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1. Introduction. Natchez was formerly spoken in Mississippi, east of the present city of Natchez, by the only Mississippian society to survive until the period of intensive European contact in the Southeast. This society was headed by the Great Sun (?uwahši·L li·kip) and the Sun Woman (?uwahši·L tama·L), and had an elaborately stratified social system. After an initial period of friendship with French settlers, hostilities arose, culminating in three French-Natchez wars, the last of which, ending in 1731, brought about the almost complete destruction of the Natchez as a people, with all of the Natchez captives sold as slaves in the Caribbean by the French. The few survivors retreated eastward and settled among the Creeks and the Cherokees. Among the Creeks, the Natchez settled in the town of Abihka. After the people of Abihka were forced to Oklahoma during the Removal in the 1830s, the Natchez left the town and settled near Braggs, Oklahoma. During the last years of the community, there was much intermarriage with Creeks and Cherokees, and the last speakers were multilingual in Natchez, Creek, and Cherokee. Among the Cherokees, the Natchez lived along the Hiwassee River in Eastern Tennessee, and the majority accompanied the Cherokees during the Removal. They established a town a few miles south of the Cherokee capital Tahlequah, but were quickly acculturated by the Cherokees; only a handful of speakers remained by the 1890s. John R. Swanton visited the Braggs community in 1907 and found five persons who could speak Natchez.1 In 1909 he did linguistic work with Watt Sam (born ca. 1857); from this he prepared a grammatical sketch of the language, which has been edited by T. Dale Nicklas (1991). From 1934 to 1936 Mary R. Haas collected over two thousand pages of fieldnotes (close to four thousand lexical items and dozens of texts) on the language from Watt Sam and Nancy Raven (born ca. 1850), the other surviving speaker of the language, who was Watt's cousin, but a classificatory

aunt because she was descended from Watt's paternal aunt. Both speakers stated that the Natchez language had been preserved matrilineally; i.e., Natchez-speaking mothers taught the language to their children. Since according to custom none of Watt Sam's children learned Natchez, and Nancy Raven had no living children, on their deaths Natchez became extinct.

2. Text. The following text was recorded by Mary Haas in the fall of 1934. It is found on pages 5–11 of Book IX of her fieldnotes. Each numbered unit consists of a clause terminating in -k 'and', -ne 'when', or -Y 'phrase terminal marker'.

Turkey Fools Wildcat Told by Watt Sam

Scene 1

- (1) ?ohoti*nuhc cu*tahaw pološaL šupitine ?ohoti*nuh-c cu*tahaw-Ø polo-š-al-k šu-piti-ne wildcat-ERG rail-ABS split-QT-AUX-CONN QT-be.about-WHEN When Wildcat was around splitting rails, so it is said.
- (2) šo koLši L kašišahkuk šo koLši L-Ø ka-ši-šahk^w-k turkey-ABS PVB-QT-arrive-CONN Turkey arrived;
- (3) "coppa·Nkuk cop-pa·-n-k"-k pluck-20PT-10BJ-AUX-CONN "If you pluck me,
- (4) ?e-taku-š ?ahtik ?e-t-a-ku-š ?a-hti-k house-ART-ALL 1SOPT-go-CONN I will go to the house,
- (5) tama Lpišica ta·?a·niL tama·L-piš-ic-a ta·-?a·-ni-l-k wife-2POSS-ERG-ART kill-3OPT-1OBJ-AUX-CONN

?uwahle?a·niL ?uwahle-?a·-ni-l-k boil-30PT-10BJ-AUX-CONN and your wife will kill me, and boil me,

- (6) ?oy?a·k ?olocele?a·kine
 ?oy-?a·-k ?olocele-?a·-ki-ne
 be.cooked-1OPT-AUX-CONN be.noon-3OPT-AUX-WHEN
 and when I am cooked at noon,
- (7) pa·šahkuk ma·pa·niškų",
 pa·-šahkw-k ma·-pa-ni-škw-Y
 20PT-arrive-CONN FUTURE-20PT-10BJ-eat-PHR.TERM

hišu·šik hi-ši-w-Ø-ši-k say-QT-AUX-3DAT-DAT-CONN vou will arrive and eat me", he said to him, and

- (8) cu'hanatayak tek^wešukik cu'hanata-ya-k tek^we-šu-ki-k log-ART-ON sit-QT-AUX-CONN he sat on a log,
- (9) copšuku·Nkę· šu·k^waL cop-šu-k^w-·Nkę· šu·k^wal-k pluck-QT-AUX-MOD QT-finish-CONN and he kept on plucking him and finished up,
- (10) ?iMa·na·h ?e·taku·š ka·šuhtį. ?iM-a·na·h ?e·t-a-ku·š ka·-šu-hti-Y body-NOM.SUF. house-ART-ALL PAST-QT-go-PHR.TERM and naked he went to the house, so it is said.

Scene 2

- (11) "toMpišica 'copapkuk
 toM-piš-ic-a cop-?a-p-kw-k
 husband-2POSS-ERG-ART pluck-1OPT-2OBJ-AUX-CONN
 "Your husband [said] 'I will pluck you,
- (12) ?e·taku·š pa·htik
 ?e·t-a-ku·š pa·-hti-k
 house-ART-ALL 2OPT-go-CONN
 and if you go to the house,
- (13) tama·Lnišica hikaL to ·?a·wipšik
 tama·L-niš-ic-a hikaL-Ø to ·-?a·-wi-p-ši-k
 wife-1POSS-ERG-ART corn.drink-ABS pound-3OPT-AUX-2DAT-DAT-CONN
 my wife will pound corn drink for you,'

(14) ce'pa'wik ma'pa'hti," hišu'k
ce'-pa'-wi-k ma'-pa'-hti-Y hi-ši-w-k
fuck-2OPT-AUX-CONN FUTURE-2OPT-go-PHR.TERM say-QT-AUX-CONN
and you will fuck her, and go", he said,

- (15) kašišahkuk ka-ši-šahk^w-k PVB-QT-arrive-CONN and he arrived there,
- (16) hikaLe to šu šik
 hikaL-e n to ši w Ø-ši-k
 corn.drink-ART-ABS pound-QT-AUX-3DAT-DAT-CONN
 and she pounded that corn drink for him.
- (17) ce šu k
 ce -ši-w-k
 fuck-QT-AUX-CONN
 and he fucked her,
- (18) hikaLa šinakaY ka*šuhtį.
 hikaL-a-n ši-nakay-k ka*-šu-hti-Y
 corn.drink-ART-ABS QT-carry.on.back-CONN PAST-QT-go-PHR.TERM
 and carrying the corn drink on his back, he went, so it is said.

Scene 3

- (19) ?ohoti•nuhan ?olocelešukune ?ohoti•nuh-a-n ?olocele-šu-k^w-ne wildcat-ART-ABS be.noon-QT-AUX-WHEN Wildcat, when it was noon,
- (20) "šo·koLši·La nokoy?i•?ą," šo·koLši·L-a-n nok-?oy-?i--a-Y turkey-ART-ABS PVB-be.cooked-3PT-AUX-MOD-PHR.TERM

?ayšu·k, ?ay-ši-w-k think-QT-AUX-CONN "The turkey ought to be cooked," he thought,

(21) kašišahkuk, ka-ši-šahk^w-k PVB-QT-arrive-CONN and he arrived there,

- (22) "šo·koLši·Le· ?oy?i·yâ?" hišu·ne
 šo·koLši·L-e·-n ?oy-?i-·-yâ hi-ši-w-ne
 turkey-ART-ABS cooked-3PT-AUX-Q say-QT-AUX-WHEN
 and when he said. "Is that turkey done?"
- (23) "ma'na; 'toMpišica, "copapkuk
 ma'na'-Ø toM-piš-ic-a cop-?a-p-k"-k
 that.one-ABS husband-2POSS-ERG-ART pluck-1OPT-2OBJ-AUX-CONN
 "That one [said], 'Your husband [said] "I will pluck you,
- (25) tama·Lnišica hikaL to·?a·wipšik
 tama·L-niš-ic-a hikaL-Ø to·-?a·-wi-p-ši-k
 wife-1POSS-ERG-ART corn.drink-ABS pound-3OPT-AUX-2DAT-DAT-CONN
 and my wife will pound corn drink for you,
- (26) ce*pa*wik ma*pa*htį,
 ce*-pa*-wi-k ma*-pa*-hti-Y
 fuck-2OPT-AUX-CONN FUTURE-2OPT-go-PHR.TERM

hi?u·ca·,' hi?u·k
hi-?i-w-t-š-a·-Y hi-?i-w-k
say-3PT-AUX-1DAT-DAT-MOD-PHR.TERM say-3PT-AUX-CONN
and you will fuck her and go," he said to me,' he said,

- (27) ka[?]išahkuk ka-[?]i-šahk^w-k PVB-3PT-arrive-CONN and he arrived,
- (28) "hikaLe to yohšik
 hikaL-e-n to ya-w-Ø-ši-k
 corn.drink-ART-ABS pound-1PT-AUX-3DAT-DAT-CONN
 "I pounded that corn drink for him,
- (29) ce^{-?}inu·k
 ce^{-.?}i-ni-w-k
 fuck-3PT-1OBJ-AUX-CONN
 he fucked me.
- (30) hikaLe· ?inakaY ka·?ihti," hikaL-e·-n ?i-nakay-k ka·-?i-hti-Y corn.drink-ART-ABS 3PT-carry.on.back-CONN PAST-3PT-go-PHR.TERM

hišu·šik. hi-ši-w-Ø-ši-k say-QT-AUX-3DAT-DAT-CONN and carrying that corn drink on his back, he went," she said to him.

icene 4

- 31) kunahala kakatehšaL kunahal-a-Ø kaka-teh-š-al-k gun-ART-ABS PVB-take-QT-AUX-CONN He picked up his gun, and
- 32) "ta ho ca '?ihtî?" hišu k ta ho ca '?i-hti-Y hi-ši-w-k which-way 3PT-go-Q say-QT-AUX-CONN "Which way did he go?" he said,
- '3) "ya'ho'ca' ka'liti" hišu'šik,
 ya'-ho'ca' ka'-'i-hti-Y hi-ši-w-Ø-ši-k
 that-way PAST-3PT-go-PHR.TERM say-QT-AUX-3DAT-DAT-CONN
 "He went that way," she told him,
- 4) šuhtine šu-hti-ne QT-go-WHEN and when he went off,
- 5) ta·ca·N šo·koLši·La talu·?¡
 ta·ca·N šo·koLši·L-a-n talu·?i-n
 somewhere turkey-ART-ABS ones.who.are.many-ABS

we šukuk we -šu-k^w-k go.PL-QT-AUX-CONN somewhere there were many turkeys going about,

- i) hikaLa pakašankušine
 hikaL-a-Ø pak-ə-ša-n-k^w-Ø-ši-ne
 corn.drink-ART-ABS dip-PL/SG-QT-IMPF-AUX-3DAT-DAT-WHEN
 and while they were dipping up corn drink,
- ') lo'ya šampukušik lo'-ya-Ø ša-n-pu-ku-Ø-ši-k feather-ART-ABS QT-IMPF-PL-give-3DAT-DAT-CONN they were giving him feathers,

- (38) ?okšeneškuk ?ok-še-ne-šk^w-k stick.on-QT-IMPF-AUX-CONN and he was sticking them on,
- (39) kine ne š tu kune N ?okokopiš šupitik
 kine ne š tu kune N ?ok?okop-?iš šu-piti-k
 already several stuck.on.PL-3POSS QT-go.about-CONN
 and he was going about with several already having been stuck on.
- (40) ma·na·?i hal'iš ki·ššenlu·k
 ma·na·-?i-·-n ha-al-'iš ki·š-še-n-lu·-k
 that.one-PRT-be-ABS INDF-shoot-INF sneak.up.on-QT-IMPF-AUX-CONN
 and he [Wildcat] was sneaking up on him to shoot him,
- (41) ?iyo pošenkuk ?iyo p-a-se-n-kw-k move-PL-QT-IMPF-AUX-CONN and they were moving about,
- (42) hikaLa pakašankušik, hikaL-a-n pak-ə-ša-n-k^w-Ø-ši-k corn.drink-ART-ABS dip-PL/SG-QT-IMPF-AUX-3DAT-DAT they were dipping up corn drink
- (43) loʻya šampukušik
 loʻ-ya-Ø ša-n-pu-ku-Ø-ši-k
 feather-ART-ABS QT-IMPF-PL-give-3DAT-DAT-CONN
 and giving him feathers,
- (44) ?okšene*škuya ?ok-še-ne-*-šk"-ya stick.on-QT-IMPF-EMP-AUX-ART and he was really sticking them on,
- (45) ?okšene·škuya ?ok·še-ne··šk^w-ya stick.on-QT-IMPF-EMP-AUX-ART and he was really sticking them on,
- (46) ?okšene•škuya ?ok-še-ne-•šk^w-ya stick.on-QT-IMPF-EMP-AUX-ART and he was really sticking them on,

- (47) hacoko ša t hanšišu k ha-cok hart han-ši-ši-w-k INDF-know-INF-NEG make-QT-RFLX-AUX-CONN and he became unrecognizable,
- (48) ka·hekeLšukušį.
 ka·-hekeL-šu-k^w-Ø-ši-Y

 PAST-run.PL-QT-AUX-3DAT-DAT-PHR.TERM
 and they all ran away from him [Wildcat], so it is said.
- 3. Phonology. The consonantal phonemes of Natchez are listed in table 1; vowel phonemes in table 2.

