire·se 'earth, ground, world [objective]')

ka 'yi ka-sire kan wattin yu kames 'akka 'My heart
aches when I go away and leave you behind'
 (ka 'yi 'to ache', -Ø 'non-past', ka 'my', sire
 'liver; heart [in figurative sense]', kan 'I',
 watti-n 'to go away', -Ø 'non-past', yu 'and',
 -ka 'I', -mes 'you [objective]', 'akka 'to leave
 [something] behind', -Ø 'non-past')

yu· wak-?appa yu wak-?a·nan ?iččanis haysa, yu

?anyis henti hiwa·nin 'And his father and mother

came running and other people also arrived'

(yu· 'and', wak- 'his', ?appa 'father', yu 'and',

wak- 'his', ?a·nan 'mother', ?ičča-ni- 'to come

running' [attested here only], -s 'remote past',

haysa 'they', yu 'and', ?anyis 'other [one]',

henti 'people' [< Spanish gente], hiwa·-ni- 'to

arrive', -n 'past' 201)

Why one verb is in the remote past and the other in the recent past is unexplained. Also, it is not known whether conjoined nouns must both be preceded by yu· ~ yu, or if the sentence initial yu· simply introduces the sentence as a whole. Most of the attestations of yu· ~ yu are sentence initial (that is, the sentence begins 'And...'), clearly a discourse phenome-

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koč makse tawra yu·me maksene pakkasi 'You look
   for us when we are sitting'
   (koč 'when', makse 'we [exclusive]', tawra- 'to
   sit, live', -Ø 'non-past', yu· 'and', -me 'you'
  maksene 'us [exclusive]', pakka-si- 'to look for',
   -Ø 'non-past')
```

Pams Yi yulke, yu ka pu te 'So that (it) will burn, I am blowing (the fire)' ('ams is 'so that', yulke- 'to burn', -ø 'nonpast', yu· 'and', -ka 'I', pu·te- 'to blow at', -Ø 'non-past')

It is not known, due to lack of data, whether yu· is required to introduce a main clause when a subordinate (adverbial) clause comes first, as the first two examples above suggest. Normally, the subordinate clause comes second:

- ?iččompik wak-pu·tse ?ams^Yi wak-kussahne 'She is taking out its (the pillow's) feathers so that it (the pillow case) may be washed' (?iččo-mpi- 'to take out', -Ø 'non-past', -k 'she', wak- 'its', pu tse 'feather[s] [objective]', ?ams^Yi 'so that', wak 'it', kussa-hne 'is washed')
- ma·hiy loya 'ams' wuppe si 'Cover the pot so the water will boil!'
 - (ma·hi- 'to cover', -y 'imperative', loya 'pot' [< Spanish la olla], ams is that, wuppe- 'to boil', -Ø 'non-past', si 'water')
- parki men kočkames lu·ye 'You are heavy when I push you (in a swing)'
 - (parki- 'to be heavy', -# 'non-past', men 'you', koč 'when', -ka 'I', -mes 'you [objective]', lu·ye-

non even though the preceding sentences are usually lacking. This is also true of the one attestation of ?e ne 'and': ?e ne men misYte 'And are you well?' (men 'you', misYte 'good')

'to push, rock to and fro', - \(\text{'non-past'} \)

vussime pattihne '(Don't go around stealing) because
you will be seized!'

('ussi 'because', -me 'you', patti-hne 'is seized')

hi mime kannis mehe si kata me kannis ekwe nansi 'You always look at me as if you didn't know me'

(hi·mi 'always', -me 'you', kannis 'me', mehe·-si- 'to look at', -Ø 'non-past', kata· 'like, as, seems', -me 'you', 'ekwe 'not', nansi- 'to know', -Ø 'non-past')

560. Relative clause marker

The relative clause marker is numan. It is unclear whether it serves a pronominal function, standing for a deleted noun, or simply introduces relative clauses, since the deciding evidence is not to be found in the Harrington data examined to date. In any event, a relative clause introduced by numan can occur alone or after a head noun in the appropriate case. For example:

Pokse ro·tes hemeč?a ta·res numan hemeč?a korotka wak Pokse hinne

'There was once a man who walked on one foot'
('okse 'in the past', ro tes 'there was [see sec. 730], hemeč'a 'one', tares 'man',
hemeč'a 'one', korotka 'foot [locative]', wak 'he', 'okse 'in the past', hinne- 'to go, to walk', -Ø 'non-past')

ka·n mehe·si haysane numan hiwa·nin 'I'm looking at
those who arrived'

ka·n mehe·si numan hiwa·nin 'id.'

(ka·n 'I', mehe·-si- 'to look at', -Ø 'nonpast', haysane 'them', hiwa·-ni- 'to arrive', -n 'past')

570. Other adverbial particles

Particles of various adverbial functions, as a matter of expediency, are listed together here.

pin^Yi (||pin^Yi·||) 'perhaps'
kata (||kata·||) 'like, as, seems' (see also sec. 550)
ka·ti or ka·t^Yi 'thus'
-tukne ~ -tkun 'irrealis'
-s^Ya 'alone'

The first two of these may be exemplified with no further discussion:

pin^yi·ka hippu 'Perhaps I'll carry (it) on my back'

(-ka 'I', hippu- 'to carry on one's back', -Ø

'non-past')

hintise pin yi wak hippu 'What might he be carrying on his back?'

(hintise 'what? [objective]', wak 'he', hippu'to carry on one's back', -∅ 'non-past')

men-se pek kata hire 'Your beard is like a rat's'
 (men- 'your', se pek 'beard', hire 'rat')

kata yete 'amne 'It seems as if it's going to rain' (yete 'later', 'amne- 'to rain', -Ø 'non-past')

ka ti or ka t (Harrington, on separate occasions, insists that each is correct and the other is incorrect) seems to behave as a particle meaning 'thus' or 'in this manner' as in:

yu·me ka·ti ṭa·kan 'ammayni 'And thus you come to eat'

(yu· 'and', -me 'you', ta·ka-n- 'to come', -Ø 'non-past', 'amma-yni- 'to come to eat', -Ø 'non-past')

Nevertheless, when a verb is missing from a sentence, it may take a tense suffix:

?ekwe ka·t^yis '(They) did not do thus(ly)'
 (?ekwe 'not', -s 'remote past')

There is not enough information to come to any definite conclusions, but there are two possible interpretations. First, ka·t^(y)i- may be a verb 'to do thusly', in which case the first sentence cited above contains three verbs in series. On the other hand, it may be a particle, and at least some particles, under certain (as yet not understood) conditions may take tense suffixes (cf. the discussion on 'os'yo 'again', sec. 530). Of course, there is a third possibility, namely that ka·t^(y)i is both a particle and a verb (or both particle and verb are formed from the same root or stem).

