

**This dissertation has been
microfilmed exactly as received**

69-20,384

**HOCKETT, Charles Francis, 1916-
THE POTAWATCOMI LANGUAGE.**

**Yale University, Ph.D., 1939
Anthropology**

University Microfilms, Inc., Ann Arbor, Michigan

**Copyright by
YALE UNIVERSITY
1969**

3

THE POTAWATOMI LANGUAGE

A DESCRIPTIVE GRAMMAR

by

Charles Hockett

A Dissertation presented to the
Faculty of the Graduate School of Yale University
in Candidacy for the
Degree of Doctor of Philosophy

1939

PREFACE

The remnants of the Potawatomi tribe are now scattered from Mexico to Ontario, with the largest groups at Shawnee Oklahoma, Mayetta Kansas, and in northern Wisconsin. At Mayetta a large number of Kickapoo have practically dropped their own Algonkian dialect and have learned Potawatomi. Wherever any Algonkian-speaking Indians are found, from the Mexican Kickapoo community to the southern fringes of Ontario, at least one or two families of Potawatomi speakers will turn up. Potawatomi comes as near to being an Algonkian lingua franca as there is.

At the latest proto-historic times the tribe centered about the southern tip of Lake Michigan, but what evidence there is suggests that at an earlier period they were clustered about the Straits of Mackinac, on both sides. The breaking up of the tribe is a relatively late event and only the slightest dialectic differences have developed.

Potawatomi shares many features with Ojibwa, and was for a long time thought to be either a dialect thereof or a dialect more closely related thereto than to any of the other Central Algonkian tongues. The present evidence would suggest rather that, until comparative work has gone much further, Potawatomi should be thought of as a language in its own right, no closer, so far as can now be seen, to Ojibwa than to, for example, Fox.

The present writer's field work with the language was done near Crandon, Wisconsin, in the summers of 1937 and 1938. The chief informant was Jim Spear, (JS), a Kansas Potawatomi who had migrated back to Wisconsin

some years before. His wife Alice told the stories which constitute the writer's body of texts. Another informant, Jim Alloway, told a few stories and was used in the first stages of the work, when the writer was analyzing the phonetics. In the Autumn of 1938, at Shawnee Oklahoma, it was possible to hear some local Potawatomi speakers, and a number of grammatical points were checked with Dennis Spear, Jim's brother, as informant. Early in the summer of 1938 the writer heard some Potawatomi on Walpole Island, Ontario.

About half of the expenses of the first summer's work, and all of the second summer's, were borne by the Social Science Research Council, to whom thanks are hereby extended. The field work in Oklahoma, incidental to which the final check-up was made, was financed by the Institute of Human Relations of Yale University, through the Department of Anthropology. The American Council of Learned Societies made it possible for the writer to remain at Yale during the first five months of 1939, preparing the present thesis.

A number of linguists have offered helpful criticism. Dr. Truman Michelson, before his death, offered some valuable suggestions; it was due to his encouragement that the Potawatomi problem was selected in the first place. Dr Morris Swadesh, Dr Edward Sapir, Dr George Trager, and Dr Murray Emeneau all offered criticisms and comments at various stages of the work. The last mentioned has supervised the writing of this thesis, and the writer tenders his sincere appreciation.

Most helpful of all, however, were the suggestions which came from Dr Leonard Bloomfield and from his writings on Algonkian languages, in particular a yet unpublished paper, "Sketch of Algonquian." The terms used for technical concepts and categories in the present grammar are in large part those which Dr. Bloomfield uses in this most recent synthesis.

The weakest point in the data on which the present grammar is based is the sub-analysis of stems. If §4 is clear, it is due not to the clarity of the writer's own material but to the fact that it is almost a translation, from General Algonkian into Potawatomi, of the equivalent section in Bloomfield's latest paper, mentioned above. Another rather weak point is the treatment of particles; for an adequate revision of this a very large body of accurate texts would be needed. There are also some minor sins of omission and commission.

The strongest point in the present treatment, the writer feels, is the morphophonemic section. By the devices introduced therein, an extremely complex set of variations of forms of morphemes is shown to be fundamentally quite regular, and a much more efficient treatment of specific morphological points is made possible.

TABLE OF CONTENTS

1. Phonology	1
1.1 Table of Phonemes	1
1.2 Prosody	1
1.3 Junctures	2
1.4 Clusters.	2
1.5 Syllabification	4
1.6 Stops	6
1.7 Spirants.	10
1.8 Nasals.	12
1.9 w and j	13
1.10 Vowels	15
1.11 Abnormal Phonetics; Interjections.	16
2. Morphophonemics	17
2.1 The Morphophonemic Problem.	17
2.2 External Sandhi	21
2.3 Internal Sandhi; Formulae and Symbols	23
2.4 Internal Sandhi; Rules for Reduction.	25
2.5 Internal Sandhi; Weak-Vowel Loss.	28
2.6 Internal Sandhi; Simplification of Clusters	30
3. Morphological Purview	32
A. Patterns by which bound forms are formed from bound forms.	33
B. Patterns by which free forms are formed from bound forms.	37
4. Derivation.	42
4.1 Roots, Medials, and Unanalyzable Stems.	42
4.2 Noun-Forming Finals	45
4.3 Intransitive Finals	47
4.4 Intransitive Finals; Reciprocals	51
4.5 Intransitive Finals; Reflexives.	52
4.6 Intransitive Finals; Passives	53
4.7 Transitive Finals.	54
5. Personal Prefixes	56
6. The Noun.	59
6.1 Gender.	59
6.2 Dependency.	61
6.3 Noun Compounds.	63
6.4 Classification of Noun Stems.	64
6.5 Diminutives and Pejoratives	65
6.6 Formation of Possessed Themes	67
6.7 Flexions.	76
6.8 Locatives	77
6.9 Vocatives	82
6.10 Preterit	83

7. The Verb	33
7.1 Ablaut, Preverbs, and Inserted Elements	83
7.2 Reduplication	88
7.3 Transitive Animate Suffixation.	90
7.4 Animate Intransitive Suffixation.	97
7.5 Transitive Inanimate Suffixation.	105
7.6 Inanimate Intransitive Suffixation.	108
8. Numerals.	111
9. Substitutions	113
10. Particles.	115
11. Syntax	118
11.1 Introduction; Style.	118
11.2 Types of Clauses	120
11.3 Subject, Object, Predicator.	122
11.4 Participials	124
11.5 Junction; Possession	125
11.6 Other Junctions.	125
11.7 Junctions involving Quantifiers.	126
11.8 Particle Modification.	127
11.9 Equational Predications.	128
11.10 Grouping of Clauses	130
11.11 Elliptical Clauses, Minimal Clauses, and Extraposition.	130
11.12 Pivoting.	130
11.13 Sequence of Person.	132
11.14 Sequence of Tense.	133
11.15 Pseudo-Subordination.	134
11.16 Quotation and Parenthesis.	134
11.17 Subordination	135
11.18 Word Order.	136
12. Text	138
Lexicon.	147

Abbreviations;

JS Jim Spear, chief informant.
 FP Forest Potawatomi; used for a form which JS claims
 is peculiar to Wisconsin, not used in Kansas.
 others are explained in the text.

1. PHONOLOGY

1.1. Table of Phonemes.

Consonants:

short stops	p	t	č	k	ʔ
long stops	p [•]	t [•]	č [•]	k [•]	
short spirants		s	š		
long spirants		s [•]	š [•]		
nasals	m	n			
"semivowels" ¹	w		j		

Vowels:

i	o
•	
ε	a

1.2. Prosody. Potawatomi has a minimum of significant phonetic features other than segmental phonemes. There are no tonemes nor tasemes. Statements, questions, and other types of utterance are not distinguished by intonation. However, at least in formal discourse, though perhaps less so in conversation (see §1.1), it is necessary to distinguish between a sentence-final intonation and a sentence-medial but phrase-final pattern. Both are characterized by pause and lowering of pitch, but these are more marked for sentence-final than for non-sentence-final phrase-final. The former will be indicated with a period (.), the latter by a comma (,).

¹This term is somewhat of a misnomer; see §1.9.

1.3. Junctures. Within a phrase certain segments will be joined together by what may be termed internal juncture, others by external juncture. These terms refer to the structure of consonant clusters and to syllabification. External junctures occur most freely between elements which are minimum free forms, or words -- the shortest elements which can, under proper conditions, function as complete phrases (§2.1). But the two criteria are not completely co-determinate. Thus the form ntɛp-nɛ·a I get to kill him is a single word, but contains an external juncture, comparable to that in mt·ɛkwap ntott·ənən I acquire a bow, which is two words. On the other hand, there is nothing in the phonetics of the expression kwɛ nwapma I see the woman to reveal that it is two words; the "ɛ nwa" is exactly like that within the single word mmɛnwa it is roomy. Words will be separated by spaces; certain elements within the word will be separated by hyphens (see §2.1) -- the hyphen is not a phonetic sign. But external junctures will be found to occur only between words or between word-parts separated by a hyphen.

1.4. Clusters. The relevant unit for the analysis of phonetic structure is therefore not the word, but the segment standing between two external junctures, or between one such and the beginning or end of the phrase. Such a unit must begin with a consonant or cluster, may end with consonant or cluster or vowel, and consists of an alternation of consonants or consonant clusters and single vowels; there are no vowel groups. The word non-syllabic will be used to indicate any consonant or group of consonants which stand between two successive vowels, or initially or finally in the segment. The three significant

positions for non-syllabics are initial, medial, and final. Since the greatest variety occur medially, it is convenient to describe the medial types first and then delimit the groups thereof which can stand initially or finally.

The permitted medial non-syllabics can be tabulated as follows:

1a) p t č k

1b) *

2) p• t• č• k•

3) s š

4) s• š•

5) m n

6) w j

7) 1 plus 1, 2, 3, 4, or 5; except 1b plus 2, *tč, *tč•, *??, and č plus 4.

8) 2 plus 5

9) 3 plus 1, except *sk

10) 3 plus 3 or 5, except the geminates *ss and *šš.

11) 4 plus 1 or 5; but of these --

12) s•k -- requires special treatment.

13) 5 plus 1, 2, 3, 4, or 5

14) 6 plus 1, 2, 3, 4, or 5

15) 1, 5, or 6 plus 9 or 12; this is the pattern, though many do not occur in the material so far analyzed.

16) 9 or 12 plus 1, 2, 3 or 5; the same comment applies here.

17) Any of the above plus 6; except *ww and *jj; some others

are not testified but would presumably be perfectly pronounceable.¹

Of all these, only the following can occur initially; 1, 3, 4, 5, 6, 7, 9, 10, 11, 13, 14, 15, and the varieties of 17 having one of these as the element before the w or j. Final position is even more restricting, since here occur only 1, 3, 4, 5, 6 and 9.

When a word or word-part ending in a permitted final precedes one beginning in a permitted initial, the resulting combination cluster will in certain cases be a permitted medial type, in which case the juncture is internal; in others it will not be a permitted medial, and when this happens the juncture is external.

1.5. Syllabification. Here again the segment relative to which patterning is described is that standing between two external junctures or between one such and the beginning or end of the phrase. Each vowel constitutes the nucleus of a syllable, and no consonant does. The initial non-syllabic goes with the vowel following it, the final non-syllabic with that preceding it. A medial non-syllabic consisting of a single consonant other than a long stop or long spirant, or of such a short consonant followed by w or j, goes with the following vowel. For all other medial non-syllabics syllabification varies freely, the point of lowest sonority and stress coming optionally before the beginning of the entire non-syllabic, or within the first member (within the whole non-syllabic if it consists of a single long consonant), or, if the non-syllabic is a cluster not

¹In the notes is one form, njew'-tpə'kən four yards or miles, njew'-tpə'kas' four o'clock, with an anomalous cluster. This may have been misheard. See §8.

having a long stop or long spirant as its first member, at the end of that first member. If one unit of consonantal length be assigned to each consonant except the long stops and spirants, and two each to them, then one can say that for all medial non-syllabics except those first enumerated above the point of syllabic division falls optionally before, during, or after the first unit of consonantal length in the non-syllabic. Despite this variability, the first consonant in such a non-syllabic will be termed syllable-final.

JS, chief informant, would syllabify readily, but in doing so there would be certain distortions. Each word was made into a phrase, so that the phrase-initial and phrase-final sandhi alternants were actualized for every word instead of the phrase medial alternants for some, as was the case in more rapid and natural speech (see §2.2, §11.1). Initial preconsonantal w was made a syllable, either wə- or ?o-. Normal syllabification as described here is based on JS's special performance and on observation of undistorted discourse.

Preconsonantal initial w and interconsonantal nasals have a greater sonority than the immediately adjacent sounds, and so give the impression of functioning as syllabics. In rapid speech the form ntɛp-nɪs'a I get to kill him may sound like three or four syllables, the second n frequently, the first more rarely, assuming syllabic function. In slow speech only the vowels stand out as really sonorous points. For these marginal cases the term semi-syllable might be

coined; but there is nothing in the phonetic patterning of the language which demands their special recognition.

1.6. Stops. The following table shows the range of variation of stops:

b	B	p	p ^c	N ^p	p [•]	N ^{•p}
d	D	t	t ^c	N ^t	t [•]	N ^{•t}
ʃ	ʃ̃		č		č [•]	
g	G	k	k ^c		k [•]	
		ʔ	ʔ ^v			

The symbols in the same horizontal rows represent sounds made with approximately the same positions of articulation. That for the first row is bilabial. The d-t series is pronounced with the front edge of the tongue in contact with the roof of the mouth just behind the teeth, but in front of the alveolar ridge; though this is the typical position there can be a good deal of variation in the particular point at which contact is made without significantly altering the sounds produced. The č series are affricates, for which the front surface of the tongue, optionally excluding the portion immediately behind the tip, comes into contact with the roof of the mouth in front of, on, and behind the alveolar ridge; here again there can be some non-distinctive variation. The g-k series has contact between the rear of the tongue and the velum; there is no particular variation in this position depending on preceding or following vowels, and noticeably, from an English bias, no pronounced palatalization before the front vowels. The glottal series are pure, with no laryngeal or

other coloring.

The symbols in the same vertical column represent sounds with approximately the same manner of articulation. b, d, ʃ and g are fully voiced. Those in the second column are very slightly voiced, or voiceless, lenis, and unaspirated. The next are voiceless, relatively fortis, unaspirated, and the next voiceless fortis aspirated. Those written p·, t·, č· and k· are voiceless, considerably fortis, unaspirated, and long; they are more strongly enunciated than those of any other set. The symbols N^p and N^t both indicate closure of, followed by release of, the nasal passage; N^p has concomitant labial closure, N^t dental closure. N·^p and N·^t indicate the same sounds held longer, and slightly more fortis.¹ For the affricates there is no contrast between aspirated and unaspirated; the release is always spirantal. "Aspirate release" for ʔ^v means a slight murmur release with the quality of the vowel which preceded the ʔ, though optionally this may be practically absent. G is slightly spirantal.

b, d, ʃ and g only occur preceded by a nasal and followed by a vowel or semivowel:

ʔε-mbot^c he died

ndəʒja I go

nʃəmos·ε he is fastened

ngəʒaDəs I am glad²

¹Note that the letter N implies neither nasal resonance nor dental position of articulation, as used in this section. The symbol is used thus by Boas, F., "Handbook of American Indian Languages," BAE-B 40 pt 1, Introduction, p 20.

²Words are given in narrow transcription until each phonemic point has been made, thereafter in terms of the phonemic conclusions.

B, D, Ĵ and G occur between vowels or semivowels:

mdamnaBo hominy, corn soup

ʔoDan town

rmaĴi I come

ʔε-Gi-wap^ctək^c he saw it

p, t, k and ʔ occur initially before a vowel or semivowel, or medially before a vowel or semivowel if preceded by something other than a vowel or semivowel or nasal; or initially or medially before a non-homorganic nasal. ʔ also occurs after a nasal before a vowel or semivowel (like b, d, Ĵ and g), and between vowels or semivowels (like B, D, Ĵ and G):

požo hello!

ʔεs·pən raccoon

tawε he trades

ndεp^ctan I have enough of it

kiw they

ma·kwε blood

ʔazjan diaper, loin cloth

k^cčep^cʔewε he runs out

pnaĴa it is stale

ʔε-Gi-pnaĴak^c it was stale

ndonʔəš·ma I bury him

ndεʔik^c in my heart.

The aspirated stops occur in syllable-final before a consonant other than nasal; ʔr in absolute final; ʔ^v occurs also in syllable-final before a nasal. Before a spirant, however, the aspiration

tends to be lost in the spirantization, and the stop might almost as well be analyzed as of the unaspirated variety:

ndɛp^ctan I have enough of it

ndot^ct·ənan I get it

ndək^ckəs I hide

ʔɛ-N^tnoʔ^s·əmek^c I buried him

psoʒɛ or p^csoʒɛ he is in a dull light.

č occurs both in the positions where the aspirated stops are found and those where the unaspirated varieties are found:

čo no

k^cčɛp^cʔəwɛ he runs out

močma please

močkɛ nevertheless

wɛč-ks·ənjak^c towards the north (this is an external juncture; therefore the č is final).

p^c, t^c, č^c and k^c are found non-initially, before a vowel, semivowel, or non-homorganic nasal:

nwi^ʔp·ɛma I sleep with him

ngwɛt·ač I am frightened

nəč·imnən peas

ngɛk·endan I know it

k^cčit·mok^c they try

N^p, N^t, N·^p and N·^t occur only before homorganic nasals, in the clusters N^pm, N^tn, N·^pm, N·^tn. The short varieties are found initially and medially, the long ones only medially:

N^p mat^cse he lives

ʔε-N^tnezjan I am here

ndoD^oN^tnan I get it

A review of these distributions of stop types will reveal that the only cases of significant distinction in the same position are p^{\cdot} - t^{\cdot} - \check{c}^{\cdot} - k^{\cdot} versus p - t - \check{c} - k and N^p - N^t - versus $N^{\cdot p}$ -- $N^{\cdot t}$. Since it is primarily length which distinguishes these two pairs of types from each other, it seems proper to take that factor as the primary one in classifying the allophones into phonemes. Since all but the voiceless fortis unaspirated longs and the long nasal-release stops are relatively short, the latter two can be regarded as positional variants of one set of stop phonemes, hereafter written p^{\cdot} , t^{\cdot} , \check{c}^{\cdot} , and k^{\cdot} , and all the others as variants of a second set, hereafter written p , t , \check{c} and k . The limited distribution of the long stops might lead one to characterize them as defective. ʔ and ʔ^v are in complementary distribution, and will henceforth be written ʔ; this phoneme goes with the short stops rather than with the longs.

Stops occur freely before homorganic stops; each of such a geminate cluster is released according to its normal variant for that position. Examples are to be found above.

1.7. Spirants. The variety of spirants is far less than that of stops. It is indicated in the following table:

z	Z	s	s [·]
ž	Ž	š	š [·]

The first row are approximately like the English s and z in position of articulation; the sides of the tongue are in contact with the roof of the mouth in such a way that the only passage left is a small one between the space just behind the tip of the tongue and the roof of the mouth in front of the alveolar ridge. For the "shibilants" friction is produced between a considerable area near the front end of the tongue and the roof of the mouth about the alveolar ridge; the sound is like the off-glide of the affricates described in 9.6. The first column are fully voiced; those in the second lightly voiced or unvoiced, in either case with light articulation, contact not being made vigorously; s and š are fully voiceless and with stronger contact and articulation; s· and š· are strongly articulated, voiceless, and long.

The varieties in the first three columns are in complementary distribution but in each position contrast with the variety in the fourth column. Therefore there are but two phonemes in each position, which after the examples in this section will be written as s and š, s· and š·.

z and ž occur between vowels or semivowels, or after a nasal before a vowel or semivowel:

ʔazjan diaper, loin cloth

požo hello!

mžezak horsefly

Compare:

ʔos·ən his father

mčemoš•ən he is stuck

mš•a it is big

Z and Ž occur initially before a vowel or semivowel; sometimes a final spirant has this quality instead of that of s and š:

Zipe stream

šiw here

nkežateZ or nkežates I am glad

Compare:

s•ən stone

š•əmš•ən feed me!

nos• my father

In all the other positions in which spirants can occur (see §1.4), s and š are found; e. g.:

snəkət it is hard

škote fire

1.8. Nasals. m and n are always fully voiced. m is bilabial; n in position like t and t• (see §1.6), or, optionally, before k, in velar position like k; this assimilation takes place less freely before k•:

nməmačkona I hold him

nəne man

nkešates I am glad

The quasi-syllabic functioning of nasals has been discussed in §1.5.

Phonetically speaking, m• and n• are also found:

ntəm•ačkona I hold him

ntən•im my man, husband

The phonemic analysis of these presents a problem. m• and n• are phonetically like the long stops and spirants, in that in each case there is long closure and single release. In cluster patterning, m• and n• are like geminate stops (see §1.6), such as kk and kk•, in that both can occur initially or medially, but not finally, and none of them can be preceded in the same cluster by any other consonant, nor followed by any except w or j. The resemblance functionally of m• and n• to the long spirants is less, since the latter can occur also finally and can function in larger clusters. The functional similarity to the long stops is least of all, since the latter occur alone only medially, but quite freely in clusters. If the phonetic resemblances be thought most important, then m• and n• are unit phonemes; but if, as the writer thinks, the configurational data is more important, then despite the single release the long nasals are to be analyzed as clusters, mm and nn, like the geminate stops -- comparable in every way to mn and nm, which also occur, except that in mm and nn the first member has no separate release. This conclusion has been accepted in the orthography and in the discussion of consonantism.

1.9. w and j. Though w and j have, for convenience, been referred to occasionally in the foregoing as "semivowels," they are consonants in precisely the same sense as are the stops and spirants and nasals,

not sounds configurating partly as consonants, partly as vowels. They approximately like English w and y. Intervocalically they are enunciated rather lightly; in no position is either characterized by any friction. Within a single syllable every possible combination of w or j plus vowel or of vowel plus w or j occurs, except *wo and *ji; and in those conditions semivowel plus vowel gives the acoustic impression of a rising diphthong, vowel plus semivowel that of a falling diphthong. Final or interconsonantal ij and ow are hard to distinguish from i and o; the effect of the second element is rather to prolong the vowel sound than to produce a distinct glide from high to higher. This is true of ij than of ow.

?ajač more and more.

?asjan loincloth, diaper

?ε-wi-tok·it he will wake up

?ε-pwa-waptək he didn't see it

ntečk·osij I am small

knim?etijmən we dance together

Initial preconsonantal w is actualized as short ● -- vocalic though non-syllabic, not preceded by a glottal stop, not diphthongal. It might be described as a pre-labialization of the following consonant. The sound is phonetically as far from w in other positions as it is from the vowel o, but analyzing it as a variant of w permits the generalization that no phrase begins with a vowel. But see §1.5.

wkəma chief

wkwəs·ən his son

1.10. Vowels. a, o, ɛ and i are relatively long; e is shorter, less stressed, and far more variable in quality. a has approximately the quality of the vowel in Chicago English calm or balm -- halfway between the first vowel of father and that of yawn or saw in the same English dialect. o is non-diphthongal, otherwise much like the vowel in English moan; a free variant is higher and more rounded. ɛ is as in mend; before j a bit higher. i is as in machine, but non-diphthongal. The frequently made distinction of "tense" versus "lax" apparently has no meaning for Potawatomi vocalism; all the vowels fall about midway on the scale tense-lax, if anything a bit nearer the latter pole, though this does not give rise to diphthongalization.

e varies from the English sound in hut to that in hit, depending on the influence of surrounding phonemes. It is highest if preceded or followed by j. A preceding or following n, s, s', č, č', š, or š' makes it high but not so high as does j. Other consonants leave it fairly low; but w rounds it and brings it relatively far down. When followed by a glottal stop and a vowel or w or j, it tends to acquire the coloring of the element after the '. Thus its actualization in any position is the result of the conflict of forces from before and behind, highest if "palatalizers" precede and follow, lowest if w precedes and follows.

čk·wajən it is short

wiwš·ən his old woman

nte'akmənən my snowshoes

nčikwən my knee

motej bottle

ntə'wənes I am pretty

In final position ə is high and hard to distinguish from ɛ, particularly if postconsonantal w precedes:

ʧiptəpə he sits down

kmotə he steals

kkəkəpwe he has something

1.11. Abnormal Phonetics; Interjections. A number of frequently used interjections do not conform in their phonetic structure to the phonemic scheme of the rest of the language. Presumably there is a well-patterned phonetic scheme for these marginal cases, but the examples forthcoming are not sufficient for a pattern analysis of it. To be noted particularly, however, are the presence of an h, of optional nasalization (which does not occur noticeably elsewhere in the language), and of distinctive intonation curves. The interjections which must be considered are:

ʔá·hā̃·w well! aha! then, next. The vowels are distinctly long. The acute accent indicates high pitch, the circumflex falling. The nasalization is sometimes obvious, sometimes lacking.

hĕ̃· Hm! So! The stable features are the intonation, the nasalization, and the h-opening. The vowel quality can vary, or an oral closure such as m or n may be held throughout the utterance.

həw hello! (sometimes) goodbye!

wá' what? what did you say? (high pitch and stress)

wá·t·ójà· extreme surprise, as when meeting some one whom one has not seen for a long time.

2. MORPHOPHONEMICS

2.1. The Morphophonemic Problem. The segment of discourse standing between two period intonations is a sentence. The minimum constituents into which a sentence can be analyzed are morphemes. Any sentence consists of a succession of morphemes, some joined together loosely, others tightly, some modified not only mechanically by the surrounding morphemes but also productively by ablaut and reduplication.

But between the sentence and the morpheme there is an intermediate level of synthesis, that of the word. A word consists of one or more morphemes, and constitutes all or part of a sentence. Except for certain marginal cases the word is a well-integrated, distinct unit. Thus the word is the minimum free form; it can, under proper conditions, constitute a complete utterance, but contains at least one immediate constituent -- unless it is itself a single morpheme -- which is not so characterized. This is a difficult criterion to apply in some cases, and another supplements it. The phrasing of a sentence -- the placement of comma intonations -- depends considerably on rate of speech. In rapid discourse entire long sentences will have no internal breaks, whereas in slower speech, especially as when dictating to a linguist, comma intonations will be inserted much more frequently. But no matter how slow the speech no word will ever be broken. Therefore by the simple device of having the informant speak quite slowly a tentative word-division is obtained.

There are, as was indicated, some marginal cases. For example,

the interrogative particle *nə* can never occur alone, but only immediately following a finite verb. In slow phrasing, however, it is sometimes uttered separately. In such cases the treatment as word or as word-part, as reflected in the orthography and in the place in the grammar in which it is mentioned, is to a certain extent arbitrary. The element *nə* has been written as a separate word and is dealt with in §10 and §11.2; to regard it as a final position suffix would have made just as clear a presentation.

The word is not a phonological unit. This is made clear in §1.3; internal junctures may occur between words, and external junctures within them.

The phonemic structure of many words and morphemes depends on their position in the total stream of discourse. Thus some words have different forms for phrase-initial or phrase-medial; others for phrase-medial as over against phrase-final. These variations may be ascribed to external sandhi. External sandhi changes are relatively simple and may be treated as modifications of basic forms which call for no complex non-phonemic system of orthography to record them. Thus the word for woman is basically *k·wε*, as in *nwapma k·wε* I see the woman; in phrase-initial the long stop is shortened; *kwε* *nwapma* I see the woman.

Internal sandhi, the alternation in form of morphemes depending on their position in the word and on the precise nature of the adjacent morphemes, is much more complex. It may best be approached through some examples. Consider the following pairs of forms:

nkətšəwɛ he wins a race
 nnəktəšwɛ I win a race

ktəmočkɛ he is fishing
 nkwətmočkɛ I am fishing

pɔs·ɛ he walks
 npəms·ɛ I walk

In each pair, the second differs from the first in having an initial element n- added, and in having a different internal structure for the remainder, though in each case similarities can be seen. These similarities and the precise nature of the differences are better revealed if the forms be written thus:

n ket šəwɛ
 nnək təš wɛ

k təmočkɛ
 nkwet močkɛ

p ɔs·ɛ
 npəm s·ɛ

That is, certain vowels, and all the consonants except the w in nkwətmočkɛ, are constant, whereas other vowels appear in one form, fail to appear in the other. This alternation of form is mechanical; it depends entirely on the nature of the morphemes concerned and the order in which they occur. There are no such contrasting forms as, say, pɔs·ɛ versus *pənos·ɛ or *pəms·ɛ; if there were, then the alternation would be not mechanical, but a productive process, an ablaut.

Another set of internal alternations which must be dealt with is shown in the following pairs:

rmina I give it to him
 kmiš you give it to me

nnəs·a I kill him
 knəš· you kill me

Here the first of each pair starts with n-, and ends with -a, the second starts instead with k-; those of the first pair are further distinguished by an alternation between n and š before the final element (which is zero in the second form); those of the second pair have a comparable alternation between s· and š·.

Changes of these two types are so far-reaching in internal sandhi that it is convenient to devise a supplementary morpho-phonemic alphabet by which the apparent irregularities can be reduced to regularity. There are also minor discrepancies, which are not taken into account in the system of morphophonemics which will be used. Although in theory a system of symbols could be invented such that the lexical entry of each morpheme would tell precisely what form that element has in every single position in which it can possibly occur, in practice it is not efficient to do so; the much greater complexity of the morphophonemic description would more than outweigh the lexical and morphological gain. As an example of such a "really irregular" irregularity may be given the following (97.4). The third person plural indicative ending for intransitive animate verb stems, -k, changes an immediately preceding e to i; no other element does this. Thus kšatsə he is glad, kšatsik they are glad; but, with the plural imperative suffix which is also -k, kšatsək you be glad!

A further complication is that not all elements within a word are joined by internal sandhi; certain morphemes characteristically are

linked by external sandhi to the following element even though falling in the same word as does the latter. When forms are written in morphophonemic orthography (marked always by a root sign, √), internal sandhi is indicated by a hyphen, external sandhi within a word by a "double hyphen" -- "=". All those elements between which internal sandhi applies must be dealt with as a unit; a = breaks this just as does the beginning or end of a word as a whole. In phonemic orthography points of external sandhi are marked by a single hyphen. To keep this relation clear the following table may be given:

<u>basic</u>		<u>phonemic</u>
√...-...	=
√...~...	>	...-...
√... ...	>

The relation between sandhi and junction (§1.3) is this: internal sandhi invariably gives rise to internal juncture. External sandhi, within a word or between words, may give rise to internal or to external juncture. Conversely; internal juncture within a word may be the product of internal or external sandhi; internal juncture between two words is the product of external sandhi; external juncture anywhere is the product of external sandhi.

External sandhi is treated in §2.2, internal sandhi in §§2.3-2.6. Because they are so intimately bound up with verb inflection, ablaut and reduplication are left to §7.1 and §7.2 respectively.

2.2. External Sandhi. There are many forms which alternate

between initial short and long stop. The long stop is found when the form is preceded in the same phrase by a form ending in a short stop, nasal, semivowel, or vowel; the short stop is found when the preceding form in the same phrase ends in anything else, or when the form in question is in phrase-initial. Thus nwapma k·wε I see the woman, but, altering the order of the words, kwε nwapma.

There are many forms which end in a long stop if the following form, in the same phrase, begins in a nasal or a vowel (for which see below), but in a short stop under all other conditions. Thus mək· nwapma I see the beaver, but nwapma mək.

In these cases it is necessary to assume the form with the long stop as basic, since there are others having a short stop in all positions; nwapma kak or kak nwapma I see the porcupine.

Within the phrase, after a form ending in a consonant, a prevocalic initial ʔ may be uttered very lightly or dropped altogether; ktəšjamen ʔotan or ktəšjamen we go to town. If the preceding form is one which ends basically in a long stop, then either the preconsonantal or the prevocalic sandhi variant thereof may be actualized when the ʔ drops; mək ʔotə, or mək otə, or mək· otə the beaver over there.

w cannot stand interconsonantly within the phrase. Thus there is a variation between wtək·wεjomən wapman he sees his wife, and wapman tək·wεjomən. The form with the w is basic.

There is free variation between phrase-initial prevocalic w or j and the same preceded by ʔ. Within the phrase the ʔ may be inserted

in some cases, as when the preceding word ends in a vowel or semivowel; in no case is the difference distinctive. However, since ' is a phoneme, it must be assumed that when it occurs it occurs. On this point orthography will diverge from the phonemic ideal and write the simple w and j in all cases.

All these variations apply equally to words and to forms which are parts of words but which are preceded or followed by external sandhi. The examples given so far are all of independent words. As a contrasting case may be given the following: wk·ew easily!, but wěč-k·ew-piktpeš·ek why it breaks easily.

2.3. Internal Sandhi; Formulae and Symbols. The basic transcription of a morpheme, from which all its specific forms in actual occurrences can be predicted, is a formula. The unit symbols in formulae are morphophonemes; for these the same written signs will be used as for phonemes, with several additions. For convenience, since there is no danger of confusion, several terms used in phonology will be used here with parallel meanings; some morphophonemes are vowels, others consonants, there are syllables and non-syllabics in the formulae. Citations of formulae will henceforth be marked with a root sign(√), so that there will be no possibility of mistaking them for words.

In addition to the letters which are used both for phonemes and for morphophonemes, the following are used exclusively for the latter: α, O, E, #, N, T·, T, S.¹

¹ This N of course has nothing whatsoever to do with the N used temporarily in §1.6.

α and O may be termed weak vowels. They give rise sometimes to phonemic zero, sometimes to \emptyset and o respectively; thus $p\alpha\sigma\cdot\epsilon$ he walks and $np\alpha\sigma\cdot\epsilon$ I walk both contain the stem $\sqrt{p\alpha\sigma\cdot\epsilon}$. The other vowels are strong.

E is used as a final element in the formulae of noun stems where, if no suffix is added, it gives rise to phonemic zero, if a suffix is added it becomes ϵ ; $nk\cdot at$ my leg, and $nk\cdot at\epsilon n$ my legs both contain $\sqrt{k\cdot atE}$.

$\#$ is the equivalent always of zero phonemically, but morphophonemically functions as a consonant. Thus the word formula $\sqrt{k\alpha\check{s}at\alpha\sigma\#}$ ends in a consonant, and reduces to $k\check{s}at\emptyset$ he is glad, just as $\sqrt{nck\alpha\check{s}at\alpha\sigma}$ reduces to $nck\check{s}at\emptyset$ I am glad.