TABLE 1. NATCHEZ CONSONANTS

STOPS	מ	ŧ	c		k	k^{ω}		2
	P	•	C	š	,,	70		7.
FRICATIVE				S				n
Resonants								
VOICED	m	\boldsymbol{n}	l	y		w	•	
VOICELESS	M	N	$oldsymbol{L}$	Y		W	h	

TABLE 2. NATCHEZ VOWELS

i u e ə o a

- **3.1. Segmental phonemes.** The stops /p/, /t/, /c/, /k/, and $/k^w/$ are voiceless, lenis, and unaspirated. The stop /c/ is phonetically [ts] (occasionally it is the result of the cluster $t\check{s}$); it has the allophone $[\check{c}]$, especially in word-final position.
- (49) ?o·ko ?aNkwahiši·wic [?o·ko ?aNkwahiši·wič] 'eleven'

Labialized k can undergo a number of changes in word-final and syllable-final position, based on word class. In nouns, k^w can be delabialized as the initial member of a consonant cluster, as in $hok\check{s}$ 'coals', a variant of $hok^w\check{s}$. In word-final position k^w is usually

unchanged, as in $kunahk^w$ 'crock'; however, in a few nouns (which may be deverbal) k^w becomes the sequence ku, as in peheku 'cloud', from the root /pehekw-/. When the diminutive suffix -i-'nuh is suffixed to a noun ending in k^w , the sequence $-k^wi$ - becomes ku as in $kunahk^w$ -i-'nuh 'crock' + 'diminutive' > kunahkunuh. On the other hand, in syllable- and word-final position in verbs, k^w always syllabifies as ku, as in ma 'pa'-ni-šku 'you will eat me' (7), from the root -uš k^w -. If there is an o in a preceding syllable, progressive vowel harmony operates and k^w surfaces as ko.

In initial position, the glottal stop is very weak. Has usually did not write it in her fieldnotes; in this paper, when a weak glottal stop needs to be pointed out, it will be written /'/. However, the glottal stop is quite distinct between vowels and after resonants, as in the following example.

(6) ?oy?a*k ?olocele?a*kine ?oy-?a-*-k ?olocele-?a*-ki-ne be.cooked-1OPT-AUX-CONN be.noon-3OPT-AUX-MOD 'When I am cooked at noon'

The glottal stop has several peculiarities. First, it occurs only in syllable-initial position. The occurrence of the glottal stop is unusual. Second, it has a tendency to disappear due to internal and external sandhi, as in the following example from the text line (39).

(50) [?]ok-[?]ok-kəp-[?]iš ['okokkopiš] 'his stuck on ones'

Third, the glottal stop, also restricted to consonants after which it occurs, is found only after resonants, including vowel length. Finally, when it does occur, the glottal stop strongly correlates with morpheme boundaries. Therefore, it is tempting to dismiss the glottal stop as merely a boundary phenomenon; however, the handful of apparently monomorphemic words such as kam^2eh 'huckleberry', koy^2ak 'onion', and pam^2oh 'hawkweed', and the replacement of a 'first person optative' with a in cannibal speech, suggest that the glottal stop was indeed at one time an independent phoneme that was in the process of attrition during the final years of the language.

There are two voiceless fricatives, $/\check{s}/$ and /h/; they occur in syllable-initial, medial-, and final- position. The phonetic value of \check{s}

is always [ʃ]; h occasionally has the allophone [x], as in ?uwah [?uwax] 'fire'. The consonant h appears again in table 1 as a voiceless resonant, as it also is the neutralization of the voiceless resonants W, M, and Y.

The voiced resonants consist of /m/, /n/, /l/, /w/, /y/, and $/\cdot/$ (vowel length). Except for vowel length, to be discussed below, these consonants occur in all word positions. The phoneme y is restricted in occurrence. Although it occurs syllable-finally, it never occurs word-finally, all word-final ys apparently having fallen together with Y.

Natchez vowel length is classified here as a consonant and given an independent orthographic symbol, since vowel length can represent a morpheme (e.g., -'- 'to be' and -'- 'plural subject [for independent verbs beginning with the segment p-]'), or segment away from the vowel preceding it (e.g., te-'kus-a' 'I want it'; te-teni-'kus-a' 'we two want it'). However, not all long vowels are organic. Some vowel length is produced by rule; for example, a vowel preceding a cluster consisting of a voiceless resonant and a stop is automatically lengthened.

(51) hackan hacka'Nc 'who? (absolutive)' who? (ergative)'

In addition, if two vowels come together across a morpheme boundary and glottal insertion does not take place, the vowels fuse as a long vowel.

(52) me'-haki'iš me-ə-ha-ki-'iš be.extinguished-PL.SJ-INDF-AUX-INF 'to be extinguished (plural subject)'

The voiceless resonants /M/, /N/, /L/, /W/, and /Y/ are pronounced phonetically [m], [n], [n], [n], [n], and [n]. As a late, secondary levelopment, /M/, /W/, and /Y/ may be found to have been replaced by h. Sometimes the original can be recovered, as in the examples in he following table.

TABLE 3. UNDERLYING VOICELESS RESONANTS

UNDERLYING FORM mi·M-hal?iš	SURFACE FORM mi*h-hal?iš	to the way (ag ai)'
mi-M-nai/is	mi-n-nai~is	'to throw (sg sj)'
mi•M-ə-hal ^ə iš	mi•mi-hal²iš	'to throw (pl sj)'
paW-helu ^{"?} iš	poh-helu•?iš	'to sew (sg sj)'
paW-ə-helu- ² iš	powa-helu•?iš	'to sew (pl sj)'

The voiceless resonants occur, as a whole, only in syllable-final position in a morpheme, but can occur intervocalically in a word. In such a case, a voiceless resonant will resyllabify as the onset of a syllable. There are three examples in monomorphemic words: /L/occurs syllable-initially in the word <code>Lepe*p-hal?iš</code> 'to flap', /W/occurs syllable-initially in the word <code>ka*Wih</code> 'coffee', and /N/occurs syllable-initially in the word <code>?eNel</code> 'branch'. The first two words are loans, the former from Creek or another Muskogean language (cf. Koasati <code>topopohli:cin</code> 'to make a flapping noise'), and the latter from French <code>café</code>.

Vowels do not occur in initial position, but are preceded by a weak glottal stop or any other single consonant. This weak glottal stop is strengthened if the word is preceded by prefix terminating in a vowel, e.g., ${}^{2}aYa \cdot t$ ['aYa \cdot t]' not taking'; $ka^{2}aYa \cdot t$ [ka \cdot aYa \cdot t]' not bringing'. Words ending in short vowels are uncommon, and ones ending in final /e/, /o/, and /u/ are quite rare. Final e seems to have disappeared by aphaeresis, since a number of consonant-final roots restore a final e under certain conditions, e.g., ${}^{2}ek^{w}el$ bones'; ${}^{2}ek^{w}ele$ -ya 'the bones'. A goodly number of words ending in short o and u consist of the sequence e0 and e1; all of these may well be underlyingly syllabified e2 (see above). Short vowels occur freely except that in monomorphemic words e3 does not occur before e4 and e5 and e6 and e7 and e8 onto occur before e9 and e9 a

Schwa occurs only in underlying representations of Natchez morphemes. It is a harmonizing vowel that takes on the quality of the vowel in the preceding syllable, as in examples (39) and (50) above. Occasionally, if vowel harmonization does not take place, schwa surfaces as u and occasionally as e. Schwa occurs in the morphemes -a- 'plural subject/singular object', -a-ha-- 'plural subject/plural object', -kap / -?ap 'participle', and in the verb root -panal- 'to shoot at'.4

Although nasal vowels occur in Natchez, they are not phonemes. They have two origins. In nouns, nasal vowels arise from sequences of vowel-n in word-final position; the n nasalizes the preceding vowel and is then deleted. In verbs, nasal vowels occur when word-final vowels are followed by the suffix -Y, which indicates that the sentence has come to an end. This suffix may originally have been n as well, with nasalization produced in the same way that it is produced in nouns.

- **3.2.** Accent. Accent in Natchez is based on pitch, rather than loudness (stress). There are four pitch contours: high, mid, rising, and falling, as shown in examples (53)–(55).
- (53) kúNà (3-1) (high-mid) kuN-a water-ART 'the water'
- (54) ?i·MšàLsik (3.4-1-1) (rising-mid-mid)
 ?i·M-ša-Lsi-k
 agree-QT-AUX-CONN
 'He agreed, so they say.'
- (55) $n\acute{e}c\grave{a}$ $h\^{u}$ (3-1 3.1) (high-mid falling) ne-c-a hu-N 3PRS-sit-MOD indeed-PHR.TERM He is indeed at home.'

Accent is entirely predictable, based on the shape of the word. In general, accent is on the penult in disyllabic words and in words where the vowel of the penult is long; otherwise it occurs on the antepenult. A short accented vowel carries a high pitch, while a long accented vowel usually carries a rising pitch. Unaccented vowels have mid pitch. Falling pitch is limited to certain morphemes. It occurs on the penultimate syllable of an imperative, whether or not the vowel is long, while a long vowel in a previous syllable in the same word takes rising pitch. Falling pitch occurs also on the interrogative affix $-y\hat{a}$. Finally, falling pitch occurs on exclamations, as in example (59), and on the emphatic $h\hat{u}$.

- (56) $tek^wep\hat{a}^*ki$ tek^we-pa^*-ki-Y sit.SG-2OPT-AUX-PHR.TERM 'Sit down!'
- (57) tekwepă tânki tekwe-pa tan-ki-Y sit.SG-20PT-DU-AUX-PHR.TERM 'Sit down, you two!'
- (58) tà acpace néciya neciya n
- (59) mâ*h šúlûh ma*h šuluh look! spider 'Look! A spider!'

Because of its predictability, Haas did not write accent in her publications, but did so consistently in her notes; in this sketch, only the falling accent will be written, since it is morphemic.

4. Morphophonology

- 4.1. Vowel cluster processes. When two vowels meet at a morpheme boundary, there are three possible outcomes. The first is glottal insertion, in which a glottal stop appears at the morpheme boundary. This occurs only when a vowel would cluster with vowel length. The second is vowel elision, where the second vowel elides the first vowel. The third is vowel fusion, where the two vowels fuse to form a long vowel. The following is an example of glottal insertion.
- (20) šo·koLši·Lą nokoy?i·?ą šo·koLši·L-a-n nok-?oy-?i--a-Y turkey-ART-ABS PVB-be.cooked-3PT-AUX-MOD-PHR.TERM "The turkey ought to be cooked.'

Vowel elision occurs when a morpheme ending in a short vowel, almost always *i*, is followed by a morpheme beginning with a vowel; the second vowel elides the first, as in the following example.

(60) pamwetehte*
pan-weti-eht-e*-Y
2PRS-die-FUT-FUT.CMPL-PHR.TERM
'You will certainly die.'

When two vowels meet across a morpheme boundary, and the first vowel is not i (except for ia and ii), and glottal insertion does not take place, vowel fusion occurs, yielding a long vowel with the quality of the first vowel.

- **4.2.** A-backing. In the speech of Watt Sam, the vowel a is backed to o before w in all cases (except in word-final position). This occurs much less frequently in the speech of Nancy Raven, as in the following example.
- (61) ka·hiyowa· (WS)
 ka·hiyawa· (NR)
 ka·-hi-ya-w-a·-Y
 PAST-say-1PT-AUX-INC-PHR.TERM
 'I said it.'

The vowel a is also backed to o before mp, and in the speech of Watt Sam, a is backed to o in the sequence aW, after which the voiceless resonant becomes h and the sequence surfaces as oh.

- **4.3.** Contraction of w. When the sequence -iw- occurs, it always collapses to u, as in the following example.
- (62) to *šu *šik ce *šu *k...

 to *-š-i-w-Ø-ši-k ce *-š-i-w-k

 pound-QT-3PT-AUX-3DAT-DAT-CONN fuck-QT-3PT-AUX-CONN

 'She pounded it for him, and he fucked her, and . . . '

This phonological change occurs before the rules of vowel contraction and resonant devoicing, since those rules treat the sequence u like any other root long vowel. The sequence aw becomes o in syllable-final position in the speech of Watt Sam.