The 'irrealis' form is recorded both as an independent particle and enclitic, (-) tukne, when the preceding word ends in a consonant, but only as an enclitic -tkun when the preceding word ends in a vowel; tukne is here transcribed as an enclitic. Harrington describes -tkun as the 'unreal postfix'. Both -tukne and -tkun are found after the first word of a sentence (or the first word of a subordinate clause); enclitic pronouns, if any, follow the irrealis particle. It seems to mean that the sentence is expressing a hypothetical event. For example:

- kočtukne men halsas min, ka ntuknemes ta he
 'If you were a liar, I would question you'
 (koč 'when, if', men 'you', halsa-s min 'liar',
 ka n 'I', -mes 'you [objective]', ta he- 'to
 ask, to question', -0 'non-past')
- his sentukne hewe pa '(It's as if it) is becoming a devil'

 (his sentence, says Harrington, was 'V[olunteere]d of whistle siren')

The form for 'also' is attested both as an enclitic -ya and as an independent particle ya. Whether the difference is transcriptional only is not yet known. For example:

- ka·t^yi ya miṣ^yte 'Thus also well'
 (ka·t^yi 'thus', miṣ^yte 'good'; this sentence
 occurs as part of a conversation: 'How are you?',
 'Well, and you?', 'Thus also well')
- ka nya wattin anyis piretka 'I also (will) go to
 the other world' (i.e., 'I will die')
 (ka n 'I', watti-n- 'to go', -Ø 'non-past',
 anyis 'other [one]', piretka 'land, world,
 earth [locative]')

The enclitic -s, a 'alone' is very unusual. It is attested (sometimes as an independent particle) only following the second person pronoun and after a peculiar stem (or word) čo·re?- which occurs only with -s, a, the whole construction meaning 'alone':

me·nṣ^Ya ričča 'You alone speak'

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(me·n 'you', ričča- 'to speak', -Ø 'non-past')
mensYa ?o·čote 'You alone have ears'
  (men 'you', ?o·čo-te 'having ears')
men čo·re?sYa ričča 'You alone speak'
   (men 'you', ričča- 'to speak', -Ø 'non-past')
ka·n čo·re?sYa, ka·n sYollen 'I am alone, I am sad'
  (ka·n 'I', sYolle-n- 'to be [get] sad', -Ø
  'non-past')
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Other particles occur in the Harrington material, but, as yet, they have not lent themselves to interpretation. When the bulk of the notes are examined, they will undoubtedly fall into place.

580. Exclamations and interjections

Several particles are simply exclamations:

waras 'For God's sake! Upon my life!'

'ay 'Oh!'

ke'se 'expression of surprise: Oh my!'

ke'se 'aman 'id.' ('aman 'much' -- sec. 520)

'eh'eh' ~ he'eh' 'yes'

ya. 'Here!' (said when handing something to someone)

ke' 'Hey!'

CHAPTER 6 - MISCELLANEOUS CLASSES

610. Interrogatives

There are two types of interrogative forms, interrogative words and particles. The former are used in 'information' questions ('who?', 'when?', etc.), the latter in yes-no questions. At least one interrogative word is also used in negated sentences as an impersonal pronoun ('anything').

Among the interrogative words are both nominal, verbal and particle forms, and some of the suffixation involved is formally and/or semantically unique.

611. Interrogative words

Most interrogative words are based on a root hin-, though a few other roots are also found, all but one beginning with h. All interrogative words occur sentence initially.

611.1. hinwa 'when?'

Resembling a particle, this form is never found with suffixation. 202 Example:

hinwame heyespu 'When do you shave?'

(-me 'you', heyes-pu- 'to shave oneself', -Ø

'non-past')

611.2. hinhan 'how many? how much? how many times?'

This word is also like a particle in lacking suffixation. 203

Example:

²⁰² Arroyo (1862: entries no. 1226, 1241), however, records a final t (<u>Inuat</u>) which never occurs in Harrington's data.

²⁰³ Arroyo (1862) again records a final t: <u>Injanta</u> (entry no. 1313), <u>Inanat</u> (entry no. 2269).

hinhan wese ru 'How many calves?'

(wese ru 'calf' [< Spanish becerro])

hinhan makse 'uyka rammus 'How many times did we shoot (them) on the fly yesterday?'

(makse 'we [exclusive]', 'uyka 'yesterday', rammu- 'to shoot on the fly', -s 'remote past')

611.3. hinka- 'verbal interrogative'

This is a verb stem which may be used alone or followed by a thematic suffix (cf. sec. 420). The thematic suffixes found are either unique or treated idiomatically. As with all verbs, the verb theme formed from this stem must end with a final suffix (sec. 430). Interrogative words based on this stem are used when the verb is being questioned; thus no other verbs are found in the same sentence.

611.3.1. hinka- 'what doing?'

With no thematic suffixes, hinka- is used to ask what kind of activity is going on. For example:

hinkame 'What are you doing?'
(-Ø 'non-past', -me 'you')

hinkamewas 'What are you doing to him?'
(-was 'him')

In one instance, hinka, in isolation, is glossed 'que es?'

('what is?') implying it might be used for equational sentences.

611.3.2. hinka-ni- 'what happen?'

Followed by the mediopassive suffix -ni (sec. 421.1), the interrogative verb takes on a mediopassive sense. It is exemplified only twice, once with a clear mediopassive gloss

('became'), once without ('did'):

hinkaninka 'What did I become? What did I do to
 myself?'

(-n 'past', -ka 'I')

hinkaninme 'What did you do?'
 (-n 'past', -me 'you')

If the -ni suffix is really the mediopassive, the implication of the second sentence is 'What did you do such that something happened to you?'. Further data are required to clearly distinguish this from nonsuffixed hinka-.

611.3.3. hinka-hte 'how be?'

Followed by the perfective final suffix -hte (sec. 432), the word is used to question the state brought about as the result of some activity. It may also be used to question the quality of a state with, apparently, no particular activity implied. For example:

hinkahtem 'How are you?'
 (-m 'you')

hinkahtek kočtuknek ?ennehne neppesum 'How would it be if it were written with this?'

(-k 'it', koč 'if, when', -tukne 'irrealis', -k 'it', ?enne-hne 'is written', neppesum 'this one [instrumental]')

611.3.4. hinka-yi- 'what say? how say? what do?'

The exact meaning of this form is unsure. The thematic suffix -yi is found nowhere else in the data; that it is thematic is assured by the occurrence of -n 'past' following it. Harrington glosses it simply as 'how', but, most of the

time, a notion of 'saying' is implied. Other times, however, it is indistinguishable from hinka- alone. More data, with more complete contextual information, are required. Examples:

hinkayime 'What do you say?' (-Ø 'non-past', -me 'you')

hinkayikawas yete 'What will I say to him?'