N , T , $T\cdot$, and $S\cdot$ are used for the morpheme-final consonants which appear sometimes as n , t , $t\cdot$, $s\cdot$, sometimes as \check{s} , \check{c} , $\check{c}\cdot$, $\check{s}\cdot$; for examples see §2.1.

Formulae have a typical structure which is analyzable in terms of types of morphophonemes just as phrases and segments between external junctures are analyzable in terms of phonemes. No vowel clusters are permitted. The morpheme may begin and end with vowel or with non-syllabic. The only permissible non-syllabics in any position are types 1, 2, 3, 4, 5, 6, 9, 12, and the varieties of 17 having one of these as the prior element (§1.4). N , T , $T\cdot$ and $S\cdot$ occur only finally. $\#$ occurs finally, or alone (constituting an entire morpheme), or before a final w or j .

To say that only the non-syllabics specifically listed above can occur in formulae does not mean that every morpheme containing, in its actualized forms, a more complex cluster, is found in at least one actualization with that more complex cluster broken up and a vowel standing between its parts. The word kiwnε I wallow around contains "kiwnε", which never appears in a form with a vowel between the w and the n, and cannot be further analyzed. But if "kiwnε" be formulated as $\sqrt{\text{kiwn}\epsilon}$, the rules for weak vowel loss (§2.5) will account for the loss of the α in each case. This procedure would be arbitrary were it not for the fact that it gives a simpler typical form for the basic patterns of morphemes. On the other hand, there is never a vowel between the \check{s} and the k in words containing the element $\sqrt{\text{a}\check{s}\text{k}\text{O}\epsilon}$ fire, and if it were assumed to be $\sqrt{\text{a}\check{s}\text{a}\text{k}\text{O}\epsilon}$ the rules for weak vowel loss would not explain the constant loss of that postulated second α . By making the formulae as simple as possible, so far as non-syllabics are concerned, on the basis of the group of words which contain each morpheme, the simple statement of their form given in the above paragraph is made feasible; but it is not possible to eliminate some relatively complex clusters, such as $\check{s}p$, $\check{s}k$, and $s\cdot k$, from them.

2.4. Internal Sandhi; Rules for Reduction. From morphology (§3-10) one determines what specific morphemes are to enter into a given word, in what order, with what types of sandhi, with what ablauting and reduplicating, and with what specific irregularities. From lexicon

one determines the precise form of each morpheme to be used. Given this information, the following series of operations reduces the succession of formulae to the desired words:

1) When the formulae have been placed in proper sequence the following alterations are made at the points of contact. If a weak and a strong vowel come together the weak one is dropped (but see §2.5 for the special treatment of morpheme-initial *o*). If two weak vowels come together, they merge into one, which is *o* if either is *o*, otherwise *u*. When a morpheme ending in a consonant is followed by one beginning in a consonant, connective \sqrt{a} is inserted. This is irregularly omitted in a few cases before a semivowel; see especially §8.

2) Before connective \sqrt{a} and before an initial *i* of a following morpheme, the changeable *N*, *T*, *T'*, *S* give \check{s} , \check{c} , \check{c}' , \check{s}' ; before anything else they give *n*, *t*, *t'*, and *s*. Before *i*, *j* changes to ? ; before *o*, *w* changes to ? .

3) When 1) and 2) have been followed out there is obtained what may be termed a word formula -- a sequence of syllables much like that of an individual morpheme, still in terms of morphophonemes, not phonemes. On this formula,

3a) The process of ablaut applies, if the form is to be ablauted (see §7.1).

3b) The pattern of weak vowel loss operates; this is described in detail in §2.5.

4) The clusters resulting from the dropping out of weak

vowels are altered according to specific rules given in §2.6.

5) Reduplication occurs if the form is to be reduplicated; see §7.2.

From the point of view of external sandhi, the result of these operations is the basic form, and must be properly altered to suit its position in the phrase.

These "rules" are sets of operations which must be performed precisely in the order given if the proper result is to ensue. In the following examples are given first the unjoined morphemes, in the proper arrangement, then the results of each process in turn; only the final result, unmarked by a root sign, is a word in phonemes.

√n √nakatāN √a
 1) √n-a-nakatāN-a
 2) √nanakatāna
 3) √nnektēna
 4) nnektēna I beat him in a race

√n √nakatāN √we
 1) √n-a-nakatāN-a-we
 2) √nanakatāšawe
 3) √nnektēšwe
 4) nnektēšwe I win a race

√pam √j √k (changes previous e to i)
 1) √pam-a-j-a-k > √pam-a-j-i-k
 2) √pamā'ik
 3) √pmē'ik
 4) pmē'ik they are around here.

√kwatamoT √ke √#
 1) √kwatamoT-a-ke-#
 2) √kwatamočake#
 3) √kwtēmočkē#
 4) ktēmočké he is out fishing.

$\sqrt{anana\#w}$	$\sqrt{anana\#w} \sqrt{k}$
1) $\sqrt{anana\#w}$	1) $\sqrt{anana\#w-a-k}$
2) $\sqrt{anana\#w}$	2) $\sqrt{anana\#wak}$
3) $\sqrt{nəne\#w}$	3) $\sqrt{nən\#wək}$
4) $nəne$ <u>man</u>	4) $nənwek$ <u>men</u>

$\sqrt{nat} \sqrt{pak} \cdot ač \sqrt{wep} \sqrt{N} \sqrt{a}$
1) $\sqrt{nat-a-pak} \cdot ač-a-wep-a-N-a$
2) $\sqrt{natapak} \cdot ačawepana$
3) $\sqrt{ntepk} \cdot əčwepna$
4) $ntepk \cdot əčwepna$ <u>I let go of him</u>

$\sqrt{n} \sqrt{pak} \cdot ač \sqrt{wep} \sqrt{N} \sqrt{a}$
1) $\sqrt{n-a-pak} \cdot ač-a-wep-N-a$
2) $\sqrt{napak} \cdot ačawepana$
3) $\sqrt{npək} \cdot əčwepna$
4) $npəkəwepna$ <u>I let go of him</u> (notice short k)

2.5. Internal Sandhi; Weak-Vowel Loss. For the pattern of weak-vowel loss the formulae of words, or of parts of words which are joined to the rest by = (external sandhi), are subject to a dual division. In the first division fall morphophonemic disyllables with two weak vowels. In these the first weak vowel drops, the second stays. Thus:

$\sqrt{ki} \sqrt{taša} \sqrt{j} \sqrt{t}$
1) $\sqrt{ki=taša=j-a-t}$
2) $\sqrt{ki=taša=j-a-t}$
3a) $\sqrt{ka=taša=jat}$ (ablauted)
3b) $\sqrt{ka+tšə-jət}$
4) $ka-tšə-jət$ <u>where he was</u>

$\sqrt{ak} \cdot a$
1) $\sqrt{ak} \cdot a$
2) $\sqrt{ak} \cdot a$
3) $\sqrt{k} \cdot ə$
4) $k \cdot ə$, $kə$ (depending on position) <u>land</u> .

All other types of words or segments fall in the second class.

In these, a final weak vowel drops; but a weak vowel followed by a final non-syllabic, or by a non-syllabic which stands final because a final weak vowel has dropped, is always retained. In the rest of the formula a different pattern operates: in any series of one or more syllables containing weak vowels, each alternate one, beginning with the first, loses the vowel. This pattern of alternation is interrupted by a syllable containing a strong vowel, or by a weak vowel of the final syllable which is being retained according to the first part of this rule, or by a =. To the examples given in §2.4 may be added the following:

- 2) √ačatamo#j
 4) čotmo chipmank
- 2) √nakiwane
 4) nkiwane I wallow around
- 2) √načáč·amO
 4) nčáč·am I sneeze
- 2) √čáč·amO#
 4) čáč·amo he sneezes

Morpheme-initial O requires special treatment. When preceded by an element ending in a consonant, it is retained or dropped according to the normal pattern, but if retained the next syllable may nevertheless be thought to stand second in a series, and may also retain its vowel. Thus:

- 2) √natOtat·anan
 4) ntott·ənan or ntotət·nan I acquire it
- 2) √natOkomam
 4) ntokmaz or ntokənam my chief

Loss of the next vowel is, in these conditions, perhaps more usual than retention. When not preceded by any element with which it must join in internal sandhi, O changes to w, but this necessarily counts as a "weak-vowel loss" for the operation of the pattern:

- 2) \sqrt{Okama}
 4) wkəma chief
- 2) $\sqrt{?ε=Otət·ənəman}$
 4) ?ε-wtət·nəman I acquired it

There are no cases of morpheme-initial O falling after a morpheme, in the same internal sandhi segment, which ends in a strong vowel.

Non-initial O in morphemes is treated precisely like α. It must be noted that both o and ə, strong morphophonemes, also occur in formulae, being retained under all conditions:

- 2) $\sqrt{t·ət·ε}$
 4) t·ət·ε it is ripe

2.6. Internal Sandhi; Simplification of Clusters. Except for the changes specifically mentioned here, clusters resulting from the loss of weak vowels may be assumed to remain unchanged — that is, each consonantal morphophoneme resolves to the phoneme which is written with the same letter, and # resolves to nothing.

Interconsonantal w and j, and postconsonantal final w and j, drop:

- 2) $\sqrt{piwapəkwE}$
 4) piwapək iron
- 2) $\sqrt{pok·əmə#j}$
 4) pok·mə plum, peach
- 2) $\sqrt{kwatəmočəkε#}$
 4) ktəmočəkε he is out fishing

A postconsonantal w or j of the second of the two morphophonemic non-syllabics that are coalescing is retained:

- 2) $\sqrt{\text{nakwatomočēke}}$
 4) nkwətmočēke I am out fishing

As prior elements, long stops are shortened except before nasals and w and j. As second elements, they are shortened after ' and spirants. In all other positions they retain their lengths:

- 2) $\sqrt{\text{natOtət·anan}}$
 4) ntotət·nan I acquire it
- 2) $\sqrt{\text{napak·ačawēpna}}$
 4) npəkčəwēpna I let go of him

$\sqrt{\text{sk}}$ gives s·k:

- 2) $\sqrt{\text{napisakonajē}}$ (form not certain)
 4) npis·konjē I address

$\sqrt{\text{s(·)s(·)}}$ and $\sqrt{\text{š(·)š(·)}}$ give s· and š· respectively:

- 2) $\sqrt{\text{was·as·o\#}}$
 4) was·o he shines

In rapid speech n frequently appears as m before p and p', though more frequently before the former; m changes to n before t and t', but not to n (that is, ŋ) before k and k'. In slow speech only the change of n to m before p occurs:

- 2) $\sqrt{?ε=nəpot}$
 4) $?ε=mpot$ he died

Since the last change is regular it will always be written. The other changes, however, are free variants and will be written in the morphophonemically basic form -- mt from $\sqrt{\text{māt}}$, etc.

$\sqrt{\text{ww}}$ and $\sqrt{\text{jj}}$ give ?w and ?j respectively:

- 2) √wɔwəpɔmən
 4) ?wəpman, hence (by external sandhi) (?wəpman he sees him)

√šks may be left so or altered to s·ks; this is a free variation and the transcription will take the basic form:

- 2) √paškasakən
 4) pašksəkən or pas·ksəkən gun

The geminate stops, pp, pp·, tt, tt·, and kk, kk·, are sometimes reduced to longs, p·, t·, and k·. This is more frequent with the labials than with the dentals, more frequent with the latter than with the velars, and apparently is more regularly done when the two are within the same morpheme than when one is final in one morpheme, the other initial in the next -- 'final' and 'initial' after the operation of weak-vowel loss. The same simplifications may take place between a final stop and an initial one separated by =:

- 1) √nɔt-a-pɔpə-matəs
 4) ntəppamatəs or ntəp·amatəs I travel
- 2) √kɔki=ɔsəməkwəm
 4) usually k·iwsəkwəm, when in phrase-initial kiwsəkwəm
you overslept (see §3.2)
- 1) √n-a-təp=pɔʔ-a
 4) ntəp-pəʔa or ntəp·əʔa I escape from him

The simplification of kk and kk· is to be found mostly in word-initial, as in the second example above.

3. MORPHOLOGICAL PURVIEW

In the present section are given the various patterns of organization of morphemes into words. In the patterns, ± means sometimes present,

and the factors controlling the presence or absence are presented in the commentary; + means always present; following the entry - means joined to the following element by internal sandhi, = means joined thereto by external sandhi. At the first mention of a particular type of morpheme or morpheme-group it is underlined and explanation, when necessary, is given. Examples are given for each type of formation, and references to the portions of the morphology which deal in detail with the formations in question.

A. Patterns by which bound forms are formed from bound forms.

- 1) + root(*)
 -
 + medial(s)
 -
 + final(s)
 >
stem (bound form).

There are also unanalyzable stems. Except for these, by postulating zero finals, it is possible to generalize that every stem has at least one root or medial and at least one final.

Stems are either nominal or verbal; this is determined by the final, since many roots and medials occur in both nouns and verbs. Noun stems fall into gender classes, animate and inanimate; it is not clear to what component part gender is due. Most names of animate entities are animate in gender, and most inanimate entities have inanimate names, but there are some discrepancies; see §6.1.

Noun stems which contain a root are independent, those which

contain no root are dependent (§6.2). Independent stems have both unpossessed and possessed themes (see below), whereas dependent nouns have only the latter.

Verb stems fall into four selective categories, depending on the final; transitive animate, inflected for an animate subject and an animate object, transitive inanimate, inflected for an animate subject and an inanimate object, animate intransitive, with an animate subject only, and inanimate intransitive, with an inanimate subject only. For these four classes will be used hereafter the abbreviations ta, ti, ai, and ii. Of ii there is a subclass, alike morphologically, but different from the rest syntactically in that they can take no explicitly mentioned subject; the impersonals; for example, mnokišket it is a nice day. This characteristic depends rather on root or medial than on final. For ta see §7.3, ai §7.4, ti §7.5, ii §7.6; for all, §7.1 and §7.2.

Formation by pattern 1) is primary derivation; see §4. Examples:

Root plus final:

$\sqrt{n-} + \sqrt{apo} > \sqrt{napo}$ drink, inanimate noun

Root plus medial plus final:

$\sqrt{pOm-} + \sqrt{at-} + \sqrt{os} > \sqrt{pOmatas}$ live, ai verb

Medial plus final:

$\sqrt{os\cdot-} + \sqrt{zero} > \sqrt{os\cdot}$ father, dependent noun

2) + stem
 -
 + final
 >
derived stem (bound form)

This pattern is the one for secondary derivation; see §4. To a considerable extent the same finals are used for primary and secondary derivation, but there are some differences. Thus from noun stems are formed derived noun stems, particularly the diminutive and pejorative(§6.5):

√natwε snake + √s· > √natwεs· little snake

From nouns are formed verbs(§4.3, §4.7):

√as·εma(#j) tobacco + √k·ε > √as·εmak·ε prepare tobacco(ai)

From verbs, nouns(§4.2):

√pQmQn ta have a pet + √akQn > √pQmQnakQn a pet, domestic animal

And from verbs, verbs(§§4.3-4.7):

√wapQm ta see + √aj > √wapQmaj ai be seen (the verb with passive meaning is an animate intransitive)

There is one case of secondary derivation which uses the pattern

3) + prefix
 ..
 + noun stem
 >
derived stem (bound form)

Thus(§4.3):

√0 + √os· father > √0°os· have a father(ai)

The unpossessed theme of a noun stem is homonymous with it.

√as·εma(#j) tobacco; e. g., singular flexion (see below) s·εma.

The possessed themes are formed on the following patterns:

- 4) + personal prefix(§5, §6.6)
 -
 + noun stem
 -
 ± possessive derivative suffix(§6.6)
 -
 ± personal suffix(§6.6)
 >
possessed theme(bound form)

Dependent themes reject the possessive derivative suffix in forming their possessed stems; other stems accept or reject it in a complicated way dealt with in §6.6. By the selection of one of the three personal prefixes and of one or none of the two personal suffixes possessed themes are formed designating the person and number category of a possessor, which may then be made explicit(for details see §6.6.). These categories recur elsewhere and it is convenient to have a system of abbreviations for them. The following will be used:

- 1 first person singular
- 2 second person singular
- 3 third person singular animate
- 0 third person singular inanimate
- 3' obviative animate(see below)
- 0' obviative animate(only in ii verbs; see §7.6)
- 12 first person plural inclusive (person addressed included)
- 15 first person plural exclusive
- 25 second person plural
- 35 third person plural animate
- 05 third person plural inanimate

First and second person references are always animate. Not all of the above distinctions are made for possessor; 3, 0, 3' are represented indifferently by the form for 3; 35 and 05 are merged. Examples:

√n- + √os· + √nan > √nos·nan our(15) father
 √k- + √os· + √wa > √kos·wa your(25) father

A very small number of compound nouns are formed on the pattern

5) + root
 =
 + noun stem
 >
 compound noun stem (bound form)

E. g.:

√wap= white + √kono#w eagle > √wap=kono#w white eagle (§6.3)

B. Patterns by which free forms are formed from bound forms.

The inflection of noun themes is on the pattern

6) + theme
 -
 + paradigmatic suffix(es)
 >
noun (free form)

The flexions thus formed are singular(3,0), plural(35,05), plural vocative, and, for animate themes only, obviative(3¹) and second obviative(3²). All but the last are formed with a single suffix, the last by adding the obviative suffix twice. There is also a singular vocative flexion which is homonymous with the singular(3,0) except for a few kinship terms. For flexions see §6.7, for the vocative §6.9.

√nos·nan + √zero > √nos·nan our(15) father(3)
 nos·nan + √k > nos·nanək our(15) fathers(35)

Obviation is a syntactical device which is reflected in noun and verb morphology. If two animate third person entities are to be mentioned in the same short context, the less important is placed in the obviative form; a third may be put in second obviative. The

vocatives are forms of direct address. Singular and plural need no special comment.

From noun stems locative particles are formed by three patterns:

- 7) + locative particle
 =
 + unpossessed noun theme
 -
 + locative suffix
 >
 locative particle (free form)
- 8) + noun theme
 -
 + locative suffix
 >
 locative particle (free form)
- 9) + noun theme
 -
 + paradigmatic suffix for obviative flexion
 -
 + locative suffix
 >
 locative particle (free form)

For these see §6.8. The last given pattern forms the obviative locative; this and the product of pattern 8), the simple locative, might be regarded as flexions rather than as derivatives.

√čik₂ + √atop·awan + √k > čik-top·wənək by the table
 √čiman + √k > čimanək in the canoe
 √watak·ak·om + √~~k~~ + √k > wəkk·omnək in his kettle ("kettle"
 is animate; it is therefore made obviative when in
 a possessed form with a 3 possessor)

There are also unanalyzable or partially unanalyzable locative particles, treated also in §6.8. For example, nam-pjək underwater, in which √nam is comparable to √čik in the above example; √pjək is found only as the second element in formations of this kind, and is not analyzable into noun stem plus locative suffix.

- 10) + possessed noun theme
 -
 + paradigmatic suffix(es)
 -
 + preterital suffix
 >
 noun (free form)

This forms a possessed noun in which the possessive relation is one no longer existing at the time of speech, due to something which has befallen the possessed entity (§6.10). Thus:

$\sqrt{\text{nos}} + \text{my father} + \sqrt{\text{zero}} + \sqrt{\text{pon}} > \text{nos} \cdot \text{pon}$ my deceased father.
 $\sqrt{\text{n} \check{\text{c}} \text{imanom}} + \text{my canoe} + \sqrt{\text{zero}} + \sqrt{\text{pon}} > \text{n} \check{\text{c}} \text{iramm} \cdot \text{pon}$ the canoe I had, used to have

Verbs of the four classes are inflected through three modal systems. The paradigmatic suffixes used differ for the different classes of verb and for the mode. The organization of elements in the different modes varies somewhat, so they must be given separately:

- 11) ± personal prefix (§5)
 -
 ± preverb(s) (§7.1)
 =
 + stem
 -
 + paradigmatic suffixes
 >
verb in indicative mode (free form)

Personal prefixes are used except in third person intransitive forms; therefore ii verbs, which have only third person forms, never use personal prefixes. For the suffixal details see §§7.3-7.6:

$\sqrt{\text{n}} + \sqrt{\text{t} \text{e} \text{p}} + \sqrt{\text{nos}} + \sqrt{\text{a}} > \text{nt} \text{e} \text{p} \cdot \text{ns} \cdot \text{a}$ I get to kill him

Among the preverbs found in indicative forms are several with tense-like meanings, $\sqrt{\text{ki}}$ past, $\sqrt{\text{wi}}$ future; some with modal meanings, as in the example; most of them are mutually exclusive, but this is not entirely true.

The indicative mode is used for statements and some questions in ordinary conversation; other questions use an equational construction with a participial verb; see §11.2 and §11.9. The paradigmatic suffixes include elements determining the status of the verb as affirmative or negative; together with the personal prefixes, the suffixes delimit the person and number category of subject and, if transitive, of object. Certain forms also contain a preterital element, relegating the reference of the verb to a time prior to the time of speech and indicating that the action or state referred to no longer exists (cf pattern 10) above). The various elements of the total suffix can be segregated to a certain extent but not analyzed into set layers, each with a specific function; see §§7.3-7.6.

12) + stem
 -
 + paradigmatic suffix
 >
verb in imperative or prohibitive mode (free form) (§§7.3-7.6)

A verb in one of these two modes has always second person subject; therefore ii verbs do not have these forms. The unanalyzable suffixes both delimit the person and number of subject and object, when any, and specify the mode as imperative or prohibitive. The two modes are used for affirmative and negative commands respectively:

√pja- + √n > pjan come here(2)!
 √pja- + √k·ən > keko pjak·ən don't come here(2)!

The particle keko in the second form is always used pleonastically with prohibitive forms.

- 13) ± preverb(s)(§7.1)
 =
 ± inserted words(§7.1)
 =
 ± negative prefix(§7.1)
 =
 + stem
 -
 + paradigmatic suffixes(§§7.3-7.6)
 >
verb in a conjunct mode(free form)

The simple conjunct forms, with no preverbs, may be termed the dependent, its principal use being in certain types of dependent clauses; it also functions as a hortatory. With the initial preverb √ʷε and the same regular conjunct endings the forms are narrative; this mode is the **predominant** one in story-telling or other hearsay narration. With ablaut of the first element, be it preverb or stem(see §7.1), and with different endings for certain person-number categories, the participial, a verbal noun, is formed. There are, for indicative and conjunct forms, three ranks for preverbs; some are restricted to use in the participial, or in the conjunct, or in the indicative, while others can be used in both indicative and conjunct. Among the latter are the tense elements mentioned above under pattern 11). In the position marked "inserted words" can be placed words which are morphologically entirely unrelated to the verb, bearing to it, in the sentence, some syntactical relation. The negative prefix is used for negative forms, omitted for affirmative. Like the indicative, the conjunct has special preterital forms.

$\sqrt{pja-} + \sqrt{t} > pjat$ if he would only come! (dependent)
 $\sqrt{?ε=} + \sqrt{ki=} + \sqrt{pwa=} + \sqrt{pja-} + \sqrt{t} > ?ε-ki-pwa-pjat$ he didn't
come (narrative; the first two elements are preverbs,
the third the negative prefix)
 $\sqrt{ki=} + \sqrt{pja} + \sqrt{t}$ (ablauted) $> kápjat$ the one who came
(participial)

The verb stem, in any mode, can be reduplicated (§7.2), giving an iterative form; the meaning is sometimes rather intensive or continuative. $?ε-ki-mamikatwat$ they fought continually together, stem \sqrt{mik} reduplicated to $\sqrt{mamikat}$.

Numeral complexes bear some similarities to those for nouns and verbs, but can best be dealt with separately; see §8.

For many nominal and particular ideas there are a number of substitution forms; see §9. These are particularly important in clauses of the equational type; see §11.2 and §11.9.

There remain some uninflected elements unaccounted for. These are dealt with in §10, except insofar as they are mentioned adequately elsewhere.

4. DERIVATION

4.1. Roots, Medials, and Unanalyzable Stems. As indicated in §3, there are many stems which appear only in one function, nominal or verbal, and cannot be further analyzed. For example, $\sqrt{ata/ε}$ (for "a/ε" see §7.4) live, dwell, as in $?εtat$ where he lives, his home (participial construction); $\sqrt{pja/ε}$ come; \sqrt{koki} ai dive into water; $\sqrt{wis·on}$ ai eat; $\sqrt{mič}$ ti eat. With the collection of a larger body of textual material some of these may, of course, prove to be analyzable.

There are in some cases pairs of root and final or medial and final with similar meaning and similar or identical form. Since the vast majority of elements are limited to one position, it is nevertheless preferable to regard identical root or medial and final as homonyms than as the same element used in different positions. As examples of such pairs may be given:

medial $\sqrt{k \cdot at\epsilon}$ leg, final $\sqrt{kate\epsilon}$, $\sqrt{kata/\epsilon}$
 $\sqrt{k \cdot at\epsilon}$ leg (inanimate dependent noun stem); nk·at my leg
 $\sqrt{kakanakata/\epsilon}$ ai be long-legged

medial $\sqrt{t \cdot awakE}$ ear, final $\sqrt{t \cdot awaka/\epsilon}$
 $\sqrt{t \cdot awakE}$ ear (inanimate dependent noun stem); nt·awək my ear
 $\sqrt{mamakot \cdot awaka/\epsilon}$ ai be big-eared

root \sqrt{minE} berry, final \sqrt{mCn}
 \sqrt{minE} berry (inanimate independent noun stem)
 $\sqrt{minak \cdot an}$ seed (inanimate independent)
 $\sqrt{mak \cdot at\epsilon man}$ blackberry (inanimate independent); cf $\sqrt{mak \cdot at\epsilon}$
 ii be black

root $\sqrt{wikawamE}$ house, final $\sqrt{wakomakwE}$
 $\sqrt{wikawamE}$ house (inanimate independent)
 $\sqrt{nekatoš \cdot awakomakwE}$ barn (inanimate independent); cf
 $\sqrt{nekatoš \cdot a\#j}$ horse

root $\sqrt{anana\#w}$ man, final homonymous
 $\sqrt{anara\#w}$ man (animate, independent)
 $\sqrt{tapak \cdot anakewanana\#w}$ lawyer (animate, independent); cf
 $\sqrt{tapak \cdot arake}$ ai hold council. The \sqrt{w} is a connective element but the range of its function is not known.

root $\sqrt{k \cdot w\epsilon}$ woman, final homonymous;
 $\sqrt{k \cdot w\epsilon}$ woman (animate independent)
 $\sqrt{māčukak \cdot wewāš}$ (pejorative final superadded) first-born woman; cf $\sqrt{māčukak \cdot owas}$ first-born man

For the most part finals and roots and medials are not related in this way. The functions of finals are treated in detail in §§4.2-4.7. Here may be given some examples of roots and medials:

- root √kaš warm
 √kašat·ε ii be hot (not of the weather)
 √kašat·ε ii be hot weather
 √kašas0 ai be hot
 √kašapos· ti heat a liquid
 √kašas ti warm up food
 √kašatas ai be glad
- root √pam moving around
 √pamas·a/ε ai fly
 √pamos·ε ai walk
 √pamaška/ε flyfly
 √pamatas ai be alive
 √pamatak·a/ε ai swim along
- root √kak having something
 √kakašk ti have, hold
 √kakanakoʷ ta bury with something(?)
 √kakatas ai be rich
- root √kak hide
 √kakato ti hide
 √kakan ta hide
 √kakas0 ai hide
 √kakanakoʷ ta bury with something(? see above)
- root √kak· think, decide
 √kak·aʷ ta appoint, choose
 √kak·apjeʷ ta mark
 √kak·enam ta know, be acquainted with, recognize

More than one root can be present in a stem. Thus:

√nakoʷ ta bury, cover up
 √kakanakoʷ ta bury with something; see above

√wapan ii be morning, be tomorrow
 √pamawapan ii be almost morning
 √pjewapan ii be becoming morning

√mjεwE road
 √čikwεmjεwE rainbow -- "thunder-road"; cf √čikwε thunder

Examples of medials, including some occurring in the foregoing forms:

medial √ak·w wood
 √šakwak·wE pine tree
 √wεpak·wi ai throw something; swing an axe

medial \sqrt{at} exist, be
 $\sqrt{ka\check{s}at\check{a}s}$ ai be glad
 $\sqrt{p\check{o}mat\check{a}s}$ ai be alive
 $\sqrt{p\check{o}mat\check{a}k\cdot a/\epsilon}$ ai swim along
 $\sqrt{k\check{o}kat\check{a}s}$ ai be rich

medial $\sqrt{\epsilon n}$ think
 $\sqrt{k\check{o}k\cdot \epsilon n\check{a}t\check{a}m}$ ai think
 $\sqrt{n\epsilon n\check{a}t\check{a}m}$ ai remember
 $\sqrt{O\check{n}\epsilon n\check{a}t\check{a}m}$ ai forget

medial $\sqrt{w\epsilon}$, $\sqrt{w\epsilon w\epsilon}$, $\sqrt{w\epsilon w\epsilon k}$ sound
 $\sqrt{\check{a}\check{s}aw\epsilon}$ ai say so, tell so (may not belong here)
 $\sqrt{an\check{a}w\epsilon w\epsilon k\check{a}s}$ ai make a noise
 $\sqrt{an\check{a}w\epsilon w\epsilon k\check{a}t}$ ii make a noise

medial $\sqrt{\check{c}\epsilon}$ round object
 $\sqrt{at\cdot \epsilon p\check{a}\check{c}\epsilon w\epsilon p\check{a}n}$ ti and ta roll
 $\sqrt{p\check{i}t\check{a}k\epsilon\check{c}\epsilon'}$ ti roll in
 $\sqrt{mi\check{s}\cdot \check{a}\check{c}\epsilon p\check{o}k\cdot \check{a}ma(\#j)}$ peach
 $\sqrt{p\check{i}k\check{a}\check{c}\epsilon s\cdot \check{a}ko\#j}$ stump, old stump, log

Other examples of these roots and medials and others will be found in the following sections, devoted primarily to finals.

4.2. Noun-Forming Finals. The diminutive and pejorative suffixes are accompanied by irregularities of sandhi so similar to those of the paradigmatic suffixes that they are dealt with in §6.5 instead of here. Among the various other noun-forming finals may be mentioned the following:

1) $\sqrt{\#w}$, $\sqrt{\#j}$, $\sqrt{\#w\epsilon}$, added to roots or medials to form stems; probably present in the following and others like them:

$\sqrt{an\check{a}n\check{a}\#w}$ man
 $\sqrt{s\check{i}p\check{a}\#w\epsilon}$ stream, creek
 $\sqrt{\check{a}\check{s}k\check{o}t\epsilon(\#j)}$ fire
 $\sqrt{O\check{c}\check{a}k\cdot \epsilon\#j}$ stump
 $\sqrt{\check{s}ati\#j}$ spearhead, arrowhead

These elements have a relatively complicated behaviour in flexion; see §§6.4-6.8.

2) \sqrt{n} , forming a noun of instrument from ai verb stems.

It is mainly added to ai verbs in \sqrt{kc} , and the $\sqrt{-\epsilon}$ drops. The diminutive form is \sqrt{as} , with the same loss of $\sqrt{-\epsilon}$. For ai verbs not ending in the final \sqrt{kc} , a final $\sqrt{-\epsilon}$ changes to $\sqrt{-a}$:

$\sqrt{kwatamo\check{c}ake}$ be fishing; $\sqrt{kwatamo\check{c}akan}$ fishhook
 $\sqrt{ak\cdot atenake}$ braid hair; $\sqrt{ak\cdot atenakan}$ a braid of hair
 $\sqrt{sikame'ak\epsilon}$ spear something; $\sqrt{sikame'akan}$ spear
 $\sqrt{tak\cdot Opa\check{c}ake}$ tie things; $\sqrt{tak\cdot Opa\check{c}akan}$ anything to tie things with; e. g., a hairribbon

\sqrt{katake} prepare a garden ($\sqrt{-kc}$ is not the final \sqrt{kc});
 $\sqrt{katakan}$ field

$\sqrt{kwatamo\check{c}akas}$ a little fishhook

A number of nouns that apparently end in this have no comparable verb form listed:

$\sqrt{kapakOk\cdot we'akan}$ lid
 $\sqrt{kapako\check{c}akan}$ apron
 $\sqrt{atop\cdot awekan}$ tablecloth
 $\sqrt{wak\cdot a'akan}$ fence
 $\sqrt{was\cdot \epsilon\check{c}akan}$ window

3) \sqrt{akan} ; related to the above;

\sqrt{paman} ta take care of as one cares for a domesticated animal;
 $\sqrt{pamanakan}$ a domesticated animal

4) \sqrt{wan} ; also related to the above;

$\sqrt{Omana\check{s}kano}$ ai eat a feast; $\sqrt{Omana\check{s}kanowan}$ meat at a feast
 \sqrt{nakanO} sing ai; $\sqrt{nakanOwan}$ song
 $\sqrt{napwak\cdot a}$ ai be smart; $\sqrt{napwak\cdot awan}$ education; intelligence;
shame
 $\sqrt{nima'atij}$ ai dance together; $\sqrt{nima'atijawan}$ a dance
 $\sqrt{pj\epsilon w\check{i}wa\check{s}}$ ai carry a pack; without the $\sqrt{pj\epsilon}$, $\sqrt{wiw\check{a}\check{s}awan}$
pack, bundle
 $\sqrt{wis\cdot an}$ ai eat; $\sqrt{wis\cdot anawan}$ food
 $\sqrt{ja\check{c}amo}$ talk; $\sqrt{ja\check{c}amowan}$ story

Here also there are some nouns with no listed related verb:

$\sqrt{atop\cdot awan}$ table
 $\sqrt{wepa'awan}$ paddle, oar
 $\sqrt{matotowan}$ steam, vapor; but cf $\sqrt{matoto'}$ ta give a sweat-bath to

5) \sqrt{k} ·an instrument, means; added to noun roots:

\sqrt{minE} berry; \sqrt{minak} ·an seed
 $\sqrt{aškOte}$ fire; $\sqrt{aškOtek}$ ·an flint-and-steel

6) \sqrt{man} berry, grain(cf §4.1). The prior element varies:

\sqrt{mak} ·ate ii be black; \sqrt{mak} ·atəman blackberry
 \sqrt{mas} ·kwa ii be red; with unclear sandhi \sqrt{mas} ·komən red raspberry
 $\sqrt{te}^?amən$ strawberry; the first element is a root $\sqrt{te}^?$; cf the medial $\sqrt{te}^?E$ in the stem $\sqrt{te}^?E$ heart
 \sqrt{an} č·imən pea; first element uncertain
 \sqrt{at} ·akamən acorn; first element reappears in \sqrt{at} ·akaməšE oak-tree, and \sqrt{at} ·akapakwE leaf
 $\sqrt{matamən}$ corn may belong here; the first element would be obscure if this analysis were made

7) \sqrt{apo} liquid(inflection irregular, see §6):

\sqrt{napo} drink, liquid
 $\sqrt{matamənapo}$ corn soup or hominy
 \sqrt{siw} sour, as in \sqrt{siw} ən ii be sour; \sqrt{siwapo} cidar
 \sqrt{tak} ·apoja ii be cold (of a liquid only)
 $\sqrt{kašapos}$ ·ti heat a liquid
 $\sqrt{apapawinapokatake}$ ai go around dirtying water

The element \sqrt{apa} in the following forms may be related:

\sqrt{kas} ·kanapakwE be thirsty ai
 $\sqrt{nakapawE}$ ai dissolve

4.3. Intransitive Finals.

1) ii \sqrt{makat} is used freely with any ii stem, being superadded to those which can stand without it. But the following ii stems have it as their only final, so that it always remains:

\sqrt{ajamak} at be here; cf ai $\sqrt{jə}$, \sqrt{j} be here
 \sqrt{pjemak} at come; cf \sqrt{pja}/ϵ ai come
 \sqrt{nomak} at do
 $\sqrt{pjenomak}$ at came to happen
 $\sqrt{napomak}$ at die; cf \sqrt{napo} ai die

2) $\sqrt{\#w}$ forms ai verbs of being from animate nouns:

√nak·o bear; √mak·o#w be a bear
 √nekatoš·a#j horse; √nekatoš·aj#w be a horse

3) Ai verbs of having are formed by zero final, but with the prefix √0; there are some irregularities in adding this:

√ničanās· child; √Oničanās· have children
 √os· father(dependent); √O'os· have a father
 √otan village; √Ototan have a village

4) Ai verbs of producing are formed from nouns with the final √k·ε:

√as·εma(#j) tobacco; √as·εmak·ε prepare tobacco
 √wiwašawan pack, bundle; √wiwašawanak·ε make up a pack
 √wikapāš· bark; √wikapāš·ak·ε collect bark
 √kikos· fish; √kikos·ak·ε catch fish
 *√nas·awa? --; √nas·awa?ak·ε put feathers on arrows

Cf √wanakwε hole, √wanak·ε dig a hole, which suggests a fusion at an earlier period in the development of the language.