4.4. Glottal deletion. When a morpheme beginning with a glottal stop is suffixed to a morpheme terminating in a consonant other than a resonant, the glottal stop is not pronounced. This is shown in examples (20), (39), and the following.

(11) copapkuk cop-?a-p-k^w-k pluck-10PT-20BJ-AUX-CONN 'I will pluck you.'

With certain glottal-initial suffixes, primarily the participial suffix -?ap, and the infinitive suffix -?iš, glottal deletion takes place after a vowel. In this instance vowel fusion occurs, as in /kaha-?əp/(white-PRT) kaha-p 'white'.

- **4.5.** Resonant devoicing. When a voiced resonant occurs in syllable-final position at a morpheme boundary followed by an affix beginning with a consonant, the voiced resonant is devoiced.
- (63) ?eLpa*taNnila.
 ?eL-pa*-tan-ni-l-a*-Y
 see-2OPT-DU-10BJ-AUX-INC-PHR.TERM
 'May you two look at me!'

If the morpheme is the connective suffix -k, the connective suffix disappears after the devoicing of the resonant, as in examples (28) and (64).

- (28) 'inakaY
 'i-nakay-k
 3PT-carry.on.back-CONN
 'He carried it on his back, and . . .'
- (64) takuN teca: ta-kun-k te-c-a*-Y 1PRS-swallow-CONN 1PRS-sit-INC-PHR.TERM 'I am sitting and swallowing.'

If a voiced resonant in morpheme-final position is followed by h, the resonant is devoiced, and the h disappears.

- (65) ?aYa*t
 ?i-ay-ha*t
 PRT-take-NEG
 'not taking'
- **4.6.** Voiceless resonant voicing. There are six morphemes that usually cause adjacent voiceless resonants to become voiced: nuh

'diminutive', -uh 'diminutive', -ə 'plural subject', -?əp 'participle', -?i-'participle', and -?iš 'his; her; its'.

(66)	toM 'person'	+	-*nuh DIM	>	tominuh 'child'
(67)	wa•Lt 'town'	+	-uh DIM	>	waltuh 'small town'
(68)	tuluM 'roll'	+	-ə PL.SUBJ	>	tulumu- 'roll over (pl)'
(69)	waY 'salt'	+	- ⁹ ap PRT	>	wayup 'salty'
(70)	kin?eL- 'watch'	+	-?i-al PRT-AUX	>	kin ⁹ elal 'watcher'
(71)	ayaM 'ax'	+	-?iš 3POSS	>	⁹ ayamiš 'his ax'

Occasionally these affixes do not induce voicing, for unclear reasons.

- 4.7. Vowel harmony. There are two kinds of vowel harmony in Natchez, regressive and progressive, with different domains. Regressive vowel harmony is optional, and appears in idiolectal variation between the two speakers. Progressive vowel harmony is obligatory, and is found in both speakers. This form of vowel harmony is illustrated in examples (72) and (73).
- (72) cuku·hu·cuk-o·hə·trot-PL
 'trot (plural subject)'
- (73) ²acpopo noh ²acpopopoh-nuh Irishman-DIM 'little Irishman'
- 4.8. I-epenthesis. When an impermissible two- or three-member consonant cluster is formed by any morphological process, i is inserted after the first consonant as in (74), or occasionally the second. If the impermissible cluster in a monomorphemic item

commences with a consonant cluster (including vowel length), -yi- is inserted, as in (75).

- (74) neca·line
 nec-?a·-l-ne
 laugh-3OPT-AUX-MOD
 'When she laughs at him . . .'
- (75) pe*yilcoko pe*-lcoko-Y 20PT-learn-PHR.TERM 'May you learn.'
- 5. Overview of Natchez. The two primary categories of Natchez words are nouns and verbs. Nominal in form are modifiers (adjective and adverb equivalents) and postpositions. Minor categories are the deictics, post-verbal particles, and interjections. Nominalization is a fairly powerful process, while verbalization is weak and of limited productivity.

The most striking feature of Natchez is its system of verbal inflection. There are two kinds of verbs, INDEPENDENT and DEPENDENT (termed INDEPENDENT and ACTIVE by Haas). Independent verbs are themselves inflected with all verbal prefixes and suffixes and have an invariant root. Dependent verbs do not take prefixes or suffixes and must be inflected by means of auxiliary elements, and on the whole have four different root shapes based on the number of the subject, the object, and the number of times an action is repeated. The vast majority of auxiliary elements, although in structure identical with independent verbs, do not occur alone, and in fact contribute semantically to the roots to which they are attached, as illustrated in the following table.

TABLE 4. THE DEPENDENT VERB ROOT TA*- WITH AUXILIARIES

VERB	GLOSS
ta•-haki²iš	'to stumble'
ta•-hal?iš	'to hit'
ta•-haw?iš	'to kill'
ta•-helahci?iš	'to pay'
ta•-heluši°iš	'to fire a gun'
ta•-helu °iš	'to play the ball game'
ta•-hetahnu•?iš	'to gather together'

Typologically, the syntactic structure of Natchez is typical of southeastern languages. There are two broad categories of verbs, active verbs, in which the usual subject prefixes indicate the actors, and stative verbs, in which the actor is cross-referenced by the elements that usually indicate direct objects or indirect objects. The unmarked word order is SUBJECT-OBJECT-VERB, and there is a simple system of reference indexing. There is a topicalizing particle that can be added to verb phrases, noun phrases, or verbal modifiers. Nominal and verbal modifiers, including postpositions, follow the words that they govern. There is an ergative-absolutive case system for nouns with a number of locative cases.

Natchez is a language isolate, with no known closely related languages. At a great time depth, perhaps parallel to that of Indo-European, it is related to the Muskogean language family (Haas 1956). The following is an example:

TABLE 5. A NATCHEZ-MUSKOGEAN RECONSTRUCTION

CREEK	fayhn-	'to flow'
Koasati	ho-fahna	'to flow'
Proto-Muskogean	*x ^w axna	
NATCHEZ	wa•N-ha•?iš	'to overflow'
Pre-Natchez	*wanxa	
NATCHEZ-MUSKOGEAN	*x ^w anaxa	'to flow'

Relationships to the other language isolates of the Gulf coast (Atakapa, Chitimacha, and Tunica) are problematic (Kimball 1994a).

- 6. Verbal morphology: Independent verbs and auxiliary elements.
- **6.1.** Components of the verb complex. Although Natchez has two kinds of inflected verb roots, independent and auxiliary, their structures are identical, consisting of at least thirteen ordered slots on either side of the root, as illustrated by the diagram below:

preverbs-subject-diminutive.subject-aspect-dual.subject-patient-patient.type-plural.subject-ROOT-dative.object-dative-new.topic-modal.suffixes-postverbs

It is not possible for all of these slots to be filled on any one verb or auxiliary; for example DUAL and PLURAL, and DIMINUTIVE SUBJECT and DIMINUTIVE OBJECT (a subclass of patient type) do not cooccur.

6.1.1. Independent verbs. There are approximately fifty independent verbs, covering many basic concepts such as hašku?iš 'to eat', hahkuši?iš 'to drink', hanol?iš 'to sleep', and so forth. Historically, the distinction between independent and dependent verbs (see section 7) appears to have been structurally based, with independent verbs having been vowel-initial and dependent verbs consonant-initial. In the attested stage of the language, these initial vowels have been almost wholly absorbed by the final vowels of the tense-mode prefixes; these vowels make sporadic appearance in participial or relict forms, as in 'ucoko (root -ucok'') 'knower', hacoko'iš 'to know', and 'eNu'šku' otter' ('eN'fish'; 'u'šku' eater'; root -ušk''), hašku'iš 'to eat'.

6.1.2. Auxiliary elements. These elements, which take the inflectional affixes for dependent verbs, are about forty in number. Although structurally identical to independent verbs, auxiliaries have been bleached of much of their meaning, so that when meanings can be assigned, they are more of the nature of 'transitive' (-hal'iš), 'intransitive' (-haki'iš), 'reciprocal' (-hetahnu'iš), 'causative' (-helahci'iš; -hekahci'iš), 'involuntary action' (-hekti'iš), or 'action in a stationary position' (-haci'iš). Only two auxiliary elements occur as independent verbs: ha'is 'to be' and haci'iš 'to sit'.

It is possible for an auxiliary to have up to four forms; a basic, an applicative (dative-benefactive), reflexive, and diminutive form, although only the transitive auxiliary has all four forms. The majority have only two, a basic and an applicative, while a few have only a basic form. The forms of the auxiliaries are listed in table 6.

TABLE 6. NATCHEZ AUXILIARY ELEMENTS

AUXILIARY	APPLICATIVE	REFLEXIVE	DIMINUTIVE
-haci ⁹ iš	-haciši ⁹ iš		
-haki ⁹ iš	-hakiši ⁷ iš		-hekti ⁷ iš
-haku ⁹ iš	-hakuši ⁹ iš		
-hal ⁹ iš	-haLši ⁹ iš	-hahšal ⁹ iš	-hatil ⁹ iš ⁶
-haw ⁹ iš	-haWši [?] iš	-hašu•?iš	

```
-ha-?iš
                       -ha·ši?iš
-heci?iš
-hekahci?iš
-hekti?iš
                       -hektiši?iš
-heku?iš
                       -hešku?iš
-helahci?iš
                       -helahciši?iš
-helku?iš
                       -helkušitiš
-helu-?iš
                       -helu·ši?iš
                                               -helšu•?iš
                                                                  -helilu·?iš
-heLti?iš
                       -heLtiši?iš
-heNci?iš
                       -heNciši?iš
-hešku?iš
                       -heškuši?iš
-hetahnu<sup>9</sup>iš
                       -hetahnu ši?iš
-heti*?iš
                       -heti · ši?iš
-hew?iš
                       -heWši?iš
```

It is notable that only three auxiliaries have reflexive forms, and only three have diminutive forms. A number of auxiliary elements are clearly related to each other; for example, from -heti-?iš are derived -hekti?iš and -heLti?iš by means of the formatives k and l; from -hew?iš are derived -heku?iš (-he<k>w-?iš), -helu-?iš (-hew-?iš), and -hetahnu-?iš (-he<tahni>w-?iš).

Reciprocal objects are indicated by the auxiliary -hetahnu-'iš, which replaces the regular auxiliary of the verb. Causatives are produced by -hekahci'iš replacing k-based auxiliaries (e.g., -haku'iš, -haki'iš, and -hekti'iš) and -helahci'iš replacing all other auxiliaries.

6.2. Preverbs. There are at least five classes of preverbs, which tend to maintain a relative order among themselves. However, since more than two preverbs rarely cooccur it is not possible to tell whether the ordering is rigid or fluid. The following is a list of the preverb classes, from outermost to innermost:

I. TEMPORAL

ma 'future' ka 'past' ya 'pluperfect'

II. ABILITATIVE

nok 'can'

?iš 'can't; won't'
nuk 'making a characteristic noise'

miNt 'in such a way'

III. DIRECTIONAL

ca·k 'go and do' cu·š 'beyond' ma·št 'after'

IV. LOCATIVE

ka locative'
kaka 'back again'
hanah 'around'
ma' 'there (far)'
ya' 'there (near)'
ka' 'bere'

V. INCORPORATED NOUN8

kin 'something' ?iško'š 'nothing' tah 'someone'

The temporal preverbs seem to be grammaticalizations of the deictics ma^* 'that (far)', ka^* 'this', and ya^* 'that (nearby)'. Numerous examples of temporal preverbs occur elsewhere in this sketch.

The first three abilitative preverbs are freely added to verbs. The preverb *nuk* is semantically problematic. It is used to indicate not only sound, but also bright color and sudden movement; its purpose seems to be to stimulate the listener to imagine some striking perceptual feature about an action, and thus to enrich the meaning of a text.

(76) nokkinhantawa* nok-kin-han-ta-w-a*-Y PVB-STH-make-1PRS-AUX-INC-PHR.TERM

PVB-STH-make-1PRS-AUX-INC-PHR.TERM 'I can work.'

(77) ?ištahtakušį ?iš-tah-ta-ku-Ø-ši-Y PVB-SO.-1PRS-give-3DAT-DAT-PHR.TERM 'I can't give it.'