(-Ø 'non-past', -ka 'I', -was 'him', yete
'later')

hinkayi me-ra·kat 'What is your name?'

(-Ø 'non-past', me- 'your', ra·kat 'name')

hinkayinme 'What did you do?'
(-n 'past', -me 'you')

hinkayika 'What do I do?' (i.e., 'What will I do now?')

(-Ø 'non-past', -ka 'I')

Once, hinka-yi- is followed by a second thematic suffix -ti 'continuative' (sec. 422.1):

hinkayitikames 'What am I (going along and) saying
to you?'

(hinka-yi-ti- 'to be [going along] saying what?',
-Ø 'non-past', -ka 'I', -mes 'you [objective]')

Also, in one entry, and in isolation, hinka-yi-, like hinka-, is glossed 'que es?' ('what is?') (cf. sec. 611.3.1). 204

611.3.5. hinka-si(-) 'how? why?'

Harrington glosses this form simply 'how'. It is

There is one sentence with both hinka-yi- and a verb:
hinkayimekas monse 'What do you tell me? What do
you advise me?'

(-me 'you', -kas 'me', monse- 'to tell, advise', -Ø 'non-past')

Though there is no overt indication, it seems likely that the intended sense is 'What do you advise me to do?'. If that is correct, the interrogative hinka-yi- is the sole verb of a complement clause.

apparently not a verb, since it occurs, though only twice, with other verbs in the same sentence. Perhaps the suffix -si is the same as that found in a very few adjective-like forms, e.g., polpolsi 'spotted' (cf. footnote 121). Examples:

hinkasika yete his^ys^ye 'How will I do (this)?' (-ka 'I', yete 'later', his^ys^ye- 'to do, to make', -Ø 'non-past')

yu·me hinkasi ta·he 'And why do you ask?'

(yu· 'and', -me 'you', ta·he- 'to ask, toquestion', -Ø 'non-past')

611.3.6. Other derivatives

There are three more forms built on hinka- found in the data, but none of them is attested with any degree of certainty. 205

205_{They are:}
hinkas^ymin
hinkaninpe
hinkasta

All three are given in response to forms in Arroyo (1862):
 (a) (entry no. 1260) ¿Incasmintac añi? 'Which other one?
What kind of other one?' Harrington assumes this is hinkasymintak anyi. Presumably hinkasymintak is a locative form (-tak) of a nominalized verb (-symin) meaning, perhaps, 'at the one which got what?' (where 'what' here would be answered by a participle); 'anyis is a noun, 'other (one)'. Harrington also glosses hinkasymin alone as 'como es?' ('how is?'). The construction is obscure. Also, the fact that hinka- is found with both -hte and -symin (i.e., both -h and -sy) is highly irregular (cf. sec. 432).

- (b) (entries no. 1203, 1214) ¿Incaninpe ca? 'Who knows what I have or what I've done? Who knows what I have become?' Harrington records hinkaninpe ka 'que me hice' ('what did I become?') and remarks: 'Surely hinkanimpe, not hinkanimpi. Study will reveal'. If there is any further study on the matter by Harrington, it is not in the data examined thus far. The construction is not understood.
- (c) (entry no. 1209) ¿Incasta me? 'What have you done? What did you do?' Harrington records: 'hinkastame evidently'; that is, this is what he presumes the Arroyo form to be phonetically. There is no further support for it as a valid word, however.

611.4. hintis 'what?', 'anything'

This nominal interrogative word occurs in the objective case as hintis ~ hintise making it, at times, formally indistinguishable from the subjective. Indeed, there are no clear examples of hintis used for a questioned subject. There are a number of attestations of hintis ~ hintise as a questioned object, however. For example:

hintiseme his Ys Ye 'What are you doing?' or 'What are you making?'

(-me 'you', his Ys Ye- 'to do, to make', -Ø 'non-past')

hintise haysa ta kampin 'What did they bring?' (haysa 'they', ta ka-mpi- 'to bring', -n 'past')

hintisme pira na 'What are you going (away) to bury?'

(-me 'you', pira na 'to go to bury', -0

(-me 'you', pira'-na- 'to go to bury', -∅
'non-past')

hintiseme ma'yi 'Why do you laugh?' (literally: 'What are you laughing at?')

(-me 'you', ma·yi- 'to laugh at', $-\emptyset$ 'non-past')

hintis also occurs as an instrumental in -um (cf. sec. 332.3):

Instrumental hintisum is also glossed 'why' by Harrington on the basis of the following sentence:

hintisum makse monsesi pa·trese makse ričča (makse 'we [exclusive]', monse-si- 'to make tell', -Ø 'non-past', pa·trese 'Padre [objective]', makse 'we', ričča- 'to speak [to]', -Ø 'non-past')

Harrington glosses this sentence 'porque nosotros no pudimos mandar decir al padre que le hablamos al padre' ('Why can't we make the Padre tell that we speak to the Padre?' or 'Why can't we make [someone] tell the Padre that we speak to the Padre?'). The interrogative hintisum apparently means 'why?'; where the sense of 'cannot' comes from is not obvious.

hintisumme hittapu men-si·tse 'With what do you clean your teeth?'

(-me 'you', hitta-pu- 'to clean oneself', -Ø 'non-past', men- 'your', si·tse 'teeth [objective]')

As the subject of a verb, hintis is once attested with a suffix -na of unknown significance. The word hintisna is glossed by Harrington, apparently, as 'what is that (thing, one) which...' in: 207

hintisna pina hikihte 'What is that (thing) which is hanging there?'

(pina 'there', hiki-hte 'hanging, hung')

Finally, Harrington records hintis, te, glossed as 'having what?'. Presumably this is formed from hintis by the addition of the verbalizing suffix -te (sec. 331). The change from /s/to /s, is unique, but given Harrington's trouble in distinguishing /s/ and /s, particularly before /t/, plus probable interference from the verb suffix -s, te 'perfective' (sec. 432), an error may be involved. hintis, te is not attested in any context.

In negative sentences, hintis occurs as an indefinite pronoun in the sense of 'nothing' or 'anything'. In this function, hintis, or objective hintise, follows the verb rather than occurring sentence initially. For example:

ni(·) ?ekwena hintis 'Here there is nothing'
 (ni[·] 'here, ?ekwe-na 'there is not',

²⁰⁷A suffix -na also occurs after hatte 'who?' to form 'whose?', and after the negative particle 'ekwe to form a verbal element meaning 'there is no...' or 'does not have...'. See sec. 510.

²⁰⁸ In his earlier, 1922, recordings, Harrington wrote [hintr'iste].