5) Ai verbs of action on indefinite object are formed with √kε, with various modifications of the preceding final. Ti √to changes to √ta before it:

√mačito ti take; √mačitakε ai take something
 √naš·Onačato ti destroy; √naš·Onačatakε destroy something

Ta √w changes to √a:

√mačānaw compete with; √mačānakε compete with someone
 √nanat·ew ask; √nanat·akε ask for someone, ask someone
 √mikačēwit·aw work for; √mikačēwit·akε work for someone

6) Ai verbs of action on indefinite object are formed with √we from ta stems;

√wēpi? ta run away from; √wēpi?awε run away
 √nok·aN ta hire; √nok·asawε ai hire something done
 √nakataN ta win a race from; √nakatašawε ai win a race
 √a, √N say; √ašawε say so(cf 4.1)
 √nita? ta send for something by; √nita?awε send for something

√apa'awe ai run towards a goal; cf √tepapa' escape from ta
 √tawe ai sell, trade; cf √tam ta sell to

7) Ai √as, ii √at are used in primary derivation, forming animate and inanimate intransitive pairs of stems from the same root:

√mjanas ai be ugly; √mjanat ii be bad
 √pinanakwas ai be clean; √pinanakwat ii be clean
 √ašawepas ai experience something; √ašawepat ii do something
 √wēnap'anās ai be easy; √wēnap'anat ii be easy
 √anawewekas ai make a noise; √anawewekat ii make a noise
 √'awanās ai be pretty; √'awanat ii be good

Other pairs of finals so used are:

8) Ai √as, ii √ja:

√wišakas ai be strong; √wišakja be hard ii

9) Ai √n, ii √an, with the prefinal √S. No precise pairs,

but:

√mačamoš'an ai be stuck
 √pjekwaš'an ai come out of the water
 √nakapješ'an ai melt away (like ice)
 √nakaš'an ai stop
 √pamakaš'an ai make a track
 √pikatapješ'an ai break one's head
 √ap'ekaš'an ai fall
 √šakaš'an ai lie
 √ašoš'an ai lie there, lie thus
 √Očaš'an ai be underneath

√takos'an ii be put with something
 √kwakanas'an ii be mouldy
 √wawanas'an ii be not fixed right
 √p'ek'wes'an ii be loose

10) Ai √as with no ii correspondent; among may are these:

√pamatās ai live
 √soškās ai be smooth, slick

11) Ii √an with no ai correspondent, particularly in impersonals:

√kamawan ii be raining
 √notan ii be windy

12) ai √čam, in the three forms

√kwičam ai lie in water; cf √kwito ti leave in water
 √čtakočam ai fall; cf the following, and √očas'an ai be
underneath
 √kočam ai hang, be suspended

13) ii √te;

√tak·Opate ii be tied up
 √kišakate ii be dry
 √patakate ii be there, here

There are various less important ia finals; √i in √tok·i wake up,
 cf √tok·am ta awaken, and in √wepak·wi swing an axe, possibly in √mači
go away; √a/ε in √nis·a/ε fall down, cf √nis·awepanomaw ta throw something
down to, or in √ašate'a/ε think, decide, cf √japa'ate'am ta keep one's
mind on; √tas as in √kak·enatam know something, cf √kak·enam ta know,
 √kak·enat ti know; √t·am as in √kačit·am try, cf √kačit·aw ta try, test.
 With slightly more concrete meanings can be mentioned the following:

14) √Os·ε ai walk, by foot:

√pamOs·ε ai walk; cf √pamatas ai live
 √'akamOs·ε ai go on snowshoes; cf √'akam snowshoe
 √ap·it·Os·ε ai take one's time in walking

15) Ai √kwam sleep; only in

√Osamakwam ai oversleep; cf √OsamakatasO ai be too angry

16) Ai √pat·o run:

√pamapat·o ai run along; cf √pamOs·ε walk
 √kwepamapat·o ai run past, run by
 √papamapat·o run around; cf √papamatas ai travel
 √papat·o run over somewhere; cf √pašoškwas·a/ε slip in the feet
 √kiwat·apat·o ai run around; cf √kiwat·a'omako ai ride
around horseback
 √pikapat·o ai be exhausted from running; cf √pikajak·was
 ai be exhausted
 √kwapat·o ai run out of the water; cf √pjekwaš·am ai come
out of the water
 √kiwepat·o ai run back; cf √kiwε ai go home

17) Ai $\sqrt{a\check{s}ka/\epsilon}$ motion $\sqrt{p\acute{o}ma\check{s}ka/\epsilon}$ ai fly $\sqrt{naka\check{s}ka/\epsilon}$ ai stop; cf $\sqrt{naka\check{s}\cdot\acute{o}n}$ ai stop $\sqrt{pika\check{s}ka/\epsilon}$ ai be broken, tumble-down; cf $\sqrt{pika\check{s}k}$ ti wear out18) Ai $\sqrt{ak\cdot a/\epsilon}$ motion $\sqrt{p\acute{o}mat\acute{o}k\cdot a/\epsilon}$ swim along $\sqrt{p\acute{o}p\acute{o}mat\acute{o}k\cdot a/\epsilon}$ ai swim around $\sqrt{k\check{c}\check{s}\check{e}k\cdot a/\epsilon}$ ai be a fast runner; cf $\sqrt{ka\check{s}\epsilon^?w}$ ta hit or strike lightly; the former word apparently means "hit the ground lightly," hence move fast over it. $\sqrt{m\acute{o}nowat\check{c}k\cdot a/\epsilon}$ ai have a war dance

4.4. Intransitive Finals; Reciprocals. The ai reciprocal finals are \sqrt{at} and \sqrt{atij} . For the most part these are added regularly, either being used with any transitive animate stem:

 $\sqrt{kwas\cdot}$ ta fear; $\sqrt{kwas\cdot at}$, $\sqrt{kwas\cdot otij}$ ai fear each other $\sqrt{kak\acute{o}N}$ ta hide; $\sqrt{kak\acute{o}nat(ij)}$ ai hide each other $\sqrt{mo\check{s}\cdot a^?}$ ta feel; $\sqrt{mo\check{s}\cdot a^?at(ij)}$ $\sqrt{naka^?}$ ta lose; $\sqrt{naka^?at(ij)}$ $\sqrt{nas\cdot}$ ta kill; $\sqrt{nas\cdot at(ij)}$ $\sqrt{ka\check{s}ap\acute{o}kasw}$ ta heat; $\sqrt{ka\check{s}ap\acute{o}kaswat(ij)}$ $\sqrt{nako^?w}$ ta bury; $\sqrt{nako^?wat(ij)}$ $\sqrt{k\acute{o}noN}$ ta talk to; $\sqrt{k\acute{o}nonat}$ talk to each other; other form not testified, but probably possible $\sqrt{ka\check{s}ip\acute{e}k\cdot \acute{o}n\acute{e}n}$ ta scratch the back of; $\sqrt{ka\check{s}ip\acute{e}k\cdot \acute{o}n\acute{e}nat}$ (same comment)

Roots which take ta \sqrt{m} , ti \sqrt{t} , or ta \sqrt{am} , ti \sqrt{at} (see §4.7), drop the \sqrt{m} or \sqrt{am} before adding the reciprocal finals:

 $\sqrt{wap\acute{o}m}$ see; $\sqrt{wap\acute{o}t(ij)}$

Stems with a final \sqrt{aw} behave in various ways. In some cases the form is made with connective \sqrt{a} added, and then the resulting \sqrt{awa} changes to \sqrt{o} ; the ending after this is $\sqrt{tat(ij)}$:

 $\sqrt{mak\cdot aw}$ ta find; $\sqrt{mak\cdot Otat(ij)}$ find each other $\sqrt{n\acute{o}k\cdot we\check{s}kaw}$ ta meet; $\sqrt{n\acute{o}k\cdot we\check{s}k\acute{o}tat(ij)}$ $\sqrt{nis\cdot kik\cdot aw}$ ta bother, disturb; $\sqrt{nis\cdot kik\acute{o}tat(ij)}$ $\sqrt{witok\cdot aw}$ ta play with, have a liaison with; $\sqrt{m\acute{o}nowitok\cdot Otat(ij)}$ be good to each other

If this is to be regarded as the regular method, then the following is irregular:

√mačanaw compete with; cf √mačanake ai compete with someone;
√mačanat compete with each other

For the following there is no corresponding ta verb on record:

√amač:totat abuse each other
√mikat fight together
√wiwatij have intercourse
√nimaʔatij dance together
√jaš·atonamat trade with each other; but cf √jaš·atoN ti
trade; parallel with this a ta *√jaš·atonamaw
trade something to would be expected, from which
the reciprocal form would be made; the ta form is
not on record but is probably perfectly possible.

4.5. Intransitive Finals; Reflexives. The reflexive is formed from ta verbs by adding the final √atasO or √ataso. The former is added when the resulting pattern of weak vowels is such that the second a will stay; otherwise the latter:

√kwas· ta fear; √kwas·ataso/O
√kakan ta hide; √kakanataso/O
√moš·aʔ ta feel; √moš·aʔataso
√nakaʔ ta lose; √nakaʔataso/O
√nas· ta kill; √nas·ataso/O
√kašapakasw ta heat; √kašapakaswatasO
√nakoʔw ta bury; √nakoʔwatasO
√nos·kwam ta lick; √nos·kwamatasO
√moškanan ta fill up; √moškananatasO

Stems in √m or √am may drop that:

√wapam ta see; √wapatasO

Stems with final √aw are irregular:

√mak·aw ta find; cf ti √mak· find; √mak·awatataso or √mak·otataso
√notaw ta hear; cf ti √not hear; √notataso.

4.6. Intransitive Finals; Passives. There are two finals with which an ai verb with a passive meaning may be formed from a ta verb. The first is \sqrt{aj} . This is added with no irregularities whatsoever; only forms for third person subject, however, can be made with it:

\sqrt{wapam} ta see; $\sqrt{wapamaj}$ be seen; $wapmajə$ he is seen
 $\sqrt{nako'w}$ ta bury; $\sqrt{nako'waj}$ be buried; $nko'wa'ik$ they are buried

The other is $\sqrt{ačakasO}$, \sqrt{akasO} , \sqrt{asO} . The rules governing the choice of form are not clear. The last form appears only in

$\sqrt{nako'w}$ ta bury; $\sqrt{nako'wasO}$ be buried

The following have the second form:

$\sqrt{mak'aw}$ ta find; root $\sqrt{mak'}$; $\sqrt{mak'akasO}$ be found
 $\sqrt{nis'awəpan}$ ta throw down; $\sqrt{nis'awəpanakasO}$ be thrown down
 $\sqrt{paškasw}$ ta shoot; $\sqrt{paškakasO}$ be shot
 $\sqrt{kašapakasw}$ ta heat; $\sqrt{kašapakasakasO}$
 \sqrt{miN} ta give to; $\sqrt{minakasO}$
 $\sqrt{čipa'w}$ ta hit, punch, strike; $\sqrt{čipa'akasO}$

It is to be noticed, in the last example, that a postconsonantal final \sqrt{w} drops before this ending.

The following have the first form; the ta final is dropped before adding it:

\sqrt{wapam} see; $\sqrt{wapačakasO}$ be seen
 \sqrt{kakaN} ta hide; $\sqrt{kakačakasO}$ be hidden
 $\sqrt{moš'a'}$ ta feel; $\sqrt{moš'ačakasO}$ be felt
 $\sqrt{naka'}$ ta lose; $\sqrt{nakačakasO}$
 $\sqrt{naS'}$ ta kill; $\sqrt{naš'ačakasO}$
 $\sqrt{nišok'amaw}$ ta help; $\sqrt{nišok'aməčakasO}$

The following is simiřar, though the final $\sqrt{-s'}$ may not be strictly a final:

$\sqrt{kwas'}$ ta fear; $\sqrt{kwačakasO}$ be feared

The stems formed with this final are not restricted as to subject of

the inflected form; nwapčokas I am seen, wapčokaso he is seen.

Somewhat similar to this in form is the final $\sqrt{ačakate}$ with which are formed, from ti verbs, ii verbs with passive meaning.

The final of the ti stem is replaced by it:

\sqrt{wapat} ti see; $\sqrt{wapočakate}$ be seen; wapčokate it is seen
 $\sqrt{wep\cdot ot}$ ti hit; $\sqrt{wep\cdot očakate}$
 \sqrt{nat} ti go fetch; $\sqrt{načakate}$
 \sqrt{manat} ti smell; $\sqrt{manačakate}$
 \sqrt{pjeto} ti bring; $\sqrt{pječakate}$
 $\sqrt{pokapato}$ ti tear up; $\sqrt{pokapočakate}$
 $\sqrt{pwit\cdot o}$ ti wait for; $\sqrt{pwičakate}$

4.7. Transitive Finals. Transitive finals frequently go in pairs, forming a comparable ta and ti stem from a single root or group of roots and medials; for other Algonkian languages they have been termed instrumentals. This term does not seem particularly appropriate for Potawatomi.

1) ta $\sqrt{?}$, ti $\sqrt{t\cdot o}$

$\sqrt{naka?}$ ta lose; $\sqrt{nakat\cdot o}$ ti lose
 $\sqrt{pwi?}$ ta, $\sqrt{pwit\cdot o}$ ti, wait for
 $\sqrt{wikača?}$ ta, $\sqrt{wikačat\cdot o}$ ti, try, test

2) ta \sqrt{N} , ti \sqrt{t} and \sqrt{to}

$\sqrt{tak\cdot Opan}$ ta, $\sqrt{tak\cdot Opato}$ ti, tie, fasten; cf ii $\sqrt{tak\cdot Opate}$
be tied up
 \sqrt{kakaN} ta, \sqrt{kakato} ti, hide; cf ai \sqrt{kakasO} hide
 $\sqrt{mačiN}$ ta, $\sqrt{mačito}$ ti, take; cf ai $\sqrt{mači}$ go.
 $\sqrt{ap\cdot ekam}$ ta, $\sqrt{ap\cdot ekat}$ or $\sqrt{ap\cdot ekato}$ ti, throw down; cf
ai $\sqrt{ap\cdot ekaš\cdot an}$ fall
 $\sqrt{jap\cdot waN}$ ta, $\sqrt{jap\cdot wat}$ ti, dream about; cf $\sqrt{jap\cdot wa/\epsilon}$ dream
 \sqrt{naN} ta, \sqrt{nat} ti, go got, fetch

3) ta \sqrt{m} , \sqrt{om} , ti \sqrt{t} , \sqrt{at} (in many forms impossible to determine which). A great many, including:

√tēpam ta, √tēpat ti, say the truth about; have enough of
 √čakam ta, √čakat ti, eat up, consume
 √jačam ta, √jačat ti, talk about, tell on
 √wapam ta, √wapat ti, see

4) ta √n, ti √n

√at·əpačewēpan ta and ti, roll along
 √otatan ta and ti, get, acquire, take

5) ta √aʔw, ti √aʔ

√kiškʔw ta, √kiškʔ ti, cut
 √nokoʔw ta, √nokoʔ ti, bury

6) ta √asw, ti √as

√kašapakasw ta, √kašapakas ti, heat
 √paškasw ta, *√paškas ti (not well testified), shoot

7) ta √t·aw, ti √t· from ai stems, relating an action to an object; before these the final √tam or √t·om of an ai stem drops:

√ai kačit·om try; √kačit·aw ta try something on, test
 √mok·it·aw ta, √mok·it· ti, start out after
 √nak·wēt·aw ta, √nak·wēt· ti, answer; cf possibly
 √nok·wəsakaʔom ai be excused, √nok·wəškaw ta meet
 √tēpwēt·aw ta, √tēpwēt· ti, believe

8) ta √aškaw, ti √ašk

√takaškaw ta, √takašk ti, kick

Not paired are

√pikašk ti wear out
 √pokašk ti break
 √šaš·akwašk ti mash with the feet; cf √šaš·akwam ta chew
 √yakaškaw ti have, hold

√mjanaškaw ta hurt, kick, injure; hurt from the inside --
 as, e. g., food or medicine or poison
 √nak·wəškaw ta meet

9) ta √ak·aw, ti √ak·

√atašik·aw ta, √atašik· ti, play with, fool around with

10) Ta \sqrt{m} forms a verb relating an action to an object, from an ai stem. The ai final is so usually dropped that the formation probably should be thought of primarily as primary derivation, rather than secondary derivation. In some of the cases there is a comparable ti form with \sqrt{t} ; perhaps, therefore, this final is not to be distinguished from that listed above as 3).

\sqrt{nap} ai look, glance; \sqrt{napom} ta have look softo one
 $\sqrt{japačate'a/ε}$ ai think of something; $\sqrt{japačate'am}$ ta
thinkof
 $\sqrt{kak·enotam}$ ai know something; $\sqrt{kak·enom}$ ta know;
 so with may stems containing the medial \sqrt{en} think
 $\sqrt{janomas}$ ai have hard luck; $\sqrt{janomam}$ ta crowd, harass
 $\sqrt{tawε}$ ai sell; \sqrt{tam} ta sell to

11) Ta \sqrt{omaw} forms a double-object verb; the direct object is not expressed in the morphology and may be either gender; the morphologically indicated object is an indirect object, in meaning, and animate. Ti \sqrt{to} and $\sqrt{t·o}$ drop the \sqrt{o} :

$\sqrt{nis·awepaŋ}$ ta throw down; $\sqrt{nis·awepanomaw}$ ta throw something
down to or for
 $\sqrt{ak·jenam}$ ta hold, retain; $\sqrt{ak·jenanomaw}$ hold for, retain for
 $\sqrt{mak·ti}$ find; $\sqrt{mak·omaw}$ ta find for
 $\sqrt{nat·o}$ ti kill; $\sqrt{nat·omaw}$ kill for
 $\sqrt{as·weŋ}$ ti divide up, partition; $\sqrt{as·weŋomaw}$ ta divide up for

Two double-object verbs are formed otherwise:

$\sqrt{mačito}$ ti take; $\sqrt{mačitaw}$ take something for
 $\sqrt{naš·onačato}$ ti destroy; $\sqrt{naš·onačatakaw}$ ta destroy things for

5. PERSONAL PREFIXES

Personal prefixes are used in the formation of possessed themes from noun stems, and in the inflection of all types of verbs, except ii, in the indicative mode. In all these cases the rules controlling the selection

of one of the three prefixes are as follows:

If the entity to which the prefix refers includes the second person, the second personal prefix is used. If that entity excludes the second person, but includes the first, the first personal prefix is used. If it includes neither, the third personal prefix is used.

"Entity" means possessor in the case of a possessed noun theme, subject or object in the case of a verb. Thus if a possessor is 2, 12, or 15, the second personal prefix is used, if 1 or 15, the first, if 3 or 35, the third. If subject or object of a transitive animate verb is 2, 12, or 25, the second person prefix is used; etc. The distinctions of person and number not made by the prefix are made, in the case of possessed noun themes, by the personal suffix (see §6.6), in the case of verbs, by the paradigmatic endings (see §§7.3-7.6).

The form of the prefixes varies, depending on the constellation of morphophonemes at the beginning of the element to which they are added. An element beginning in a weak vowel takes 1 \sqrt{nat} , 2 \sqrt{kat} , 3 \sqrt{wat} . Elements beginning in a consonant take either those forms or 1 \sqrt{n} , 2 \sqrt{k} , 3 \sqrt{w} . A few noun stems begin in a strong vowel; these take only the latter forms.

$\sqrt{č}$ iman canoe

nčiman or ntəčiman my(1) canoe(0)
 kčiman or ktəčiman thy(2) canoe(0)
 wčiman or wtəčiman his(3) canoe(0)

\sqrt{ak} ·ak·0 bucket (animate noun)

ntəkk·om my(1) bucket(3)
 ktəkk·om thy(2) bucket(3)

wtəkk·omən his(3) bucket(3')

ntəkk·omnan our(15) bucket(3)

ktəkk·omrən our(12) bucket(3)

ktəkk·omwa your(25) bucket(3)

wtəkk·omwan their(35) bucket(3')

√ipət tooth

nipət my(1) tooth(0)

wipət his(3) tooth(0)

√os· father

nos· my(1) father(3)

ʔos·ən his(3) father(3')

√wapəm ta see

kwapma you(2) see him(3)

kwapmək he(3) sees you(2)

kwapmən you(2) see me(1)

kwapmən I(1) see you(2)

nwapma I(1) see him(3)

nwapmək he(3) sees me(1)

wapman he(3) sees him(3') (√wəw- by internal sandhi gives
ʔw-, which by external sandhi gives (ʔ)w-, which is
written arbitrarily but more simply as w-; see §2.2)

wapməko he(3') sees him(3)

There are two special sandhi features to be noted. After the personal prefixes with the firms ʔn, √k, √w, but not as a general rule of internal sandhi, element-initial √ʔ- changes to √t-; element-initial √j- freely remains or changes to √t-:

√ʔakəm snowshoe

ntakməm my snowshoe; or ntəʔakməm

√jats·ok·an story

wjats·ok·an or wtats·ok·an his story; or wtəjats·ok·an.

√jakwatəs ai be crazy

njakwatəs or ntakwatəs I am crazy; or ntəjakwatəs

√ʔa preverb intentional(see §7.1)

nta-mači I am going to go away

6. THE NOUN

6.1. Gender. Nouns referring to human beings, animals, and entities thought by the Potawatomi to be alive -- spirits, ghosts, and the like -- are animate. The name of a living entity does not become inanimate when the entity dies -- a dead man is still referred to by the same animate noun as a living. All nouns except those of the above type, and the specific marginal cases mentioned below, are inanimate.

Border-line cases which are animate include first body-parts; all but the following are inanimate:

- √Ok·atan vagina, vulva¹
- √mak·atakən fur
- √mas·kwati#j anus
- √mikwən feather
- √nakwikən wing(dependent)
- √naškatej bird's tail(dependent)
- √naš·awej scrotum, testes(dependent)
- √as·aj hide, skin(possessed themes by suppletion, from √as·am)
- √šej hide, skin, rind(dependent)
- √šikan hip(dependent)
- √(O)škišakO eye²
- √tonak·os·awej kidney(dependent)
- √wak·ajapate#j circle of teeth, jawful of teeth
- √winənO fat, grease

Some botanical terms are inanimate; the animate ones are:

- √kətan log
- √kišāški#j flat cedar tree
- √akOčes· bean
- √mak·atemən blackberry
- √masat·akwE ear of corn
- √mas·komən red raspberry

¹This may be wrongly analyzed; it may be properly √k·atə, dependent, wk·əten her vagina; it did not occur in texts but was obtained from an informant.

²A morphophoneme or group thereof enclosed in parentheses is optionally present or absent; thus there are two stems for "eye"; √OškišakO and √škišakO.

- √māš·iman apple
- √mataman corn-grain; corn
- √mat·akwE tree, stick, log (in the latter meaning may be inanimate; this is not quite clear)
- √miš·ačepok·oma(#j) peach
- √Onakek·O, Onakek·wE tree-bark
- √pok·oma#j plum, peach
- √ap·ek·jə cattail
- √šakwak·wE pine tree
- √aškopjE cedar
- √at·ekamašE oak tree
- √wapato#j mushroom, toadstool
- √wapatok·ε#j mushroom, toadstool

Finally, there is a miscellaneous collection of things which are animate despite their actual nature; all things about which there could be any doubt are included in the following list:

- √šikwe thunder (may class as a "spirit" and be animate for that reason)
- √ʔanak·ot cloud; man's name (FP)
- √ʔašpakO bluff; high hill along a river
- √ʔεmak·wan big spoon for cooking or serving
- √kis·as·O sun, month (possibly inanimate for the latter)
- √konjE snow
- √ak·ak·O bucket
- √ak·ašajepawis·an breakfast
- √ak·ati#j kettle
- √mak·omjE ice
- √mas·kopwakan red clay pipe; peace pipe
- √mas·kwapako(#j) penny
- √mat·akwap owl
- √anako(#j) star
- √nepak·owakan string of beads; necktie; handkerchief tied around the neck
- √pakonajewis·an evening meal
- √potaʔakon mortar
- √Opwakan pipe
- √Osawašonaja#j gold money; when inanimate means gold things
- √as·apjE fishnet
- √as·εma(#j) tobacco (perhaps this should be listed as botanical)
- √šomikwe fishnet ~~smile~~
- √tapak·akis·as·O moon
- √Otapajan wagon, cart
- √tsewʔakan drum
- √wapʔkɹ. clay
- √wet·ek·ek·O brass kettle

6.2. Dependency. Dependent noun stems are much less common than independent ones. They include two categories, semantically speaking; body parts and terms of relationship. The only dependent theme which falls in neither of those groups is

√ipE arrow

Not all body parts are dependent; √mas·kwati#j anus, √(O)škišak eye, √pačakwān penis are examples of independent body part names.

The dependent ones are:

√čašE nose
 √šikwān knee
 √ipatE tooth
 √ijow body
 √kač·anāčE thumb
 √k·anāpE skull
 √k·anE bone
 √k·atān vagina, vulva¹
 √(O)k·ak·āwE chest, breast
 √k·atE leg
 √(O)k·onE liver
 √k·wekān neck
 √masatE stomach
 √nāčE hand
 √nakwikān wing
 √nak·E arm
 √anāmekān shoulder
 √nāškatej bird's tail
 √nāš·awej scrotum
 √nokān hip
 √pakakanakan ankle
 √pip·is·atc'E lung
 √p·akēkān rib
 √satE foot
 √sawānkwE tail
 √sekānāwakan tongue
 √as·kwenāčis· little finger
 √as·kwasatis· little toe
 √šej hide, skin; rind of a fruit
 √šikān hip
 √š·ek·E belly
 √tck·wān limb of a tree(perhaps should be listed above with the stem for arrow)
 √tāpE head

¹See footnote 1 in §6.1(p 59).

√tat·akakwɔn backbone
 √tamak·ɔn chin, jaw
 √tɛʔE heart
 √tonE mouth, lips
 √tos·kwɔn elbow
 √t·ɔs·E navel
 √t·awakE ear
 √winɔs·ɔs·E hair
 √winɛtɔpE brain

Whether all "terms of relationship" are to be regarded as dependent or not depends on one's precise definition of "terms of relationship." No kinship term can stand in an unpossessed form. But in addition there are some other dependent nouns which are not strictly kinship terms but do express a relation; e. g., √ik·an friend, √aj pet. The list follows:

√ič- fellow -- (see §6.3)
 √ik·an friend
 √iw wife
 √iwɔš·, √iwəš· (pejorative of the above, see §6.5) general
 term of derogatory address
 √kwas· son
 √kjɛ#j mother
 √ɔk·wɛm sister
 √mɔs·ɛ#j older sister
 √mɔš·omɔs· grandfather
 √mɔš·omɛ#j stepfather; FP paternal uncle
 √anawemakɔn relative
 √napɛm husband
 √nɛnɛjɔm mother
 √ničanɔs· child
 √noš·ɛ#j stepmother; FP maternal aunt
 √ok·omɔs· grandmother
 √os· father
 √sɔkwɔs· maternal aunt
 √sɔkwɔs·ɔs· mother-in-law
 √s·ɔsɛ#j older brother
 √šɔmɔs· father-in-law
 √šɔš·ɛ#j older brother
 √š·omɔs· niece -- sister's daughter
 √š·imɛ#j younger sibling
 √tanɔs· daughter
 √tɛtɛ#j father, "dad"
 √tiʔakwam pet horse, pony
 √wičɔʔɛ#j spouse
 √aj pet

6.3. Noun Compounds. Noun compounds are formed by prefixing a root to a noun stem, with external sandhi between them. Thus all noun forms containing an external juncture, except locatives (see §3 and §6.8) are marked as compounds; others, in which the difference between internal and external sandhi would not be apparent in the resultant forms, are not always safely classified as compounds or as derivations with more than one root; the latter, as seen in §4.1, also occur. As examples may be given:

√ap·ašk black(?)
 √maʔwε(#j) wolf; √ap·ašk=maʔwε(#j) lion; singular p·ešk-mʔwε.
 √kano(#j) eagle; √ap·ašk=kano(#j) black eagle; singular p·ešk-kno.

√wap white
 √wap=kano(#j) white eagle
 √wap=konoškwe#j or √wapakonoškwe#j rat
 √wap=to#j, √wapato#j mushroom, toadstool

In case of doubt as to analysis forms have been analyzed as derivations with more than one root rather than as compounds.

The most productive type of compound is that with first element √ič. This is a medial, not a root, in that it cannot stand initially; a personal prefix must precede it; when prefixed to a noun stem it forms a dependent stem meaning ". . . fellow-. . ." -- that is, it modifies the possessive relation between the possessor and the possessed entity from one of actual property to one in which the form expresses membership in a single group of the possessor and the possessed.

√ʔes·apan raccoon
 wič-ʔes·apan his fellow-raccoon(s) -- "he" being also a raccoon

√aneš·anape Indian
 nič-neš·napetek O my fellow Indians! (an Indian speaking)

6.4. Classification of Noun Stems. In §2.1 it was pointed out that the system of morphophonemics which reduces to rationality most of the apparent irregularities of the language leaves a certain residuum of unreduced odd forms which it is more efficient to mention specifically than to deal with by complicating the symbolism further. The greatest number of these are found in noun formations. The formulae of noun stems, of course, are derived from their paradigms. If the formulae are so constructed that a particular group of the forms in each paradigm are regular, others are irregular. If others are taken as basic in constructing the formulae, then a still different set of irregularities will result. The most efficient treatment bases formulae on the flexions -- singular, plural, obviative, second obviative, plural vocative; it is this which has been done, and the presentation which follows is based thereon.

For purposes of describing suffixational irregularities the following classification of stems is useful:

- 1) The stem $\sqrt{\text{ak}\cdot\text{a}}$ land, and all longer stems having this as the final element except for a zero final.
- 2) The three stems $\sqrt{\text{mas}\cdot\text{kwe}}$ blood, $\sqrt{\text{pakwe}}$ dust, and $\sqrt{\text{amwe}}$ bullet.
- 3) Stems ending in a strong vowel (other than the above); e. g.:
 $\sqrt{\text{šomikwe}}$ smile
- 4) Stems ending in $\sqrt{\text{\#j}}$:
 $\sqrt{\text{matamose}\#\text{j}}$ old woman
- 5) Stems ending in a consonant other than $\sqrt{\text{\#j}}$:
 $\sqrt{\text{nokamowan}}$ song

6) Stems ending in \sqrt{E} or \sqrt{jE} , including those in postvocalic \sqrt{wE} , but not those in postconsonantal \sqrt{wE} :

\sqrt{tapE} head

7) Stems ending in $\sqrt{\#wE}$:

$\sqrt{sipQ\#wE}$ stream

8) Stems ending in postconsonantal \sqrt{wE} other than those in $\sqrt{\#wE}$:

$\sqrt{nak\cdot anQ\check{skwE}}$ reed

9) Stems ending in \sqrt{O} :

\sqrt{winQnO} fat, grease

Some stems have forms so as to fall into two of the above categories -- in other words, are pleomorphs. Thus, much more frequent than 3) or 4), are stems falling either in 3) or in 4):

$\sqrt{manato(\#j)}$ snake, spirit

There is likewise some variation between 8) and 9), e. g.:

$\sqrt{mat\cdot akwE}$ or $\sqrt{mat\cdot akO}$ tree

In the following sections on suffixation the various types of ~~stems~~ are referred to by numbers followed by single closing parentheses -- 3), 3)-4) pleomorph, and the like.