(78) nuktiti*tšanaL kaki*ššuku*Nkę*.
nuk-titi*t*ša-n-al-k ka-ki*š-šu-ku-*Nkę*

PVB-pitter-QT-IMP-AUX-CONN PVB-crawl.back-QT-AUX-MOD

'He [Skunk] made a pitter-pattering sound as he kept on crawling backward there.'

```
-ha•?iš
                      -ha·ši?iš
-heci?iš '
-hekahci?iš
-hekti?iš
                      -hektiši?iš
-heku?iš
                      -hešku?iš
-helahci?iš
                      -helahciši?iš
-helku?iš
                      -helkušitiš
-helu•?iš
                      -helu ši?iš
                                             -helšu-?iš
                                                                -helilu-?iš
                      -heLtiši?iš
-heLti?iš
-heNci?iš
                      -heNciši?iš
                      -heškuši?iš
-hešku?iš
-hetahnu ?iš
                      -hetahnu *ši?iš
-heti•?iš
                      -heti·ši?iš
-hew?iš
                      -heWši?iš
```

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ka' bere'

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(78) nuktiti tšanaL kaki ššuku Nkę:
nuk-titi tša-n-al-k ka-ki š-šu-ku-Nkę

PVB-pitter-QT-IMP-AUX-CONN PVB-crawl.back-QT-AUX-MOD

He [Skunk] made a pitter-pattering sound as he kept on crawling backward there.'

mark toM ?ertkanacine,
 mark toM ?ertkanacine
there person enter.SG-3PRS-AUX-MOD

miNtha·watnaki.
miNt-ka·-wat-na-ki-Y
PVB-here-disappear-3PRS-AUX-PHR.TERM
When a person enters there, he disappears in such a manner from here.'

Among the directional preverbs, note that there is a preverb only 'to go and do'; the corresponding concept 'to come and do' is ndled by the general locative preverb ka-.

- oa:kkinki:ši?elu: ca:k-kin-ki:š-a-?e-lu: PVB-STH-hunt-PL/SG-10PT-AUX 'Let us go and hunt something!'
-) walakšehak holohšukuk curškošurk walakšeh-a-k holoh-šu-ku-k curš-ko-ši-w-k post-ART-LOC climb.SG-QT-AUX-CONN BEYOND-pass-QT-AUX-CONN 'It climbed up on a post, and passed beyond.'

The locative preverbs are very frequent, especially ka, which has meanings 'in', 'at', 'on', 'out', 'on the ground', and 'coming'. The ee deictic preverbs in this slot, ma, ya, and ka, are phonoically identical with the temporal preverbs, but appear in a ferent location, and unlike the temporal preverbs are not restricted verbs of the proper tense/mode. The following examples will strate the use of ka, kaka, and hanah.

?uktuLe* kašošu*k kašaY
?uktuLe*-Ø ka-šo-ši-w-k ka-š-ay-k
eye-ART-ABS PVB-look.for-QT-AUX-CONN PVB-QT-take-CONN

ka'kakašukušą
ka'-kaka-šu-ku-Ø-ši-Ÿ
PAST-PVB-QT-give-3DAT-DAT-PHR.TERM
'He looked for those eyes there, brought them, and gave them back to her.'

(83) hanaheLšaine, ya'ktiši š holi'šu'k
hanah-?eL-š-ai-ne ya'ktiši š holi'-šu-'-k
PVB-see-QT-AUX-MOD here.and.there lie.PL-QT-AUX-CONN
When she looked around, they were lying here and there.'

The incorporated noun is primarily used to detransitivize a verb. This function is further reflected in the fact that a transitive verb, which normally requires its subject to be marked with the ergative case, when used with an incorporated noun requires its subject to be marked with the absolutive case. The preverb kin is used when the object is nonhuman, tah when the object is human or anthropomorphized, and ?iško·š when the object is negated. Examples (76) and (80) illustrate the use of kin, while (84) and (85) illustrate ?iško·š and tah.

- (84) ?iško·štehtešku ?iško·š-teh-te-šku-Y NOTHING-do-1PRS-AUX-PHR.TERM 'I can do nothing.'
- (85) ?aškahc tahkolo:nelkuk, ?aškah-c tah-kolo-a-ne-lku-k fanner-ERG SO.-cover-PL.SJ-3PRS-AUX-CONN

tahuwahanelu-šie. tah-?uwah-a-ne-lu--Ø-ši-k SO.-afire-PL.SUBJ-3PRS-AUX-3DAT-DAT-CONN 'They cover one with a fanning basket, and they set fire to one.'

6.3. Subject. The subject pronominal tense/mode prefixes are shown in the following table:

TABLE 7. TENSE/MODE PREFIXES

	a-SET	e-SET
INDEFINITE		
Ø	ha-	he-
PRESENT		
1	ta-	te-
2	pan-	pen-
3	na-	ne-

סו		Natchez
AST		
1	ya-	ye-
2	ya- pi-	ye- pi-
3	?i-	?i-
TATIVE		
1	⁹ a-	?e- pe*- ?e*-
2	?a- pa*-	pe
3	?a•-	?e•-
RTICIPIAL		
Ø	?i-	γ_{i} -
ARSAY		
3	ša-	še-

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The choice of the a-set or e-set is lexically determined; i.e., certain its always occur with a-, while others always occur with e-storically the vowel of the prefixes seems to have been part of the it; there are traces of u-initial roots, which are now inflected with a-set, and i-initial roots, now inflected with the e-set.

The interaction of the tense/mode prefixes with verb roots is strated below, using the independent a-set verb root /- $hku\check{s}i$ -/ nk' and independent e-set verb root /- $lcok^w$ -/'learn'. Note that the penthesized second person singular forms in both paradigms have lergone progressive vowel harmony. Note also that i-epenthesis s not take place in the optative of $hahku\check{s}i$ 'iš, but does in the ative of helcoko'iš.

LE 8. INFLECTION OF A- AND E-SET VERBS

EFINITE	'to drink' <i>ha-hkuši-⁹iš</i>		
SENT	'I drink, etc.' SINGULAR ta-hkuš-ą· pana-hkuš-ą· na-hkuš-ą·	DUAL ta-tani-hkuš-ą· pan-tani-hkuš-ą· na-tani-hkuš-ą·	PLURAL ta-pi-hkušą• pam-pi-hkuš-ą• na-pi-hkuš-ą•

PAST	'I drank, etc.'		
	SINGULAR	DUAL	PLURAL
1	ya-hkuš-ą•	ya-tani-hkuš-a •	ya-pi-hkuš-ą •
2	pu-hkuš-ą •	pa-tani-hkuš- a •	pu-pi-hkuš-ą•
3	?i-hkuš-ą•	?i-tani-hkuš-ą•	²i-pi-hkuš-a•
OPTATIVE	'May I drink;	let me drink!; I will d	rink, etc.'
	SINGULAR	DUAL	PLURAL
1	⁹ a-hkuši	⁹ a-tani-hkuši	⁹ a-pi-hkuši
2	pa•-hkušą	pa•-tani-hkuši	pa•-pi-hkuši
3	?a•-hkuši	?a∙-tani-hkuši	⁹ a∙-pi-hkuši
PARTICIPIAL	'drinking; dru	nk'	
Ø	?i-hkuši		
INDEFINITE	'to learn'		
Ø	he-lcoko- ⁹ iš		
Present	'I learn, etc.'		
	SINGULAR	DUAL	PLURAL
1	te-lcok ^w -ą •	te-teni-lcok ^w - ą •	te-pi-lcok ^w -a•
2	pene-lcok ^w -a•	pen-teni-lcok ^w - ą •	pen-pi-lcok ^w - a •
3	ne-lcok ^w -a •	ne-teni-lcok ^w - a •	ne-pi-lcok ^w -ą •
PAST	'I learned, etc.	ı	
	SINGULAR	DUAL	PLURAL
1	ye-lcok ^w - a •	ye-teni-lcok ^w - a •	ye-pi-lcok ^w - a •
2	pi-lcok ^w -a∙	pi-teni-lcok ^w - a •	pi-pi-lcok ^w -a•
3	?i-lcok ^w -a ·	?i-teni-lcok ^w -a∙	²i-pi-lcok ^w -a•
OPTATIVE	May I learn, l	et me learn!; I will le	arn, etc.'
	SINGULAR	DUAL	PLURAL
1	[?] e-lcokǫ	⁹ e-teni-lco kǫ	⁹ e-pi-lcoko
2	pe•yi-lcoko	pe -teni-lcoko	pepi-lcoko
3	⁹ e yi-lcokç	?e∙-teni-lcokǫ	²e∙-pi-lcoko
PARTICIPIAL	'learning; lear	ned'	
Ø	?i-lcoko		

Auxiliary elements are inflected in the same manner, with the exception of the plural, which is marked on the verb root to which the auxiliary is attached, and not on the auxiliary verb itself (see section 6.2 below).

The quotative prefix, which seems to be underlyingly \check{si} -, cross references a third person subject in the past, and indicates that the action performed by the subject is reported by hearsay and not by the experience of the narrator. Furthermore, it is used on every past tense verb in a text unless such a verb is in quoted speech. The quotative prefix has a number of alternants: \check{sa} - and \check{se} - occur only before the imperfect aspectual affix -n-, \check{s} - occurs before vowels, \check{si} - occurs before most consonants, and \check{su} - occurs before labials. The following are examples of the quotative affix occurring on roots and auxiliary elements; although it frequently occurs in other examples in this sketch, only here is it fully translated.

(15)- kašišahkuk hikaLe (18) ka-ši-šahku-k hikaL-e-n

PVB-QT-arrive.SG-CONN corn.drink-ART-ABS

to·šu šik ce·šu·k
to·-ši-w-Ø-ši-k ce·-ši-w-k
pound.SG/SG-QT-AUX-3DAT-DAT-CONN fuck.SG/SG-QT-AUX-CONN

hikaLa šinakaY ka·šuhti
hikaL-a-n ši-nakay-k ka·šu-hti-Y
corn.drink-ART-ABS QT-carry-CONN PAST-QT-go.SG-PHR.TERM
'It is said that he arrived and she pounded that corn drink for him, and he fucked her, and carrying the corn drink on his back, it is said that he went off.'

The diminutive subject prefix has the form -it- and the variant -iti- formed by i-epenthesis. It occurs rarely in the data; simple smallness does not regularly trigger its use, and the conditions of its use are unclear. It is phonologically unusual in that it has a strong initial i-; i.e., in natural texts as opposed to lexical elicitation, the i replaces the vowel of the preceding person prefix.

(86) ma'ka'wah kašitpitine, ?ele'nah ma'ka'wah ka-š-it-piti-ne ?ele'nah right.there PVB-QT-DIM.SJ-walk-MOD right.then šoʻkoLkalapkupeʻ kašišahkuk šoʻkoLkalapkup-e'-n ka-ši-šahku-k great.hawk-ART-ABS PVB-QT-arrive-CONN

ka-ko-ši-lahci-Y
PVB-take.off-QT-AUX-PHR.TERM
'At that place the little one was walking, and right then that Great
Hawk arrived there and took him off.'

(87) necnitila:
nec-n-iti-l-a:-Y
laugh-3PRS-DIM.SJ-AUX-INC-PHR.TERM
'A little one is laughing at something.'

kakošilahci

6.4. Aspect. Three affixes occupy the aspect slot, -*n*-'imperfect', -šə-'pluperfect', and -šen-'ought'.

The imperfect affix -n- was recorded only in combination with the third person hearsay prefix $\check{s}i$ -. The complex $\check{s}i$ -n- is realized as $\check{s}an$ -for a-root verbs and $\check{s}en$ - for e-root verbs. These realizations have i-epenthesized forms in the proper environment, and these also undergo vowel harmony to produce $\check{s}ana$ - and $\check{s}ene$ -. The imperfect indicates that an action was in progress during the past, but does not indicate whether or not the action was completed. The following is an example.

(36)– hikaLa pakašankušine, (38) hikaL-a-Ø paka-ša-n-ku-Ø-ši-ne corn.drink-ART-ABS dip.PL/SG-QT-IMP-AUX-3DAT-DAT-MOD

loʻya šampukušik loʻ-ya-Ø ša-n-pu-ku-Ø-ši-k feather-ART-ABS QT-IMP-PL-give-3DAT-DAT-CONN

?okšeneškuk
?ok-še-n-šku-k
stick.on-QT-IMP-AUX-CONN

'As they were dipping up the corn drink, they were giving him feathers, and he was sticking them on himself.'

If there is a rhetorical emphasis on the action taking place in the imperfect, the final vowel of the i-epenthesized form is lengthened, as in the following example.

stick.on-QT-IMP.EMP-AUX-ART stick.on-QT-IMP.EMP-AUX-ART

Pokše**ne·**škuya, hacoko·ša·t hanšišu·k Pok-še-ne·-šku-ya hacok^w-Piš-ha·t han-ši-šu·-k

stick.on-QT-IMP.EMP-AUX-ART know-INF-NEG become-QT-AUX-CONN

He was sticking them on, and sticking them on, and sticking them on, and he became unrecognizable.

The pluperfect affix - \check{so} - requires the use of the preverb ka^* - and the past tense form of the verb. The form of the affix in the first person is - \check{se} - or - \check{sa} - depending on whether the verb is e-root or a-root; in the other persons - \check{so} - surfaces as \check{si} -, unless there is a u or a p in a following syllable, when it surfaces as - \check{su} -. The following paradigm of $haku\check{si}$ ' $i\check{s}$ 'to give' illustrates this affix.