hintis 'nothing, anything [subjective]')

Pekwena his ys e hintise 'I'm not doing anything'

(Pekwe 'not', -ka 'I', his ys e- 'to do', -p

'non-past', hintise 'nothing, anything [objective]')

611.5. ha ne ~ hanni ~ ha ni 'where?'

The difference between these three forms is not known; the two forms ending in i may be free variants since Harrington indicates in the same entry that both hanni and ha ni mean 'where'. The first form may be an error; Harrington heard hane in 1922 and corrected this to hanni in 1929, specifically noting that the word ended in i, 'not e'. It is possible, then, that he misheard ha ni as ha ne on other occasions. Examples:

ha ne wak 'Where is he?'

hanni hellepu 'Where do (the souls of those who
 die) go?'
 (helle-pu- 'to move')

This interrogative word is inherently locative and thus may be followed directly by -tum 'ablative' (sec. 332.6). The formation, however, is irregular: hanni·tum. (Since long vowels do not follow consonant clusters [sec. 135], either hannitum, which was, in fact, recorded in 1922, or ha·nitum would be expected. Nevertheless, Harrington specifically notes that the i· is long.) The word occurs in:

hanni tumme ta kan 'Where do you come from?'

(-me 'you', ta ka-n- 'to come', -0 'non-past')

611.6. hatte 'who?'

As a subject interrogative pronoun, hatte occurs in, for example:

hattemes humrin 'Who baptized you?'

(-mes 'you [objective]', humri- 'to baptize',
-n 'past')

An objective form is not attested, but a comitative form, perhaps consisting of objective -s plus comitative -tuk (sec. 332.7), hattestuk 'with whom?', is found:

hattestuk makam ri·ča 'With whom are you (plural) speaking?'

(makam 'you [plural]', ri·ča- 'to be speaking', 209

-Ø 'non-past')

A genitive 'whose?' is formed either by simple juxtaposition, as in normal genitive constructions (sec. 354), or else by the addition of a suffix -na. 210 Unfortunately, each of these constructions is attested only once:

hatte neppe 'irek 'Whose is this rock?' (neppe 'this', 'irek 'rock')

hattena ne· hilesya 'Whose is this church?'

(ne· 'this', hilesya 'church' [< Spanish iglesia] 211)

Two plurals are recorded for hatte, both of them

ri·ča- is either a legitimate form with some sort of continuative or durative aspect (see sec. 411) or else an error for the more common ričča- or ri·či- 'to speak'.

²¹⁰Cf. hintisna, sec. 611.4.

²¹¹hilesya is recorded by Harrington as [hiles y a]. The transcription was changed here since, in this instance, the [s y] seems best interpreted as /s $_{y}$ / phonemically, as in the Spanish source word, and not as an allophone of / $_{y}$ / (see. sec. 113.1).

irregular:

hattemak (*hattekma would be expected) hattekin

The first form occurs in isolation only, glossed 'quienes?' ('who [plural]?'). The second occurs in one sentence:

hattekin ?a·ŋhelmak 'Who are the angels?'
(?a·ŋhelmak 'angels' [< Spanish angel +
-mak 'plural'])

611.7. Other interrogative words

There are several other interrogative words attested, though only once each:

his who is that?'
hampi 'who is it?'
hampistak 'where?' or 'go where?'

The second two forms seem to be somehow related, but the details are not clear. The s of hampistak is unexplained, though the final -tak is the locative case suffix (sec. 322.3). There is an unsure attestation of hampis meaning 'other' which may fit into the set as well.

Another uniquely attested interrogative word is ma·tu 'why?' found in:

ma·tu wak yete ta·kan 'Why will he come?'
 (wak 'he', yete 'later', ta·ka-n- 'to come',
 -Ø 'non-past')

Similarly, 'ussi 'because' (see sec. 550) is glossed 'why?' in the sentence:

yu· ?ussimwas kale 'And why do you defend him?' (yu· 'and', -m 'you', -was 'him', kale- 'to defend', -Ø 'non-past')

Exactly how the interrogative and conjunctive senses of ?ussi are distinguished is not certain due to lack of data, but probably the word's location in the sentence is enough to clarify its meaning.

Finally, an interrogative word hista is found, but, according to Mrs. Cervantes, it is not properly a Mutsun word. Nevertheless, Harrington remarks, 'Thinks it means que es? ['what is?']'. It occurs in sentences glossed both 'what?' and 'why?'; in the former sense, it is found only as an object. For example:

histames his yesis partre 'What did the Padre have you do?'

(-mes 'you [objective]', his yesi- 'to make [someone] do or make [something]', partre 'Padre')

histame huysi ta he 'Why are you in a hurry to ask?'

(-me 'you', huysi- 'to be in a hurry', -Ø 'non-past', ta he- 'to ask, to question', -Ø 'non-past')

A derived form, with an otherwise unexemplified suffix
-ni, is also found, though in isolation only. Harrington
glosses histani as 'que es?' or 'que es esto?' ('what is?'
or 'what is this?') and remarks (probably quoting Mrs.
Cervantes): 'It is another dialect, but of the Ind[ian]s who
lived right there at S[an] Juan [Bautista]'.

612. Interrogative particles

There are two interrogative particles used in forming yes-no questions. By far the most common is mot; the second

is actually an enclitic -s ~ -se, and is poorly attested.

621.1. mot 'interrogative particle'

This particle invariably occurs sentence initially and introduces yes-no questions. The syntax of the rest of the sentence is apparently unaffected, although enclitic pronouns, if used, tend to occur immediately after mot since they usually follow the first word of any sentence (sec. 352). For example:

motmes haran si·se 'Did you give him water?'
 (-mes 'you-him', hara- 'to give', -n 'past',
 si·se 'water [objective]')

motme 'akkus'te 'Have you entered''

(-me 'you', 'akku-s'yte 'entered')

mot tina sinni 'Is the baby there?'
 (tina 'there', sinni 'baby, child')

mot semmon makke nossow mot semmon mak-?ama
'Do our souls die (or) do our bodies die?'
 (semmo-n- 'to die', -Ø 'non-past', makke 'our
 [inclusive]', nossow 'soul, spirit', mak- 'our',
 ?ama 'body')

By far the most frequent element following mot is the second person singular enclitic pronoun -me. Arroyo (1862) often glosses motme as 'Dime' ('tell me') as if the construction is a generalized question introducer. In the Harrington data, there is one sentence in which motme seems to serve in this capacity rather than in introducing a yes-no question about 'you':

motme hinkahte 'etse murtey 'How did they sleep last
night?'