6.5. Diminutives and Pejoratives. The final for the diminutive is $\sqrt{s\cdot}$:

3), 4), and 3)-4) pleomorphs: In the recorded cases the final $\sqrt{\#j}$, whether used always or only sometimes in the plural, is dropped in adding $\sqrt{s\cdot}$:

√natwε snake; √natwεs° little snake
 √waposo rabbit; √waposos° little rabbit

5) Stems in a consonant add^hε before the √s°:

√wiwin horn; √wiwinεs° little horn
 √anomoš° dog; √anomoš°εs° puppy

But themes in the finals √kα or √k°α substitute therefore √kas°, √k^has°:

√nak°α mat; √nak°as° little mat
 √Onakα dish; √Onakas° little dish

6) √E and √jE are maintained:

√mjēwE road; √mjēwes° trail

8) Postconsonantal √wE changes to √0:

√wanakwE hole; √wanakos° little hole

What stems of types 1), 2), 7) and 9) ^{do} is not known for no examples occur in the material. The irregularities, if any, might well parallel those for the √k locative (see §6.8) and √m possessive derivative (see §6.6).

The diminutive derivative normally implies simply diminution -- child, baby; road, trail; house, hut; and the like. In the following cases there is a more drastic change of meaning:

√mat°akwE, √mat°ak0 tree, stick, log (animate);
 √mat°akos° twig (inanimate)
 √pαkanE walnut; √pαkanεs° hazel-nut
 √aš°Ote (#j) fire; √aš°Otes° match
 √wapαkonoškwε (#j) rat; √wapαkonoškwεs° mouse

Diminutive derivatives maintain the gender of the underlying stem. The first of the four examples above is the only exception, and it is not an exception if, as is possible, the underlying stem in the meaning log -- that is, not a living tree -- is inanimate.

The final for the pejorative is $\sqrt{\text{š}}$:

3) 4) and 3)-4) pleomorphs; the form with $\sqrt{\text{\#j}}$ is used:

$\sqrt{\text{was}} \cdot \text{akoneto} \sqrt{\text{\#j}}$ flower $\sqrt{\text{was}} \cdot \text{akoneto} \text{jaš} \cdot$ bad-smelling
flower

5) Regular:

$\sqrt{\text{jatas}} \cdot \text{ok} \cdot \text{an}$ story; $\sqrt{\text{jatas}} \cdot \text{ok} \cdot \text{anaš} \cdot$ bad story

6) The $\sqrt{\text{E}}$ or $\sqrt{\text{jE}}$ drops in some cases:

$\sqrt{\text{mjewE}}$ road; $\sqrt{\text{mjewuš}}$ bad road

In some others, the $\sqrt{\text{E}}$ becomes $\sqrt{\text{ε}}$ and $\sqrt{\text{j}}$ is added:

$\sqrt{\text{ipateE}}$ tooth; $\sqrt{\text{ipate} \text{jaš}}$ bad tooth

8) The one available form from a stem of this type is:

$\sqrt{\text{wanukwE}}$ hole; $\sqrt{\text{wanuko} \text{jaš}}$ bad hole

9) like 8):

$\sqrt{\text{ak}} \cdot \text{ak} \cdot \text{O}$ bucket; $\sqrt{\text{ak}} \cdot \text{ak} \cdot \text{ojaš}$ bad bucket

Pejoratives maintain the gender of the underlying stem. In one case a difference in meaning other than simple belittling results; the stem $\sqrt{\text{iw}}$, which is medial plus final zero, appears only in the form wiwən his wife(3-3') and in a pejorative derivative $\sqrt{\text{iwaš}}$ or $\sqrt{\text{iwəš}}$, which is used freely, not in the meaning wife, but as a half-jesting derogatory term of reference for anyone.

6.6. Formation of Possessed Themes. The personal prefixes and two personal suffixes delimit completely the number and person of the possessor of a possessed theme. The rule for use of prefix has been given in §5; the second personal prefix is used for 2, 12 and 25, the

first for 1 and 15, the third for 3, 3', 3'', 35, 0, 05. There are two personal suffixes, one used when the possessor is plural and includes the first person, the other when it is plural and excludes the first person. Thus, tabularly:

possessor	prefix	suffix
1	√n, √nat	--
2	√k, √kat	--
3, 3', 3'', 0	√w, √wat	--
12	√k, √kat	√nan
15	√n, √nat	√nan
25	√k, √kat	√wa
35, 05	√w, √wat	√wa

Thus:

√Okama chief; with noun in singular flexion, obviative when necessary:
 ntokmam my(1) chief(3)
 ktokmam thy(2) chief(3)
 wtokmamən his(3) chief(3')
 ktokmamnan our(12) chief(3)
 ntokmamnan our(15) chief(3)
 ktokmamwa your(25) chief(3)
 wtokmamwan their(35) chief(3')

It is to be noticed that according to the rule for obviation (§3, under pattern 6)) when the possessor of an animate noun is 3 or 35 the noun must be obviative.

The only irregularity of sandhi for the personal suffixes is that √nan changes to √na before the plural vocative paradigmatic suffix √tak (§6.9). Thus:

ntokmamnatek 0 our chiefs!

For the formation of possessed themes there remains to be discussed only the use or non-use of the possessive derivative suffix √m, and the irregularities of sandhi which its use involved; but this is the most complicated item of all. Dependent stems reject it, as do the following independent stems:

- √čač·amasakan sneezing medicine
 √čikwe thunder
 √čikwemjēwE rainbow
 √aʔamosəs·an beehive
 √ʔanak·ot cloud; FP man's name
 √ʔapatošis· half-breed
 √ʔascjan loin-cloth; diaper
 √ʔašpakO bluff; high hill along a river
 √kačipasowan belt, waist
 √kapakOk·weʔakan lid
 √kapakočokan apron
 √kapOti#j trousers
 √katakan field
 √kwatamočakan fishhook
 √ak·ačakak·weʔakan parasol, porch
 √ak·ak·ašewapate#j burnt stump
 √ak·amas·akan axe
 √ak·ašajepawis·an morning meal, breakfast
 √ak·atənakan braid of hair
 √mak·atēpiwapakwE black iron(?)
 √mamok·amawikawamE summer house
 √mas·kopwakan red clay pipe; peace pipe
 √mat·akaškoktek·an fire-drill
 √mat·akwap bow
 √mat·akwejapjE bowstring
 √miš·anikwakan eyebrow, eyelash
 √miš·atamak·anakan small beard in center of chin
 √mowačE faeces(?)
 √nakamowan song
 √nanawanačakan middle finger
 √nanoš·εpas·awan ear-ring
 √nekatoš·awakamakwE barn
 √nes·ekwapateʔawan pin
 √moʔakananačE first finger
 √notakačakan musical instrument (other than a drum)
 √pačakwan penis
 √pakamas·akan axe
 √pakanəs· hazel-nut
 √pakonajawis·an evening meal
 √pakweʔas·an chip of wood
 √pakweškas· cracker
 √apak·wačakan roof, top
 √paḡonašiwakan winter house
 √paškasakan gun
 √pisakamawakan coat
 √potaʔaškwan pestle
 √potaʔakan mortar
 √potawakan flue, chimney
 √Opwakan pipe

√sekapanawan braid of hair
 √eikameʔakan spear
 √sisapanikwakan tear (in eye)
 √as·ema(#j) tobacco
 √šakwak·aminak·an pine seed
 √šati#j spearhead, arrowhead
 √šiš·ikat·akan urine
 √aškamOte sack, bag
 √(O)škišakO eye
 √aškotek·an flint-and-steel
 √aškwatemE door, doorway
 √tak·anakan cradle
 √tak·Opačakan anything to tie things with; e. g., hairribbon
 √teweʔakananimaʔatawan drum dance
 √atop·awan table
 √atop·awekan tablecloth
 √at·ekamašE oak-tree
 √wak·aʔakan fence
 √wak·ajapate#j circle of teeth, jawful of teeth
 √jačomowan moral story
 √japataʔawan cane
 √jatas·ok·an story
 √jenakačomowan funny story

Forms with /ič(6.3) reject /m.

All other noun stems may use /m; certain ones always do. Animate names of people and animals or spirits, and the botanical animates listed in §6.1, must use it. Others for which it is compulsory are the following:

√Očak·e#j stump
 √ʔas·akamakwe moss, evergreen
 √kis·as·O sun, month
 √kišakwe day, sky
 √kokapanakan basket
 √konje snow
 √kotakok·wan chain over fire from which to hang pots
 √kwawakan forked sticks which support the rod which holds the chain over the fire
 √ak·ak·aše#j coal, charcoal
 √ak·ati#j kettle
 √ak·watak·a#wE hill
 √mak·omje ice
 √manaš·e(#j) island
 √mapas·E lake

√mas·kwapako(#j) penny
 √mas·kwe blood
 √mas·kwekas· red flannel, red rag
 √maškak·a#wE medicine
 √matamanapo#j hominy, corn soup
 √mat·akwakak·a timber, woods, forest
 √mišaško#wE grass, weed
 √motej bottle
 √nako(#j) star
 √napo#wE, napo#j drink
 √nekok·a#wE trash, dirt
 √pakawajan cloth
 √pakanE walnut
 √pakwE(#j) ashes, dust
 √pak·wak·watwE ball
 √panawakok·a#wE sand
 √pikačes·ako#j stump, old stump, log
 √piwapakwE iron
 √osawašonaja#j gold things; gold money
 √sipa#wE creek, stream, flowing water
 √sisapak·watwE sugar
 √siwano#wE grape
 √siwapo#j, siwapo#wE cedar
 √as·anje stone, rock
 √as·apapjE rope, thread
 √šakakaʔakan button
 √šəš·ak·a dirt
 √šapanakan needle
 √šenawekan bell, sleighbell
 √aškote(#j) fire
 √aškotes· match
 √šomikwe smile
 √šonaja#j money, coin, dollar
 √aš·oʔakan paint, housepaint
 √tak·apwE well
 √teʔaman strawberry
 √at·akaman acorn
 √at·akapakwE leaf
 √wanak·wak·a#wE ditch
 √wanakwE hole, well
 √wapakan clay
 √wapaškok·a#wE swamp
 √wapawajan blanket
 √was·akoneto#j flower
 √was·ečakan window
 √awawE egg
 √winano fat, grease
 √wiwašawan pack, bundle

These groupings are not based on forms as they appear in texts, but on the induced behaviour of the informant. However, in this there was a considerable amount of fluctuation. Dependent stems definitely rejected \sqrt{m} always, and the animates mentioned before the last list definitely had to have it. But for stems not falling on one of these two categories, JS would reject a particular word with \sqrt{m} one day, a few days later accept it. One may venture the guess that actually any stem except those of the two specifically restricted categories can optionally accept or reject \sqrt{m} , and that the groupings which are given above are the results of accident in adducing the forms. In any case, the listings must be taken as quite tentative.

The method of joining \sqrt{m} is to be dealt with by type of stem.

1) 2) The four stems in these two types, together will all having these as their last members save for a zero final, change the final vowel to i before \sqrt{m} :

$\sqrt{ak} \cdot a$ land; $\sqrt{ak} \cdot im$ ¹
 $\sqrt{mas} \cdot kwe$ blood; $\sqrt{mas} \cdot kwim$
 \sqrt{pckwE} dust; \sqrt{pckwim}
 \sqrt{anwe} bullet; \sqrt{anwim}

3) 4) and 3)-4) pleomorphs. Stems ending in a strong vowel that add \sqrt{m} without modification (if, indeed, there are any such), those ending in $\sqrt{\#j}$ that is likewise, and pleomorphs ending in either for the addition of \sqrt{m} , may be considered regular:

$\sqrt{mas} \cdot kwati \#j$ anus; $\sqrt{mas} \cdot kwati jom$
 $\sqrt{a'amo} (\#j)$ bee; $\sqrt{a'amo}$ or $\sqrt{a'amo} jom$

¹The forms given with \sqrt{m} are given without personal prefixes or suffixes; for the actual possessed themes the latter would have to be affixed, as described in the first part of this section (§6.6).

But there also stems which end only in a vowel, but which may suffix $\sqrt{\#j}$ before \sqrt{m} ; others which have to do so; some which end always in $\sqrt{\#j}$ for the plural but may optionally drop it before \sqrt{m} ; and so forth.

The following stems in $\sqrt{\#j}$ may optionally drop it before \sqrt{m} :

$\sqrt{O\check{c}ak\cdot\epsilon\#j}$ stump
 $\sqrt{kakaka\check{s}\cdot i\#j}$ crow
 $\sqrt{kwak\cdot wate\#j}$ grasshopper
 $\sqrt{ak\cdot ati\#j}$ kettle
 $\sqrt{matomose\#j}$ old lady
 $\sqrt{mi\check{s}akanakw\#j}$ bat
 $\sqrt{napo\#j}$ drink (and other stems containing the final \sqrt{apo})
 $\sqrt{nekato\check{s}\cdot a\#j}$ horse
 $\sqrt{pika\check{c}\acute{e}s\cdot ako\#j}$ old stump, rotten log
 $\sqrt{O\check{s}kanawe\#j}$ young man; vassal
 $\sqrt{\check{s}onaja\#j}$ money
 $\sqrt{wapa\check{s}kakano\#j}$ white eagle
 $\sqrt{wapato\#j}$ mushroom, toadstool
 $\sqrt{wapatok\cdot\epsilon\#j}$ mushroom, toadstool
 $\sqrt{wemat\cdot ako\check{s}i\#j}$ Frenchman
 $\sqrt{wi\check{s}taja\#j}$ blacksmith

The following end in $\sqrt{\#j}$ which must drop before \sqrt{m} :

$\sqrt{a\check{c}atamo\#j}$ chipmunk
 $\sqrt{katate\#j}$ otter
 $\sqrt{ak\cdot ak\cdot a\check{s}\epsilon\#j}$ coal, charcoal

The following pleomorphs must retain the $\sqrt{\#j}$ before \sqrt{m} :

$\sqrt{kikap\epsilon(\#j)}$ boy
 $\sqrt{mi\check{s}\cdot a\check{c}\acute{e}pok\cdot oma(\#j)}$ peach
 $\sqrt{ni\check{s}ote(\#j)}$ twin
 $\sqrt{apano\check{c}\epsilon(\#j)}$ child
 $\sqrt{pot\epsilon watami(\#j)}$ Potawatomi

The following two pleomorphs, on the other hand, must drop the $\sqrt{\#j}$ before \sqrt{m} :

$\sqrt{ma\text{?}we(\#j)}$ wolf
 $\sqrt{anako(\#j)}$ star

Lastly, the single stem $\sqrt{somikw\epsilon}$ regularly adds $\sqrt{\#j}$ before \sqrt{m} .

As in the case of the acceptance or rejecting of \sqrt{m} , the existence

of these different functional categories must be taken rather as indications of a state of considerable flux, than as being water-tight compartments.

The following two stems deserve special mention; the first adds \sqrt{m} in a quite irregular manner, the second, ending in a strong \sqrt{e} , is a very rare type:

$\sqrt{ak}\cdot w\acute{e}$ woman; $\sqrt{ak}\cdot w\acute{e}jom$
 $\sqrt{ap}\cdot \acute{e}k\cdot j\acute{e}$ cattail; $\sqrt{ap}\cdot \acute{e}k\cdot j\acute{e}m$

5) Stems of this type are numerous, and most of them quite regular:

$\sqrt{kikos}\cdot$ fish; $\sqrt{kikos}\cdot \acute{a}m$

Three insert \sqrt{i} before the \sqrt{m} , the last given having also the regular form:

$\sqrt{ak}\acute{O}\acute{c}\acute{e}s\cdot$ bean; $\sqrt{ak}\acute{O}\acute{c}\acute{e}s\cdot im$
 $\sqrt{mataman}\cdot$ corn, ear of corn; $\sqrt{mataman}im$
 $\sqrt{\acute{s}amakan\acute{a}\acute{s}\cdot}$ soldier; $\sqrt{\acute{s}amakan\acute{a}\acute{s}\cdot im}$ or $\sqrt{\acute{s}amakan\acute{a}\acute{s}\cdot \acute{a}m$

Quite a number in the finals \sqrt{kan} , $\sqrt{k}\cdot \acute{a}n$, \sqrt{man} , \sqrt{wan} (see §.2) add \sqrt{Om} , most having also the normal forms:

$\sqrt{mak}\cdot \acute{a}t\acute{e}m\acute{a}n$ blackberry; $\sqrt{mak}\cdot \acute{a}t\acute{e}m\acute{a}n\acute{O}m$ only
 $\sqrt{was}\cdot \acute{e}\acute{c}\acute{a}k\acute{a}n$ window
 $\sqrt{kokap\acute{a}n\acute{a}k\acute{a}n}$ basket
 $\sqrt{\acute{s}ap\acute{a}n\acute{a}k\acute{a}n}$ needle
 $\sqrt{ak}\cdot w\acute{a}\acute{c}\acute{a}t\acute{a}j\acute{e}p\acute{a}w\acute{a}n$ chair; $\sqrt{ak}\cdot w\acute{a}\acute{c}\acute{a}t\acute{a}j\acute{e}p\acute{a}w\acute{a}n\acute{O}m$ or
 $\sqrt{ak}\cdot w\acute{a}\acute{c}\acute{a}t\acute{a}j\acute{e}p\acute{a}w\acute{a}n\acute{a}m$
 $\sqrt{kwaw\acute{a}k\acute{a}n}$ forked sticks over fire
 $\sqrt{mak}\cdot \acute{a}t\acute{a}k\acute{a}n$ fur
 $\sqrt{n\acute{a}k\ w\acute{a}p\acute{a}\acute{c}\acute{a}k\acute{a}n}$ snare, net, trap
 $\sqrt{n\acute{a}k}\cdot \acute{a}n$ reed mat
 $\sqrt{\acute{n}\acute{a}p\acute{a}k}\cdot \acute{o}w\acute{a}k\acute{a}n$ necktie, handkerchief around neck, scarf
 $\sqrt{siw\acute{a}t}\cdot \acute{a}k\acute{a}n$ salt
 $\sqrt{\acute{s}ak\acute{a}k\acute{a}\acute{a}\acute{a}k\acute{a}n}$ batton
 $\sqrt{\acute{s}\acute{e}n\acute{a}w\acute{e}k\acute{a}n}$ bell
 $\sqrt{w\acute{a}p\acute{a}k\acute{a}n}$ clay

One in $\sqrt{k}an$ adds \sqrt{OmE} :

$\sqrt{mišakan}$ leather, set of harness;
 $\sqrt{mišakanOmE}$ or $\sqrt{mišakanOm}$

Three stems in postvocalic $\sqrt{\#w}$ resemble those in $\sqrt{\#wE}$, q. v. below:

$\sqrt{kano\#w}$ eagle (also $\sqrt{kano\#j}$); \sqrt{kanoOm}
 $\sqrt{pašak\#w}$ cow; $\sqrt{paš\#ak\#im}$
 $\sqrt{anana\#w}$ man; \sqrt{ananim} or $\sqrt{ananimOm}$

6) \sqrt{E} and \sqrt{jE} usually change to \sqrt{i} before \sqrt{m} :

$\sqrt{(O)čet\#E}$ sinew; $\sqrt{(O)čet\#im}$

The following, however, simply drop the \sqrt{E} or \sqrt{jE} :

$\sqrt{mak\#omjE}$ ice; $\sqrt{mak\#omOm}$
 $\sqrt{mapas\#E}$ lake
 \sqrt{minE} berry, blueberry
 $\sqrt{amj\#wE}$ road
 \sqrt{pakanE} walnut
 $\sqrt{awajas\#E}$ meat
 $\sqrt{wikawamE}$ house
 $\sqrt{mačatas\#E}$ socks, leggings

And one is completely irregular:

\sqrt{awawE} egg; $\sqrt{awawOmE}$

7) Stems in $\sqrt{a\#wE}$ change all of that to \sqrt{i} :

$\sqrt{sip\#wE}$ stream; \sqrt{sipim}

One three ~~stems~~ have $\sqrt{\#wE}$ ~~xxx~~ preceded by something other than \sqrt{a} ;

their behaviour is as follows:

$\sqrt{mišoško\#wE}$ grass, weed; $\sqrt{mišoškom}$
 $\sqrt{siwano\#wE}$ grape; $\sqrt{siwanoOm}$
 $\sqrt{napO\#wE}$ drink; \sqrt{napom}

8) Postconsonantal \sqrt{wE} changes normally to \sqrt{w} :

$\sqrt{šakwak\#wE}$ pine tree; $\sqrt{šakwak\#om}$

The exceptions are:

$\sqrt{kišakwE}$ day, sky; $\sqrt{kišakim}$
 $\sqrt{tak\#apwE}$ well; $\sqrt{tak\#apim}$
 $\sqrt{masat\#akwE}$ ear of corn; $\sqrt{masat\#akwem}$ or $\sqrt{masat\#akom}$

9) Stems in $\sqrt{0}$ change that to $\sqrt{0}$:

$\sqrt{ak \cdot ak \cdot 0}$ bucket; $\sqrt{ak \cdot ak \cdot om}$

Pleomorphs, except the $\sqrt{(\#j)}$ kind, require special mention.

They are:

$\sqrt{0\check{c}epak \cdot wE}$ root
 $\sqrt{0\check{c}epak \cdot E}$

$\sqrt{0\check{c}epak \cdot om}$
 $\sqrt{0\check{c}epak \cdot im}$

$\sqrt{?as \cdot akomakwE}$ moss, evergreen
 $\sqrt{?as \cdot akomak \cdot E}$

$\sqrt{?as \cdot akomak \cdot om}$

$\sqrt{mat \cdot akwE}$ tree, stick, log
 $\sqrt{mat \cdot akO}$

$\sqrt{mat \cdot akom}$

$\sqrt{wikapiš \cdot (E)}$ bark

$\sqrt{wikapiš \cdot om}$
 $\sqrt{wikapiš \cdot em}$

$\sqrt{Onakək \cdot wE}$ tree bark
 $\sqrt{Onakək \cdot O}$

$\sqrt{Onakək \cdot om}$

$\sqrt{napO\#wE}$ drink (likewise all other stems containing \sqrt{apo})
 $\sqrt{napo\#j}$ \sqrt{napom} , $\sqrt{napojom}$

6.7. Flexions. The singular flexion is formed by adding zero (not $\sqrt{\#}$, but simply nothing); the plural for animates with \sqrt{k} , for inanimates with \sqrt{n} ; the obviative with \sqrt{n} . The second obviative is formed by superadding \sqrt{n} to the obviative.

$\sqrt{mat \cdot akwE}$, $\sqrt{mat \cdot akO}$ tree
 $\sqrt{mt \cdot əkok}$, $mt \cdot əkwək$ trees(35)
 $mt \cdot ək$ tree(3)
 $mt \cdot əkon$, $mt \cdot əkwən$ tree(s)(3¹)
 $mt \cdot əkonən$, $mt \cdot əkwənən$ tree(s)(3²)

$\sqrt{k \cdot atə}$ leg
 $nk \cdot at$ my leg(0)
 $nk \cdot atən$ my legs(05)

√Okoma(#j) chief
 *ktokmamnan our(12) chief(3)
 ktokmamnanək our(12) chiefs(35)
 ktokmamnanən our(12) chief(s)(3')
 ktokmamnannən our(12) chief(s)(3'')

√Ok·a land, earth, dirt has the plural √ak·iwən. Stems having this as the final element, of such a morphophonemic structure that the initial √a of the √ak·a drops, have the same plural ending; but if the morphophonemic structure is such that that √a remains, or if the √k· comes to be preceded by a strong vowel, then the plural is √k·wən. Thus:

√mat·akwakak·a timber, forest; mt·əkwačk·iwən
 √panawakok·a sand; pnawkok·wən

√kwas· son has a regular plural formation; for example, with 1 possessor, nkwas·ək my sons; but it also forms an irregular plural, as in nkwas·əjək my sons. The obviative formations are comparable. This irregularity does not appear in those possessed themes in which a personal suffix is used. *Similar is √os·əs· grandchild; nos·əs·ək or nos·əs·əjək my grandchildren.

Although pleomorphs of the √(#j) type can form obviatives with either stem endings, those with the √#j retained are inclined to be avoided; from √mak·o(#j) bear, mk·ojən(3') and mk·ojnən(3'') are possible, but are normally replaced by mk·on and mk·onən. Other types of pleomorphs, listed at the end of §6.6, can form flexions with either stem form.

For the obviative locative, see §6.8.

6.8. Locatives. The three patterns for the formation of locative particles from noun stems are 7), 8) and 9) in 3. The joining of the

locative suffix, \sqrt{k} , to stems and themes is accompanied by some irregular sandhi, which may be dealt with first.

1) 2) The final vowel changes to \sqrt{i} , as in adding \sqrt{m} .

$\sqrt{ak}\cdot a$ land; $\sqrt{ak}\cdot ik$

3), 4), and 3)-4) pleomorphs. There may be the same type of fluctuation here as in the case of \sqrt{m} , but the forms available do not reveal it. Examples are:

$\sqrt{aškOte}(\#j)$ fire; $\sqrt{aškOte}k$
 $\sqrt{kapOti}(\#j)$ pants; $\sqrt{kapOti}k$, $\sqrt{kapOti}jak$

5) Most consonant **stems** are regular:

$\sqrt{čiman}$ canoe; $\sqrt{čiman}ak$

The following add \sqrt{ak} :

$\sqrt{tos}\cdot kwan$ elbow; $\sqrt{tos}\cdot kwanak$
 $\sqrt{k}\cdot wēkan$ neck
 $\sqrt{nakwikan}$ wing
 $\sqrt{p}\cdot akēkan$ rib
 $\sqrt{šikan}$ hip
 $\sqrt{tat}\cdot akakwan$ backbone

Two add \sqrt{ik} , one as a variant of the regular form:

$\sqrt{tamak}\cdot an$ chin; $\sqrt{tamak}\cdot anik$
 $\sqrt{wapak}an$ clay; $\sqrt{wapak}anik$ or $\sqrt{wapak}anuk$

6) These regularly change the \sqrt{e} or \sqrt{jE} to \sqrt{i} before \sqrt{k} ; as before

\sqrt{m} :

$\sqrt{čašE}$ nose; $\sqrt{čašik}$

But some, like some of type 5), add \sqrt{ak} , the \sqrt{e} or \sqrt{jE} dropping:

\sqrt{ipatE} tooth; \sqrt{ipatak}
 $\sqrt{aškanOte}$ sack
 $\sqrt{t}\cdot awakE$ ear
 $\sqrt{mCs}\cdot atE$ stomach

It is to be noted that all the stems taking \sqrt{ak} , except the word for sack, are dependent body-part names.

Some in \sqrt{E} or \sqrt{jE} drop that before \sqrt{k} :

\sqrt{amjEW} road; $\sqrt{amjewak}$
 \sqrt{pckenE} walnut
 $\sqrt{aškwatemE}$ door
 $\sqrt{awajas\cdot E}$ meat
 \sqrt{awawE} egg
 $\sqrt{wikawamE}$ house

Although $\sqrt{te^?E}$ heart forms its locative regularly, e. g., $nte^?ik$ in my heart, the stem $\sqrt{pip\cdot is\cdot ate^?E}$ lung has the quite irregular alternate locative $\sqrt{pip\cdot is\cdot atejak}$.

7) Stems ending in $\sqrt{a\#wE}$ drop all of that and add \sqrt{ik} :

$\sqrt{(O)k\cdot ak\cdot a\#wE}$ chest, breast; $\sqrt{(O)k\cdot ak\cdot ik}$

8) Postconsonantal \sqrt{wE} regularly changes to \sqrt{o} before \sqrt{k} :

$\sqrt{mat\cdot akwE}$ tree; $\sqrt{mat\cdot akok}$

Two drop the \sqrt{wE} and add \sqrt{i} , one as an alternate to the normal \sqrt{ok} :

$\sqrt{tak\cdot apwE}$ well; $\sqrt{tak\cdot opik}$
 $\sqrt{šakwak\cdot wE}$ pine tree; $\sqrt{šakwak\cdot ok}$ or $\sqrt{šakwak\cdot ik}$

9) These are regular:

$\sqrt{ak\cdot ak\cdot O}$ bucket; $\sqrt{ak\cdot ak\cdot ok}$

Pleomorphs:

$\sqrt{Ošepak\cdot wE}$ <u>root</u>	$\sqrt{Ošepak\cdot ik}$ only
$\sqrt{Ošepak\cdot E}$	
$\sqrt{wikopiš\cdot (E)}$ <u>bark</u>	$\sqrt{wikopiš\cdot ak}$ only
$\sqrt{napo\#j}$ <u>drink</u>	$\sqrt{napojak}$ only
$\sqrt{napO\#wE}$	

Since \sqrt{wE} changes to \sqrt{o} before \sqrt{k} , the \sqrt{wE} - \sqrt{VO} pleomorphs could not

show the distinction in the locative unless an irregular change, such as to \sqrt{i} , took place; none such are recorded.

The obviative locative is formed by superadding, quite regularly, \sqrt{k} to the obviative:

$\sqrt{ak}\cdot ak\cdot 0$ bucket
 $\sqrt{ak}\cdot ak\cdot on$ the other bucket (3')
 $\sqrt{ak}\cdot ak\cdot onak > kək\cdot onək$ in the other bucket

Locative particles formed from noun stems by pattern 7)(§3) are paralleled by a number of such particles in which the part of the word after the external sandhi joining is not a noun stem with locative suffix, but an element which in some cases does not turn up in other forms at all. The most important such posterior element is $\sqrt{ak}wən$, as in $\check{c}ik-jəkwan$ alongside of something. Most of the elements found in composition with this can also be used in pattern 7), but not all. There are also $\sqrt{pjək}$ water, suppletive to $\sqrt{napiš}\cdot$ water, which is the regular noun stem; $\sqrt{ak}\cdot amak$ ground, either suppletive to $\sqrt{ak}\cdot a$ earth, dirt, land or actually a form of it; $\sqrt{ačawən}$ estream.

$\sqrt{\check{c}ik}$ alongside
 $\check{c}ik-jəkwan$ alongside of something
 $\check{c}ik-pjək$ on the shore (i. e., alongside of the water)
 $\check{c}ik-wikwamək$ by the house

$\sqrt{?itaw}$ on both sides
 $?itwə-jəkwan$ back and forth; on both sides
 $?a?itwə-jəkwan$ (reduplicated) on both sides
 $?a?itəw$ on both sides of something
 possibly with nouns, but no cases recorded

$?apto-jəkwan$ halfway

$?ašwə-jəkwan$ beyond

ʔipə-jəkwan over there; cf, with the same meaning, ʔipə

kiwt·a-jəkwan around; around and around

√k·wəT, √k·wəč on top of

k·wəč-jəkwan on top

k·wət-pjek on the surface of a body of water

kəwət-k·əmək on the ground

k·wətačwən upstream, up north (in this case must be internal sandhi, since external would give * k·wət-ʔačwən)

k·wət-pək on the roof

k·wəč-top·wənək on the table

mč·i-jəkwan down below; cf, with the same meaning, mč·ik

√nam under

nam-jəkwan underneath

nam-pjek under water

nam-k·əmək underground

nam-top·wənək under the table

nam-mt·əkok under the tree

naw-jəkwan, nanaw-jəkwan in the middle; cf, with the same meaning, nawčš

pame-jəkwan on one side of something

√piT, √pič in

pič-jəkwan inside; cf pitək indoors

pič-tk·əpik in the well

sakčə-ʔəkwan outside, outdoors

škwə-jəkwan on the edge

wč·i-jəkwan towards something (cf preverb √wəčə, §7.1)

Thus the only prefixes actually testified for in composition with noun stems are √čik, √k·wəT, √nam, and √piT; some of the others doubtless can be used also in that way. Those in changeable √T use the changed form before √ajčkwan and actual noun stems.

With √k·wətačwən, mentioned above, can be compared nis·ačwən downstream.

Severable unanalyzable locative particles look as though they contained the locative suffix \sqrt{k} :

škwɛjak behind, afterwards
 kamɛjek beyond a body of water
 nek·mɛk everywhere
 špɛmɛk on high, above

Other locative particles are mentioned in §9; a few may be mentioned here:

*ajap·ɛn in the same place
 kpɛč on the edge of a body of water
 kwɛp·mɛ beyond something
 nɛjap back
 nikan ahead
 pɛš·oč close, nearby

Most of these and the others not treated here or in ~~section~~ §9 are unanalyzable; but with nikan ahead compare \sqrt{nikani} lead, be head man.

6.9. Vocatives. The vocative plural is formed quite regularly, the ending being \sqrt{tak} . Before this (§6.6) the plural first person suffix \sqrt{nan} becomes \sqrt{na} ; otherwise joining is regular:

ntokmamtɛk O my chiefs!
 ntokmamnatɛk O our chiefs!

It would not be necessary to recognize the singular vocative as a distinct flexion at all, were it not for the presence of a small number of highly irregular forms of direct address for kinship terms; except for these, the singular is used for direct address to a single person. The irregular ones are:

\sqrt{jos} <u>father</u>	nos·ɛ <u>O my father!</u>
\sqrt{ok} ·Omɔs· <u>grandmother</u>	nok·o
$\sqrt{wič}$ ·ɛj <u>spouse</u>	nwič·ɛ

√nenɛjɔn	<u>mother</u>	nnɛnɛ
√mɑs̄·omɑs̄·	<u>grandfather</u>	nmɛs̄·o
√š·imɛ#j	<u>younger sibling</u>	nš·i
√sɑkwɑs̄·	<u>maternal aunt</u>	nsəko
√ɑk·wɛm	<u>sister</u>	ntək·wɛmɛ

6.10. Preterit. To any possessed noun, as it stands fully formed and inflected, the suffix √pɔn may be added (§3, pattern 10)); sandhi is internal and normal:

nos·pɛn	<u>my deceased father</u>
nčimɛnmɛpɛn	<u>the canoe I had (but no longer have)</u>
ktokmɛnmɛnɛpɛn	<u>our former chiefs</u>

The discussion of the meaning of √pɔn given in §3 was complete; nothing need be added here. The forms are not frequent, but this may be due to the relative rarity of appropriate semantic situations rather than to any purely linguistic factor.

7. THE VERB

7.1. Ablaut, Preverbs, and Inserted Elements. In forming participials (§3, pattern 13)), the first syllable of the morphophonemic formula of the participial complex, whether it is a stem syllable or that of a preverb, is ablauted. The schedule of ablauting is this:

√a	remains unchanged
√ɛ	remains unchanged
√i	becomes √a
√o	becomes √a
√ɑ	becomes √ɛ
initial √ɑ	becomes √ʔɛ
initial √O	becomes √wɛ

Certain preverbs have irregular ablauted forms; these will be mentioned

at the appropriate places below.