TABLE 9. INFLECTION OF A VERB WITH THE PLUPERFECT

	ka•yaši	akušą 'I had given to him',	etc.
	SINGULAR	DUAL	PLURAL
1P 2P 3P	ka•-ya-ša-kušį ka•-pa-šu-kušį ka•-šu-kušį	ka•-ye-ša-tan-kušį ka•-pa-ši-tan-kušį ka•-ši-tan-kušį	ka*-ye-ša-pu-kušį ka*-pa-šu-pu-kušį ka*-šu-pu-kušį

The affix -šen- 'ought' requires the use of the preverb ya' and the present tense stem of the verb. Paradigmatic examples of this affix are not consistent, with only the preverb occurring in some cases. This affix may be a compound of -šə- 'pluperfect' and -n- 'imperfect'.

6.5. Number and object. Dual subject is marked by the affix -tan-. It has two basic harmonizing forms: -tan- for a-root verbs and -ten-for e-root verbs. There are further alternants, consisting of a set with i-epenthesis, -tani- and -teni-, occurring before resonants and vowel length, an assimilated set, -tom- and -tem-, found before the labials w and p, a reduced set, -ta*- and -te*-, used before consonant clusters, and a devoiced set, -taN-/-taM- and -teN-/-teM-, which occur before c and the patient affixes -ni-and -pi-. Examples of dual subject are illustrated in the paradigms in tables 8 and 9.

The object pronominal prefixes are marked only for person, not number. Plurality is marked on the verb in one of two ways, depending on the nature of the verb. In independent verbs plural objects are indicated by the affix - pi-, and in dependent verbs by root shape. The object affixes are shown in table 10 and example (5).

TABLE 10. THE DIRECT OBJECT AFFIXES

1P	Normal	I-EPENTHESIZED	
2P 3P	-p- -Ø-	-pi- 1-	
		·	

(5) tama·Lpišica ta·?a·niL tama·L-piš-ic-a ta·-?a·-ni-l-k woman-2POSS-ERG-ART kill-3OPT-2OBJ-AUX-CONN

> ?uwahle?a·niL ?uwahle-?a·-ni-l-k cook-30PT-20BJ-AUX-CONN Let your wife kill me and cook me, and

Two affixes occupy the object type slot and indicate further information about the object. These are -pi-plural object/dative and -li-diminutive object.

The affix -pi-'plural object/dative' is used only with independent verbs and indicates that the object of the action is plural; examples are in table 7. Note the following combinations of this affix and the object pronominal affixes: -Npi-(1pl obj), -'ppi-(2pl obj), and -'pi-(3pl obj).

The compound affix - 'pi-pi- 'plural object-plural subject' marks idiomatically a plural dative or benefactive object, as in (88).

(88) na•pipi·kwaLcik ka•na
na•pi-pi-·kwaL-t-ši-k ka•na
3PRS-PL.OBJ-PL.SJ-devour-1DAT-DAT-CONN emphatic
'He devours them on us!'

In fact, there are no examples of independent verbs with plural subjects and plural objects, and on several occasions Watt Sam explicitly stated that there was no way to construct them.

The affix -li- 'diminutive object' is used with both independent verbs and the auxiliary elements of dependent verbs to indicate that the object of an action is small. Note that plurality and diminution are mutually exclusive for independent verbs; for dependent verbs, the reduplicated plural stem, which usually refers to a plural subject acting on a plural object, is used to mark the plural of a diminutive object. This is strikingly similar to the way that such verbs mark the plurality of dative-benefactive objects. The object combinations for the diminutive are -Nli- (first person), -pli- (second person), -li- (third person). Like the diminutive subject, the diminutive object affix is not regularly triggered by the small size of the verbal object, and the exact conditions for its use are not clear. The following is an example.

(89) pehe hene Nlik a peh-a ha nen-li-k a loss a peh-a ha nen-li-k a loss a los a loss a loss

The prefix -pi- 'plural subject' occupies the slot immediately before the root. At present, its use is limited to independent verbs, although the fact that it is found with auxiliaries used on the verbs hi-haw'iš 'to say' and i'šciši-hešku'iš 'to swear' indicates that it was once used by the auxiliary elements as well. This affix has several alternants: -p- before vowel-initial roots; -pu- before w and roots with the vowel u, and vowel length before p-initial roots. In addition, the alternant -'pi- occurs with a number of verb roots without any clear conditioning factors.

- (90) pampukuna·
 pan-pu-kun-a·-Y
 2PRS-PL.SJ-swallow-INC-PHR.TERM
 'You all are swallowing it.'
- (91) pene penela pene-penela Pene-penela Pene-Y 2PRS-PL.SUBJ-shoot-INC-PHR.TERM You all are shooting at it.'
- **6.6.** Dative and new topic. The dative-benefactive object is indexed by a suffix that immediately follows the verb root and is always followed by the dative suffix $-\check{s}i$. The dative-benefactive affixes, like the object affixes, are marked only for person, not

number; plurality is marked on the verb. Any possible ambiguity is resolved by a hierarchy in which plural marking is considered to refer first to the dative, then to the subject, and last to the object, as in (92). The dative affixes are given in table 11; note that the sequence -t-ši-(1DAT.OBJ-DAT) is always realized as -ci-.

TABLE 11. INDIRECT OBJECT AFFIXES

		I-EPENTHESIZED	WITH DATIVE SUFFIX
1P	-t-	-it-	-ci- / -ici-
2P	-p-	-pi-	-pši- / -piši-
3P	-Ø-	[-	-ši-

(92) ma'le'he'pa'licu ma'-le'he'-pa'-l-it-ši-u-Y FUTURE-leave.PL/PL-2OPT-AUX-1DAT-DAT-MODAL-PHR.TERM You will leave it for us.'

The affix $-\check{s}u$: 'new topic' is used to mark a sentence that introduces a new topic. It always cooccurs with the modal affix -ne 'when', as in example (93), and is frequently found at the beginning of a narrative.

- (93) toM heMkup šeNcišu*ne,
 toM heMkup še-n-ci-šu*-ne
 person widowed QT-IMP-dwell.SG-NEW.TOP-MOD
 Now, it is said that there was once a widowed person dwelling there,
 and'
- **6.7.** Modal suffixes. There are a number of modal suffixes that follow the verb root. These occur in four slots; suffixes of the same slot do not cooccur with each other.

SLOT I SUFFIXES

-k	'and'
-?iš	'infinitive'
-eht-	'future'
-(ya)miNt-	'still'
Nke -	keep on'
-hno ka -~-Nno ka ·	'might'

```
SLOT II SUFFIXES
    -ha-t ·
                           'negative'
    -?i
                           'completive'
    -8°
                           'incompletive'
                           'future completive'
    -e•
    -ke/-kke/-?ike
                           'habitual'
SLOT III SUFFIXES
    -uh-
                           fust barely'
                           'diminutive'
    -•nuh
SLOT IV SUFFIXES
    -Y
                           'phrase terminal marker'
    ٠Ÿ
                           'interrogative'
    -kan
                           but'
                           'when'
    -ne
    -yâ
                           'interrogative'
    -(v)a·nah
                           'certain to: nothing but'
    -vo'kon ma'na
                           'perhaps'
```

focus'

-o·k

6.7.1. Slot I modal suffixes. The suffix -k indicates that another action is about to follow that of the action of the verb to which it is suffixed. It does not indicate coreferentiality or lack thereof in the subjects of the two verbs. Examples of -k can be found in the text in (15)–(18) and in (40), as well as elsewhere.

The suffix -?iš derives the infinitive, basically a nominal form (see section 9.3). There are two types of infinitives, the impersonal and the personal. The impersonal infinitive is constructed with the indefinite subject prefix ha- for a-set verbs and he- for e-set verbs; the personal infinitive can be constructed from any verb inflected in the present tense. Both types can have overt direct object suffixes. As verbs, impersonal infinitives are used in constructions where the person of the subject of the infinitive is carried on another verb, such as in constructions with he-kuši?iš 'to want to'. The personal infinitive is used in constructions where an impersonal verb (such as mayke-h 'to be able', mayke-ha-t' to be unable', and nekeh 'ought to') governs an infinitive.

(40) ma·na·?i hal?iš ki ššenlu·k.
ma·na·-?i-n ha-al-?iš ki š-še-n-lu·-k
that.one-PRT-be-ABS INDF-shoot-INF sneak.up.on-QT-IMPF-AUX-CONN
That very one was sneaking up on him in order to shoot him.'

(94) kakatehtapil'iš mayke ha t kaka-teh-ta-pi-l-'iš mayke ha t PVB-pick.up.SG/SG-1PRS-2OBJ-AUX-INF be.unable

a· hû·
a·-Y hû·
be.AOR-PHR.TERM emphatic
T am indeed unable to pick you back up.'

The suffix -eht-'future' is used almost entirely with present tense verbs, although its referent is always future. It differs semantically from the optative future (ma^* + optative) in that the action to which it refers is considered certain to occur, not just merely likely. The suffix -eht- almost always cooccurs with $-e^*$ 'future completive'.

(95) kweNa'ya cohna'?ehte' kweNa'ya coh-na-'-eht-e'-Y tomorrow dry-3PRS-AUX-FUT-FUT.CMPL-PHR.TERM 'It will dry up tomorrow.'

The suffix -(ya)miNt-'still' has the form -amiNt after consonants, -miNt after long vowels, and -yamiNt after short vowels. Note that with a negative verb, this suffix means 'before', as in example (97).

- (96) hapu'miNt
 hap-i-w-miNt
 bite-3PT-AUX-MOD
 'It was still biting her.'
- (97) wita ?išahkuša·t a·miNt wit-a ?i-šahkuš-a·t a·-miNt day-ART PRT-arrive-NEG be.AOR-MOD 'Before the day arrived...'

The modal suffix with the meaning keep on' exhibits the form - 'Nke' after vowels and -Nke' after consonants.

(98) hoʻkšukuk šici*Nkę·
hoʻk-šu-ku-k ši-ci-*Nke·-Y
whistle-QT-AUX-CONN QT-sit.SG-MOD-PHR.TERM
'He kept on sitting and whistling.'

The extremely rare suffix -hno 'ka' - ~ -Nno 'ka' 'might' may be composed of an element -hno 'k- / -Nno 'k and -a' incompletive'.

(99) [?]uštnapil[?]iš mayke⁻?iNno⁻ka⁻ [?]ušt-na-pi-l-[?]iš mayke⁻-?i-Nno⁻ka⁻-Y sick-3PRS-2OBJ-AUX-INF can-CMPL-MOD-PHR.TERM 'It might be able to make you sick.'

6.7.2. Slot II modal suffixes. The suffix -hart 'negative' is added to participles, infinitives, and occasionally nouns to form negative participles and negative infinitives. A full discussion of negation is found in section 12.7.

The suffix -?i 'completive' indicates that the action of the verb has been completed. Although usually found with the past tense, it is not necessarily limited to that tense.

(100) ka'ta'yašal'i ka'-ta'-ya-ša-l-'i PAST-hit-1PT-PLPF-AUX-CMPL 'I have hit him.'

The suffix -a' incompletive' indicates that the action of the verb is (or was) still in progress. Note that the incompletive can be used with the past tense. In this example the action of bringing forth is located in the past, since the action was observed in the past; however, since the action is projected to continue to occur in the future, the incompletive modal suffix is used.

(101) cikilu*k kawete*tala*
cik-?i-lu*-k ka-wete*t-?i-al-a*-Y
defecate-3PT-AUX-CONN PVB-take.out-3PT-AUX-INC-PHR.TERM
'She brought it (corn) forth by defecating it.'

Other examples of the suffix can be found elsewhere in this sketch.

The suffix -e'- 'future completive' is used to indicate that the action of the verb to which it is attached will be completed in the future. It, like the modal -eht-, is used only with present tense verbs, never with optative verbs. When used alone, -e' indicates a bald statement of future completion of an action, as opposed to -eht-, which always has a more emphatic sense.

102) kwenaya kwaLnelu*?e*
kwena*ya kwaL-ne-lu*-e*
tomorrow rise-3PRS-AUX-FUT.CMPL
"The sun will rise tomorrow.'

(103) "tašk"e·" ?aynowa.

ta-šk"-e·- Y ?ay-na-w-a

1PRS-eat-FUT.CMPL-PHR.TERM think-3PRS-AUX-INC
"I will eat him." he is thinking.'

The rare suffix -ke- / -kke-/ -?ike- indicates that an action taking place in the past was habitual. Watt Sam clearly indicates that the last two variants can occur in the same environment and have the same meaning; the first variant is post-consonantal.

(104) pu'hyohkę
pu'h-ya-w-ke-Y
blow-1PT-AUX-HAB-PHR.TERM
'I habitually blew.'