(hinka-hte 'how?', 'etse- 'to sleep [plural? --

sec. 412]', -Ø 'non-past', murtey 'at night' 212)
This is the only example of both mot and a question word in
the same sentence. Furthermore, the subject (according to
Harrington's gloss) is 'they' (perhaps expressed in the verb
stem 'etse-) and not 'you' despite the occurrence of -me. If
no error is involved, it might be assumed that, under certain
conditions, motme does indeed have a frozen sense of 'tell
me...' in introducing questions.

612.2. -s ~ -se 'interrogative'

An enclitic -s or -se, with the same meaning as mot, is occasionally attested following the first word of a sentence. The enclitic occurs far more frequently in Arroyo's Vocabulary (1862) than in Harrington's data where it is clearly attested only four times. In fact, it seems to be found in Harrington's notes only in response to its presence in a particular passage in Arroyo's Vocabulary, suggesting that it was, for Mrs. Cervantes, a moribund construction.

The longer -se is attested only once, after a short vowel independent pronoun:

mense 'Are you?' (cf. me·se 'you [objective]')

The single consonant -s is found unambiguously only after

pi·na 'that'. For example:

pi·naseskames his Ys Yesis 'Is that what I made you do?'

Apparently murtey 'at night' is sufficient to put the whole sentence into the past tense, even though the verb is inflected for 'non-past'. Harrington's gloss, literally translated above, is 'como durmieron anoche?'

(pi·nase 'that [objective]', -s 'interrogative', -ka 'I', -mes 'you [objective]', his ys Ye-si- 'to make [someone] do or make [something]', -s 'remote past')

pi nas 'innu 'Is that the road?' or 'Is that the
 door?'
 (pi na 'that', -s 'interrogative', 'innu 'road,
 door')

620. Numbers and quantifiers

Unfortunately, a complete set of numerals is not found in the data examined. The cardinal numbers which are attested are listed below, followed by a few example sentences. Numeral morphology is not at all understood; the various non-cardinal forms are presented with little discussion.

hemeč?a 'one'
'uthin 'two'
kaphan 'three'
parwes 'five'
tayitmin 'eight'

sukmuka hemeča suku·me 'I smoke a (one) cigarette' (sukmu- 'to smoke', -Ø 'non-past', -ka 'I', suku·me 'cigarette [objective]')

wak hiwa nin hemeča rukkatka 'He arrived at
 one house'
 (wak 'he', hiwa ni- 'to arrive', -n 'past',
 rukkatka 'house [locative]')

'uthin wak hiwa'nin 'He arrived twice'
(wak 'he', hiwa'-ni- 'to arrive', -n 'past')

parwes 'ekwe pa'kanin 'Five (nuts) were not shelled' ('ekwe 'not', pa'ka-ni- 'to get shelled', -n 'past')

hattapuy tayitmin 'Give yourself eight hits!'

(hatta-pu- 'to hit, beat oneself', -y 'imperative')

As the above sentences suggest, cardinal numbers are nominal in nature. Indeed, there is one sentence with a number in the objective case, suffixed with -s 'objective':

ho yonak hemeč as 'He took one'

(ho yo - 'to take, grasp', -n 'past', -ak 'he')

Also, an objective form of 'two', 'uthine, is recorded, but
in isolation only.

Other numeral forms include:

hemečpu 'the first time, once' (no contexts)

?uthina 'twice' (no contexts)

?uthinya 'two together, both, the two of them (us, etc.)'

ye la makke hewespu ?uthinya 'Wait and the two of us will look at ourselves together (in the mirror)'

(ye'la 'wait' [see sec. 442], makke 'we [inclusive]', hewes-pu- 'to make an image of oneself')

?utnin 'second, second time'

?utninak haysane rakke 'He announces them (in church) the second time'

(-ak 'he', haysane 'them', rakke- 'to name',
-Ø 'non-past')

Arroyo (manuscript -- see footnote 10) gives: 'Uthsnin:

Martes. 2' ('?uṭnin, Tuesday, 2'). In his grammar (1861:16)

Arroyo gives the ordinal form as <u>Utsginnuhuas</u>, presumably

?uṭhinwas, or ?uṭhin 'two' plus -was 'attributive'. Indeed,
according to Arroyo's grammar, all ordinal numbers consist of
the cardinal plus -was. This construction is not found in

Harrington's data; the status, and exact gloss, of putnin is not yet known.

kapnen 'three days' or 'third day' (?)

Harrington glosses kapnen as 'son 3 dias' ('are three days');

Arroyo (ms) gives: 'Capnen. Miercoles. 3' ('kapnen. Wednesday.
3').

kapnena 'third, third time' (?)

Puttin 'four days' or 'fourth day' (?)
Arroyo (1861:16) gives Utsit, that is, Putit, 'four'. In
the manuscript examined by Harrington (see footnote 10), he
writes: 'Uthstin. Jueves. 4' ('Puttin. Thursday. 4').

parwesin 'five days' or 'fifth day' (?)

This form was suggested by Mrs. Cervantes as the next in

the series of numerals relating to days, i.e., 'utnin, kapnen,

'uttin.

parwena 'five times' (unsure form)

Arroyo (1861:16) gives <u>Paruena</u>, that is, parwena, 'five times'.

Harrington says that Mrs. Cervantes 'Never heard [parwena]...

but it is surely all right'.

tayitminna or tayitmina 'eight times' (unsure form)
Arroyo (1861:16) shows <u>Taittiminna</u> 'eight times'.

Finally, there are two words attested for 'all':

?iruhmin

himah?a

The first is nominal in form, though whether it is a noun stem 'iruh- followed by -min (sec. 323), or a verb stem 'iru- nominalized by -hmin (sec. 424.6) is not known. For example:

hiruhmin makse semson hatkun 'All of us (will)
die suddenly'
(makse 'we [exclusive]', semso-n- 'many to
die', -Ø 'non-past', hatku-n- 'to die suddenly', -Ø 'non-past')

The second word is formed with the peculiar suffix =?a found in various adverbial particles and also in the numeral hemeč?a 'one'. Like the numerals, it is treated as a noun, for it is attested in the objective case as well, himah?as ~ himah?ase. For example:

himah?a kan-sire·sum 'with all my heart'
(kan- 'my', sire·sum 'liver, "heart" [figurative sense][instrumental]')

himah?a haysa ?uri layṭaṣ^Yte 'They all have long hair' (literally: 'The hair of all of them is long')

(haysa 'their', ?uri '(head) hair', layta-s^Yte

(haysa 'their', 'uri '(head) hair', layṭa-ṣ^yte 'long')

ka·n mehe·si himah?as 'I'm looking at all (of them)'
 (ka·n 'I', mehe·-si- 'to look at', -Ø 'non-past')

CHAPTER 7 - SYNTAX

700. Introductory remarks

Unfortunately, there are not sufficient data to present more than a meagre sketch of Mutsun syntax. Harrington recorded numerous sentences, but most of them are out of context so that variation which occurs cannot be properly evaluated. As a result, the word order appears relatively 'free', though it is likely that numerous factors, involving both sentence structure and discourse structure, come into play.