Examples:

√wapomawwat ablauted
wapmawat the one they see

√nemot ablauted
nemot the one who breathes

√ki=nopot ablauted
ka=mpot the one who died

√nok·anck ablauted
nak·anek the one I hired

√nopot ablauted
nepot the dead one

√šš-čeket ablauted
?šš-čeket how he does it

√wocča-wak·ew=pikatapšš·ak ablauted
wčč-k·ew-piktəpšš·ək why it breaks easily

As indicated in §3, there are three ranks of preverbs; they may be discussed by rank, beginning with those which occur initially in the resulting complex.

A. Preverbs of the First Rank.

1) √ⁿε narrative prefix; stand first in a conjunct complex with regular conjunct paradigmatic endings. It may be followed by most, but not all, of the second and third rank preverbs. This prefix is homonymous with the change of initial √a, and there is some evidence suggesting that Potawatomi speakers do not keep the two entirely distinct -- the identity of form has led to a fusion of meaning. Examples will be found above and below.

2) \sqrt{a} . First rank, in conjunct or indicative, in the latter case with the shorter forms of the personal prefixes. In the indicative it appears primarily in forms which include the speaker in the subject, though not always so, and expresses intention; it might therefore be called the intentional or intensive. In the conjunct it has a similar meaning, involving the will of the people being talked about. It appears before only the element \sqrt{ki} of the second rank, and that only in the indicative. In the conjunct the few examples available have it followed by $\sqrt{to\check{s}o}$ of the third rank:

$\check{h}nta-\check{s}ja$ $\text{'otane\check{k}}$ I am going into town
 $nta-ki-\check{s}ja$ $\text{'otane\check{k}}$ I was going to go into town.
 $\text{'a-t\check{s}e-ns\text{'}awat}$ in order for them to kill him

3) \sqrt{ke} is used only in the indicative, with the shorter form of the personal prefixes, and only in forms in which the speaker is included in the subject; it indicates assent to a request; other meanings were not determinable:

$nke-wapma$ OK, I'll see him as you ask

4) \sqrt{kako} ?, indicative only, quickly; no other preverbs used:

$nkako\text{'}-ns\text{'}a$ I kill him quickly

5) \sqrt{nato} ?, indicative only, try; no other preverbs:

$nnato\text{'}-ns\text{'}a$ I try to kill him

3. Preverbs of the Second Rank. There are only two of these, and they are both of a tense character:

6) \sqrt{ki} , past tense, in indicative or conjunct. In the indicative it means simply past time; in the narrative it makes a more specific and definite reference to the past than does the form with no tense prefix.

Many elements of the third rank can appear after \sqrt{ki} , with or without $\sqrt{?e}$:

ki-pjε he came(indicative)
 ?ε-ki-pjat he came(conjunct, narrative)
 ?ε-ki-tšə-nim?ətijwat while they danced together(narrative)
 ?ε-ki-wə-čiptəpet he went to sit down(narrative)
 ka-mpot the one who died(participial)

7) \sqrt{wi} , future tense. In the indicative this connotes that a certain event is expected, though not that the speaker's own will or desire, nor that of the subject, is particularly involved in the expectation(cf \sqrt{ta} above). In the narrative it may imply simple expectation, or vague intent or desire, or ability, if that has been questioned.

wi-pjε he's going to come(indicative)
 ?ε-wi-pjat he was going to come(narrative)
 ?ε-wi-šə-ns·awat they were going to kill him thus(narrative)

C. Preverbs of the Third Rank.

8) $\sqrt{p·ič}$ when, while, inasmuch as; narrative mode only:

?ε-p·ič-tpəwəwat inasmuch as they were holding council

Compare with this the root $\sqrt{p·iT}$, with much the same meaning, as in

?ε-p·it·ačmowat they were talking at that time.

9) $\sqrt{tašə}$ where, while, how(means or manner); ablaut to $\sqrt{?etəšə}$, the final vowel being retained. Appears only in conjunct forms, primarily in participials:

ka-tšə-jət where he was(participial)
 ?etšə-mik·wəntək where he remembered(participial)
 ?ε-ki-tšə-nim?ətijwat while they danced together(narrative)
 ?a-tšə-ns·awat how they might then kill him.
 ?ε-tšə-wtankwənət where they had a town(narrative)

10) √awā, going to, on the way to -- that is, actual motion to the place where a thing is to be done; indicative and narrative:

kkə-wə-nim'ətijmən let's be on our way to dance together
(indicative)

ʔε-ki-wə-čiptəpət he went to sit down(narrative)

ʔε-ki-wə-pmaks'ot he went to lie down(narrative)

11) √kikiš after, already; conjunct only; in participial, or after √ʔε:

ʔε-kikiš-təpmat he had already had enough
kakiš-pšinat after he had skinned him

12) √ana when, then, until the time that; only recorded for narrative, without tense elements:

ʔε-nə-kač'ijət then he was small

ʔε-nə-pjat then he came

13) √wača, change to √wēč; why; towards; participial only:

wēč-k'ew-piktəpčš'ək why he breaks easily

wēč-k'ew-nkapawek why he melts easily

wēč-ks'ənjak towards where it is cold

ka-wčə-pjat why he came

14) √wəp inceptive; indicative, without preverbs of first and second rank, and narrative:

nwəp-nə'a I start to kill him

ʔε-ki-wəp-tpomawat they started to hold council about him

ʔε-ki-wəp-pitkəwat they started to come in

ʔε-wəp-nkapawət he started to melt

15) √aša thus, so, how; indicative and conjunct. There is also a root √aša in verbs; and the ^{ablaut}change of both of these, √ʔεša, resembles √ʔε plus √aša; the analyses have not cleared up all the possible cases of homonymy.

ʔε-šə-nkotwet he lived alone thus(narrative?)

ʔε-šəčkənət he was doing things thus(narrative)

ki-šə-čikkateno he lay thus with one leg up in the air
 (indicative)
 ka-šə-wəpet ʔe-ki-šə-tɛʔat how he had done it,
 that way he had in mind (participial; narrative);
 i. e., he thought of how he had done it

Inserted elements, placed after preverbs of the third rank, before the stem or, if present, the negative prefix, are independent words which could, with perfect grammatical correctness, be placed before or after the entire verb form proper. The difference of meaning is not detectable:

wəč-k·əw-piktəpɛš·ək why he breaks easily; participial,
 with wk·əw easily inserted.
 kakiš-ʔi-šətɛʔat after he thought this thus; participial,
 with ʔi this(O) inserted.
 ʔe-ki-wške-čis·pənawat they pinched him the first time;
 narrative, insertion wške first.
 wəč- nkom mekwa š·ak·ijək -jəwak why there are still
 today crowdads; participial; nkom today, mekwa
 still, š·ak·ijək crowdads(35), this last the subject
 of the verb.

Inserted elements do not appear in indicative forms.

7.2. Reduplication. Initial stem reduplication produces a form the meaning of which is iterative, intensive, continuative, or habituated; the first is probably the most typical meaning. Sometimes non-initial roots show reduplication, and there are traces of it in particle morphology. The present description is of the active, living process as it appears in verb morphology.

When the formula of a verb form has been reduced by dropping out the proper weak vowels and modifying the resulting clusters, as described in §2, the first phonemic syllable of the stem will consist

of non-syllabic plus vowel. The reduplication is of this syllable, and the reduplicating syllable stands before the reduplicated one. The reduplicating syllable has the same non-syllabic as does the reduplicated syllable. If that non-syllabic is of type 1, 3, 5, 6, or a sub-type of 17 with 1, 3, or 5 as the first element (see §1.4), then the vowel of the reduplicating syllable is the ablaut of the reduplicated vowel, according to the schedule given at the beginning of §7.1. If the non-syllabic is of any other type, then the vowel of the reduplication is *e*. A reduplicated stem with a non-syllabic calling for *e* in the reduplication can only take the longer form of the personal prefixes (§5). In the following examples, in the unreduced forms a hyphen precedes the stem:

nα-wapαtaʔr reduplicated >
 nwawaptaʔa I show it to him regularly
 nα-wεpαna reduplicated >
 nwεwεpna I leave him repeatedly
 nαčipαtαp reduplicated >
 nčačiptεp I sit down
 nα-koki reduplicated >
 nkakoki I dive in often
 nαtα-mαnačakona reduplicated >
 ntεmmεmmačkona I hold him tight
 nαtα-pαsαtakeε reduplicated >
 ntεpsεpsεtakeε I keep my mind on it constantly
 nαtα-čak·osiʔ reduplicated >
 ntεčk·εčk·osiʔ I am very short

In some cases reduplication produces an aberrant change in meaning. Thus, the word for sit, stem $\sqrt{\text{čipαtαp}}$, reduplicates, as shown above, to mean sit down. From the stem $\sqrt{\text{nipαw}}$ be standing comes the reduplicated form $\sqrt{\text{nanipαw}}$ stand up; this in turn can be reduplicated to $\sqrt{\text{nananipαw}}$ stand up repeatedly.

7.3. Transitive Animate Suffixation. Ta themes end in a consonant, and with a few slight exceptions which will be pointed out at the proper times the same sets of endings are used with all themes.

Indicative Endings. It is convenient to group transitive animate indicative forms as follows: direct forms are those having 1 or 2 in the subject but not in the object, or 3 or 35 subject and 3' object. Inverse forms are those having 1 or 2 in the object but not in the subject, or 3 or 35 object and 3' subject. The major reference of a direct form is its subject, of an inverse form its object; the minor reference the object of the direct form, the subject of the inverse. The remaining forms are II-thee and thou-me forms.

The suffixal elements of direct and inverse forms can be organized into the following series, beginning next to the theme:

- 1) For direct, \sqrt{a} ; for inverse \sqrt{akO} .
- 2) For negative status, $\sqrt{s\cdot i}$.
- 3) For a first person plural major reference, \sqrt{mQn} in direct forms, \sqrt{nan} in inverse, but \sqrt{mQna} in either before the element $\sqrt{p\text{en}}$. For a non-first person plural major reference, \sqrt{wa} ; this changes to \sqrt{mQwa} before $\sqrt{p\text{en}}$ in direct forms.
- 4) For the preterit, $\sqrt{p\text{en}}$; before \sqrt{k} or \sqrt{n} this becomes $\sqrt{p\text{en}in}$.
- 5) For an obviative minor reference, \sqrt{n} ; for 35, \sqrt{k} ; but these cannot be added to direct forms containing \sqrt{mQn} or \sqrt{mQna} .

There are two special sandhi features in inverse forms:

- 1) The stem final $\sqrt{m\alpha w}$ merges with $\sqrt{\alpha k\alpha}$ to give $\sqrt{mak\alpha}$.
- 2) Theme-final postconsonantal \sqrt{w} merges with $\sqrt{\alpha k\alpha}$ to give $\sqrt{\alpha k\alpha}$.

The direct forms thus built up are:

1-3	1-3'	1-35
2-3	2-3'	2-35
	3-3'	
12-3		
15-3		
25-3	25-3'	25-35
	35-3'	

And the inverse forms:

3-1		35-1
3-2		35-2
	3'-3	
3-12		35-12
3-15		35-15
3-25		35-25
	3'-35	

Below are presented, arranged in this same order, the indicative direct and inverse forms of $\sqrt{wap\alpha m}$ see:

nwapma	nwapman	nwapmak
kwapma	kwapman	kwapmak
	wapman	
kwapmamən		
nwapmamən		
kwapmawa	kwapmawan	kwapmawak
	wapmawan	
nwapmək		nwapməkək
kwapmək		kwapməkək
	wapməkən	
kwapməknan		kwapməknanək
nwapməknan		nwapməknanək
kwapməkwa		kwapməkwak
	wapməkwan	

And in the preterit:

nwapmapən kwapmapən	nwapmapəninən kwapmapəninən wapmapəninən	nwapmapəninək kwapmapəninək
kwapmamənapən nwapmamənapən kwapmamwapən	kwapmamwapəninən wapmamwapəninən	kwapmamwapəninək
nwapməkpən kwapməkpən	wapməkpəninən	nwapməkpəninək kwapməkpəninək
kwapməkənənapən nwapməkənənapən kwapməwapən	wapməwapəninən	kwapməkənənapəninək nwapməkənənapəninək kwapməwapəninək

It will be noticed that the personal pre-fixes, above and in forms yet to be given, are used according to the rule given in §5; and that in certain cases it is a difference of prefix which distinguishes two or three forms; nwapma I see him, kwapma thou seest him.

It is possible that the element for preterital forms should be formulated as $\sqrt{apən}$, and that it should be postulated as being joined to what goes before by external sandhi, not internal. This would account for the retention of the ə in "pən" in all forms, and may actually be the historically justifiable statement; descriptively it does not seem to matter. Forms will be written without the hyphen, as above.

Examples of the irregularities in inverse forms: $\sqrt{nis} \cdot \text{əwəpənəməw}$ throw down to or for; $\text{nnis} \cdot \text{wəpənəməwa}$ I throw it down to him, but $\text{nnis} \cdot \text{wəpməmak}$ he throws it down to me. $\sqrt{\text{kišk}^{\circ}\text{w}}$ cut; $\text{nkišk}^{\circ}\text{wa}$ I cut him, but $\text{nkišk}^{\circ}\text{ok}$ he cuts me.

Where there is no form for an obviative reference, that for the 3 reference is used; similarly where a 35 form is lacking. Thus 12-3 and 15-35 are used indifferently for a 3, 3', or 35 object.

The I-thee and thou-me forms are more difficult to analyze. They are presented in the following table; in the first column are the affirmative forms, in the second the negative, in the third and the fourth the preterit affirmative and negative:

1-2	√an	√as·anon	√anānapən	√as·anonānapən
1-25	√anəm	√as·anonəm	√anənəmawapən	√as·anonənəmawapən
15-2(5)	√anəmən	√as·anonəmən	√anənəmawapən	√as·anonənəmənawapən
2-1	√-- , see below	√s·i	√napən	√s·inapən
25-1	√əm	√s·im	√məwapən	√s·iməwapən
2(5)-15	√jəmən	√s·imən	√mənapən	√s·imənənapən

The ending for 2-1 is nothing, but a final √N, √T, √T·, √S· changes to ǝ, ɤ, ɤ·, ɤ· respectively.

Analysis:

- 1) For negative of I-thee forms, √as·ano; of thou-me, √s·i.
- 2) For I-thee forms, √an; for thou-me, nothing.
- 3) For 1-2 and 2-1, zero (not #), as remarked on above; but before √pən, √na. For 1-25 and 25-1, √əm, but before √pən, √nawa. For any reference to 15, √mən; before √pən in I-thee forms this changes to √mənawa, and in thou-me forms √məna; further, in thou-me forms when neither preceded by √s·i nor followed by √pən, √jəmən.
- 4) For preterit, √pən.

The same contraction of √wa to √0 occurs with these as with inverse forms; and the contracting √a may be either connective √u or the initial morphophoneme of a suffix.

Paradigm, with √wapəm:

Affirmative, non-preterit:

kwapən
 kwapənəm
 kwapənəmən
 kwapən
 kwapəm
 kwapəmən
 kwapəmənən

Negative, non-preterit:

kwapmēs·non
 kwapmēs·nonəm
 kwapmēs·nonmən
 kwapmēs·i
 kwapmēs·im
 kwapmēs·imən

Affirmative, preterit:

kwapmənnapən
 kwapmənnapən
 kwapmənnapən
 kwapmənnapən
 kwapmənwapən
 kwapmənwapən
 kwapmənnapən

Negative, preterit:

kwapmēs·nonnapən
 kwapmēs·nonnəwapən
 kwapmēs·nonmənwapən
 kwapmēs·inapən
 kwapmēs·inwapən
 kwapmēs·imnapən

The 2(5)-15 ending √jomən may contract, optionally, with a preceding √a which is retained, to give √ijmən; thus an alternative to kwapmējəmən you see us is kwapmijmən.

Notice that since 2 is involved in all II-thou and thou-me forms, the personal prefix is /k- throughout.

Imperative Endings. The following table is complete:

	Imperative	Prohibitive
2-3(5)	√--, see below	√ak·ən
25-3(5)	√ak	√ak·ək
2-1	√š·ən	√š·ik·ən
25-1	√š·ək	√š·ik·ək
2(5)-15	√š·ənək	√š·ik·ək

The ending for 2-3(5) in the imperative is like the indicative 2-1, a nothing which changes a changeable √N etc to š etc.

Certain internal resemblances can be recognized, such as the \sqrt{k} in all the prohibitive forms, but the forms are too few to make subanalysis worth while.

wap $\text{\textcircled{m}}$	wapmak $\cdot\text{\textcircled{m}}$
wapm $\text{\textcircled{k}}$	wapmak $\cdot\text{\textcircled{k}}$
wapm $\text{\textcircled{\text{š}}}\cdot\text{\textcircled{m}}$	wapm $\text{\textcircled{\text{š}}}\cdot\text{\textcircled{ik}}\cdot\text{\textcircled{m}}$
wapm $\text{\textcircled{\text{š}}}\cdot\text{\textcircled{k}}$	wapm $\text{\textcircled{\text{š}}}\cdot\text{\textcircled{ik}}\cdot\text{\textcircled{k}}$
wapm $\text{\textcircled{\text{š}}}\cdot\text{\textcircled{nek}}$	wapm $\text{\textcircled{\text{š}}}\cdot\text{\textcircled{ik}}\cdot\text{\textcircled{ak}}$

Conjunct Endings. No classification into direct, inverse, and the like, is feasible for conjunct. The endings of the non-preterit, except the special participial forms, are given in the following table; the numerals on the side refer to subject, along the top to object:

	1	2	3	3'	12	15	25	35
1		$\sqrt{\text{an}}$	$\sqrt{\text{ak}}$				· see below	$\sqrt{\text{akwa}}$
2	$\sqrt{\text{jan}}$		$\sqrt{\text{at}}$			$\sqrt{\text{jak}}$		$\sqrt{\text{atwa}}$
3	$\sqrt{\text{t}}$	$\sqrt{\text{ak}}$		$\sqrt{\text{at}}$	$\sqrt{\text{anak}}$	$\sqrt{\text{jamat}}$	$\sqrt{\text{anak}}$	
3'			$\sqrt{\text{akot}}$					$\sqrt{\text{akwat}}$
12			$\sqrt{\text{at}}$					
15		$\sqrt{\text{anak}}$	$\sqrt{\text{ako}}$				$\sqrt{\text{anak}}$	
25	$\sqrt{\text{jek}}$		$\sqrt{\text{ek}}$			$\sqrt{\text{jak}}$		$\sqrt{\text{akwa}}$
35	$\sqrt{\text{wat}}$	$\sqrt{\text{ak}\cdot\text{wa}}$		$\sqrt{\text{awat}}$	$\sqrt{\text{anak}}$	$\sqrt{\text{jamat}}$	$\sqrt{\text{anak}}$	

There are two forms for 1-25; after a theme in which the weak vowel before the last consonant drops, the form is $\sqrt{\text{anak}}$; after a theme in which the final consonant is preceded by a strong vowel, or by a weak vowel which is retained, the form is $\sqrt{\text{ananako}}$.

The form for 35-2 may possibly be $\sqrt{\text{akak}\cdot\text{wa}}$ instead of $\sqrt{\text{ak}\cdot\text{wa}}$.

The 3(5)-25 ending $\sqrt{\text{jamat}}$ may contract with a preceding retained $\sqrt{\text{a}}$ to $\sqrt{\text{ijmat}}$, like the indicative 2(5)-15 form $\sqrt{\text{jamjan}}$ mentioned above. This is true also for 2-1 $\sqrt{\text{jan}}$, and holds as well when the preterital element is added.

The preterit forms are made by suffixing $\sqrt{p\acute{o}n}$ to these endings, except that:

1) Endings in a final \sqrt{t} drop that and add $\sqrt{p\acute{o}t}$ -- 2-3 $\sqrt{ap\acute{o}t}$, 3-1 $\sqrt{p\acute{o}t}$, 35-1 $\sqrt{wap\acute{o}t}$, etc.

2) The two endings in final \sqrt{n} drop that; 2-1 $\sqrt{ja\acute{p}n}$, 1-2 $\sqrt{an\acute{p}n}$.

The following paradigm uses the stem \sqrt{min} ^{give to} which brings out the difference between the endings which begin in a consonant and those which begin in a vowel; the narrative forms are given:

	1	2	3	3'	12	15
1		ʔε-minnan	ʔε-minək			
2	ʔε-mišjən		ʔε-minət			ʔε-mišjak
3	ʔε-mišət	ʔε-minək		ʔε-minat	ʔε-minnek	ʔε-mišjəmet
3'			ʔε-minkot			
12			ʔε-minat			
15		ʔε-minnak	ʔε-minko			
25	ʔε-mišjek		ʔε-minək			ʔε-mišjak
35	ʔε-mišwat	ʔε-minkwa		ʔε-minawat	ʔε-minnek	ʔε-mišjəmet
		25	35			
	1	ʔε-minnəko	ʔε-minkwa			
	2		ʔε-mintwa			
	3	ʔε-minnak				
	3'		ʔε-minkwat			
	15	ʔε-minnak				
	25		ʔε-minkwa			
	35	ʔε-minnak				

The participial endings differ from the conjunct only in forms with 3' or 35 subject; of these it was only possible to collect the following: 35-1 $\sqrt{čak}$, 35-2 $\sqrt{ak\acute{o}ak}$, 35-12 $\sqrt{an\acute{o}akak}$, 35-15 $\sqrt{jamačak}$, 35-25 $\sqrt{an\acute{o}akak}$, and 35-3' $\sqrt{ačak}$.

Irregularities. The stem for tell, say so to is a pleomorph, \sqrt{a} and \sqrt{an} . Indicative forms are made with the second stem:

ntəna I tell him
ntənək he tells me

What the 2(5)-3(5) imperative forms are is not known; the other imperatives can be made with the second form of the stem. Conjunct forms are made sometimes with one, sometimes with the other:

?ε-nat he said to him
?ε-kot the other(3') said to him(3)

This last gives the impression of consisting of prefix plus suffixes, without a stem. The only possible basis underlying the selection of one or the other form of the stem is that if two strong, or weak but retained, vowels, would come together otherwise, the form with \sqrt{n} is used.

7.4. Animate Intransitive Suffixation. Ai stems must be classified as follows for presentation of suffixation:

- 1) Stems in a strong vowel, $\sqrt{0}$, or a consonant:

\sqrt{kas} ·akami start running
 $\sqrt{čakənε}$ be bereaved
 \sqrt{kak} ·ja be old
 $\sqrt{pəm}$ apət·o run along
 $\sqrt{čip}$ atap sit
 \sqrt{kas} ·kanas0 whisper

The vast majority of ai stems belong to this class.

- 2) Pleomorphs in \sqrt{a} and $\sqrt{ε}$:

\sqrt{nis} ·a/ε fall down

These use the theme in $\sqrt{ε}$ for all third person indicative forms --

singular or plural or obviative, affirmative or negative, preterit or non-preterit,-- the stem in \sqrt{a} in all other cases. The element "a/ε" need not be thought of as a special morphophoneme which appears as \sqrt{a} in certain cases, $\sqrt{\epsilon}$ in others, but simply as a convenient way of writing the two similar stems of the pleomorph.

3) Stems ending in the element \sqrt{j} , $\sqrt{j\epsilon}$; for these see the end of this section.

4) Stems in the finals $\sqrt{t\alpha n}$ and $\sqrt{t\cdot\alpha n}$:

$\sqrt{m\epsilon n\alpha t\alpha n}$ think

5) Stems ending in the prefinal and final $\sqrt{\check{s}\cdot\alpha n}$:

$\sqrt{m\alpha\check{c}\alpha m\alpha\check{s}\cdot\alpha n}$ be stuck

6) Three irregular stems requiring special mention:

$\sqrt{p\alpha s\cdot\epsilon b\alpha n\alpha}$ have a split mouth(i. e., hair-lip)

$\sqrt{sak\alpha^{\circ}\alpha n}$ go out

$\sqrt{O\alpha m\alpha k w\alpha m(O)}$ oversleep

Indicative Endings. The negative suffix precedes personal endings, which then take their usual forms for a stem ending in a strong vowel. It is $\sqrt{s\cdot i}$; 4) $\sqrt{t\alpha n}$ and $\sqrt{t\cdot\alpha n}$ give $\sqrt{t\alpha s\cdot i}$ and $\sqrt{t\cdot\alpha s\cdot i}$, all other junctures are regular.

1), 2). The endings are as follows:

	non-preterit	preterit
1	$\sqrt{--}$	$\sqrt{n\alpha p\alpha n}$
2	$\sqrt{--}$	$\sqrt{n\alpha p\alpha n}$
3	$\sqrt{\#}$, $\sqrt{w\alpha k}$	$\sqrt{p\alpha n}$, $\sqrt{w\alpha p\alpha n}$
3'	\sqrt{n} , $\sqrt{w\alpha n}$	$\sqrt{p\alpha n\alpha n\alpha n}$, $\sqrt{w\alpha p\alpha n\alpha n\alpha n}$
12	$\sqrt{m\alpha n}$	$\sqrt{m\alpha n\alpha p\alpha n}$
15	$\sqrt{m\alpha n}$	$\sqrt{m\alpha n\alpha p\alpha n}$
25	\sqrt{m}	$\sqrt{m\alpha w\alpha p\alpha n}$
35	\sqrt{k} , $\sqrt{w\alpha k}$	$\sqrt{p\alpha n\alpha n\alpha k}$, $\sqrt{w\alpha p\alpha n\alpha n\alpha k}$

Analysis:

- 1) For 1 and 2, zero; but \sqrt{na} before $\sqrt{p\acute{e}n}$.
For 12 and 15, $\sqrt{m\acute{a}n}$, which becomes $\sqrt{m\acute{a}na}$ before $\sqrt{p\acute{e}n}$.
For 25 \sqrt{m} , which becomes $\sqrt{m\acute{a}wa}$ before $\sqrt{p\acute{e}n}$.
For 3, 3', and 35, nothing.
- 2) For the preterit, $\sqrt{p\acute{e}n}$; if something further is added, $\sqrt{p\acute{e}nin}$.
- 3) For 3, nothing; for 3', \sqrt{n} ; for 35, \sqrt{k} .

But to this must be added the following special remarks:

1) The non-preterit 3 form takes optionally the suffix $\sqrt{\#}$ or the suffix \sqrt{wak} .

2) Forms for 3, 3', and 35 aside from non-preterit 3, insert \sqrt{wi} before the ending if the weak vowel pattern is such that an \sqrt{a} or \sqrt{o} , connective or part of the theme, immediately preceding it will be lost; otherwise the form without \sqrt{wi} is used.

3) The 35 ending \sqrt{k} causes a preceding \sqrt{a} or \sqrt{e} to change to \sqrt{i} .

4) Stems ending in $\sqrt{o'0}$ change that to $\sqrt{o'}$ for non-preterit 1 and 2.

$\sqrt{kas \cdot ak\acute{e}mi}$ start running; non-preterit:

$nkas \cdot k\acute{e}mi$
 $kkas \cdot k\acute{e}mi$
 $kas \cdot k\acute{e}mi$ or $kas \cdot k\acute{e}miwak$
 $kas \cdot k\acute{e}min$
 $kkas \cdot k\acute{e}min\acute{e}n$
 ~~$kkas \cdot k\acute{e}min\acute{e}n$~~
 $kkas \cdot k\acute{e}min$
 $kas \cdot k\acute{e}nik$

preterit:
 $nkas \cdot k\acute{e}minap\acute{e}n$
 $kkas \cdot k\acute{e}minap\acute{e}n$
 $kas \cdot k\acute{e}nip\acute{e}n$
 $kas \cdot k\acute{e}nip\acute{e}nin\acute{e}n$
 $kkas \cdot k\acute{e}minnap\acute{e}n$
 $nkas \cdot k\acute{e}minnap\acute{e}n$
 $kkas \cdot k\acute{e}minwap\acute{e}n$
 $kas \cdot k\acute{e}nip\acute{e}ninek$

√kas·kənəsO whisper:
 kas·knəs^ə or kas·knəs^wak he whispers
 kas·knəs^wik they whisper

√kašatəs be glad:
 kšatsik they are glad

√kwas·kəsəʔO jump:
 nkwas·ksoʔ I jump

√nis·a/ε fall down:
 nnis·a I fall down
 nis·ε he falls down
 nis·εpəninək they have fallen down
 nis·εs·ipəninək they have not fallen down

Stems in √təm and √t·əm differ from those of types 1) and 2) in their suffixation only in the following points:

1) The forms for 3, 3', and 35, except for non-preterit 3, have couplets just as do those for ~~them~~ of types 1) and 2); when the γ of √təm or √t·əm is retained the forms have √wi, when it is lost they have, not zero, out √o.

2) Before γ na, γ mən, and γ m (and their variants, γ mənə and γ məwə), √təm and √t·əm change to √ta and √t·a. Thus preterit 1 √tanapən etc.

3) The form for non-preterit 3 is zero, not √#.

√ənənətəm think; non-preterit:

ntənəntəm
 ktənəntəm
 nənəntəm or nənəntəm^wak
 (obviative ?)
 ktənəntəmən
 ntənəntəmən
 ktənəntəm
 nənəntəm^wik

preterit: ntənentanapən
 ktənentanapən
 nentəmən
 nentəməninen(?)
 ktənentamnapən
 ntənentamnapən
 ktənentamwapən
 nentəməninek

√pas·wətəm make an echo:
 ps·wətmok they make an echo
 ps·wətəm he makes an echo

Stems in √š·əm have the following peculiarities:

1) As with stems in √təm and √t·əm, forms for 3, 3' and 35 other than non-preterit 3 show variation between √o and √wi, instead of between zero and √wi as with the first stems considered.

2) Preterit 1 and 2 have √š·ənapən.

3) Like those in √t(·)əm, non-preterit 3 ends in zero, not √#.

√māčəmoš·əm be stuck:
 mčəmoš·ən he is stuck
 mčəmoš·nok they are stuck
 ntəčəmoš·napən I have been stuck

√ap·əkəš·əm fall:
 pəkš·ənwik they fall

The theme √pas·əton0 have a hair-lip is only irregular -- that is, only differs from other themes in √0 -- in taking no suffix for non-preterit 3; thus ps·əton he has a hair-lip. √Osaməkwam(0) shares this peculiarity in the indicative; it has some irregularities in other modes where √pas·əton0 is regular. √sakəʔəm has 3 sakəʔəm he goes out, 12 ksakʔəmən, 15 nsakʔəmən, 25 ksakʔəm, and the same stem changes in the preterit forms.

Imperative Endings. These are; imperative 2 \sqrt{n} , 25 \sqrt{k} ; prohibitive 2 $\sqrt{k}\cdot\text{an}$, 25 $\sqrt{k}\cdot\text{ek}$. $\sqrt{t}\text{an}$ and $\sqrt{t}\cdot\text{an}$ drop the \sqrt{m} , giving \sqrt{tan} , \sqrt{tak} , $\sqrt{tak}\cdot\text{an}$, $\sqrt{tak}\cdot\text{ek}$; and similarly with $\sqrt{t}\cdot\text{an}$. Stems in $\sqrt{s}\cdot\text{an}$ are regular, so also apparently the three irregulars listed under 6).

\sqrt{pja}/ϵ come:

pjan come here(2)!

pjak come here(25)!

keko pjak $\cdot\text{an}$ don't come here(2)!

keko pjak $\cdot\text{ek}$ don't come here(25)!

Conjunct Endings. For regular stems (types 1) and 2):

	non-preterit	preterit
1	\sqrt{jan}	\sqrt{japan}
2	$\sqrt{j\text{an}}$	$\sqrt{jap\text{en}}$
3	\sqrt{t}	$\sqrt{p}\cdot\text{et}$
3'	\sqrt{nat}	$\sqrt{nap}\cdot\text{et}$
12	$\sqrt{j\text{ako}}$	$\sqrt{(j\text{a})kop\text{en}}$
15	$\sqrt{j\text{ak}}$	$\sqrt{j\text{akap}\text{en}}$
25	$\sqrt{j\text{ek}}$	$\sqrt{j\text{ekap}\text{en}}$
35	\sqrt{wat}	$\sqrt{wap}\cdot\text{et}$

Analysis: The preterits are formed by adding \sqrt{pen} to the endings of the non-preterit forms, with the following provisos (with which compare those in the formation of the conjunct preterit of transitive animates,

§8.3):

- 1) Final \sqrt{t} drops, and instead of \sqrt{pen} , $\sqrt{p}\cdot\text{et}$ is added.
- 2) Final \sqrt{n} drops; for 1 \sqrt{pan} instead of $\sqrt{p\text{en}}$ is then added.

\sqrt{pja}/ϵ come:

? ϵ -pja jan

? ϵ -pja $\text{j\text{en}}$

? ϵ -pja t

? ϵ -pja $\text{np}\cdot\text{et}$

? ϵ -pja $\text{(j)kop\text{en}}$

? ϵ -pja $\text{jakp\text{en}}$

? ϵ -pja $\text{jekp\text{en}}$

? ϵ -pja $\text{wap}\cdot\text{et}$

? ϵ -pja jan

? ϵ -pja $\text{j\text{p\text{en}}}$

? ϵ -pja $\text{p}\cdot\text{et}$

? ϵ -pja $\text{np}\cdot\text{et}$

? ϵ -pja $\text{(j)kop\text{en}}$

? ϵ -pja $\text{jakp\text{en}}$

? ϵ -pja $\text{jekp\text{en}}$

? ϵ -pja $\text{wap}\cdot\text{et}$

Stems in $\sqrt{š}\cdot\text{am}$ have only two peculiar forms in the conjunct; 3 and 3' non-preterit are \sqrt{at} and $\sqrt{an\text{at}}$ respectively:

$\sqrt{\text{mačomoš}\cdot\text{am}}$ be stuck:
 ?ε-ki-mčomoš·nat he was stuck

Stems in $\sqrt{t}\text{am}$ and $\sqrt{t}\cdot\text{am}$ have quite a different system of endings, which must be presented separately: the forms as given in the following table include the final \sqrt{m} of the $\sqrt{t(\cdot)\text{am}}$ except where it is dropped:

	nonpreterit	preterit
1	$\sqrt{\text{man}}$	$\sqrt{\text{mapan}}$
2	$\sqrt{\text{ma(ja)n}}$	$\sqrt{\text{ma(ja)pən}}$
3	\sqrt{k}	$\sqrt{\text{kəp}\cdot\text{ət}}$
3'	$\sqrt{\text{manat}}$	$\sqrt{\text{manəp}\cdot\text{ət}}$
12	$\sqrt{\text{ma(ja)ko}}$	$\sqrt{\text{ma(ja)kopən}}$
15	$\sqrt{\text{mak}}$	$\sqrt{\text{makəpən}}$
25	$\sqrt{\text{mek}}$	$\sqrt{\text{mekəpən}}$
35	$\sqrt{\text{mawət}}$	$\sqrt{\text{mawəp}\cdot\text{ət}}$

The significant features in which this set differs from that for regular stems are: the dual nature of the \sqrt{m} , which seems at once part of the stem final $\sqrt{t(\cdot)\text{am}}$ and of the paradigmatic suffix, and which is lost completely in non-preterit and preterit 3, \sqrt{k} taking its place; and the instability of the syllable \sqrt{ja} in a greater number of forms. Except for 3 preterit, where to the non-preterit form in \sqrt{k} $\sqrt{p}\cdot\text{ət}$ is added, the formation of preterit from non-preterit can be described exactly as for regular stems.