- **6.7.3.** Slot III modal suffixes. The suffix -uh- is added to negative infinitives and negative participles to indicate that an action is just barely occurring. It is clearly related if not identical to the nominal diminutive suffix -uh (see section 9.1.).
- (105) kakana šilkuk kathal²iša tuh ka-kan-ə - ši-lku-k kat-ha-al-²iš-ha t-uh PVB-hook-PL/SG-QT-AUX-CONN slip-INDF-AUX-INF-NEG-MOD

katšaL kaci šukuk kat š-al-k ka-ci šu-ku-k

slip-QT-AUX-CONN PVB-fall-QT-AUX-CONN
"They hooked it: it was just barely slipping, and it slip

"They hooked it; it was just barely slipping, and it slipped and fell to the ground."

In combination with the suffix -neke- (which usually occurs with nouns in the meaning 'like unto') -uh- indicates that the action is taking place to such a small extent that it is almost not occurring.

(106) ?ihta*tuhnekę ?i-ht-a*t-uh-neke-Y PRT-go-NEG-MOD-CMPR-PHR.TERM 'He was almost not moving.'

The suffix - nuh, which is identical to the diminutive suffix used on nouns (see section 9.2), indicates that the action has only just started, or increased a small amount in intensity.

(107) ?uwahlešalne, ?inahan lokšuku **nuh**?uwahle-š-al-ne ?inahan lok-šu-ku-nuh
stew-QT-AUX-MOD and.then boil-QT-AUX-DIM
'When she stewed it, then it was just boiling.'

6.7.4. Slot IV modal suffixes. The suffix -Y indicates that a sentence has been completed. While this suffix is not required at the end of every sentence, this is the only place it can occur. Examples of this suffix can be found in the text at (7), (10), (14), and elsewhere.

The interrogative suffix $-\hat{y}$ seems to be a combination of the phrase terminal marker and the falling intonation that marks the interrogative suffix $-y\hat{a}$. This suffix seems to mark unemphatic questions.

(32) "ta·ho·ca· ?ihti?" hišu·k
ta·-ho·ca· ?i-hti-ŷ hi-ši-w-k
which-way 3PT-go-Q say-QT-AUX-CONN
"Which way did he go?" he said.'

The suffix -kan 'but' indicates that despite the action of the verb that it modifies, another action is taking place, or will take place.

(108) ma·k ²ino· šeNcikan kaci·²ika·t
ma·k ²ino· še-n-ci-kan ka-ci·-²i-k-a·t
there under QT-IMP-sit-MOD PVB-fall-PRT-AUX-NEG
'He was sitting under there, but they (the fruits) did not fall down.'

The suffix -ne 'when' is used to indicate that the action of the verb that it modifies occurs immediately before another action, sometimes with a causal relation between the two actions, and sometimes without.

(6)- olocele²a·kine, pa·šahkuk
 (7) ²olocele-²a·ki-ne pa·šahku-k
 be.noon-3OPT-AUX-MOD 2OPT-arrive-CONN

 $ma^*pa^*ni\check{s}k^{\mu}$ $ma^*-pa^*-ni\overset{\circ}{s}k^{\omega}-V$ FUTURE-20PT-10BJ-eat-PHR.TERM When it is noon, you will arrive and you will eat me.'

The suffix $-y\hat{a}$ is used to indicate that a question is being asked. As with the suffix $-\hat{Y}$, falling intonation is associated with this kind of interrogative.

(109) paca·hanaLpišiyâ
pac-ə·hə·-na-l-pi-ši-yâ
hang.up-PL/PL-3PRS-AUX-2DAT-DAT-Q
'Is he hanging it up for you all?'

The suffix -(y)a nah 'certain to; all the time', underlyingly /-a naN/, is the same as the nominal suffix of the same form, -a nah 'nothing but' (see section 9.2). Suffixed to nominalized verbs, such as the infinitive in example (110), it always means 'certain to'; with inflected verbs it can sometimes mean 'all the time', as in example (111).

(110) "kakahaci" iša nah a;" ka-ka-ha-ci-iš-a nah a-- Y PVB-go.in-INDF-AUX-INF-MOD be.AOR-PHR.TERM

> hišanoh hiša-n-a-w-k say-QT-IMP-3PT-AUX-CONN "One is certain to fall in," he was saying."

(111) nukšeknaWšiya•nah nuk-šek-na-w-Ø-ši-ya•nah PVB-trick-3PRS-AUX-3DAT-DAT-MOD 'He plays tricks on him all the time.'

The combination of -a nah with the diminutive suffix and an indefinite subject prefix, - nuh-a nah, means 'almost' or 'about to'.

The combination of the suffix -yo kon and the postverb ma na idiomatically indicates that an action is of dubious occurrence.

- (113) to telahciyo kon ma'na toʻ-te-lahci-yoʻkon ma'na grind-1PRS-AUX-MOD postverb 'I may grind corn.'
- **6.8 Postverbs.** There are a number of words that modify the verbal complex, yet maintain a degree of independence. These are here termed *postverbs*; they form a class of words parallel in their loose

attachment after the verb to the preverbs, which are loosely attached to the beginning. The major postverbs are a yi- 'if', -na ya 'emphatic', ya na 'exclamatory', ka na 'exclamatory', ma na 'exclamatory', hû / hô 'indeed', and no ka 'certainly'.

An unreal or as-yet-unrealized condition is expressed by the suffix -yi-. It is always joined to the aorist form of ha-?iš 'to be', a-, in the complex a-yi-. If the complex governs a noun or a participle, there is no additional morphology; if the word governed is a verb, the verb must have the connective suffix -k. If the complex a-yi- is followed by -k, the condition is unemphatic; if followed by -ne, the condition is emphatic. Note that although a-yi- is a separate postverb, there is no initial glottal stop heard before it.

(114) pa'yi'wicik a'yine, pamwetehte'.

pa'-'wici-k a'-yi-ne pan-weti-eht-e'-Y

2OPT-tell.story-CONN be.aor-IF-MOD 2PRS-die-FUT-EMPH.FUT-PHR.TERM

'If you tell the story, you will die.'

The postverb $-na^{*}ya$ is the base for a number of postverbs of broadly emphatic meanings. The element $-na^{*}$ - appears to be the third person singular present of $ha^{*}?i\check{s}$ 'to be'; it can be replaced by $-\check{s}u^{*}$ - in the quotative, to form the complex $-\check{s}u^{*}ya^{*}$.

- (115) 'ipišniša toMtoMa*tih yana*ya
 'ipiš-niš-a-Ø toMtoMa*t-ih ya-na*ya-Y
 father-1POSS-ART-ABS cruel-VERY that-EMP-PHR.TERM
 'My father is really very cruel.'
- (116) ?ocinic he lo ?op ya · šu · ya.

 ?ocin-ic he · lo ?op ya · šu · ya · Y
 hunger-ERG weak that-EMP.QT-PHR.TERM
 'It is said that he was really weak from hunger.'

There are three exclamatory postverbs, ya'na, ka'na, and ma'na, based on the deictics ya' 'that', ka' 'this', and ma' 'that there'. The meaning of ya'na seems to be one of vague emphasis.

(117) kapa*ht ⁹uwahlekup te*kuša, ca*wiNciya kapa*ht ⁹uwahlekup-Ø te-*kuš-a-Y ca*-wiNci-ya-Ø chicken stewed-ABS 3PRS-want-INC-PHR.TERM deer-meat-ART-ABS ?i·Minu·k ya·na
?i·M-?i-ni-w-k ya·na
be.tired.of-3PT-1STAT-AUX-CONN EMP
'I want stewed chicken. I am tired of deer meat!'

The postverb karna denotes strong emphasis.

(118) mâ·h. tama·Lho·La toMa mâ·h tama·L-ho·L-a-n toM-a-Ø lo! woman-virgin-ART-ABS man-ART-ABS

katitani *ša *t ka *na kat-?i-tani *-Ø-ša *t ka *na lack-PRT-DU-AUX-3DAT-DAT-NEG exclamatory 'Lo! The two girls never lack a man!'

The postverb ma'na seems to be the least emphatic of the three deictic-derived postverbs. It is quite rare in the data, and is often restricted to occurrence after the suffix -yo'kon in the combination -yo'kon ma'na 'perhaps; may'. The following example illustrates its independent use.

(119) pološalne, ?eLhalawi·ta·N tama·L ?awiti·polo-š-al-ne ?eLhalawi·ta·N tama·L ?awiti·Ø
split-QT-AUX-MOD identical woman two-ABS

kacaššitankį ma'na ka-caš-ši-tan-ki-Y ma'na PVB-stand-QT-DU-AUX-PHR.TERM exclamatory When he split her, two identical woman stood there!'

Two postverbs are found only in quoted speech. The particle $h\hat{u}/h\hat{o}$ 'indeed' seems to have been a feature of conversation. The variation in the vowel is apparently nondistinctive, since the variant forms are often used very near to one another in a text. Example (94) shows the use of this postverb.

The other particle used only in quoted speech is *no 'ka '* 'certainly'; the verb that it follows must always have the connective suffix -k.

(120) "ya·mištakiya yawetik no·ka·," ya·-miš-ta-ki-ya-n ya-weti-k no·ka· PVB-stink-1PRS-AUX-ART-ABS 1PT-die-CONN certainly ?ayšu·k ?ay-ši-w-k think-QT-AUX-CONN "I who stink here have certainly died," he thought.'

7. Morphology of dependent verbs. The only morphological process that applies to dependent verb roots is verb pluralization. The plurals of dependent verb stems are formed by reduplication and vowel harmony. The exact formulation of the rules depends on the phonological makeup of the stem. The following morphemes derive verb plurals: -REDUP- 'singular subject/plural object' or 'repeated action by singular subject'; -ə- 'plural subject/singular object' or 'action by plural subject'; -ə- 'plural subject/plural object' or 'repeated action by plural subject'. The following table shows each type of plural for several stems:

TABLE 12. DEPENDENT VERB STEM PLURALIZATION

SIMPLE STEM (sg/sg)	REDUP (sg/pl)	-ə- (pl/sg)	-ə*hə* (pl/pl)	GLOSS
ta•-hal?iš	tartar-	taha-	ta•ha•-	'to beat'
pok-helu-²iš	pokpok-	poko-	poko*ho*-	'to overcome'
ti•M-haki²iš	ti·Mti·M-	ti•mi-	ti•mihi•-	'to get drunk'
tem-haw ⁹ iš	temtem-	temi•-	temi•hi•-	'to gather'
lakaW-hektiši ⁹ iš	lakaWlakaW-	lakawa-	lakawa•ha•-	'to slip'
lakaw-haw ⁹ iš	lakawlakaw-	lakawi•-	lakawi•hi•-	'to talk about'

8. Verbalization. Verbs are infrequently derived from nouns. Both simple and compound nouns do occur in verbalizations, however, as

illustrated below. Note that such verbalized nouns appear only as dependent verbs.

SIMPLE NOUN	GLOSS	VERB	GLOSS
lo•	'body hair'	lo•lo•-haki?iš	'to be hairy'
COMPOUND NOUN	GLOSS	VERB	GLOSS
toM-ši•L	'old man'	toMši*L-ha*?iš	'to grow up'

These derived verbs participate in the morphological formations that other dependent verbs do.

DERIVED VERB	GLOSS	PLURAL
lo•lo•-haki ⁹ iš	'to be hairy'	lo•ho•-haki ⁹ iš
toMši•L-ha•?iš	'to grow up'	toMši•li-ha•?iš

9. Nominal morphology.

9.1. Components of the noun complex. Nominal morphology is entirely suffixing. There are eight ordered slots that follow the root, as illustrated by the following diagram.

ROOT-diminutive-augmentive-possessive-verbal diminutive-modifierergative-article-case

The diminutive is primarily nominal in use (although it has occasional verbal use [see examples (107) and (112)]). It consists of a suffix having the form -'nuh after short vowels (121) and the i-epenthesized forms -i'nuh after consonants (122–123) and -yi'nuh after long vowels (124).

(121)	⁹ aha	'lake'	⁹ aha•nuh	'little lake'
(122)	?o•?oš	'owl'	²o•²oši•nuh	'little owl'
(123)	moM	'bee'	momi*nuh	'little bee'
(124)	ku•	'mortar'	ku•yi•nuh	little mortar

This suffix deletes word-final -h (if the h is not a reflex of a voiceless resonant) (125), and if the root to which it is attached ends in o, progressive vowel harmony takes place and results in -noh. This suffix usually voices a root-final voiceless resonant. A small number

of nouns that end in -uh drop this segment before adding the diminutive suffix (126).

(125) na šceh	'Natchez'	na•šce•nuh	'Natchez child'
(126) [?] ak ^w enuh	'opossum'	[?] ak ^w eni∙nuh	'little opossum'

The augmentive is formed by the addition of the suffix -ši·L, which is freely attached to any noun. It is not always a simple descriptive meaning 'big' but often makes derivatives of specialized meaning, as in examples (128) and (129).