In the discussion of Mutsun morphology, the syntactic function of various words and constructions was indicated. Included in the present chapter are a few observations which, for the most part, have not been presented in other contexts. These observations are at best provisional; much further study is required.

710. Compounds

711. Noun compounds

Nouns may be modified by other nouns by juxtaposition. The second noun is normally the head noun, the first is the modifier. This construction is formally identical to the genitive construction in which the third person possessive proclitic wak- is not used (see sec. 354). Whether such cases are ambiguous is not known; it is possible that, under these conditions, the genitive-compound distinction is semantically irrelevant. For example:

```
'ippi wak-haka'na 'rattlesnake's rattle'
          ?ippi haka·na 'rattlesnake('s) rattle'
          ?e·h ?issin 'squirrel('s) hole'
          tappur woton 'knot in wood' ('wood's knot' ?)
             [< Spanish boton 'knot']</pre>
          mo·nis ri·ča 'Spanish (language)' (literally:
             'white person['s] language')
Frequently, however, no genitive interpretation makes sense,
and in such cases true noun compounds result. Verbs nominal-
ized by -symin/-hmin (sec. 424.6) are often modifiers in
such constructions. For example:
          sawres min to te 'fatty meat' ('fatty one / meat')
          yummus ymin tappur 'rotted tree' ('rotten, dry one /
             tree')
          takkas min si 'hot springs' ('hot one / water')
          ?anyis penYek 'other cat' ('other one / cat')
     When a case suffix is required (sec. 332), normally only
the head noun is suffixed:
          ?anyis piretka 'to the other world' (-tka 'locative')
          mo·nis ri·časum 'in Spanish' (-sum 'instrumental')
     Occasionally, the head noun occurs first: 213
          tappur tersehmin 'wood ready to burn or sell'
             ('wood / already-cut-up one')
          mukurma hisiw 'woman who has recently given birth'
             ('woman / one who recently gave birth')
     712. Verb compounds
     Other than periphrastic verb constructions (sec. 440),
This parallels the occasional situation of the possessive
pronoun following the noun:
        makse rukka } 'our house' (makse 'our [exclusive]')
```

there are only a few cases of two verbs occurring in sequence.

It may also be possible to interpret such cases as complex sentences (see sec. 740). Whatever the final analysis, examples of such constructions are:

matlak 'e'te }'He's sleeping (lying) face down'
'e'tek matla }

 (matla- 'to be face down, in a prone position',
 -Ø 'non-past', -k 'he', 'e'te- 'to be sleeping',
 -Ø 'non-past')

mitlis ytek 'e'te } 'He's sleeping all curled up'
'e'tek mitlis yte }

(mitli-s yte 'curled up', -k 'he', 'e'te- 'to
be sleeping', - p 'non-past')

hiruhmin makse semson hatkun 'All of us (will)
die suddenly'
(hiruhmin 'all', makse 'we [exclusive]', semso-n'many to die', -Ø 'non-past', hatku-n- 'to die
suddenly', -Ø 'non-past')

720. Word order

Based on the available data, it cannot be confidently concluded that there is any restriction on word order.

Nevertheless, certain patterns predominate and probably indicate the normal or 'neutral' order of syntactic elements; deviations from the 'neutral' order are likely to be reflections of topicalization, emphasis, discourse phenomena, etc. The observations which follow encompass only the relative placement of verbs and their nominal (or pronominal) arguments. The term 'noun phrase' will be used for single nouns, noun compounds, and possessed nouns. For purposes of this discussion only, it will be convenient to treat 'noun phrases'

and 'pronouns' separately, although no claim is being made that pronouns are excluded from the category of 'noun phrase' in general.

721. When a sentence consists of a verb and only one noun phrase (subject), if the verb is non-active (that is, if it is mediopassive, stative, passive or perfective 214), the subject noun phrase normally follows the verb. For example:

lahpanin torow 'The soap-root got lost' (medio-passive)

yolto wak-?o.čo 'His ears are big' (stative)

hittahne posol 'Posole (stew) is washed' (passive)

siksasyte si. 'The water is dirty' (perfective)

When the verb is active, on the other hand, the noun phrase
normally precedes the verb, whether an object is indicated

or not. For example:

sec. 432.

sinni lolle 'The baby babbles'
sinnikma hussus 'The children buried and roasted
 (it)'

penYek ričča 'The cat miaws' (literally: 'speaks')

?ippiwas ?iččin 'The rattlesnake bit him'
 (-was 'him')

 phrase objects include:

haysa hara maksene rats une 'They gave us our ration (of food)'

(maksene 'us [exclusive]' is the indirect object; rats une 'ration [of food][objective]', the direct object, < Spanish ración)

ka·n mehe·si men-to·lose 'I'm looking at your knee'
kussapuka kan-mo·hele 'I'm washing my head'
(kussa-pu- 'to wash oneself')

pettempik ma rta pappele 'Marta is sticking the
 papers together'
 (pette-mpi- 'to cause to be stuck together',
 -k 'she')

Imperative verbs are normally sentence-initial (in non-negative sentences); noun phrase objects, therefore, always follow imperative verbs, though, as noted earlier (sec. 332.1), they do not take the objective case suffix. For example:

sippoy men-tuyos 'Put feathers on your arrow!'

tere puy men-tu ris 'Cut your fingernails!'

hummit matter 'Give me tobacco!'

(-t 'imperative, first person object')

723. In sentences with single pronouns, the pronoun may either precede or follow the verb. Normally, when a pronoun follows the verb it is in its enclitic form, if it has one. On the distinction between independent and enclitic pronouns, see sec. 353. There seems to be a slight tendency for pronouns to precede active verbs and follow non-active verbs, though the opposite situations are well attested and

the status of this generalization is questionable. Examples:

haysa kannis hi won 'They scolded me' (active)
 (kannis 'me')

humris te haysa 'They are baptized' (perfective)

ka n kat Yt Yan 'I grasped (it)' (active)

tursinka 'I'm cold' (mediopassive)

Actually, as noted in sec. 352, the placement of enclitic subject pronouns has nothing to do with the placement of the verb: enclitic subject pronouns follow the first word of the sentence, whatever is may be. Normally, however, this first word is a verb, but it need not be. For example:

yete · <u>ka</u> metten '<u>I</u> will hide' (yete · 'later' [sec. 441])

?ekwek witti 'It is not hard, stiff' (?ekwe 'not')
motme mala·nin 'Did you get wet?' (mot 'interrogative particle')

724. The placement of object pronouns is somewhat more straightforward: the object pronoun almost always follows the subject pronoun or subject noun phrase. This is true of both independent and enclitic object pronouns. For example:

ka·n haysane mehe·si 'I'm looking at hem' ka·n me·se mehe·si 'I'm looking at you'

hi·mime <u>kannis</u> mehe·si kata·me <u>kannis</u> 'ekwe nansi 'You always look at <u>me</u> as if you don't know <u>me</u>' (-me 'you')

kassek<u>mes</u> yete 'He will bite <u>you</u>' (-k 'he')

?ippiwas ?iččin 'The rattlesnake bit him'

yummekwas 'He is misleading (lying to) him' (-k 'he')

In imperative sentences, as with noun phrases, object pronouns follow the verb. As noted in secs. 332.1, 361.6, however, the third person object pronoun is really a special demonstrative form nuk. Examples:

ruymay <u>nuk</u> 'Shake <u>him</u> (to arouse him)!'