$\sqrt{\text{nenatam}}$ <u>think</u> :	
?ε-nentəman	?ε-nentəmapan
?ε-nentəm(j)ən	?ε-nentəm(jə)pən
?ε-nentək	?ε-nentəkəp·ət
?ε-nentəmnət	?ε-nentəmnəp·ət
?ε-nentəm(jə)ko	?ε-nentəm(jə)kopən
?ε-nentəmak	?ε-nentəmakpən
?ε-nentəmek	?ε-nentəmekpən
?ε-nentəmwət	?ε-nentəmwəp·ət

$\sqrt{p\acute{a}s\cdot\acute{e}ton0}$ is regular in the conjunct. $\sqrt{Osam\acute{a}kwam(0)}$ has the following paradigm:

$\text{?}\acute{\epsilon}\text{-wsamkwamjan}$	$\text{?}\acute{\epsilon}\text{-wsamkwamjapan}$
or -man	
$\text{?}\acute{\epsilon}\text{-wsamkwamj\acute{e}n}$	$\text{?}\acute{\epsilon}\text{-wsamkwamj\acute{e}p\acute{e}n}$
or -m\acute{e}n	
$\text{?}\acute{\epsilon}\text{-wsamkwak}$	$\text{?}\acute{\epsilon}\text{-wsamkwamp\cdot\acute{e}t}$
or mot	
$\text{?}\acute{\epsilon}\text{-wsamkwamn\acute{e}k}$	$\text{?}\acute{\epsilon}\text{-wsamkwamn\acute{e}p\cdot\acute{e}t}$
$\text{?}\acute{\epsilon}\text{-wsamkwam(j\acute{e})ko}$	$\text{?}\acute{\epsilon}\text{-wsamkwamj\acute{e}kop\acute{e}n}$
$\text{?}\acute{\epsilon}\text{-wsamkwamak}$	$\text{?}\acute{\epsilon}\text{-wsamkwamakp\acute{e}n}$
$\text{?}\acute{\epsilon}\text{-wsamkwam\acute{e}k}$	$\text{?}\acute{\epsilon}\text{-wsamkwam\acute{e}kp\acute{e}n}$
$\text{?}\acute{\epsilon}\text{-wsamkwamwat}$	$\text{?}\acute{\epsilon}\text{-wsamkwamwap\cdot\acute{e}t}$

Thus this stem seems to follow the analogies both of the $\sqrt{t(\cdot)am}$ stems and the regular ones. The forms given are those which were produced by the informant at several different times; in more time possibly even other alternates would turn up.

$\sqrt{sak\acute{a}am}$ has the same forms as $\sqrt{Osam\acute{a}kwam(0)}$ except the following three preterit forms; 1 $\text{?}\acute{\epsilon}\text{-sak\acute{a}map\acute{e}n}$, 2 $\text{?}\acute{\epsilon}\text{-sak\acute{a}mp\acute{e}n}$, 3 $\text{?}\acute{\epsilon}\text{-sak\acute{a}kp\acute{e}n}$; preterit 3' is not known.

The participial has endings differing from the conjunct set for 3' and 35. The latter, 35, is $\sqrt{\acute{c}ak}$ except for themes in $\sqrt{t(\cdot)am}$, which become \sqrt{takak} and $\sqrt{t\cdot akak}$. **Themes** ending in a consonant with a pattern of weak vowels such that the weak vowel just preceding the final consonant will drop, and themes ending in a vowel, take $\sqrt{na\acute{c}am}$ for 3'; this includes those in $\sqrt{t(\cdot)am}$ when the \sqrt{a} in it drops. All others take $\sqrt{nana\acute{c}am}$ for 3'.

$kas\cdot k\acute{e}min\acute{c}en$ the other one who starts running(3')

$\acute{c}apt\acute{e}pn\acute{e}n\acute{c}en$ the other one who is sitting(3')(stem $\sqrt{\acute{c}ipatap}$)

√OsamOkwam(0) has the 3' participial wəsamkwamnenčən, 35
wəsamkwakək.

Stems in √j, √jə are quite regular, except that there is a rather unpredictable variation between √j and √jə. This is perhaps a matter for sub-stem analysis(see §4) rather than for consideration here. The stems with √jə are:

√jajə be here, stay here
ntəjə I am here
ʔəjəjəjan I am here

√pəməjə be around, "stick around"
pməʔik they are around here

√naməjə get a short way (on a journey, e. g.)

Those with √j are:

√kač·ij be small
nkač·ij I am small
kač·ijə he is small

√čək·osij be short

√mətakwaj have a good time(if this, indeed, does contain √j)

√šij do something in a certain way

7.5. Transitive Inanimate Suffixation. There is a twofold classification of t₃ stems:

1) Vowel stems, which include also a number which actually end in consonants:

√pjeto bring
√mjənəškəkO be sick from
√nat fetch

2) Consonant stems, including all others:

√wɛp·ot hit
 √wapət see

There is no form in the indicative for 3' subject, as there is for ai and ta stems. In certain subject-forms there is a special form for plural object (inanimate, of course), but its use is always optional; the form without special modification can be used with either 0 or O5 object.

Indicative Endings. The negative suffix is √s·i, which is added as usual in first position after the stem; the stem plus negative suffix functions as a vowel stem for further suffixation.

Suffixation is then of elements in the following order:

- 1) Consonant stems add √a, vowel stems nothing.
- 2) For first person plural subject, √mən; before √pən, √mənə.
 For non-first person plural subject, √nawa.
 For singular subject, √n; before √pən, √na.
- 3) For preterit, √pən; if anything further is added this takes the form √pənin.
- 4) For plural object, √n; but this cannot be added to forms containing √mən or √mənə. Thus O5 object can have a special form for all subjects except 12 and 15.

npjɛton I bring it
 nnatən I fetch it
 ntəmjanškakon I am sick from it
 ntəmjanškaknən I am sick from them
 wɛp·otan he hits it
 waptanawapəninən they(35) have been seeing them(O5)
 waptəs·inawapəninən they(35) have not been seeing them(O5)
 nwɛp·ots·in I don't hit it

Imperative Endings. The imperative forms do not distinguish the number of the object. The endings are; imperative 2 \sqrt{n} , 25 \sqrt{k} , prohibitive 2 $\sqrt{k}\cdot\text{en}$, 25 $\sqrt{k}\cdot\text{ek}$ -- precisely like those for intransitive animates.

pjeton go bring it!(2)
 natək go fetch it!(25)
 keko wəp·otk·en don't hit it!(2)
 keko waptək·ek don't see it!(25)

Conjunct Endings. The conjunct endings for vowel stems are precisely like those for regular animate intransitive stems, and the list need not be repeated(see §7.4). Plurality of object can only be specially noted for forms with 1, 2 and 12 subjects; endings $\sqrt{j}\text{an}\text{an}$, $\sqrt{j}\text{an}\text{an}$, and $\sqrt{j}\text{ak}\text{on}$ respectively -- the endings for the singular plus \sqrt{n} .

The conjunct endings for consonant stems are, in turn, like those given in the table in §7.4 for ai stems in $\sqrt{t}(\cdot)\text{am}$. Here again the forms for 1,2 and 12 subjects can add \sqrt{n} for OS object.

The conjunct preterits are given in the same two tables. None of these distinguish OS object.

?ε-ki-pjetojan I brought it
 ?ε-ki-mjanškakot he was sick from it
 ?ε-ki-natjak we(15) fetched it
 ?ε-ki-wəp·otək he hit it
 ?ε-ki-waptəmwat they saw it

The special participial endings, also, are entirely like those of intransitive animates:

waptəmčən the other who sees it(3'-0)
 wəp·otnənčən the other who hits it(3'-0)

7.6. Inanimate Intransitive Suffixation. The types of stems are:

1) Regular stems, ending in a vowel, including pleomorphs of the $\sqrt{a/\epsilon}$ type:

$\sqrt{waw}a\epsilon ja$ be round

2) Stems in the stem final \sqrt{n} , which fuses with the endings:

$\sqrt{wap}an$ be morning

3) Stems in the stem final \sqrt{t} , which likewise fuses:

$\sqrt{aw}anot$ be good

4) Stems in the stem final \sqrt{makat} , which also fuses:

$\sqrt{wi\check{s}ka}jamakat$ be hard

In the indicative affirmative O, O' and O5 are distinguished, in the indicative negative there is an indifferent form for O and O5 in the non-preterit, two separate forms therefor in the preterit. In the conjunct O and O5 are merged, O' being kept distinct; in conjunct preterit O and O5 have separate forms, though there is none for O'. There may also be a few other distinctions made, but other forms could not be procured by questioning and do not appear in the texts recorded.

Indicative. For regular stems the endings may be analyzed as follows:

- 1) For the negative, $\sqrt{s}\cdot anon$; before $\sqrt{p}en$, $\sqrt{s}\cdot ano$.
- 2) For O, nothing.
For O', $\sqrt{h}an$.
- 3) For preterit, $\sqrt{p}en$; if something further is added, $\sqrt{p}enin$

4) For 05, \sqrt{ton} , but after \sqrt{penin} , \sqrt{n} .

But this analysis is based on such a small number of paradigmatic forms that the endings themselves had better be listed also:

	non-preterit	preterit
affirmative;		
0	—	\sqrt{pen}
0'	$\sqrt{n\alpha n}$	$\sqrt{n\alpha n\alpha pen}$
05	\sqrt{ton}	$\sqrt{penin\alpha n}$
negative;		
0	$\sqrt{s\cdot\alpha non}$	$\sqrt{s\cdot\alpha nopen}$
05	$\sqrt{s\cdot\alpha non}$	$\sqrt{s\cdot\alpha nopenin\alpha n}$

The stem final \sqrt{n} fuses with the endings to give the following set of forms:

aff 0	\sqrt{n}	\sqrt{nopen}
0'	$\sqrt{n\alpha n}$	$\sqrt{n\alpha nipen}$
05	\sqrt{non}	$\sqrt{nopenin\alpha n}$
neg 0	$\sqrt{s\cdot\alpha non}$	$\sqrt{s\cdot\alpha nopen}$
05	$\sqrt{s\cdot\alpha non}$	$\sqrt{s\cdot\alpha nopenin\alpha n}$

\sqrt{t} fuses as follows:

aff 0	\sqrt{t}	\sqrt{topen}
0'	$\sqrt{t\alpha n(\alpha n)}$	$\sqrt{t\alpha n\alpha nipen}$
05	\sqrt{ton}	$\sqrt{topenin\alpha n}$
neg 0	$\sqrt{s\cdot\alpha non}$	$\sqrt{s\cdot\alpha nopen}$
05	$\sqrt{s\cdot\alpha non}$	$\sqrt{s\cdot\alpha nopenin\alpha n}$

And \sqrt{makat} gives:

aff 0	\sqrt{makat}	$\sqrt{makatopen}$
0'	$\sqrt{makatan}$	$\sqrt{makatan\alpha nipen}$
05	$\sqrt{makaton}$	$\sqrt{makatopenin\alpha n}$
neg 0	$\sqrt{makas\cdot\alpha non}$	$\sqrt{makas\cdot\alpha nopen}$
05	$\sqrt{makas\cdot\alpha non}$	$\sqrt{makas\cdot\alpha nopenin\alpha n}$

The irregularities are only slight, and leave a great deal of resemblance in the various comparable forms, but they are quite confusing and the table is clearer than any analytical statement could be.

Intransitive inanimate verbs of course have no imperative forms; the latter must have a second person subject and there are no second person forms for ii verbs.

Conjunct.

	non-preterit	preterit	participial
regular stems			
0	√k	√kapən	
05	√k	√kapəninan	√kak
0'	√nanak		
fused with √n			
0	√k	√kapən	
05	√k	√kapəninan	√kak
0'	√nanak		
fused with √t			
0	√k	√kapən	
05	√k	√kapəninan	√kak
0'	√tananak		
fused with √makat			
0	√makak	√makakap·ət	
05	√makak	?	√makakak
0'	√makananak		

The following analytical comments may be offered: the stem final √n fuses by disappearing, giving the same ending as for vowel stems; the final √t of √makat acts like √t, which acts like √n; except that √t remains in non-preterit 0' √tananak; and that the final √t of √makat drops in non-preterit 0' √makananak and in preterit 0' √makakap·ət.

Examples:

wawjɛja it is round
wawjɛjanən the other is round
wapnəpən it has been morning
wəntən they are good
wiškjamkəs·nəpəninan they haven't been hard
ʔɛ-wawjɛjak it(or they) are round
ʔɛ-ki-wapkepən it had been morning
wənkek the good ones
ʔɛ-ki-wiškjamkək·ət it has been hard

8. NUMERALS

The basic stems for numerals, from which all their forms can be derived, are

- 1 √nakOt
- 2 √niš
- 3 √nAs·
- 4 √njew
- 5 √njanan
- 6 √nakOtwatAs·
- 7 √noʔak
- 8 √šwatAs·
- 9 √šak
- 10 √mAtatAs·

The cardinal numerals from one to ten are these. 3 is irregularly ns·wε; in all other forms the stem √nAs· is unmodified. 6, 8 and 10 affix final √o -- nkotwats·o, šwats·o, mtats·o; elsewhere this is omitted. When further elements are added to 7 and 9, these suffix √tas· by external sandhi; the same element is used for cardinals higher than ten (multiples, that is; not 17, 26, 125 etc) when another suffix is being superadded. Before suffixes beginning with a √w, √njew drops its final √w.

Cardinal 20, 30 and 40 are formed with √wapat·ak -- nišwapt·ek, ns·wapt·ek, njšwapt·ek. 50 to 90 use √omatana# -- njannomtenne, nkotwats·omtenne, noʔek-ts·omtenne, šwats·omtenne, šak-ts·omtenne.

Cardinal hundreds suffix √wak; nkotwak, nišwak, ns·wak (connective √a being omitted), njšwak, njannwak (again omitting connective √a), nkotwats·wak (again), noʔek-ts·wak (again), šwats·wak (again), šak-ts·wak (again).

Cardinal thousands use $\sqrt{\text{os}}\cdot\text{ak}$; $\text{nkotos}\cdot\text{ek}$, $\text{nišos}\cdot\text{ek}$, $\text{ns}\cdot\text{os}\cdot\text{ek}$
 $\text{nje}'\text{os}\cdot\text{ek}$, $\text{njannos}\cdot\text{ek}$, $\text{nkotwats}\cdot\text{os}\cdot\text{ek}$, $\text{no}'\text{ek}\text{-ts}\cdot\text{os}\cdot\text{ek}$, $\text{šwats}\cdot\text{os}\cdot\text{ek}$,
 $\text{šak}\text{-ts}\cdot\text{os}\cdot\text{ek}$.

Compound cardinal numerals place the highest decimal first, and prefix to each but the first an element $\sqrt{\text{šat}}$, $\sqrt{\text{šuč}}$, $\sqrt{\text{šaš}}$, by external sandhi. One and seven, and their multiples by ten, take the form $\sqrt{\text{šuč}}$; eight and nine, and their decimal multiples, take $\sqrt{\text{šaš}}$; the rest take $\sqrt{\text{šat}}$. So, with the simple numerals from one to ten, $\text{šoč}\text{-nkot}$, $\text{šet}\text{-niš}$, $\text{šet}\text{-ns}\cdot\text{wə}$, $\text{šet}\text{-njew}$, $\text{šet}\text{-njanən}$, $\text{šet}\text{-nkotwats}\cdot\text{o}$, $\text{šoč}\text{-no}'\text{ek}$, $\text{šəš}\cdot\text{wats}\cdot\text{o}$, $\text{šəš}\cdot\text{ak}$, $\text{šet}\text{-mtats}\cdot\text{o}$. Notice that in the forms with eight and nine the final $\sqrt{\text{š}}$ of the prefix joins with the initial $\sqrt{\text{š}}$ of the stem into a single long š ; the forms might be written etymologically as $\text{šəš}\text{-šwats}\cdot\text{o}$, and $\text{šəš}\text{-šak}$, but the phonetics are as indicated in the former transcription. 7321 is $\text{no}'\text{ek}\text{-ts}\cdot\text{os}\cdot\text{ek}$ $\text{šet}\text{-ns}\cdot\text{wak}$ $\text{šet}\text{-nišwapt}\cdot\text{ek}$ $\text{šoč}\text{-nkot}$.

Adverbial numerals, meaning "so many times," are formed with $\sqrt{\text{k}}$; nkotek once, nišek , $\text{ns}\cdot\text{ek}$; $\text{šak}\text{-ts}\cdot\text{ek}$, nine times, $\text{šwats}\cdot\text{wak}\text{-ts}\cdot\text{ek}$ eight hundred times. For the $\sqrt{\text{tas}}$ in this last example, see the second paragraph of the present section. $\sqrt{\text{k}}$ is added to the last member only of a compound number.

Forms meaning so many bagsful are formed with $\sqrt{\text{ošken}}$. $\text{ns}\cdot\text{ošken}$ three bagsful, $\text{mtats}\cdot\text{o}$ $\text{šet}\text{-nišošken}$ twelve bagsful.

Forms meaning so many pieces are formed with $\sqrt{\text{wapjek}}$. $\text{ns}\cdot\text{wapjek}$ three pieces.

Forms meaning so many miles or so many yards, depending on context,

are made with $\sqrt{t}ap\alpha^{\circ}ak\alpha n$, $\sqrt{ot}ap\alpha^{\circ}ak\alpha n$. The latter is used with numerals from five on up; $njannotp\epsilon^{\circ}k\epsilon n$ five miles. The final \sqrt{t} of $\sqrt{nak}Ot$ irregularly drops; $nkotp\epsilon^{\circ}k\epsilon n$ one mile. It is apparently added with external sandhi; two miles is $ni\check{s}-tp\epsilon^{\circ}k\epsilon n$, and four miles, with an anomalous cluster found nowhere else in the language, $nj\epsilon w^{\circ}-tp\epsilon^{\circ}k\epsilon n$.

The suffix $\sqrt{t}ap\alpha^{\circ}ak\alpha s^{\circ}$, $\sqrt{ot}ap\alpha^{\circ}ak\alpha s^{\circ}$, which looks like a diminutive formation from the last, means so much o'clock. The irregularities of juncture are as with $\sqrt{t}ap\alpha^{\circ}ak\alpha n$. $mtats^{\circ}o$ $\check{s}\epsilon\check{c}-nkotp\epsilon^{\circ}k\alpha s^{\circ}$ eleven o'clock.

Ordinals may be formed with the prefix $\sqrt{?}\epsilon k^{\circ}o$; $^{\circ}\epsilon k^{\circ}oni\check{s}$ the second. But for the first $w\check{s}k\epsilon\check{c}\alpha$ and $n\epsilon t^{\circ}\epsilon m$ are used. The so-called cardinals have either cardinal or ordinal meaning.

A particle meaning so-many years is formed by adding $\sqrt{k}on$ or $\sqrt{k}ow\alpha n$; the latter is used if the pattern of weak vowels is such that the first \sqrt{a} will drop, otherwise $\sqrt{k}on$. $nkotwats^{\circ}okw\epsilon n$ for six years (duration). A verb, ii , used usually in the conjunct, is formed by adding $\sqrt{k}on\alpha kat$ or $\sqrt{k}aw\alpha n\alpha kat$, the selection being on the same basis. Thus $nktwats^{\circ}okw\epsilon n\check{h}\epsilon k$ it being six years (ago)(participial).

9. SUBSTITUTIONS

Some substitutions are in syntactical function nominal, others are particular. It is convenient, to deal with them together. Either the formation of a set of ~~substitutions~~ is so transparent as to need no

special mention, or the number in the set is so few as to make analysis inefficient; therefore for the most part they are presented as words, not formulae.

Personal Pronouns. The class meaning of this set of substitutions is emphasis of person and number category of an animate entity.

1 nin	15 ninan
	25 kinan
2 kin	25 kinwa
3 win	35 winwa

In these, the initial elements /n, /k, and /w are recognizable as either being the personal prefixes or related to them, the final elements /nan and /wa as personal suffixes (similar forms also occurring in verbal paradigmatic suffixes); but the stem element, /in or /i, does not reappear elsewhere.

Demonstratives. There are two sets of demonstratives. The first has as its class meaning slight emphasis, or identification, of person, number, and gender in the third person. The other set has the class meaning "that specific thing over there in sight" -- though not, however, specifically proximal or distal.

3	ʔc	ʔote
3'	ni(w)	note
35	ki(w)	kote
0	ʔi(w)	ʔote or ʔote, depending on context
05	ni(w)	note
locative	ši(w)	šote

The parenthesized w's remain or drop freely. There is a third demonstrative, ʔako, distal-visible, uninflected for person, number, and gender.

The above demonstratives, plus the second-position particle tšə, and the following list of interrogative substitutes, are used as the first term in equational predications (§11.9):

tənitšə what? who?
 wəknišə what?
 nitšəwi why?
 wəkni what? for what reason?
 nimətšə what? why?
 (tə)nip·itšə what?
 tənip·i when?
 nitšəši how? in what way?
 weni(tšə) who?

All these, also, are seen to involve the element tšə. The element te of ʔote etc recurs in a number of these forms. All contain ni, which may be the interrogative element. On the formation of these words see the end of §10.

Indefinites; wəjə someone (sometimes ʒ' wəjəjən, ʒʂ wəjəjək).
 wəkwentək somebody or something. kəkko something. wik·a sometime(?)
 nkoči somewhere.

All-Inclusives; čajək everything, all (inanimate). čak wəjə everybody. čak kəkko everything. pənə always.

Nul-Inclusives; čowəjə nobody. čokəkko nothing. čonkotəʔne neither one (gender indifferent). čowik·a never. čonkoči nowhere.

Also may be mentioned the following three, which seem to fall into none of the above categories: mčəš a great many. nčʔiš both.
 ʔanət some, a few.

10. PARTICLES

Particles with locative meaning are dealt with in §6.8.

Temporal particles include, besides those given as substitutions in §9, a number such as

p·i now
 wik·ap·i finally, at length
 wik·a sometime(?) late(?)
 čowik·a never
 wawik·a now and then
 wtop·i right now
 pəp·ič· once in a while
 ?imes·ə "once upon a time"
 nakač soon
 nkom today
 wnako yesterday

In contrast to the last two words, the form for tomorrow is not a particle but an ii verb, √wapən.

Certain particles are used always, or usually, with certain verb forms. Thus:

ne interrogative; placed immediately after indicative verbs when no interrogative substitute is used.

čo not; alone; or with negative status of indicative; or with particles used with other modes.

kəko don't!; alone; or with prohibitive mode verb.

močma please!; alone, or, usually, with imperative verb.

kiš·pən if; with dependent mode only.

nakēna or kēna would that . . .; with dependent mode.

jətək "it is doubtful that . . ." with dependent.

p·ič· when with narrative.

There are three particles which serve as conjunctions; ?i(w)tšə and so, and, then, next -- a Biblical "and"; tšə, mild disjunctive; and mine and, with. The first of these must be kept distinct from the group of two words ?i(w) tšə the one(O) that . . ., in equational predications.

There are two particles, perhaps three, that function as predicators in equational predications (see §11.9); *je*, *s'əwi*, perhaps *s'ə*. There may be others also.

Finally, the vast majority of particles function as adverbs of manner, in the broadest sense; *'iws'ə* completely, *wənats'ək* several times (cf numeral adverbs, §8), *nəš'* very, much, *mamwəč* must, *knəpəč* maybe, *mamta* can't, *'ajač* more and more, *wk'əw* easily, *kət'ə(n)* sure enough (when a prediction is verified), *pk'an* differently; and so on.

The technique of particle formation, apart from the formation of locatives from noun stems, and of adverbial numerals from numeral stems, is the stringing together of shorter particles by external sandhi. Since each of the shorter elements can usually appear in other contexts, or, sometimes, alone, each gives the impression of being a free form; at the same time the modification of meaning involved is sometimes so great that the new formation seems like a single unit, a unitary word. It is therefore hard to decide whether to write some of them as single words or as groups of words. Thus, for example, *šə* means how, so, thus; *'i šə na* means so, thus, *nəš'* *šə na* for no particular reason, *šə nəš' p'i* in precisely this manner, *šə nə s'ə šə* more or less; *šə na* is frequently placed after other elements apparently simply for emphasis -- *nkotək šə na* so once . . . ; *kət'ən šə na* . . . sure enough "nəš'", appearing above in some of the *šə* forms, recurs in *nəš' nə kə* for a reason. *p'i* recurs in

many words of temporal significance, and in the preverb $\not{p}\cdot iT$. (§7.1) while, during, inasmuch as. With the data at present available it is not possible to untangle all these particles and particle complexes in such a way as to reveal the precise meaning of each unit and the ways in which those meanings are modified in the complexes.

11. SYNTAX

11.1. Introduction; Style. Morphology dealt with the formation of bound forms from bound forms, and of free forms from bound forms. In the present section the formation of free forms from free forms will be treated. But some marginal cases must be included here. Inserted forms in conjunct verb complexes bear a purely syntactical relation to the other elements in the sentence, and their location in the middle of a complex which is otherwise composed of bound forms seems to be rather a matter of word order than of actual difference in word formation. But beyond this: some purely morphologically constructed relations are so precisely analogous to syntactic forms that they must be dealt with in the present section in connection therewith, though formally treated in the foregoing sections.

Before proceeding to syntax proper it is necessary to deal with a number of matters of style.

The first of these is tempo variation. The normal rate of speech

is rather deliberate. To a naive listener with an English-speaking background the tempo of such normal speech would seem quite usual. Under conditions of emotional strain the speed may increase; conversely, under some abnormal conditions, particularly those involved in dictating to a linguist, it markedly decreases. However, these differences in tempo do not particularly influence the duration of syllables and words; rather they cut down on, or increase, the number of comma intonations, and the length of the pauses at those points. This has been mentioned before; see §2.1.

The second is the distorted form which words assume when being sung. Very little data is at hand on this, but the abnormality seems to be a morphophonemic one; weak vowels in the formulae which are normally not actualized are present in the sung form of the words. Thus, to give the safest example, the word ʔes·pən raccoon, formula $\sqrt{ʔes·pən}$, is sung ʔes·əpənə. This suggests that a greater knowledge of the singing technique might shed light on the precise psychological status of the morphophonemic formulations for which, at present, only the claim of descriptive simplicity is made.

The most important fact of style, however, is the contrast between conversation and narration. Ordinary conversation is the give and take of words which accompanies, rather than replaces, everyday activity. Narration is the monologue style of an individual telling a story, be it about himself or about a mythical hero, the only requirement being that the stream of speech coming from that individual is the thing of

central importance at the moment, rather than an accompaniment for something else. Conversational style is marked by the predominance of the indicative and the imperative modes, and by a partial or complete disappearance of the distinction between comma and period intonations. Narrative style, on the other hand, has the narrative as its principal mode of predication, and commas and periods are clearly distinguished. Where indicative and imperative forms appear in narration they are in quotations or parenthetical comments.

This last stylistic contrast is obviously of considerable importance syntactically. Most of the texts upon the analysis of which the present section on syntax is based are stories in narrative style. Many important details of conversational style are not known at all. Therefore what follows applies primarily to syntax in narrative style.

11.2. Types of Clauses. The unit of predication is not the sentence but the clause; a sentence consists of at least one clause, but frequently more than one. A clause is either minimal or full. A minimal clause consists of a single word; a vocative noun, a particle, or an interjection. A full clause is equational or regular. Either of these may be complete or elliptical, except that an imperative clause, which is a subtype of regular clause, is always complete. A full clause is the same thing as a predication, which is the same

thing as an independent nexus; but there are clauses which are not predications, and nexuses which are not independent and therefore likewise not predications.

As examples of minimal clauses may be given the following:

nməš·o Grandfather! (calling)

čo ntəkk·entas·in, nməš·o. I don't know, grandfather
kəko. Don't!

kəko, kin kke·ns·əčkas. Don't, you'll be killed!

ʔahaw. Well well!

ʔiwtšə nkotək ʔəs·pən ʔε·ki·mk·əwat ns·wε ʔəs·penən,
nkot ʔε·ki·nis·wəpnat, minə nkot, ʔahaw tšə ni
ns·wε ʔε·ki·kč·ə·mikatwat. One time the coon
found three coons, he threw down the first one,
and another, by golly! with the third one he
fought hard.

Thus it is seen that a minimal clause may function as an entire sentence or as a clause within a larger sentence. All the examples but the last are from conversational style; in narrative style a minimal clause suggests parenthetical comment by the narrator. In the last example ʔahaw functions as a clause, yet it also in a sense serves as an opener for the full clause which follows it, since tšə but, which cannot appear in first position in the clause, is hung onto it.

Since minimal clauses consist only of a single word their analysis is complete when the types of words which can constitute them are mentioned. On the other hand, full clauses consist of one or more words and involve various syntactical relations which must be dealt with

one at a time. The following two clauses are respectively equational and regular:

ʔiw tšə jə ʔi wəč-mpot. That is why he is dying.

ʔə-ki-nišok·məwat ʔos·ən. He helped his father.

Full clauses may be made into interrogatives. Interrogative clauses occur only in conversational style; therefore interrogative regular clauses have the verb in the indicative. The interrogative is formed in regular clauses by placing the particle nə after the verb:

wki-nišok·məwa nə ʔos·ən. Did he help his father?

Equational predications are interrogative when the first term of the equation is an interrogative substitution:

nitšəwi jə ʔi wəč-mpot. Why is it that he is dying?

But an interrogative substitution may stand as a complete clause and sentence:

nitšəwi. Why?

11.3. Subject, Object, Predicator. A syntactical construction involving a verb in finite or participial mode is a nexus, as is one involving a predicative particle. A syntactical construction not involving a predicator or a participial is junction. In the present section are dealt with the principal types of nexus in regular clauses; subject-verb and object-verb. Subject and object may be referred to together by the indifferent term reference.

When a reference made by the morphological elements within a verb is third person or obviative, the area defined by the gender and person and number categories is still wide. Thus the form wapman, standing alone as a clause, says that he (an animate third person) sees him (a second animate third person), but not whether the he and the him are people or kettles or trees. Therefore such an internal reference may be termed implicit. The reference is made explicit if a nominal form in the right gender and person and number categories is added. Such a nominal form may be a noun in a flexion (not locative or vocative), a nominal substitution, a participial, a numeral, or a junction of the types dealt with below (§§11.5-11.7).

The situation is otherwise if the reference within the verb is to first or second person. In this case the animate gender and the person and number delimitation suffice to make completely precise the entity to which reference is made; it is the speaker, or the person spoken to, or both. Therefore a first or second person reference within a verb is explicit. An added substitute (personal pronoun) can only emphasize the reference, and may be said to stand in extraposition with that explicit internal reference.

kiš'pən pwa-ne·at niw p·əšk-m'wε, kin kwi-nε·əko.
If you do not kill the lion, you yourself will be killed.

An imperative predication has a verb in the imperative or prohibitive

mode. In both of these modes only second person subject forms exist; therefore the subject of such a predication is always explicit; an added word emphasizing the subject always is in extraposition with the internal subject.

The impersonal *ii* verbs take no added word as a subject reference. Since formally they are like other *ii* verbs it is probably best to analyze them as containing an internal subject, rather than as constituting subjectless predications; but the implicit-explicit contrast obviously has no meaning.

11.4. Participials. The internal organization of a participial construction is precisely like that of a regular clause -- it has references, **implicit or explicit**, and is subject to particle modification. But it is not a clause, not an independent nexus; it is a nominal form. By changing the verb in a regular clause into the participial mode the entire clause is nominalized and performs in its larger context the same roles that any other nominal form can play. The nominalization may be primarily of subject or of object, or, in the case of equational predications, of a preverbal idea. Thus *mačjan I, eating*, or what I eat; *wěč-mpot why he dies*.

Some participials, however, have come to have fixed meanings, take no added reference words, and function syntactically precisely as nouns, though their morphology remains verbal. Thus *pas•kek* is the only word for clothing; *ʔetat his house* -- "where he lives."

Participials are particularly important in equational predications; see §11.9.

11.5. Junction; Possession. Possession is pure junction which nevertheless resembles nexus very much. A possessed noun, thus, shows within itself the category of possessor, and the latter is explicit if first or second person, implicit if third; an added word in the first case is in extraposition, in the second constitutes the explicit possessor.

The possessor of a possessed noun may itself be a possessed noun, so that forms like the following are quite possible:

nos. 'ok.məs.ən tənɲimɲən my father's grandmother's husband; i. e., my(1) father(3), his(3) grandmother(3'), her(3) husband(3").

The possessor of husband is 3 instead of 3' because there is no distinct form for 3' possessor; but the possessive relations are quite clear, since husband is 3".

11.6. Other Junctions. There are four other types of junctions; those involving quantifiers are left for the next section.

The first is an attribute-head group in which the head is noun, or participial, the attribute a demonstrative substitution: 'otə nənə that man over there. In this type of junction demonstratives of the first type presented in §9 serve almost as articles, with a meaning that ranges from full demonstrative force down to practically zero: 'o nənə the man.

The second is an attribute-head group in which both parts are nouns.