(127)	co•kop	bear'	co•kopši•L	large bear'
(128)	[?] api⁴šoL	'persimmon'	⁹ api•šoLši•L	'apple'
(129)	šo•koL	'bird'	šo•koLši•L	'turkey'

9.2. Noun possession and other derivational processes. Unlike all neighboring American Indian languages, which show nominal possession with prefixes or preposed elements, possession of nouns in Natchez is shown by suffixes in the singular and impersonal participles in the dual and plural. Other differences include a lack of distinction between alienable and inalienable nouns, and the free use of nouns without possessive suffixes. However, the suffixes in the singular bear a marked resemblance to the object pronominal affixes of the verb, like neighboring languages.

The suffixes in the singular are -niš 'my', -piš 'your', and -?iš 'his, her, its'. Note that the suffix -?iš voices voiceless resonants to which it is attached, and that the glottal stop surfaces only in the proper environment.

TABLE 13. POSSESSION WITH SINGULAR POSSESSORS

Pahal Pahalniš Pahalpiš	'arm' 'my arm' 'your arm'	⁹ ipiš ⁹ ipišniš ⁹ ipišpiš ⁹ ipišiš	'father' 'my father' 'your father'	kitah kitahniš kitahpiš	'friend' 'my friend' 'your friend'
⁹ ahal ⁹ iš	'his arm'	⁹ ipišiš	'his father'	kitahiš	'his friend'

Possession with the possessor being dual or plural in number is expressed by using dual and plural present restrictive clauses based

on the independent impersonal verb ha 'si'iš 'to have; lit., to exist for one', as shown in table 14.

TABLE 14. POSSESSION WITH DUAL AND PLURAL POSSESSORS

kitah natani•ciya¹º	'our (du) friend'
kitah napi•ciya	'our (pl) friend'
kitah natani•pšiya	'your (du) friend'
kitah napi•pšiya	'your (pl) friend'
kitah natani šiya	'their (du) friend'
kitah napi*šiya	'their (pl) friend'

Like other restrictive clauses, these always require the presence of the article -ya.

The verbal diminutive suffix, primarily used with nouns of verbal origin, has the form -uh and the variant -iyuh, and is no longer productive. The diminutive suffix -uh has the variant -huh after long vowels (131), and a relict form -uW in one word (132).

(130)	ca- $puLc$	'spotted deer'	ca•pulcuh	'spotted fawn'
(131)	pupu•	'fog'	pupu•huh	'a little foggy'
(132)	yešteh	'grandmother'	yeštuW	'little grandmother'
(133)	witipkatupiš	'nine'	witipkatupišuh	'just nine'

In addition to these nouns, -uh is used with certain kin terms, but only in the possessed form, after the possessive suffixes.

(134) ?ipiš-niš 'my father' ?ipiš-niš-uh 'my paternal uncle'

Finally, there is an archaic diminutive suffix -iyuh.

(135) ?okkinaW 'forty' ?okkinawiyuh 'just forty'

There are three suffixes that fall into the modifier slot, -i-'decessive', -a-nah 'exclusive', and -neke 'comparative'. They all indicate a modification in the nature of the noun to which they are suffixed.

The decessive suffix -i'- usually indicates that the person to

whose name the suffix is attached is dead, as in example (136). Note that it precedes the article, but follows possessive prefixes.

(136) ?iNkwalniši*ya wa*tiha ?iNkwal-niš-i*-ya-Ø wa*tih-a-n mother-1POSS-DECS-ART-ABS Watt-ART-ABS

?iNkwal?iši*yamaško*kihaku*š?iNkwal-iš-i*-ya-Ømaško*kih-aku*šmother-3POSS-DECS-ART-ABSMuskogee-ALL

ka*pi?ikų ka*-pi-i-k^w-V PAST-go.PL-3PT-AUX-PHR.TERM

'My late mother, Watt, and his late mother, all went to Muskogee.'

Note, however, that the decessive does not always mean that the referent to which it is attached is dead, but at times that the referent is fundamentally changed from its previous state, as in example (137).

(137) ma· tama·Li·ya kinka·WšihšaL ma· tama·L·i·-ya-n kin-ka·W-ši-hš-al-k that woman-DECS-ART-ABS STH-strip-QT-RFL-AUX-CONN

wa*nupak hupakšenektik
wa*N-?ap-a-k hupak-še-n-ekti-k
deep-PRT-ART-LOC jump-QT-IMPF-AUX-CONN
"That former woman undressed, it is said, and was jumping into the depths.'

In this example, the 'former woman' was a woman changed into a man by Mud Dauber in order to save her from the Rolling Head.

The suffix -(y)a·nah, whose underlying form -(y)a·naN surfaces before the ergative-instrumental case suffix -c, usually indicates that there is nothing but the noun that it modifies, as, for example, $^{9}ek^{w}eleya\cdot nah$ 'nothing but bones'. However, with two classes of nouns, its meaning is strikingly different. With body parts, -(y)a·nah means 'with N bare or uncovered'; with plant names it means 'grove or thicket of N'. The form and semantics are closely parallel to the nominal suffix -nanna-n in the Muskogean language Koasati, which behaves in an identical fashion, as is illustrated in the following examples.

NATCHEZ	Koasati

hoko-va•nah	sanco-nânna-n	'nothing but sand

wiNci-ya'nah nipo-nânna-n lean meat (nothing but meat)'

?a*t-a*nahiyyi-nânna-n'barefoot'?iM-a*naha:pihci-nânna-n'naked'col-a*nahcoyyi-nânna-n'pine grove'mo*ka*t-a*nahcowahla-nânna-n'cedar grove'

This similarity may be due to the fact that these two languages are distantly related.

The comparative is formed with the suffix -nekeh, and indicates that something is like the noun modified, as in (138).

(138) ?impoka k^wa·šnekeh šamaca kunahk^wnekeh ?impok-a k^wa·š-nekeh šamac-a kunahk^w-nekeh ear-ART mussel-CMPR nose-ART pot-CMPR

> pitaNca pi-tan-ci-Y 2PT-DU-sit-PHR.TERM

You two sit there with ears like mussels and noses like pots!'

The ergative/instrumental case is marked with the suffix $\cdot c$. It has allomorphs based on i-epenthesis, $\cdot ic$ and $\cdot yic$; the former occurs after consonants that disallow clusters with c, the latter occurs after short vowels. It marks the subjects of transitive verbs, as in example (139), instruments, as in (140), and inessive locatives (i.e., locations within an object), as in (141).

(139) [?]ak^wenuhca hokšaL cohšaL [?]ak^wenuh-c-a hok·ša-l-k coh-š-al-k opossum-ERG-ART skin-QT-AUX-CONN roast-QT-AUX-CONN

> hešelak kašukuk hešel-a-k ka-šu-ku-k

basket-ART-LOC put.in-QT-AUX-CONN

'Opossum skinned him, roasted him and put him in the pack basket.'

(140) tolohošenlu šine, weykoLic tolo - - - še-n-lu - Ø-ši-ne weykoL-ic jab.PL/SG-QT-IMPF-AUX-3DAT-DAT-MOD web-ERG

kakipšanaLsik ka-kip-ša-n-aL-Ø-ši-k PVB-twist.SG/SG-QT-IMPF-AUX-3DAT-DAT-CONN

When they were jabbing for him, he twisted it [the spear] up on them with a spiderweb.'

(141) cola naNc šišahkuk
col-a naN-c ši-šahku-k
pine-NOTHING.BUT-ERG QT-arrive-CONN
The arrived in the midst of a pine grove.'

There are two optional article suffixes, -a/-ya 'the' and $-e^*/-ye^*$ 'that'. The first member of each pair is the post-consonantal form, and the second is the post-vocalic form. The article is added to a noun after its first mention in the text. The article $-e^*/-ye^*$ 'that' is not used in a deictic sense, but rather to indicate that which was just mentioned or thought of; it could possibly be translated by English 'the aforesaid'. Note that $-e^*/-ye^*$ cannot occur with case markers other than the ergative and the absolutive. The following is an example of articles used in the text.

(19)- ?ohoti nuhan ?olocelešukune, "šo koLsi La
 (22) ?ohoti nuh-a-n ?olocele-šu-ku-ne šo koLši L-a-n
 wildcat-ART-ABS be.noon-QT-AUX-MOD turkey-ART-ABS

nok?oy?i-?a," ?ayšu·k
nok-?oy-?i--?a-Y ?ay-ši-w-k
PVB-cook-3PAST-AUX-MOD-PHR.TERM think-QT-AUX-CONN

kašišahkuk, "šo koLši Le oy'i yâ?" ka-ši-šahku-k šo koLši Le O oy-'i--yâ PVB-QT-arrive-CONN turkey-ART-ABS cook-3PT-AUX-Q

hišu*ne hi-ši-w-ne say-QT-AUX-MOD

'At noon, the wildcat thought, "The turkey ought to be cooked," and he came arriving and said, "Is that turkey cooked?"'

There are six suffixes that have case functions. These are absolutive -n, locative -k, allative $-ku \cdot \tilde{s}$, directional $-\tilde{s}tek$, comitative -2a, and vocative $-\tilde{V}$. The discourse function case is $-o \cdot k$, 'focus'.

The absolutive case has two realizations. The most common is -Ø, which is found with nouns that may or may not have the article.

Rarer is -n, which is found only with nouns with the article. The absolutive marker -n with the article -a / -ya is realized as either -an / -yan or -a / -ya; after the article $-e^*$ / $-ye^*$, -n is always realized as nasalization (i.e., -e / -ye). The absolutive is used to mark the subject of an intransitive verb, as in example (142), and the nominal direct object of a transitive verb, as in (143).

(142) šoʻ²uʻyan kapatašikuk šoʻ-²i-w-a-n ka-pat-a'-ši-ku-k search-PRT-AUX-ART-ABS PVB-arrive-PL-QT-AUX-CONN "The searchers arrived."

(143) ?ahala to·kto·kšaL
?ahal-a-Ø to·kto·k-ša-l-k
wing-ART-ABS chop.sg/pl-QT-AUX-CONN

toptopšukušik toptop-šu-ku-Ø-ši-k cut.sg/pl-QT-AUX-3DAT-DAT-CONN 'He chopped the wings and cut them off of him.'

The locative case is marked by the suffix -k, which must be preceded by the article suffix -a/-ya, even if the noun to which it is attached is not previously mentioned.

- (8)— cu hanatayak tek ešukik copšuku Nkę
 (9) cu hanatayak tek e-šu-ki-k cop-šu-ku-Nkę
 hollow.log-ART-LOC sit.SG-QT-AUX-CONN pluck-QT-AUX-MOD
 He sat on a hollow log, and the other kept on plucking him.'
- (144) ma· ci·cihan ci·šiyak kahalašukuk
 ma· ci·ci·h-a-n ci·ši-ya-k ka-hala-šu-ku-k
 that baby-ART-ABS shade-ART-LOC PVB-lay.SG/SG-QT-AUX-CONN
 'He laid that baby on the ground in the shade.'

The allative case is marked by the suffix -ku'š, and indicates that an action is taking place in the direction of the noun to which it is suffixed. Historically, this suffix may be a compound of -k 'locative' and an element -u'š. This suffix also must be preceded by the article suffix -a/-ya.

(10) ?iMarnah ?ertakurš karšuhti ?iM-arnah ?ert-a-kurš kar-šu-hti-Y body-NOM.SUF house-ART-ALL PAST-QT-go.SG-PHR.TERM He went naked to the house'.

The directional case -*štek*, like the other locative cases, must be preceded by the article. It means 'in a direction towards or away from the speaker'; (145) is an example.

(145) kin²eLšaL wata·?u·yaštek kašuci·Nkę·
kin-²eL·š-al-k wata·?u·-ya-štek ka-šu-ci-·Nke·-Y
STH-see-QT-AUX-CONN far-ART-DIR PVB-QT-lie.SG-MOD-PHR.TERM
'He kept on lying on the ground and watching from far away.'

The comitative case is formed by the suffix -?a following the article. It expresses the idea of accompaniment, as opposed to the idea of instrument, which is expressed by the ergative case.

(146) k^weNa^{*}huhak toMši^{*}Lhohon^{*}opa k^weN-a^{*}huh-a-k toMši^{*}Lhohon^{*}op-a-Ø dawn-DIM-ART-LOC old.male.cannibal-ART-ABS

?aštipwa·puha?a we·šukuk
?aštipwa·puh-a-?a we·-šu-ku-k
old.female.cannibal-ART-COM go.PL-QT-AUX-CONN
'Just at dawn, it is said that old male cannibals were going about with
old female cannibals.'

The locative cases are widely used to form adverbs of direction, such as $ka \cdot k$ 'here', locative of $ka \cdot$ 'this'; and $ma \cdot ku \cdot š$ 'thither', allative of $ma \cdot$ 'that'.