mehet <u>kannis</u> 'Look at <u>me</u>!' (-t 'imperative, first
 person object')

himmat maksen 'Look for us!'

When no subject noun phrase or pronoun is used (probably because it is understood from context, though there is not enough information to properly evaluate this phenomenon), the object pronoun seems to follow the first word of the sentence:

?ekwewas ta pin '(It) doesn't fit him'

725. Nouns in cases other than subjective and objective seem to occur either sentence initially or, more often, sentence finally. For example:

motme cappun kan-se peksum 'Do you get scratched by my beard?'

(se peksum 'beard [instrumental]')

po kon wak-na was hittewum 'Her skirt puffs up
from the wind'
(hittewum 'wind [instrumental]')

?i.sirum wak-mo.hel la.sunin 'His head got filled
 with dandruff'

(?i·sirum 'dandruff [instrumental]')

?urkantak wak hutahne 'It is ground in the mortar'
 (?urkantak 'mortar [locative]')

- rukkatka ?uyka sinnikma hussus 'Yesterday, in the house, the children buried and roasted (it)' (rukkatka 'house [locative]')
- makse tawraykun rammay rukkatka 'We went to be
 (stay) inside of the house'
 (rammay 'inside', rukkatka 'house [locative]')
- 730. Equational and existential sentences

There is no copula in Mutsun, or at least none has been found in the Harrington data examined. Equational sentences consist of a simple juxtaposition of noun phrases (now defined to include pronouns as well). For example:

me · n po · r 'You are a flea'

ka·n-ra·kat hwan 'My name is Juan'

ka n me- ette 'I am your maternal uncle'

men-matter terpes min 'Your tobacco is piquant'

(literally: 'your tobacco / piquant one'; cf.

men-matter terpe 'your tobacco is piquant' with

a stative verb terpe- 'to be piquant, spicy hot')

Negation in equational sentences is accomplished by placing the negative particle ?ekwe between the two nominal elements:

makam ney?a ?ekwe hentilmak 'You (plural) are not
 now pagans'
 (ney?a 'now')

Existential sentences ('there is...') make use of the verb ro·te- 'to be (at a place), to be kept (at a place)'. It is found, for example, in:

pina ro te 'It is kept there' 215

The Spanish gloss of the sentence is 'ay [for alli] esta

A more general existential sense, however, seems to be intended, as in:

pinames ro·te hi·ntak 'It's there in your eyes'

(pina 'there', -mes 'you [object]', hi·ntak

'eyes [locative]')

When this verb occurs in the remote past tense, suffixed with -s, it seems to be used to mean 'there was...', as in telling stories:

?okse ro·tes hemeč?a ṭa·res... 'There was once
a man...'
 (?okse 'in the past', hemeč?a 'one', ṭa·res
'man')

This is not entirely substantiated, however, since Harrington points out that the form ro tes was 'suggested by me [i.e., Harrington]', not volunteered by the informant. 216

alzado' or 'allí está guardado' ('[it] is locked up there', '[it] is kept, stored there').

216 Arroyo (1861:31) describes ro te as meaning estar 'to be (located in a place, in a temporary condition)':

estar: uno significa las cosas animadas, espirituales; y otro las inanimadas. Tsahora sirve para las primeras, y Rote para las segundas...

(...this language makes use of two verbs which mean to be: one signifies animate and spiritual things; and the other inanimate things. tawra serves for the first, and rote for the second....)

There is not enough data in Harrington's notes to evaluate Arroyo's animate-inanimate distinction. The verb tawrameans 'to sit' or 'to live' and, in the latter sense, would certainly apply only to animate beings. Perhaps it could be used to mean 'to be located in a place', though this is not clearly exemplified in the Harrington data.

Arroyo goes on to note that in the 'preterito perfecto' ('preterite perfect'; here, remote past) ro te can be used with animate subjects and, apparently, this is the construction suggested by Harrington in 'okse ro tes hemeč'a tares...
'There was once a man...'.

Finally, Arroyo mentions a third word meaning <u>estar</u>: <u>nua</u>. This is exemplified only once in the Harrington material and

ro·tes does have a special idiomatic usage, however, as a marker of past tense in nouns, though this too is rare:

kan-makkuh ro·tes 'my late husband' 217

(kan- 'my', makkuh 'husband')

Despite this construction, ro·tes remains a verb since it cannot cooccur with other verbs in the same sentence: *ka·n makkuhte ro·tes is ungrammatical for something like 'I had a husband in the past' (ka·n 'I', makkuh-te 'having a husband').

740. Complex sentences

A complex sentence is one which contains more than one clause, a clause being a structure consisting of a single verb (or verb with auxiliary [sec. 440; see also sec. 712]) and accompanying nominal arguments and particles. Complex sentences may consist of two (or theoretically more) co-ordinate sentences (optionally joined together by the conjugation yu' ~ yu 'and') or one main and one or more sub-ordinate or embedded clauses. Many such subordinate clauses are introduced by a special syntactic marker. These constructions have already been exemplified (sec. 550).

There remains one type of subordinate construction in

is not glossed. It is apparently some sort of locative demonstrative, or a syntactic particle:

nuwa haysa tawra diyo·sme '"nuwa" they live with God'
(haysa 'they', tawra- 'to sit, to live', -Ø 'nonpast', diyo·sme 'God [personal locative]')

Mason (1916:440, 466, 467) glosses nua as 'only, no more',
'there (nearer)' and 'yet, still, although'.

²¹⁷ This is glossed in Spanish as 'mi marido está muerto' ('my husband is dead') and 'el difunto mi marido' ('my deceased husband').