This is not common, appearing mainly in story-titles or names of story characters. Thus *mt·ək nənə Log-Man*; *wapkən pwakən Clay-Pipe*; *wapkən pwakən jats·ok·an story of Clay-Pipe*. The last example contains two such junctions, the third word being head for the first two as attribute, and the second being head for the first as attribute.

The third is a similar construction with the attribute placed second and joined with the particle *minə and, with*. *ʔo nənə minə wtək·wəjomən ʔe-ki-pjat*. The man with his wife he came. The ungrammatical translation brings out the fact that this construction is a matter of attribution rather than of conjunction; the added noun *wtək·wəjomən* does not alter the person and number category of *nənə*, the verb being in third person singular form.

Lastly there is a junction in which a noun stands in extraposition with another nominal form; again an ungrammatical English rendering brings out the effect:

ʔiwtšə ʔo nəš·napə ʔe-ki-pwa-kk·eremat niw təʔes·pənəmən, mə·kwəkəs· ʔiw ʔe-ki-pk·əškannək. So the man could not pick out his own coon; the red rag it had fallen off.

11.7. Junctions Involving Quantifiers. The cardinal numerals *nkot, niš, ns·wə*, etc, have cardinal or ordinal meaning depending on context. They are nominal forms. When one of these functions as the head in an attribute-head relation of the first type described in §11.6, the demonstrative substitution serves to delimit person, number, and gender, the numeral being incapable of varying to specify

those categories. Thus ?o ns·wε the third(3), niw ns·wε the third or the three(3'), kiw ns·wε the third ones or the three(35), ?iw ns·wε the third(0), niw ns·wε the three or the third ones(05).

The same numeral forms may function as attributes, the head being a noun; ns·wε ?εs·pənən three coons(3') or the third coon(3').

The numeral forms meaning "so many sacksful," and "so many pieces," may be used alone, the substance being understood, or with an attributive noun usually placed after the quantifier. Gender is determined by the attribute, present or understood. "One sackful" is plural, syntactically, if it contains something which is in pieces and there is more than one such piece -- berries, ants, etc. Thus nkotošken one sackful of berries.

The syntactical function of the numeral forms for "mile" and "o'clock" are not known.

11.8. Particle Modification. Except for those that function as connectives and predicators, particles are adverbs, of time, place, or manner. Thus ket·ə šə na mpowak sure enough he's dead, in which the form ket·ə šə na is a particle group with the unitary meaning "sure enough," verifying predictions

Locative derivatives from nouns have the same syntactic function; ?ipe čik-pjek ?ε-ki-šjat he went over there on the shore, ?ipe čik-top·wənek ?ε-ki-šjat he went over there by the table; ?ipe is "over there," čik-pjek "on the shore," čik-top·wənek "by the table." But

when two locatives are used together, the second may simply be a noun in singular flexion; *ntəšja nam-jəkwan top·wən* I go underneath the table is as acceptable as *ntəšja nam-jəkwan top·wənək*. In cases like the former the locative particle seems like a preposition.

Nouns in a non-locative flexion may also function as adverbs with a non-locative meaning:

ms·kwėkas· ʔε-ki-napk·otnat. He tied a red rag around the other's neck.

mk·əsən ʔε-ki-nis·wəpnəwat. He threw the shoe down to the other.

In the first example the verb is a *ta* verb meaning to tie something around the neck of; the object is implicit; *ms·kwėkas·* red rag, inanimate, though in the English translation it sounds like an object, is simply a noun functioning as an adverb of means, specifying what it is with which the neck is tied. In the second example the verb is a *ta* **double object** verb, the morphologically marked object being again implicit; *mk·əsən*, shoe, inanimate, is semantically the direct object, syntactically simply a particle of manner or instrument. In cases such as these the adverb might be termed a pseudo-object.

Adverbial numerals are adverbs; *nkotək* means once in either of the English senses, either not twice or the vague at one time.

Finally, subordinate clauses with verb in dependent mode are adverbs within the clause to which they are subordinated; see §11.17.

11.9. Equational Predications. The pattern for equational predications

is first term, predicator, second term. The first term may be any nominal form other than a participial, or possibly even a participial. The predicator is a particle, which may be omitted; if omitted the clause is elliptical; The second term is invariably a participial construction:

ʔiw tšə jɛ ʔi wɛč-k·ɛw-piktəpčš·ək pwakən nkom top·i.
That is the reason why a pipe breaks so easily up to this day.

ʔiw s·ə nkom nišək ʔɛtnəsjan ʔɛ-mpojək. This today is the second time I have been around for the death of one of you.

waposo s·əwi ʔo ʔɛščeket. Rabbit is the one who is doing it.

The predicators are respectively jɛ, s·ə, and s·əwi. The first term in the first two is ʔiw, O demonstrative substitute, in the last waposo Rabbit. The second term in the first example is all that comes after jɛ; ʔi modifies the entire participial construction which follows it; pwakən pipe is subject of the participial, nkom top·i up to this day is a particle group, and wɛč·ɛw easily, a particle, is inserted in the participial itself. The syntax of the second term of the second example is not entirely clear; it is from conversational style (quotation in a story). ʔɛtnəsjan is I being here; nkom today and nišək second time are particle modifiers; ʔɛ-mpojək is narrative mode, which seems to play a subordinated role in clauses in conversational style, though the precise relation is not clear. The second term in the third example is ʔo ʔɛščeket the one-who-is-doing-it-thus.

11.10. Grouping of Clauses. All the ways in which words are put together to form clauses have now been discussed. Next it is necessary to treat the linking of clauses.

The most obvious way to link clauses is to include them in a single sentence; clauses within a single sentence are more closely connected than those divided by period intonations. It is hardly necessary to give examples of this.

11.11. Elliptical Clauses, Minimal Clauses, and Extraposition.

A minimal clause included within a sentence has a close connection with one of the adjacent clauses, either that before it or that after it. A good case is the word 'ahaw in the example analyzed in §11.2. The same comment applies for elliptical clauses, and mine nkot in the same example is a case. mine is a connective, nkot is explicit object of a verb which is not given in this clause, but which can only be the same as the verb in the clause before this one, 'e-ki-nis-wəpnat.

An element in extraposition may constitute a clause, closely linked to that containing the element with which it is in extraposition. This is true in the case of vocatives in extraposition with imperatives or other finite forms; otherwise there is no distinction between extrapositions that constitute clauses and those that do not:

pjan, mneš'o. Come here, Grandfather!

11.12. Pivoting. An interesting type of linking is found in

sentences like the following:

ʔiwʔšə ʔε-nə-mkəknot ʔo ʔεs·pən ʔε-ki-nišok·məwat
 ʔε-kiws·ənət. So when-he-grew-up the coon
he helped him hunt.

The three clauses are coordinate. In rapid speech (as indicated by the transcription given here) the three are uttered as a single phrase. The form ʔo ʔεs·pən is in the proper flexion to function as subject both of the verb preceding it and the verb following it, and lacking a comma pause before it or after it there is no way whatsoever to tell that it goes with one clause or with the other. In the mind of the speaker it may actually be assigned to one or the other, but it may possibly be structured in his mind as the analyst, having no objective clue, must interpret it; namely, as going with both. Such an element, standing between two predicators, having a syntactical relation to each, and not being marked off from either by a comma, may be termed a pivot. A pivot binds the two clauses between which it stands more closely than they would be bound without the pivoting. The pivot need not, as it does in the above example, perform the same function in both clauses; witness:

ʔε-ki-nišok·məwat ʔos·ən ʔε-kiws·ənət. He helped
his father hunt.

Here the pivot is object of the first verb, subject of the second.

ʔε-jε-pməpt·ot ʔo ʔεs·pən ʔε-ki-wapmat ʔamon ʔε-kočnənət.
As he ran along, Coon, he saw a beehive hanging down.

ʔo ʔεs·pən is subject of the first and second clauses; ʔamon is object of the second, subject of the third.

11.13. Sequence of Person. Both within the clause and between clauses different entities are kept distinct by referring to them with forms for different personal categories. In the expression nos· ʔok·məs·ən tənnimnən my father's grandmother's husband, "my" is 1, "father" 3, "grandmother" 3', and "husband" 3". One cannot quite make the generalization that in a group of connected clauses no two distinct entities can be in the same person; this is the tendency, but the available morphological forms do not permit it to work out completely; nor is it necessary for clarity. Thus observe:

ʔiwtšə ʔo ʔes·pən ʔe-ktəkosit nək·o mt·əkwen,
 wičʔes·pənən ʔe-mk·əwat, ʔe-nis·wəpnənwat
 niw nəš·napən, nək·o ʔe-nə·at ʔo nəš·napə.
So the coon would climb a tree, find his
fellow coons, would throw them down to the
man, customarily the man would kill them.

The subject of the first three verbs is the same 3 entity, raccoon. The object of each of the three verbs is in the obviative, although they refer to different entities; but in each case the object is made explicit with a nominal form that is not a substitution but means itself, so that there is no danger of confusion. The last verb has a new third person subject, which is made explicit and so cannot be confused with the third person subject of the previous verbs. The only possible danger of confusion is in the identity of the implicit obviative object of the last verb; it could conceivably be either "tree" or "fellow coon," but obviously in the semantic
 real
 circumstances there is no danger of misinterpretation.

In a form like $\text{'}\epsilon\text{-ki-ni}\check{\text{s}}\text{ok}\cdot\text{m}\epsilon\text{wat } \text{'}\text{os}\cdot\text{en } \text{'}\epsilon\text{-kiws}\cdot\text{en}\epsilon\text{t}$ he helped his father hunt, or, without the $\text{'}\text{os}\cdot\text{en}$, "he-helped-the-other, the-other-hunted," the change of person gives the effect of subordinating one clause to the other, at least in the English translation. But in the Potawatomi form the two are coordinate; this close linking of idea is the type of thing produced with the mechanism of person sequence.

Inanimate nominal forms have no obviative forms, but ii verbs do, and when an ii verb occurs in obviative form the secondary nature of the idea it expresses is emphasized:

$\check{\text{c}}\text{owik}\cdot\text{a sak}\epsilon\check{\text{c}} \text{'}\epsilon\text{-wi-}\check{\text{s}}\text{jat } \text{'}\epsilon\text{-kmejann}\epsilon\text{k}$. He would never go outside when it was raining.

$\text{'}\epsilon\text{-kmejann}\epsilon\text{k}$ means it(O') was raining; the obviative form gives the idea of subordination.

11.14. Sequence of Tense. All narrative mode forms refer to past time. The form with no tense preverb and that with the preverb $\sqrt{\text{ki}}$ are approximately the same in meaning except when used together; that with $\sqrt{\text{wi}}$ implies intention, frequently intention not carried out. But when used in adjacent clauses, there is a sort of linking of meaning of these three "tenses," so that the past followed by the present will imply that the first even not only preceded the second in time, but that it was possibly responsible for the occurrence of the second; while the future, following past or present, will have the intentional meaning emphasized:

ʔiwtšə škəč nɛʔiš ʔɛ-ki-nis·awat, ʔɛ-kč·ə-mikatwat.
So after while both fell to the ground, then
fought together strenuously. (past, present)

mt·ək ʔɛ-kkəkəpwat, čo tšə mamta ʔɛ-wi-wəp·otwat,
 ʔɛ-pwa-kk·ɛnmat niw tɛʔɛs·pənən. He had a stick,
but couldn't use it, since he couldn't recognize
his own coon. (present, future, present)

In this last example the sequence of tenses is such that the first clause gives the circumstances, the second the unfulfilled desire, the third the reason for frustration.

11.15. Pseudo-Subordination. Certain particles and preverbs have meanings which semantically subordinate the clauses in which they appear. The subordination is real in the sense that clauses with these elements would not constitute complete utterances, but must have another clause to hang onto; but it is not comparable to that for which the term subordination is reserved, since there a distinct mode is used, while here so far as the verbal complex itself is concerned the verb of the apparently subordinated clause is entirely comparable to that of the apparently major clause.

ʔitšə ʔɛ-pjat ʔipə ʔankonojən ʔɛ-tšəwtankwənət. So
he went there where the ants had their village.

ʔɛ-jɛ-pməpt·ot ʔo ʔɛs·pən ʔɛ-ki-wapmat ʔamon ʔɛ-kočnənət.
As he ran along, Coon, he saw a beehive hanging down.

In the first example the second clause contains ʔipə there and the preverb ʔtošə there, where; the latter gives it the subordinate idea. In the second example ʔjɛ in the first verb means as, while.

11.16. Quotation and Parenthesis. In narrative style, indicative

or imperative verb forms mark a quotation or a parenthetical comment of the narrator. A quotation which does not contain a verb, of course, may not be recognized as such except by the semantics.

ʔitšə ʔɛ-p·ič-tpəwəwat ʔišə nkoʔ ʔɛ-k·ətot "nke~~k~~entan
knəpəč wa-napnəko," ʔɛ-nat. So as they held
council one spoke thusly; "I know, perhaps,
what we should do," he said.

In this case and in many others the beginning and end of the quotation are carefully marked by placing a narrative mode form of a verb meaning to say immediately before and after the quotation, almost like spoken quotation marks; in this case, ʔɛ-k·ətot he said before, ʔɛ-nat he said to them after.

The following is an example of a parenthetical comment inserted in a story; after making this aside the narrator continued by repeating the same thing in narrative mode, as a part of the story proper:

ki tšə ʔjajkenwik tšə kiw, čo ki-k·ənmas·in niw təʔes·pənən.
They were just the same size, those ones, you see;
he couldn't recognize (which one was) his own coon.

The added "you see" brings out the tone of the parenthesis.

11.17. Subordination. Only one construction can be termed subordination in the true sense; a ~~dependent~~ mode construction, with or without the introductory particle kiš·pən, in either case meaning if . . . Such a construction is an adverb within the clause to which it is subordinated:

(kiš·pən) pwa-pjətojen, kwi-nə·əko. If you don't bring
them, you will be killed.

11.18. Word Order. A survey of the examples which have been given in the grammar up to the present point will give a fairly good idea of typical word order. Certain general principles can be adduced:

1) There are certain elements which have a relatively fixed position. They need not all be enumerated here, since whenever an element with this characteristic has been given the facts of its position have been given too. But, for example; the interrogative particle *ne* always follows a verb immediately; *kəko dcn't*, when not used alone, immediately precedes a prohibitive verb form; *tšə*, mild disjunctive, stands second in the clause, never first. The elements in most junctions have a fixed order; *?o nəš·napé* and *nəš·napé ?o* mean two different things, the Indian, and an Indian, he . . . The elements in equational predications do not vary from the order first term - predicator - second term.

2) Elements the syntactical connections of which are morphologically marked vary most in position; subject, verb, and object (not pseudo-object) can occur in almost any order relative to each other, or with particles and words in other relations to them separating them.

3) There is a principle of emphasis. So far as other rules will permit, elements to be emphasized are placed first. For example, the extraposed *ms·kwékas·* in *ms·kwékas· ?iw ?é-ki-pk·əškannək* the red rag it had fallen off is emphasized by its position.

4) Finally, there is a principle of adjacence. Except for forms controlled by other rules, two elements which go together are put next to each other, though this principle does not in itself determine which shall fall first, and, if no other principle does, there will be variation.

12. TEXT

In the following text each word is numbered on its first appearance, and analysis is given at the end. Each sentence is lettered, and syntactical analysis precedes the morphological treatment.

- (a)(1)ʔimes·e (2)ʔo (3)nəš·napɛ
Once upon a time a certain(3) Indian(3)
- (4)ʔɛ·ki·pmənat (5)ʔɛs·pənən. (b)nəš·napɛ
he(3) had him(3') as a pet raccoon(3'). The Indian(3)
- (6)tšə ʔo (7)wəniʔket (8)ki·jawə. (c)(9)ʔiwtšə
so he(3) he(3) going trapping he(3) was there So
- (10)ʔɛ·nə·mkəknot ʔo (11)ʔɛs·pən (12)ʔɛ·ki·nišok·məwat
when he(3) grew up the(3) raccoon(3) he(3) helped him(3')
- (13)ʔɛ·kiwə·ənət. (d)ʔiwtšə (14)ʔɛ·ki·k·ənwačʔat, (15)mə·kwəkəs·
he(3') hunted So he(3) marked him(3') a red rag(0)
- (16)ʔɛ·ki·napk·otnat. (e)ʔiwtšə ʔo ʔɛs·pən
he(3) put around his(3') neck So the(3) raccoon(3)
- (17)ʔɛ·ktəkosit (18)nək·o (19)mt·əkwen, (20)wičʔɛs·pənən
he(3) climbed customarily a tree(3') his(3) fellow coons(3')
- (21)ʔɛ·mk·əwat, (22)ʔɛ·nis·wəpnəwat (23)niw
he(3) found them(3') he(3) threw them down to him(3') the other(3')
- (24)nəš·napən, nək·o (25)ʔɛ·ns·at ʔo
the Indian(3') customarily he(3) killed ~~them~~(3') the(3)
- nəš·napɛ. (f)ʔiwtšə ʔo nəš·napɛ (26)nwəč (27)ʔɛ·miškwəsət
Indian(3) So the(3) Indian(3) better he(3) was able
- (28)ʔɛ·mk·ətaknəkət. (g)(29)ʔi (30)šə na (31)pənɛ
he(3) collected furs that(0) so always
- (32)ka·šəčkəwat. (h)ʔiwtšə (33)nkotək ʔɛs·pən (34)ʔɛ·ki·mk·əwat
how they(35) did so once raccoon he(3) found them(3')
- (35)ns·wɛ ʔɛs·pənən, (36)nkot (37)ʔɛ·ki·nis·wəpnat,
three raccoons(3') the first he(3) threw him(3') down

- (38)mine nkot, (39)ʔahaw tšə ni ns·wε (40)ʔε-ki-kč·ə-
and one by golly! but the(3') third they(35) fought
-mikatwat. (1)ʔiwtšə (41)škeč (42)neʔiš
strenuously together So after while both
- (43)ʔε-ki-nis·awai, (44)ʔε-kč·ə-mikatwat.
they(35) fell down they(35) fought strenuously together
- (j)ʔiwtšə ʔo neš·napε (45)ʔε-ki-pwa-kk·enmat niw
So the(3) Indian(3) he(3) didn't recognize him(3') the(3')
- (46)teʔes·penmən, ms·kwεkas· ʔiw (47)ʔε-ki-pk·əškannek.
his(3) raccoon(3') the red rag(0) it(0) it(0') had fallen off
- (k)(48)ki tšə (49)ʔjajkenwik tšə kiw,
they(35) so they(35) were the same size so they(35)
- (50)čo tšə (51)mamta (52)ʔε-wi-wεp·otwat, (53)ʔε-pwa-kk·enmat
not so impossible he(3) should hit him(3) he(3) didn't
niw teʔes·penmən. (1)penε tšə
recognize him(3') the(3') his(3) raccoon(3') always so
- niw teʔes·penmən (54)namjekwan (55)ki-wčəš·non. (m)ʔiwtšə
the(3') his(3) coon(3') underneath he(3') lay So
- ʔo ʔes·pen (56)ʔε-ki-kk·enmat niw (57)wik·anən
the(3) raccoon(3) he(3) saw him(3') the(3') his(3) friend(3')
- (58)ʔε-pwa-kk·enmekot. (n)(59)kkan (60)ʔε-napmat
he(3') did not recognize him(3) closely he(3) glanced at him(3')
- (61)škiškonek. (o)ʔitšə ni wtəʔes·penmən (62)ʔipe
in his(3) eye So the(3') his(3) coon(3') there
- (63)ʔε-nə-k·wes·at niw nkot, mine (64)ʔε-šipnikwes·at,
he(3) tossed his head the(3') one and he(3) winked
- ʔiwtšə ʔo neš·napε (65)ʔε-ki-wεp·otwat niw nkot,
so the(3) Indian(3) he(3) hit him(3') the other(3') one
- (66)ʔε-ki-ns·at.
he(3) killed him(3').

(a) Once upon a time a certain Indian had a pet coon. (b) When the Indian went trapping he(the coon) was along. (c) So when the coon grew up

he helped him hunt. (d)So he marked him, put a red rag around his neck. (e)So the raccoon would customarily climb a tree, would find his fellow coons, would throw them down to the Indian; customarily the Indian would kill them. (f)So the Indian was able to collect furs better. (g)That is how they always did. (h)So once the raccoon found three other raccoons; he threw the first down, and the second, but by golly! he and the third one fought strenuously together. (i)So after while they both fell down(out of the tree), and fought hard together. (j)So the Indian didn't recognize (which one was) his own coon, since the red rag had been torn off. (k)They were just the same size, these two, you see; so it was impossible for him to hit him, he couldn't tell which was his own. (l)His coon was always underneath. (m)So the raccoon saw that his friend couldn't recognize him. (n)He glanced at him closely with his eye. (o)So his coon there tossed his head at the other, and winked, so the Indian hit the other one, and killed him.

(a)The five words are; particle(connective), pronoun, noun(these two in a junction), verb, noun; the junction is subject of the verb, the last noun object.

(b) The last word is the finite verb and the predicator; it has an implicit subject which apparently means "the raccoon;" since the verb is in indicative mode the sentence is a parenthetical comment. The other words constitute an adverbial phrase, consisting of a

participial construction(?o weni?két), a noun in extraposition with ?o (nəš·napε), and the second-position connective tšə.

(c) See §11.12 for analysis.

(d) This sentence contains two clauses; for the analysis of the second see §11.8. The first clause is connective plus predicator.

(e) See §11.13.

(f) Connective(?iwtšə), subject consisting of a junction of ?o and nəš·napε, adverb nwəč, predicator ?ε-miškwəsət; and a second clause with subject implicit but obviously the same as that of the first -- ?ε-mk·ətaknəkət. The meaning of the two verbs, "he was able," and "he collected furs," suggests a subordination of the second to the first; this is only semantically so, not formally.

(g) Equational predication with predicator omitted. First term ?i, connective šə na (or possibly šə is "the way," "how;") adverb pənε, second term the participial ka-šəčkəwat how they did. Possibly this last word should here be written ka-šə-čkəwat, with an incorporated šə how.

(h) For analysis see §11.2 ff.

(i) Two clauses; first is connective, adverb, numeral subject, predicator; second verb only, references implicit.

(j) Two clauses; for the analysis of the second see §11.13, the last example, to which this is analogous; mə·kwəkas· in extraposition with the subject ?iw, predicator last, with form for O' subject, indicating subordinate idea. First clause; connective, subject(pronoun-noun),

predicator, object(pronoun-noun).

(k) The indicative mode verb in the first clause of this sentence marks that clause as a parenthesis; presumably the other two are not. First clause subject, connective, predicator, particle(connective repeated), and subject repeated; the free translation attempts to bring out the effect of this word order and repetition. In the second clause čo not and mamta impossible reinforce each other, rather than cancel each other out; adverb, connective, adverb, predicator. Third clause is predicator with implicit subject, and object(pronoun-noun).

(l) This is another parenthesis, to explain the trouble. Adverb, connective, subject(pronoun-noun), ~~XXXXXXXXXX~~ adverb, predicator.

(m) This sentence consists of two clauses connected by a pivot. ?iwtšə is connective, ?o ?es·pən subject of the first clause, ?ε-ki-kk·ənmat predicator in the first clause, niw wik·anən object of first verb, subject of second. The object of the second verb is the subject of the first, but it is implicit in the second clause.

(n) Adverb, predicator, adverb(locative noun).

(o) Four clauses; first is connective, subject(pronoun-noun), adverb, predicator, adverb(pronoun-noun, perhaps pseudo-object, since the verb is ai); ~~second~~ is connective, predicator; third is connective, subject (pronoun-noun), predicator, object(pronoun-noun); fourth predicator with reference implicit.

(1) ?imes·ə once upon a time, connective particle, see §10.

(2) ?o 3 demonstrative; see §9.

(3) nəš·napε; formula √ənəš·ənape(ʃj).

(4) ?ε-ki-pmənat; stem √pəmən ta take care of as one cares for a domestic animal; paradigmatic suffix √a-t 3-3' conjunct, §7.3; preverbs √ε narrative, √ki past tense.

(5) ?es·pənən; stem √?es·əpən, obviative ending √n.

(6) tšə mild connective, comparable to the Biblical "and;" takes second position in the clause; see §10.

(7) weni?ket; stem √Oni?akε^{ai} go trapping; paradigmatic suffix √t 3 conjunct, §7.4; initial change giving participial.

(8) ki-jawε; stem √jaw ai be; paradigmatic suffix √# 3 indicative; preverb √ki past tense.

(9) ?iwtšə mild connective, like (6) above; the ?iw simply affords the second position tšə something to hang on.

(10) ?ε-nə-mkəknot; stem √makakən ai; ending √t; preverbs √?ε and √ənə.

(11) ?es·pən; cf (5) above; this has the singular ending zero.

(12) ?ε-ki-nišok·məwat; stem √nišok·əməw.

(13) ?ε-kiws·ənət; stem √kiws·ε ai; paradigmatic suffix √nat, §7.4.

(14) ?ε-ki-k·ənwač?at; stem √kak·ənəwač? ta.

(15) mə·kwėkas·; stem √mə·kwėkas·.

(16) ?ε-ki-nap·otnat; stem √napak·otən ta.

(17) ?ε-ktəkosit; stem √katakosi ai.

(18) nək·o particle.

- (19) mt·əkwen; stem √mat·akwE, √mat·akO; see §§6.6-6.9.
- (20) wič'əs·pənən; for √ič see §6.3.
- (21) 'ε-mk·əwat; stem √mak·aw.
- (22) 'ε-nis·wəpnəmwat; stem √nis·awəpnəmwat.
- (23) niw; demonstrative 3'; also ~~ni~~, without the w; see §9.
- (24) nəš·napən; (3) and the obviative suffix √n.
- (25) 'ε-nə·at; stem √nəS·.
- (26) nwəč particle.
- (27) 'ε-miškwəset; stem √miškawas.
- (28) 'ε-mk·ətaknəkət; stem √mak·ətakənəkə ai.
- (29) 'i; also 'iw; demonstrative O, §9.
- (30) šə na; šə is probably "how"; na is postpositive for emphasis, though its precise shade of meaning is difficult to determine; §10.
- (31) pənə particle.
- (32) ka-šəčkəwat or ka-šə-čkəwat; in the first case the stem is √ašəčəkə ai; in the second √čəkə ai, and šə ("√ašə") is inserted.
- (33) nkočək; stem √nokOč plus adverbial ending √k; see §8.
- (34) 'ε-ki-mk·əwat; (21) and pəverb √ki.
- (35) nə·wə; see §8.
- (36) nkoč; see §8.
- (37) 'ε-ki-nis·wəpnat; stem √nis·awəpnat.
- (38) mine connective particle.
- (39) 'ahaw interjection; see §1.11.

(40) ?ε-ki-kč·ə-mikatwat; stem √mikāt. It is not certain whether the intensive element √kɑč·ɑ is to be regarded as an inserted particle or as a preverb.

(41) škəč particle.

(42) nε?iš substitution; §9.

(43) ?ε-ki-nis·awat; stem √nis·a/ε.

(44) ?ε-kč·ə-mikatwat; (40) without the √ki.

(45) ?ε-ki-pwa-kk·ənmat; stem √kɑk·ənɑm ta; √pwa is the negative prefix, see §7.1.

(46) tə?εs·pənən for wtə?εs·pənən; stem √?εs·ɑpɑn; derived possessed theme with 3 possessor, with personal prefix √wat and possessive derivative suffix √m; obviative paradigmatic suffix √n.

(47) ?ε-ki-pk·əškannək; stem √pak·ɑška/ε ii.

(48) ki; demonstrative 35.

(49) ?jajkənwik; stem √?jajakənO ai.

(50) čo negative particle, see §10.

(51) mamta particle; §10.

(52) ?ε-wi-wεp·otwat; stem √wεp·otɑw ta; preverb √wi future; see §7.1.

(53) ?ε-pwa-kk·ənmat; (45) without the √ki.

(54) namjəkwan particle; see §6.8.

(55) ki-wčəš·non; stem √Očəš·ɑn ai.

(56) ?ε-ki-kk·ənmat; cf (53) and (45).

(57) wik·anən; stem √ik·an.

(58) ?ε-pwa-kk·ənməkot; cf (56) etc.

(59) kkan particle.

(60) ?ε-napmat; stem √napam.

(61) škiškonək for wškiškonək; stem √škiškon; derived possessed theme with 3 possessor, prefix √w; ~~ma~~ obviative suffix √n and locative suffix √k.

(62) ?ipe particle.

(63) ?ε-ne-k.wes.at; stem √k.wes.a/ε; preverb √am.

(64) ?ε-čipnikwes.at; stem √čipnikwes.a/ε.

(65) ?ε-ki-wep.otwat; cf (52).

(66) ?ε-ki-ns.at; cf (25).

LEXICON

The following list includes all the lexemes which appear in the grammar or the text. Non-lexemic morphemes are excluded -- namely, paradigmatic suffixes, personal prefixes and suffixes, and the possessive derivative suffix. Stems are given as such except in those cases in which they were analyzed in the grammar; in those cases the smaller units also are listed. All entries are in morphophonemic symbols and the root sign has been omitted. All numerical references are to sections of the grammar and the paragraph sign has also been omitted. References are not given for each occurrence, but only to those occurrences where some information is given about the form.

a, N, ta say to 7.3	ačatamo#j, chipmunk 6.6
a, ta final = w; 4.3	čač·aməsakən, sneezing medicine 6.6
ačawan -stream in particles	čač·amə ai sneeze
upstream etc 6.8	čakəm ta eat up, consume 4.7
aj ai passive final 4.6	čakənə ai be bereaved
akən noun-forming final 4.2	čakət ti eat up, consume 4.7
ak·w medial, wood 4.1	čašE nose 6.2
apa liquid(?) 4.2	čɛ medial; round object 4.1
apo final; liquid 4.2	čəpək·(w)E root 6.6 6.8
asə ai passive final 4.6	(O)čət·E sinew 6.6
as· dim of final n 4.2	čik locative prefix; next to, by 6.8
at medial, exist, be 4.1	čikəkatenə ai lie with one leg in the air
e/ɛ ai final 4.3	čikwən knee 6.2
ačakasə ai passive final 4.6	čikwə thunder 4.1 6.1 6.6
ačakətə ii passive final 4.6	čikwənjewE rainbow 4.1 6.6
čakə ai do something	čiman canoe 5
čək·e#j stump 4.2 6.6	čipəʔakesə ai be hit, punched 4.6
čək·osij ai be short 7.4	čipəʔw ta hit, punch, strike
čək·wajə ii be short	čipənikwəs·a/ɛ ai wink
čən ai final; 4.3	čipətəp ai sit down
čəčš·ən ai be underneath 4.3	čis·əpən ta pinch

en medial; think 4.1 4.7
 ? ta final 4.7
 a? ti final 4.7
 ?awamas ai be pretty 4.3
 ?awamat ii be good 4.3
 ?a preverb, intentional 5 7.1
 ?akom snowshoe 5
 ?akomOs·ε ai go on snowshoes 4.3
 a?amo(#j) bee, beehive 6.6
 a?amoses·an beehive 6.5
 ?anakono#j ant
 ?anck·ot cloud; FP man's name 6.1
 6.6
 ?apctosis· half-breed 6.6
 ?as(a)jan diaper, loin cloth 6.6
 ?as·akomakwe moss, evergreen 6.6
 ?ešpakO bluff; high hill along
 a river 6.1 6.6
 ?ε preverb; narrative mode 7.1
 ?ek·o ordinal prefix; 8
 ?emck·wan big spoon 6.1
 ?es·apam raccoon
 ?itaw on both sides; 6.8
 ?jajaknO ai be the same size as
 each other
 O?os· ai have a father 4.3
 ?otan town
 a?w ta final, 4.7
 i ai final; 4.3
 iš fellow . . . 6.2 6.3 6.6
 ijow body 6.2
 ik·an friend 6.2
 ipatE tooth 5 6.2 6.8
 ipE arrow 6.2
 iw wife 6.2 6.5
 iwaš· old woman; term of pejorative
 address 6.2 6.5
 j ai be here; cf jə 7.4
 aj pet 6.2
 jə, j ai be here 7.4
 #j noun-forming final 4.2 6.5 6.6
 6.7
 ajakwan in locative particles; 6.8
 ajamakat ii be here 4.3
 ja ii final; 4.3
 jačom ta talk about, tell on 4.7
 jačomo ai talk
 jačomowan story 4.2 6.6
 jačot ti talk about 4.7
 jaje ai be here, stay here 7.4
 jakwetas ai be crazy 5
 janomom ta crowd, harass 4.7
 janomCs ai have hard luck

japčate?am ta keep on- 's mind on 4.3 4.7
 japčate?a/ε ai think of something
 japata?awan cane 6.6
 jap·waN ta dream about 4.7
 jap·wat ti dream about 4.7
 jap·wa/ε ai dream
 jaš·aton ti trade
 jaš·atonamat ai trade with each other 4.4
 jatas·ok·an story 5 6.6
 jaw ai be
 jenakačomowan funny story
 k adverbial numeral ending 8
 kačaka?awe ai run out of an enclosure
~~kašap~~asowan belt, waist 6.6
 kašit·om ai try 4.3
 kašit·aw ta try, test 4.7
 kač·a preverb or particle(?)intensive
 kač·anačE thumb 6.2
 kak root hide 4.1
 kak root having something 4.1
 kakačakasO ai be hidden 4.6
 kakakapaw ai have something
 kakan ta hide 4.1 4.7
 kakanako?w ta bury with something 4.1
 kakanataso/O ai hide oneself 4.5
 kakanot(ij) ai hide each other
 kakasO ai hide 4.1
 akakašk ti have, hold 4.1 4.7
 kakato ti hide 4.7 4.1
 kakanakata/ε ai be long-legged 4.1
 kakatas ai be rich 4.1
kakata
 kako? preverb quickly 7.1
 kak· root; think, decide 4.1
 kak·a?w ta appoint, choose 4.1
 kak·apjε? ta mark 4.1
 kak·enam ta know, be acquainted with,
 recognize 4.1 4.7
 kak·enat ti know
 kak·enatom ai think 4.1 4.3
 kak·enawača? ta mark
 kak·ja ai be old
 kamaja ii rain
 kamawan ii be raining 4.3
 Okama(#j) chief
 kamot ai steal
 kam noun-forming final 4.2, 6.5 6.6
 kano(#j) eagle 6.6
 kanoN ta talk to
 kanonot ai talk to each other 4.4
 kapakOk·we?akan lid 4.2 6.6
 kapakočakan apron 4.2 6.6
 kapoti#j trousers 6.6
 kas·anje ii be cold
 kaš root; warm 4.1