which no special particle is used to introduce the subordinate clause, nor is the subordinate clause characterized by any special verbal (or other) morphology. The subordinate clauses of this type are all adverbial in function, and perhaps result from an optional deletion of an adverbial conjunction. These adverbial clauses follow the main clause directly. For example (clause boundaries are marked by #):

- kommesyteka # kan hinne 'I am tired from walking'
 (komme-syte 'tired', -ka 'I', kan 'I', hinne'to go, to walk', -Ø 'non-past')
- ka·yi ka·n koro # ka·n hinne 'My feet hurt
 from walking'

(ka·yi- 'to ache', -Ø 'non-past', ka·n 'I'
[or, perhaps, ka·n- 'my'], koro 'foot', hinne'to go, to walk', -Ø 'non-past')

tollonak tawhari # his^ys^yek turtiyase 'She works' hard making tortillas'

(tollon 'much', -ak 'she', tawhari- 'to work',
-Ø 'non-past', hiṣ
'y
-Ø 'to make', -Ø 'nonpast', -k 'she', turtiyase 'tortilla[s]
[objective]')

ragkininak # kulyan wak hettenin 'It (the rope of the snare) got ripped apart from the blackbird getting trapped'

(raøki-ni- 'to get ripped apart', -n 'past',
-ak 'it', kulyan 'blackbird', wak 'it', hette-ni'to get trapped', -n 'past')²¹⁸

?inyusak # hakwaykus 'He went along the road to
 get mussels'

This sentence was actually translated '...when the black-bird got trapped'. Whether the temporal notion of this translation ('when') is actually intended by the Mutsun sentence is not known, but it seems likely that if it were, the particle koč 'when' would be used.

('inyu- 'to go, travel along the road', -s 'remote past', -ak 'he', hakwa-yku- 'went to get mussels', -s 'remote past')

Complementation, in which a subordinate clause functions as one of the arguments of the main verb, may also be achieved by juxtaposition. For example:

?ekwetkunme himma # men loksYosYmin 'Don't show what a liar you are!'

(?ekwe 'not', -tkun 'irrealis', -me 'you', himma'to show', -Ø 'non-past', men 'you', loksYo-sYmin 'liar'; subordinate clause as object)

hintiseme kannis monse # ka·nmes ?ekwe nomtimi
'How do you tell me that I don't make sense
to you?'²¹⁹
(hintise 'what? [objective]', -me 'you',
kannis 'me', monse- 'to tell, advise', -Ø
'non-past', ka·n 'I', -mes 'you [objective]',
?ekwe 'not', nomti-mi- 'to be understandable
to' (?), -Ø 'non-past')

Several verbs are frequently followed by subordinate clause complements:

1. holle- 'to be able to...'

pi·na ri·čase 'ekweka holle ričča 'I can't speak
 those words'
 (pi·na 'that', ri·čase 'language, speech, words
 [objective]', 'ekwe 'not', -ka 'I', holle- 'to
 be able to', -Ø 'non-past', ričča- 'to speak',
 -Ø 'non-past')

cf. motme holle 'Can you do it?'220

The Spanish gloss is 'Que vas a decir a mí que tu me no entiendes' ('What are you going to say to me that you don't understand me').

²²⁰ This sentence is actually translated by Harrington with a

(mot 'interrogative particle', -me 'you')

2. hiwse-n- 'to like, to want'

This verb is glossed by Spanish <u>querer</u> 'to want, to like, to love'. With a nominal or pronominal object, it seems to mean 'to like, to love'. For example:

?ekwekames hiwsen 'I don't like you'
 (?ekwe 'not', -ka 'I', -mes 'you [objective]',
 hiwse-n- 'to like', -Ø 'non-past')

With a sentential complement, it is unclear whether it means 'to like to do something' or 'to want to do something', if this distinction is relevant at all. For example:

lo hokma, 'ekwe haysa hiwsen tawhari '(They are) lazy ones, they don't like (want) to work'

(lo hokma 'lazy ones', 'ekwe 'not', haysa 'they', hiwse-n- 'to like to, to want to', -Ø 'non-past', tawhari- 'to work', -Ø 'non-past')

hiwsen 'amma to tese '(He) likes (wants) to eat meat'

(hiwse-n- 'to like to, to want to', -Ø 'non-past',

?amma- 'to eat', -∅ 'non-past', to tese 'meat

[objective]')

3. hu·yi- 'to begin'

This verb may be used alone, meaning simply 'to begin'; when followed by a sentential complement, it has an inchoative or inceptive sense:

yetek hu·yi 'He will begin later'
(yete 'later', -k 'he', hu·yi- 'to begin',

future tense verb <u>podras</u> 'you will be able to' suggesting a gloss for the sentence such as 'Will you be able to do it?' rather than 'Are you able to do it?'. This Spanish tense distinction is apparently irrelevant in Mutsun.

-Ø 'non-past')

makse hu·yi tawhari 'We begin to work'

(makse 'we [exclusive]', hu·yi- 'to begin',

-Ø 'non-past', tawhari- 'to work', -Ø 'nonpast')

4. huysi- 'to be in a hurry'

huysika 'I am in a hurry'

(huysi- 'to be in a hurry', -Ø 'non-past',
-ka 'I')

huysime ta·he 'You are in a hurry to ask'

(huysi- 'to be in a hurry', -Ø 'non-past',

-me 'you', ta·he- 'to ask, to question',

-Ø 'non-past')

5. yatse-n- 'to be hurried to...'

This verb implies far more urgency or desperation than huysi-; e.g., used alone (followed by -ka 'I') it is glossed as 'ya me muero para hacer una cosa que voy hacer' ('I am already dying to do a thing that I am going to do').

yatsenka his ys ye 'I am hurried to do (it)'

(yatse-n- 'to be hurried to...', -ø 'non-past',
-ka 'I', his ys ye- 'to do', -ø 'non-past')

6. hinne- 'to go around ...-ing'

This verb occurs frequently meaning 'to go, to walk, to move' (Spanish andar). Followed by a complement clause it seems to have a continuative sense similar to the suffix -ti (sec. 422.1):

ka·n ?ekwe yete hinne monyo kata haysa 'I will not
go around being promiscuous like them'
 (ka·n 'I', ?ekwe 'not', yete 'later', hinne- 'to
go around ...-ing', -Ø 'non-past', monyo- 'to be

promiscuous, whore-like', -Ø 'non-past',
kata 'like, as, seems', haysa 'they')

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AA American Anthropologist

BAE-B Bureau of American Ethnology, Bulletin

CNAE Contributions to North American Ethnology

IJAL International Journal of American Linguistics

JCA Journal of California Anthropology

UCPAAE University of California Publications in American Archaeology and Ethnology

UCPL University of California Publications in Linguistics

VFPA Viking Fund Publications in Anthropology

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