- kašas ti warm up food 4.1
 košasO ai be hot 4.1
 košat·e ii be hot(not weather)4.1
 kašapakas ti heat 4.7
 kašapakasakasO ai be heated 4.6
 kašapakasw ta heat 4.7
 kašapakaswat^{as}O ai heat oneself 4.5
 košapakaswat(ij) ai heat each other 4.4
 kašapos· ti heat a liquid 4.1 4.2
 košatas ai be glad 4.1
 košat·e ii be hot weather 4.1
 kuš^εw ta hit lightly
 kaš^εk·a/ε ai be a fast runner 4.3
 kašip^εk·ansn ta scratch the back of
 košip^εk·ansnat ai scratch each other's back 4.4
 kotakan field 4.2 6.6
 katak^ε ai prepare a garden 4.2
 katakosi ai climb up
 katak^ε#j otter 6.6
 k^{at}awan log 6.1
 kawan; see kon 8
 k^ε assentive preverb 7.1
 kač·ij be small 7.4
 kakak^{oš}·i#j crow 6.6
 akakO porcupine
 akasO ai passive final 4.6
 kas· dim. of noun-forming final kan 6.5
 kas·akamo ai start running
 kas·kanasO ai whisper
 kas·kanapakw^ε ai be thirsty 4.2
 kata/ε final; leg.4.1
 k^ε ai final; 4.3
 ki preverb; past tense; 7.1
 kikape(·j) boy 6.6
 kikiš preverb; after 7.1
 kikos· fish 6.6
 kikos·ak·ε ai catch fish 4.3
 kis·as·O sun, month 6.1 6.6
 kišakwE day, sky 6.6
 kiš^{oš}ki#j flat cedar tree 6.1
 kišakate ii be dry 4.3
 kiš^ok^o? ti cut 4.7
 kiš^ok^o?w ta cut 4.7
 kiw^on^ε ai wallow around
 kiw^os·ε ai go hunting
 kiwat·a around(and around) 6.8
 kiwat·a^omako ai ride around horseback
 kiwat·apat·o ai run around 4.3
 kiw^ε ai go home
 kiw^εpat·o ai run back 4.3
 kje#j mother 6.2
 k^oč^εs· bean 6.1 6.6
 koč^{an} ai hang, be suspended 4.3
 kokapanakan basket 6.6
 koki ai dive into water 4.1
 kon, kawan so many years; 8
 konakat, kawanakat so many years 8
 konje snow 6.1 6.6
 kotakok·w^{an} chain over fire from which to hang pots 6.6
 kw^oč^εakasO ai be feared 4.6
 kw^os· son 6.2 6.7
 kw^os· ta fear
 kw^os·ataso/O ai fear himself 4.5
 kw^os·at(ij) ai fear each other 4.4
 kwatamoč^εakan fishhook 4.2 6.6
 kwatamoč^εake ai go fishing
 kwat·ač ai be frightened
 kwakanas·an ii be mouldy 4.3
 kwak·wate#j grasshopper 6.6
 kwam(O) ai final; sleep 4.3
 kwapat·o ai run out of the water 4.3
 kwas·kasa^o? ai jump
 kwawakan forked stick by the fire which supports a rod over the fire 6.6
 kw^εpanapat·o ai run past, run by; 4.3
 kwič^{an} ai lie in water 4.3
 kwito ti leave in water
 ak· ti final 4.7
 ak·a land, earth, dirt 6.4 6.6 6.7
 ak·ač^εakak·w^ε?akan parasol, porch 6.6
 ak·ak·aš^ε#j coal charcoal 6.6
 ak·ak·aš^εwapate#j burnt stamp 6.6
 ak·ak·O bucket 5 6.1 6.6
 ak·amak ground, in locative particles 6.8
 ak·anas·akan axe 6.6
 k·an noun final 4.2 6.5 6.6
 k·anetat^ε skull 6.2
 k·an^ε bone 6.2
 ak·aš^εaj^εpawis·an breakfast 6.1 6.6
 k·at vagina, vulva (form?) 6.1 6.2
 Ok·atan vagina, vulva(form?) 6.1 6.2
 ak·atO ai say
 ak·aw ta final, 4.7

- (0)k·ak·a#WE chest, breast 6.2 Omak·O beaver
 k·an noun-forming final; instrument, means; 4.2 mak·otat(ij) ai find each other 4.4
 k·as· dim of k·an; 6.5 mak·o bear
 ak·ate leg 4.1 6.2 ~~XXXXXXXXXXXXXX~~
 ak·atenakom a braid of hair 4.2 6.6 mak·omje 6.1 6.6
 ak·atenake ai braid hair mak·otataso ai find oneself 4.5
 ak·ati#j kettle 6.1 6.6 mak·o#w be a bear 4.3
 ak·a/ε ai final; motion 4.3 mōmačakon ta hold
 k·ε ai final; verb of producing 4.3 mōmakat·awaka/ε ai be big-eared 4.1
 ak·jenan ta hold, retain mōmenwa ii be roomy
 ok·jenanamaw ta hold for, retain mōn final; berry 4.1 4.2 6.2
 for 4.7 mōnaš·ε(#j) island 6.6
 (0)k·onE liver 6.2 mōnato(#j) snake, spirit
 ak·wačatajēpawan chair 6.6 mōnačakate ii be smelled 4.6
 k·wat, k·wač on top of 6.8 OmōnašKano ai eat a feast
 ak·wetak·a#WE hill 6.6 Omōnaškanowan meat at a feast 4.2
 k·we woman 4.1 6.6 mōnat ti smell
 k·wekan neck 6.2 6.8 mōnokiškot ii be a nice day
 ak·wēm sister 6.2 6.9 mōnok·amawikawamE summer house 6.6
 k·was·a/ε ai nod one's head mōnowatak·a/ε ai have a war dance 4.3
 m ta final 4.4 4.5 4.7 mōnowitok·Otat(ij) ai be good to each other 4.4
 om ta final 4.4 4.5 4.7 mōwas·ε lake 6.6
 mačakak·owas· first-born man 4.1 mōwassek horsefly
 mačokak·wewaš· first-born woman mas·atE stomach 6.2 6.8
 4.1 masat·akwE ear of corn 6.1 6.6
 mačomos·a/ε ai be fastened mas·ε#j older sister 6.2
 mačamoš·an ai be stuck 4.3 mas·komān red raspberry 4.2 6.1
 mačanaw ta compete with mas·kopwakan red clay pipe; peace pipe 6.1 6.6
 mačanake ai compete with someone mas·kwa ii be red
 4.3 mas·kwapako(#j) penny 6.1 6.6
 mačanat ai compete with each mas·kwati#j anus 6.1 6.2 6.6
 other 4.4 mas·kwe blood 6.4 6.6
 mačatas·E socks, leggings 6.6 mas·kwēkas· red rag 6.6
 amačatotat ai abuse each other 4.4 maškak·a#WE medicine 6.6
 ma#wε(#j) wolf 6.6 maš·a ii be big
 makakano ai grow up maš·imān apple 6.1
 makat ii final 4.3 7.6 maš·omas· grandfather 6.2 6.9
 mak· root; find 4.6 maš·ome#j stepfather; FP maternal uncle 6.2
 mak· ti find matamosε#j old woman 6.4 6.6
 mak·akasO ai be found 4.6 matakwaj ai have a good time 7.4
 mak·amaw ta find something for 4.7 mateman corn 4.2 6.1 6.6
 mak·asan shoe matemanapo hominy, corn scup 4.2 6.6
 mak·atakan fur 6.1 6.6 matatas· ten 8
 mak·atakanake ai collect furs matoto? ta give a sweatbath to
 mak·ate ii be black 4.1 matotowan steam, vapor 4.2
 mak·atemān blackberry 4.1 4.2 6.1 mat·akawšOtek·an fire drill 6.6
 6.6 mat·akos· twig 6.5
~~XXXXXXXXXXXXXX~~ mak·atepiwapakwE black iron(?) 6.6
~~XXXXXXXXXXXXXX~~ mat·akwakak·a#WE timber, woods, forest 6.6 8.7
 mak·aw ta find mat·akwap bow 6.1 6.6
 mak·awatataso ai find oneself 4.5 mat·akwE, mat·akO tree, stick, log 6.1 6.6

- mat·akwejapjE bowstring 6.6
 amaw ta final, double-object verb 4.7
 mači ai come 4.3
 mačiN ta take 4.7
 mačitaw ta take something for 4.7
 mačitake ai take something 4.3
 mačito ti take 4.3 4.7
 mič ti (vowel stem) eat 4.1
 mikačewit·aw ta work for
 mikačewit·ake ai work for someone 4.3
 mikat ai fight with each other 4.4
 mikwan feather 6.1
 mik·wenatam ai remember
 miN ta gave something to
 minakasO ai have something given to one 4.6
 minak·an seed 4.1 4.2
 mine berry 4.1 6.6
 mišaqško#wE grass, weed 6.6
 mišakan leather; set of harness 6.6
 mišakanakwE#j 6.6
 miškawas ai be able
 miš·ačepok·ama (#j) peach 4.1 6.1 6.6
 miš·anikwakan eyebrow, eyelash 6.6
 miš·atamak·anakan small beard in center of chin 6.6
 mjanas ai be ugly 4.3
 mjanaškaw ta hurt, kick, injure; hurt from the inside, like medicine or poison 4.7
 mjanaškakO ti be sick from
 mjanat ii be bad 4.3
 mjewE road 4.1 6.6 6.8
 mok·it· ti start out after 4.7
 mok·it·aw ta start out after 4.7
 moškanaN ta fill up
 moškananatasO ai fill oneself up 4 4.5
 moš·ačakasO ai be felt 4.6
 moš·ač ta feel
 moš·ačataso ai feel oneself 4.5
 moš·ačat(ij) ai feel each other 4.4
 motej bottle 6.6
 mowačE faeces(?) 6.6
 N ta final 4.7
 N, a ta say to 7.3
 n ai final; 4.3
 n ta final 4.7
 n ti final 4.7
 n root ?
 n noun-forming final 4.2
 an ii final 4.3
 ana preverb; when, then, until the time that 7.1
 načE hand 6.2
 anač·iman pea 4.2
 nakačakasO ai be lost 4.6
 naka? ta lose 4.7
 naka?ataso/O ai lose oneself 4.5
 naka?at(ij) ai lose each other 4.4
 nakamO ai sing
 nakamOwan song 4.2 6.6
 nakapješ·an ai melt away 4.3
 nakataN ta beat in a race
 nakatašawe ai win a race
 nakat·o ti lose 4.7
 nakapawe ai dissolve 4.2
 nakaška/ε ai stop 4.3
 nakaš·an ai stop 4.3
 Onakék·O, Onakék·wE tree bark 6.1 6.6
 nakot, one 8
 nakotaw ai live alone
 nakotwatas· six 8
 anako (#j) star 6.1 6.6
 nako? ti bury 4.7
 nako?w tabury, cover up 4.1 4.7
 nako?watasO ai bury oneself 4.5
 nako?wat(ij) ai bury each other 4.4
 nako?waj ai be buried 4.6
 nako?wasO ai be buried 4.6
 nakwapočakan snare, net, trap 6.6
 nakwikan wing 6.1 6.2 6.6
 nak·ε arm 6.2
 nak·wesaka?am ai be excused 4.7
 nak·weškaw to meet 4.7
 nak·weškOtat(ij) ai meet each other 4.4
 nak·wet· ti answer 4.7
 nak·wet·aw ta answer 4.7
 namaje ai get a short way 7.4
 anamakan shoulder 6.2
 anamoš· dog
 anana#w man 4.1 4.2 6.6
 nanat·ew ta ask
 nanat·ake ai ask someone; ask for someone 4.3
 napiš· water 6.8
 napo ai die
 napomakat ii die 4.3
 napwak·a ai be smart
 napwak·awan education, intelligence, scheme 4.2
 naS· ta kill
 nas· three 8
 nas·ačakasO ai be killed 4.6

- nas·ataso/O ai kill oneself 4.5
 nas·at(ij) ai kill each other 4.4
 nas·awa'ak·ε ai put feathers on arrows 4.3
 naškatej bird's tail 6.1 6.2
 naš·awej scrotum, testes 6.1 6.2
 naš·Onačatakaw ta destroy things
 for 4.7
 naš·Onačataké ai destroy something
 4.3
 naš·Onačato ti destroy
 nato' preverb; try 7.1
 nat·amaw ta kill someone for 4.7
 nat·o ti kill
 anawemakan relative 6.2
 anawewekas ai make a noise 4.1 4.3
 anawewekat ii make noise 4.1 4.3
 anəš·anape Indian
 načakate ii be fetched 4.6
 Onačakate Indian 6.5
 nak·an mat 6.5 6.6
 nak·anaškwe reed
 nam under 6.8
 naN ta go get, fetch 4.7
 nanawanačakan middle finger 6.6
 nanipaw ai stand up 7.2
 nanoš·εpas·awan earring 6.6
 nap ai look, glance
 napak·otan ta put something around
 the neck of
 napak·owakan string of beads, neck-
 tie, handkerchief around the
 neck 6.1 6.6
 napaw ta look so to, have look so
 to one 4.7
 napanan ta do something to, with
 napem husband 6.2
 nepo drink 4.2 6.6 6.8
 net ti go fetch 4.7 7.4
 netwe snake
 nekatoš·a#j horse 4.1 6.6
 nekatoš·aja#w ai be a horse 4.3
 nekatoš·awakamakwe barn 4.1 6.6
 nekok·a#wE trash, dirt 6.6
 nenotan ai remember, think 4.1
 Onenotan ai forget 4.1
 nenejan mother 6.2 6.9
 nes·ekwepate'awan pin 6.6
 nišenas· child 6.2
 Onišenas· ai have children 4.3
 Oni'ake ai go trapping
 nikani ai be leader, head man 6.8
 nima'atij ai dance together 4.4
 nima'atijawan dance 4.2
 nipaw ai be standing
 nis·awepaN ta throw down
 nis·awepanakasO ai be thrown down 4.6
 nis·awepanamaw ta throw something down to 4.7
 nis·a/ε ai fall down 4.3
 nis·kik·aw ta bother disturb
 nis·kikOtat(ij) ai bother each other 4.4
 niš two 8
 nišok·amačakasO ai be helped 4.6
 nišok·amaw ta help
 nišote(#j) twin 6.6
 nita' ta send for something by
 nita'awε ai send for something 4.3
 njanan five 8
 njew four 8
 no'ak seven 8
 no'akananačE first finger 6.6
 nokan hip 6.2
 nok·aN ta hire
 nok·ašawε ai hire something done 4.3
 nomakat ii 4.3
 nos·kwam ta lick
 nos·kwamatasO ai lick oneself 4.5
 noš·ε#j stemother; FP maternal aunt 6.2
 not ti hear
 notan ii be windy 4.3
 notaw ta hear
 notakočakamusical instrument(not a drum) 666
 notataso ai hear oneself 4.5
 anwe bullet 6.4 6.6
 O prefix in secondary derivation; 4.3
 o in numerals 6, 8, and 10; 8
 ok·omas· grandmother 6.2 6.9
 omatanana# cardinal tens; 8
 os· father 5 6.2 6.9
 os·ak cardinal thousands 8
 os·es· grandchild 6.7
 oškan so-many bagsful 8
 otapa'akan see tapa'akan 8
 pačakwan penis 6.2 6.6
 pa' ta escape from 4.3
 apa'awε ai run towards a goal 4.3
 pakakanakan ankle 6.2
 pakomas·akan axe 6.6
 pak·aška/ε ai come off, be torn off
 pakawajan cloth 6.6
 pakanE walnut 6.6 6.8
 pakanés· hazel hut 6.5 6.6

- pakonajawis·an evening meal 6.1 6.6
 pakwe dust 6.4 6.6
 pakweʔas·an chip of wood 6.6
 pakweškas· cracker 6.6
 pak·ačawepaŋ ta let go of
 opak·wačakan roof, top 6.6
 opak·wak·wotwE ball 6.6
 pam root; moving around 4.1
 pamajə ai "stick around" 7.4
 pamakaš·an ai make a track 4.3
 pamān ta have as a pet
 pamānakan a pet, domesticated animal 4.2
 pamapat·o ai run along 4.3
 pamaš·a/ε ai fly 4.1
 pamawapān ii be almost morning 4.1
 pamašas·o ai lie down
 pamaška/ε ai fly 4.1 4.3
 pamatak·a/ε ai swim along 4.1 4.3
 pamatas ai live 4.1 4.3
 pamos·ε ai walk 4.1 4.3
 pameča ii be stale
 panawakok·a#wE sand 6.6 6.7
 panocē(#j) child 6.6
 papat·o ai run over somewhere 4.3
 papamapat·o ai run around 4.3
 papapatak·a/ε ai swim around 4.3
 papamatas ai travel
 papawinapokatake ai go around
 dirtying water 4.2
 paponāšiwakan winter-house 6.6
 pasatake ai keep one's mind on
 something
 pasošε ai be in a dull light
 pas·etonO ai have a hairlip 7.4
 pas·wetam ai make an echo
 paškāsakan gun 6.6
 pašoškwas·a/ε ai have one's feet
 slip
 patakate ii be there, here 4.3
 pat·o ai final; run 4.3
 *paškas ti shoot 4.7
 paškāsokasO ai be shot 4.6
 paškāsaw ta shoot 4.7
 paš·ak·a#w saw 6.6
 pikāšs·ako#j stump, old stump,
 log 4.1 6.6
 pikāšk ti wear out 4.7
 pikāška/ε ai be broken, tumble-down 4.3
 pikatapeš·an ai break one's head, break 4.3
 pikejek·was ai be exhausted
 pikepat·o ai be exhausted from running 4.3
 pinānakwas ai be clean 4.3
 pinānakwat ii be clean 4.3
 pip·is·ateʔE lung 6.2 6.8
 piakomwakan coat 6.6
 piakonocje ai dress
 pitake ai come in
 pitakečeʔ ti roll in 4.1
 piwapakwE iron 6.6
 pja/ε ai come 4.1
 pječakate ii be brought 4.6
 pjek water, in locative formations 6.8
 pjekwaš·an ai come out of the water 4.3
 pjemakat ii come 4.3
 pjenomakat ii come to happen 4.3
 pjeto ti bring
 pjewapan ii be becoming morning 4.1
 pjewiwāš ai carry a pack
 pokapāčakate ii be torn up 4.6
 pokapato ti tear up
 pokašk ti break 4.7
 pok·ama#j plum, peach 6.1
 potaʔaškwan pestle 6.6
 potaʔakan mortar 6.1 6.6
 potawakan flue, chimney 6.6
 potawatami(#j) Potawatomi 6.6
 pwa negative prefix for conjunct modes
 Opwakan pipe 6.1 6.6
 pwičokate ii be waited for 4.6
 pwiʔ ta wait for 4.7
 pwit·o ti wait for 4.7
 p·akekan rib 6.2 6.8
 ap·ašk root; black(?) 6.6
 ap·ašk=kano(#j) black eagle 6.3
 ap·ašk=maʔwe(#j) lion 6.3
 ap·əkaŋ ta throw down 4.7
 ap·əkaš·an ai fall 4.3
 ap·əkat ti throw down 4.7
 ap·əkato ti throw down 4.7
 ap·ək·jə cattail 6.1 6.6
 p·ək·wēs·an ii be loose 4.3
 p·ič· prevero; then, while, inasmuch as 7.1 10
 p·iT· root; inasmuch as, while 7.1
 ap·it·Os·ε ai take one's time in walking 4.3
 as ai final 4.3
 sakwas· maternal aunt 6.2 6.9
 sakwas·as· mother-in-law 6.2

- sanakut ii be hard
 satE foot 6.2
 sawanakwE tail 6.2
 saka'am ai go out 7.4
 OsamakatasO ai be too angry
 Osamakwam(O) ai oversleep 4.3 7.4
 Osawašonaja#j gold money or things
 6.1 6.6
 seknanawakan tongue 6.2
 sekapanawan braid of hair 6.6
 sikame'akan spear 4.2 6.6
 sikame'ake ai spear something
 sipa#wE stream 4.2 6.6
 sisapanikwakan tear(in eye) 6.6
 sisapak#watwE sugar 6.6
 siw root; sour 4.2
 siwan ii be sour 4.2
 siwano#wE grape 6.6
 siwat·akan salt 6.6
 siwapo cidar 4.2 6.6
 S· prefinal; 4.3
 s· noun-forming final; diminutive
 6.5
 as·aj hide, skin 6.1
 as·anjE stone, rock 6.6
 as·apapjE rope, thread 6.6
 as·apjE fishnet 6.1
 s·ase#j older brother 6.2
 as·am hide, skin 6.1
 Os·e ai final; walk, by foot 4.3
 as·ema(#j) tobacco 6.1 6.6
 as·emak·e ai prepare tobacco 4.3
 as·kwendācis· little finger 6.2
 as·kwesatis· little toe 6.2
 as·weN ti divide up, partition
 as·wēnomow ta divide up for 4.7
 aša preverb; thus, so 7.1
 šač see šat
 ašačake ai do something thus
 šakaš·an ai lie 4.3
 šckaka'akan button 6.6
 šakwak·waminak·an pine seed 6.6
 šakwak·wE pine tree 4.1 6.1 6.6
 6.8
 šomakanāš· soldier 6.6
 šaš see šat
 ašāš·an ai lie there, lie thus 4.3
 šat, šač, šaš numeral connective; 8
 ašate'a/e ai think so, decide 4.3
 ašawe ai say so, tell so 4.1 4.3
 ašawepas ai experience something 4.3
 ašawepat ii do something 4.3
 ašak šeš·ak·a dirt 6.6
 šak nine 8
 šapanakan needle 6.6
 šaš·akwom tachev
 šaš·akwašk ti mesh with the feet 4.7
 šati#j spearhead, arrowhead 4.2 6.6
 šej hide, skin, rind 6.1 6.2
 šenawekan bell, sleighbell 6.6
 šij do something in a certain way 7.4
 šikan hip 6.1 6.2 6.8
 šiš·ikat·akan urine 6.6
 šja/e ai go
 ašk ti final 4.7
 aškamOtE sack, bag 6.6 6.8
 Oškanawe#j young man, vassal 6.6
 aškaw ta final 4.7
 aška/e ai final; motion 4.3
 (O)škišakO eye 6.1 6.2 6.6
 aškOte(#j) fire 4.2 6.6
 aškOtek·an flint-and-steel 4.2 6.6
 aškOtes· match 6.5 6.6
 aškopjE cedar 6.1
 aškwatēME door, doorway 6.6 6.8
 šomikwe smile 6.1 6.6
 šonaja#j money, coin, dollar 6.6
 šoškas ai be smooth, slick 4.3
 šwatas· eight 8
 š· noun-forming final; pejorative 6.5
 š·omas· niece -- sister's daughter 6.2
 š·ak·E belly 6.2
 aš·em ta feed
 aš·ak·i(#j) crowdad
 š·ime#j younger sibling 6.2 6.9
 aš·o'akan paint, housepaint 6.6
 t ti final, 4.4 4.7
 at ai reciprocal final 4.4
 at ti final 4.4 4.7
 at ii final 4.3
 takašk ti kick 4.7
 takaškaw ta kick 4.7
 Otakočan ai fall 4.3
 takos·an ii be put with something 4.3

- tok·anakan cradle 6.6
 tok·apwE well 6.6 6.8
 tok·apoja ii be cbbd(of a liquid only) 4.2
 tok·Opáčakan ai anything to tie things with; e. g., hair-ribbon 4.2 6.6
 tok·Opáčake ai tie things
 tok·Opán ta tie, fasten 4.7
 tok·Opate ii be tied up 4.3
 tok·Opato ti tie, fasten 4.7
 tok·wan limb of a tree 6.2
 tam ai final; 4.3 4.7
 tana?áč·am ta bury
 atanás ai be here
 tapa?akan, otapa?akan miles, yards 8
 tapa?akas·, otapa?akas· o'clock 8
 tapak·akis·as·O moon 6.1
 tapawE ai hold council
 tapak·anake ai hold council 4.1
 tapak·anakewanana#w lawyer 4.1
 tapE head 6.2
 tapom ta hold council about
 atasO ai reflexive final 4.5
 ataso ai reflexive final 4.5
 tas· see 8
 taša preverb, where, while, how 7.1
 atašik· ti play with, fool around with 4.7
 atčšik·aw ta play with, fool around with 4.7
 tat·akakwan backbone 6.2 6.8
 Otat·an ti get, acquire 4.7
 ta ti final = to; 4.3
 tam ta sell to 4.3 4.7
 tamak·an chir, jaw 6.2 6.8
 OtanakwE ai have a town
 tands· daughter 6.2
 Otapajan wagon, cart 6.1
 tat(ij) ai reciprocal final 4.4
 tawE ai trade 4.3
 ata/ε ai live, dwell 4.1
 te ii final 4.3
 te? root; heart 4.2
 te?amán strawberry 4.2 6.6
 te?a/ε ai think
 te?E heart 4.2 6.2
 tēp preverb; succeed
 tēpam ta have enough of, say the truth about 4.7
 tēpapa? ta escape from 4.3
 tēpat ta have enough of; say the truth about 4.7
 tēpwet· ti believe 4.7
 tēpwet·aw ta believe 4.7
 tētε#j father, "dad" 6.2
 tewe?akan drum 6.1
 tewe?akananima?atcwan drum dance 6.6
 ti?akwam pet horse, pony 6.2
 atij ai reciprocal final 4.4
 to ti final; 4.3 4.7
 tok·an ta awaken
 tok·i ai wake up 4.3
 tonak·os·awej kidney 6.1
 tonE mouth, lips 6.2
 atop·awam table 4.2 6.6
 atop·awekam tablecloth 6.6
 toε·kwam elbow 6.2 6.8
 Otatan ai have a village 4.3
 t· ti final 4.7
 at·akamán acorn 4.2 6.6
 at·akamašE oak-tree 4.2 6.1 6.6
 at·akapakwE leaf 4.2 6.6
 t·am ai final; 4.3 4.7
 t·as·E navel 6.2
 t·aw ta final 4.7
 t·awaka/ε final; ear 4.1
 t·awakE medial and ~~stom~~, ear; 4.1 6.2 6.8
 tat·epáčewepan ta, ti roll along 4.1 4.7
 t·et·ε ii be ripe
 t·o ti final 4.7
 daw ta final 4.4 4.5
 #w ai final; verb of being 4.3
 #w noun-forming final 4.2
 awa preverb; on the way to 7.1
 wačča preverb; why or towards 7.1
 awajas·E meat 6.6 6.6
 wan noun-forming final 4.2 6.6
 wakomakwE final; house 4.1
 wak cardinal hundreds; 8
 wak·a?akan fence 4.2 6.6
 wak·ajapate#j circle of teeth, jawful of teeth 6.1 6.6
 wanakwE hole 6.6
 wanak·ε ai dig a hole 4.3
 wanak·wak·a#wE ditch 6.6
 wap root; white
 wapáčakasO ai be seen 4.6
 wapáčakate ii be seen 4.6
 wapakan clay 6.1 6.6 6.8
 wapakonoškwε#j rat 6.3
 wapakonoškwεs· mouse 6.5
 wapam ta see 4.7 5

wapamaj ai be seen 4.6
 wapam ii be morning, tomorrow 4.1
 wapaskakano(#j) white eagle 6.6
 wapaskok·a#wE swamp 6.6
 wapat ti see 4.7
 wapatasO ai see oneself 4.5
 wapata? ta show something to
 wapat(ij) ai see each other 4.4
 wapato#j mushroom, toadstool 6.1
 6.3 6.6
 wapatok·e#j mushroom, roadstool
 6.1 6.6
 wapat·ak cardinal tens 8
 wapawajan blanket 6.6
 wapjek so-many pieces; 8
 wap=kano(#j) white eagle 6.3
 waposo rabbit
 was·akoneto#j flower 6.6
 was·as·o ai shine
 was·ečakan window 4.2 6.6
 wawajeja ii be round
 wawanas·an ii be not fixed right 4.3
 awawE egg 6.6 6.8
 #wE noun-forming final 4.2
 weai final, verb of action on
 indefinite object 4.3
 wemat·akoši#j Frenchman 6.6
 wənup·anas ai be easy 4.3
 wənup·anut ii be easy 4.3
 wəp preverb; inceptive 7.1
 wəp ai do something
 wəp·a?awən paddle, oar 4.2

wəpən ta leave
 wəpak·wi ai throw something; swing an axe
 wəpi? ta run away from
 wəpi?awe ai run away 4.3
 wəp·očakate ii be hit 4.6
 wəp·ot ti hit
 wəp·otaw ta hit
 wət·ək·ək·O brass kettle 6.1
 wəwək medial; sound 4.1
 wi preverb; future 7.1
 wiča?e#j spouse 6.2 6.9
 wikača? ta try, test 4.7
 wikačat·o ti try, test 4.7
 wikapiš· bark 6.6 6.8
 wikapiš·ak·e ai collect bark 4.3
 wikawamE house 4.1 6.6 6.8
 winənO fat, grease 6.1 6.6
 winas·as·E hair 6.2
 winetapE brain 6.2
 wip·em ta sleep with
 wis·an ai eat 4.1
 wis·anawan food 4.2
 wišakas ai be strong 4.3
 wišakja ii be hard 4.3
 wištaja#j blacksmith 6.6
 witok·aw ta play with, have a liaison with
 wiwašawan pack, bundle 4.2 6.6
 wiwašawanuk·e ai make up a pack 4.3
 wiwatij ei have intercourse 4.4
 wiwin horn

It is necessary to list separately the words which are not reduced to formulae in the grammar. In the following section of the lexicon the reader is not to interpolate the root sign before the entries; they are given as words in phonemes.

čajek all (inanimate) 9	jestek doubt 10
čak ksko everything 9	ket·ə(n) sure enough 10
čak wəje everybody 9	kanejek beyond a body of water 6.8
čo not, no 10	ksko don't! 10
čoksko nothing 9	ksko something 9
čonkoči nowhere 9	kəna would that . . . 10
čonkote?ne neither one 9	kin thou 9
čowəje nobody 9	kinan we inclusive 9
čówik·a never 9	kinwa you 9
həw hellow! goodbye! 1 .11	kiš·pen if 10
hč· Hm! So! 1.11	ki(=) those 35; 9
?ahaw well well! Aha! 1.11	kkan closely, carefully
?a?itew on both sides of something	knəpəč maybe 10
6.8	kote those 35; 9
?ajač more and more 10	kpəč on the edge of a body of water
?ajap·ən in the same place	kwəp·mə beyond something
?ako that over there 9	k·wet-pək on the roof 6.8
?anət some, a few 9	məmta can't 10
?əpto-jəkwan halfway 6.8	manwěč of necessity 10
?əšwe-jəkwan beyond 6.8	mčěš a great many 9
?imes·ə once upon a time 10	mč·i-jəkwan down below 6.8
?ipe over there 6.8	mč·ik down below 6.8
?ipe-jəkwan over there 6.8	məkwa still
?i šə na so, thus 10	mine and, with 10
?i(w) that 0; 9	močké nevertheless
?iws·ə completely 10	močma please! 10
?i(w)tšə and so, then, next 10	nə interrogative particle 2.1 10
?o that 3; 9	nək·nək everywhere 6.8
?ote that 3; 9	nək·o customarily
?ote that 0; 9	něš· very much 10
je predicator 10	něš· nə kə for a reason

něš. še na for no particular reason	sakěč outside
nakač soon 10	s·e predicator 10
nakena would that . . . 10	s·ewi predicator 10
nanaw-jekwan in the middle 6.8	še how, so, thus 10
nawěš in the middle 6.8	še ne s·e še more or less 10
naw-jekwan in the middle 6.8	še něš· p·i in precisely this manner 10
neʔiš both 9	š·na emphasis 10
nejap back	ši(w) there 9
net·em the first	škeč after while
nikan ahead 6.8	škwē-jekwan on the edge 6.8
nimetše what? why? 9	škwajak behind, afterwards 6.8
nin I 9	šote there 9
ninan we exclusive 9	šperek on high, above 6.8
nip·itše where? 9	tenip·itše where? 9
nis·ačwēn downstream 6.8	tenitše what? who? 9
nitšēši how? in what way? 9	tše mild disjunctive 10
nitšewi why? 9	wenats·ek several times 10
ni(w) that 3'; 9	weje someone 9
ni(w) those 05; 9	wá' what? what did you say? 1.11
nkoči somewhere 9	wá·t·šjâ· surprise 1.11
nkom today 10	wawik·a now and then 10
note those 05; 9	wči-jekwan towards something 6.8
note that 3'; 9	wekni what? for what reason? 9
ns·wē three 8	weknitše what? 9
nweč more, better	wekwentek somebody, something 9
pené always 9	weni(tše) who? 9
pep·ič once in a while 10	wik·a sometimes(?) late 9 10
pamē-jekwan on one side of something 6.8	wik·ap·i finally 10
peš·oč close, nearby	win he 9
pk·an differently 10	winwa they 9
pošo hello!	wk·ew particle; easily, easy 10
p·i now 10	wnako yesterday
p·ič· when 10	wške first
sakše-jekwan outside, outdoors 6.8	wškeča the first
	wtop·i right now 10

SUMMARY

Potawatomi is a typical Algonkian language. The one really unique feature, for Algonkian, is the system of alternation of form of morphemes which is dealt with in §2; though since work with Potawatomi was begun it has developed that Mohican, possibly some of the other eastern Algonkian dialects, and the southern dialects of Ojibwa, have a similar, though not identical, system.

In dealing with that system of phonological alternation the present thesis makes a methodological contribution, which is of significance not only for the other Algonkian tongues mentioned above, but for Tonkawa, some other Indian languages, and, it may be, ultimately for Indo-European -- since it has been suggested that alternate forms in the various extant Indo-European languages derive from a functional alternation based on vocalic syncope in the parent tongue.

The factual contribution of this present work is that it fills a gap in our descriptive knowledge of Algonkian. The historical implications of Potawatomi were not discussed in the present thesis; but it may be indicated here that Potawatomi helps to resolve a number of problems of Proto-Algonkian phonology; it also raises a number, however, for the solution of which we must await satisfactory descriptive data on Algonkian dialects which are as yet untouched by the modern linguist.