A vocative case is formed by lengthening the vowel of the article suffix, and putting falling pitch on that vowel. Note that vocatives of kin terms are formed only with possessive prefixes. The length in the final syllable may be extended for rhetorical effect.

(147) "?o-?oš we-lu-yâ-! ko š tušnowậ-?"

'o-?oš we-lu-yâ- ko š tu-š-na-w-a--Ý

owl talker-ART(VOC) what mean.SG-3PRS-AUX-INC-Q

hišampu*šik hi-ša-m-pi-w-Ø-ši-k say-QT-IMPF-PL.SJ-AUX-3DAT-DAT-CONN "O Speaker-to-Owls! What does it mean?," they were saying to him.'

(148) ma· tamunuha "?ihkwalnišâ·!" ma· tamunuh-a-n ?ihkwal-niš-â· that boy-ART-ABS mother-1POSS-ART.VOC ka·kahišų· ka·ka-hi-ši-w-Y PAST-PVB-say-QT-AUX-PHR.TERM "That boy called out, "O my mother!"

Personal names that end in -h form their vocatives by lengthening the vowel that precedes the -h and putting falling pitch on it: ce*kih 'Jack', ce*kî*h 'Oh, Jack!'; mišuh 'Mishuh', mišû*h 'Oh, Mishuh!'. This is the only condition in which the vocative occurs without the article.

9.3. Noun derivation. There are two principal kinds of noun derivation in Natchez, nominalization and compounding.

Nominalization is an extremely productive process in Natchez, very much more so than verbalization. Nominal forms include infinitives and participles (including agentives), which can be formed on verbs inflected for first and second person, not just third or indefinite. These derived nouns can also act as modifiers of other nouns, both root and derived, and thus fill the function of English adjectives.

The verb or auxiliary root with the indefinite prefix ha-/he- can be used as a noun, either with no suffix, or more commonly with the infinitive suffix -?iš.

TABLE 15. ROOT NOMINALIZATIONS

BARE ROOT NOMINALIZATIONS					
ROOT		NOUN			
- Nk^wal -	'give birth'	$hahk^wal$	'child'		
amaal-	'carry in the arms'	⁹ amahal	'grandchild'		
koyoaki	'dance'	koyo h a k	'dance'		
koloešk ^w -	'cover oneself'	kolohešk ^w	'hat'		
NOMINALIZATIONS WITH INFINITIVE SUFFIX					
-eli•pi-	'to wear'	heli•pi³iš	'clothing'		
pe•Lal-	'to sweep (sg/sg)'	pe•Lhal?iš	'broom'		

Nominalized verbs with the infinitive suffix can also have overt objects, such as *kin-* 'indefinite nonhuman', *tah-* 'indefinite human', or any other noun, as in examples (149)–(152).

- (150) le·le·--al- 'burn repeatedly' > tahle·le·nal'iš 'buckmoth caterpillar'
- (151) -epanal- 'shoot' > ?ohhepenel?iš 'marble (for the game)'
- (152) kaw--elkw- 'dip (sg/sg)' > kuNkawhelku''iš 'water dipper'

Participles are formed in two ways, by suffixation and by prefixation. It is possible for more than one kind of participle to be formed from a verb root, e.g., from citak-haki'iš 'to cool' are derived citakup 'cold' and citakal 'cold'. Participles primarily function as modifiers (adjectives), which in Natchez are nominals; however, a few function simply as nouns.

The suffix -kəp is added to dependent verb stems to form participles that are mostly translatable by English adjectives. Variant forms are determined by vowel harmony. The most common form, -kup, is used with dependent verb stems whose last vowel is e, a, or u. After i the harmonic form -kip is used and after o the harmonic form -kop is used. This suffix is illustrated in examples (153)—(157).

(153) lemec-haki ⁹ iš	'to be angry'	lemec-kup	'angry'
(154) wa p-haki iš	'to whoop'	wa•p-kup	'whooping'
(155) lutuM-haki ⁹ iš	'to be round'	lutuM-kup	'coiled up'
(156) miš-haki ⁹ iš	'to stink'	miš-kip	'stinking'
(157) col-haki²iš	'to drip'	col-kop	'leaky'

A number of nouns in the -kap series seem to be derived from verbs. Among these derived nouns are kaWkup 'fox', waškup 'dog', cimitkip 'pack', cokkop 'blackbird' (cf. coko-kop 'black'), and co'kop 'bear'.

Another set of participles is formed by using -2ap, which surfaces as -2up, -2ap, -2ip, or -2op, depending on the nature of the vowel in the preceding syllable. This set appears to be more archaic because it is rarer than the -kap series and because it has one additional harmonizing form, -2ap, which is used with stems whose last vowel is -a. However, -2up is also used after a as well as after e and u (comparable to the use of -kup). The form -2ip is used after roots in i, and the form -2op is used after roots in o. Note that the glottal stop of the participial suffix appears when the verb root to which it is

attached ends in a vowel or a sonorant.

(158)	[?] ušt-haki [?] iš	'to be sick'	⁹ ušt-up	'sick'	
(159)	wa•N-hal²iš	'to deepen water'	wa•n-up	'deep (of	water)'
(160)	kaha-hal?iš	'to clean sth.'	kaha- ⁹ ap/ka	ha•p/	'white'
(161)	k ^w eNc-hahšal ⁹ iš	'to be heavy'	$k^weNc ext{-}ip$	'heavy'	
(162)	molok-haki ⁹ iš	'to rot'	molok-op	'rotten'	

A common type of participle is formed through the used of the participial affix ?i- attached to either an auxiliary root or independent verb. Note that for a few verb roots beginning in a, the sequence /?i-a/ becomes /?a/, with the glottal stop surfacing only in permitted environments. The following examples are participial forms for some independent verbs and auxiliary verbs.

TABLE 16. PARTICIPLES FORMED WITH 2i-

		INDEPENDENT V	ERBS	
INFINITIVE	ROOT		PARTICIPIA	L FORM
hacoko ⁹ iš	$/$ - cok^w - $/$	'to know'	⁹ icoku	'knowing'
hahkuši ⁷ iš	/-hkuši-/	'to drink'	⁹ ihkuši	'drinking'
hašahku?iš	/ - šahk ^w -/	'to arrive'	⁹ išahku	'arriving'
haNk ^w al ⁹ iš	$/-Nk^{\omega}al-/$	'to give birth'	$^{\gamma}ihk^{w}al$	'mother'
		AUXILIARY VE	RBS	
-ha•?iš	/- <i>•</i> -/	-?i•		
-haki?iš	/-ki-/	-?iki		
-hal?iš	/-al-/	-?al		
-haw?iš	/-w-/	-?u•		
-helu•?iš	/-lu*-/	-?ilu∙		
-hetahnu •?iš	/-tahnu•	-/ - [?] itahnu•		
-hew ⁹ iš	/-w-/	-?u•		

The following are examples of participles formed on auxiliary elements. Note that these words, like participles in -kəp and -?əp, can be translated with English adjectives or nouns.

(163) lewe-ha·?iš /lewe----/ 'stop' > lewe?i · 'stopping'

- (164) keckec-haLši'iš /keckec-aLši-/ 'break on' > keckecaLši 'broken on'
- (165) han-haw'iš /han--w-/ 'do' > han'u' 'doer; maker'
- (166) han-hašu^{*}iš /han--šu*-/ 'become' > hanišu* 'made'
- (167) $k^w a L$ -heš $k u^\gamma i \check{s} / k^w a L$ --š k^w -/ 'run' > $k^w a l i \check{s} k u$ 'running; race'
- (168) ?uwah-heti?iš /?uwah--ti-/ 'get hot' > ?uwahiti 'hot'

Nouns can also be derived by compounding noun + noun or noun + modifier. The following table lists examples of noun-noun, noun-modifier, and complex compounds.

TABLE 17. NOMINAL COMPOUNDS

COMPOUND		ELEMENTS	
puhšcu•	'ball stick'	puhš 'ball'	cu 'tree; stick; wood'
?ihilo•	'beard; mustache'	'ihi 'mouth'	lo 'body hair'
?u•?ihi	'interpreter'	'u• 'road'	?ihi 'mouth'
hakutama•L	'Corn Woman'	haku 'corn'	tama'L 'woman'

NOUN-MODIFIER COMPOUNDS

so*koLwe*Lkup	'mockingbird'	<	so koL bird we Lkup talking
⁹ ompa•kup	'willow tree'	<	om 'medicine' parkup 'red'
⁹ eNcokokop	'buffalo fish'	<	?eN 'fish' cokokop 'black'
cu•caltilu•	ʻplank'	<	cu' 'wood' caltilu' 'sawn'

COMPLEX COMPOUNDS

waškup'impok''ata' 'hound dog' < waškup 'dog' 'impok 'ear' wata' 'long''¹ waškupši'L k''ališku 'race horse' < waškup 'dog' -ši'L 'AUGMENTATIVE' k''ališku 'running'

Natchez seems to have been extraordinarily resistant to borrowing from European languages and from other American Indian languages. Most of the borrowings are personal and tribal names. Table 18 gives a few identifiable loan words.

TABLE 18, LOAN WORDS

SOURCE	WORD		NATCHEZ	
Chitimacha	kam?	'hackberry'	kam ⁹ eh	'huckleberry'
Chitimacha	²o⁴ši	'vulture'	?o•š	'vulture'
Tunica	hâhka	'corn'	haku	'corn'
Tunica	lâlahki	'wild goose'	la•lak	'wild goose'
Creek	masko•ki	'Creek Indian'	maško•keh	'Creek Indian'
Creek	alipa•ma	'Alabama Indiar	n'?alipa•mah	'Alabama Indian'
French	cafê	'coffee'	ka•Wih	'coffee'
English	nænsi•	'Nancy'	na•Ncih	'Nancy'
English	'emə	'Emma'	i- $Nmih$	'Emma'

10. Modifiers. Most modifiers are derived from participles (see section 9.3). There is one group of modifiers, the deictics (ka' 'this', ya' 'that (near)' and ma' 'that (far)'), that is not derived. These act like nouns in that they precede the words which they modify, as opposed to adjectival modifiers, which follow. Compare the following noun-modifying-noun construction (169) with a deictic construction (170).

(169) cur ?ert cur ?ert wood house 'log house'

(170) ka· watawata·kupa ka· watawata·-kup-a this long.PL-PRT-ART 'these long ones'

As most modifiers are clearly derived from verbs, their order parallels that of sentence syntax, in that the order noun + modifier is the same as subject + verb. This helps to explain the fact that Natchez (like the neighboring Muskogean languages) violates the proposed universal that modifiers precede the nouns which they modify in languages with verb-final word order. Examples (171) and (172) illustrate the use of modifiers; note that any case marking occurs only on the final element of the noun phrase, which is the modifier.

(171) kapa·ht ?uwalehkup te·kušą
kapa·ht ?uwahlekup-Ø te·kuš-a·-Y
chicken stewed-ABS 1PRS-want-INC-PHR.TERM
'I want stewed chicken.'

(172) ya potkop ka a ya ka epe na kiyaku s ya potkop ka a ya yo ka epe na ki ya ku s that mountain blue-ABS PVB-lie.flat-3PRS-AUX-ART-ALL

a 'ipita't ma'pa'-yi.
a-Y 'i-pit-a't ma'-pa'--'-Y
be.aor-PHR.TERM PRT-go.about-NEG FUT-2OPT-be-PHR.TERM
'Do not go about there where that blue mountain is lving!'

Adverbial modifiers are much less common and precede the modified verb, as in (173).

(173) ka'a sahkune, waLte'i hat ka-'a sahku-ne waLte'i hat PVB-3OPT-arrive-MOD long.time-NEG

nanolehte'
na-nol-eht-e'-Y
3prs-sleep-FUT-FUT.PRF-PHR.TERM
'When he arrives, soon afterward he will fall asleep.'

Comparison of modifiers seems not to have existed in Natchez. To intensify a modifier, the suffix -ih 'very' is added (citakup 'cold'; citakupih 'very cold'). A form similar to a comparative is made with the preverb cu'š, which usually means 'after' (lalkup 'strong'; cu'š lalkup 'stronger').

Postpositions are modifiers that indicate the location of a noun, such as ?aha* 'on top of', ?ino* 'under', ho*štek 'inside', la*wal 'near', and so forth. Syntactically they behave exactly like adjectives, except that being locatives, they are not inflected for case.

- (174) cu'ya 'ino' petšaLšik
 cu'-ya 'ino' pet-š-aLši-k
 tree-ART under make.bed-QT-AUX-CONN
 'He made a bed for himself under the tree.'
- (175) ta*cen ?u*ya la*wal po*cehe*t lešukuk ta*cen ?u*-ya la*wal po*cehe*t-Ø le-šu-ku-k somewhere road-ART near store-ABS sit-QT-AUX-CONN 'Somewhere near the road stood a store.'

11. Interjections. Interjections form a separate class of words, that of particles. There are two classes of interjections, the ones that represent sounds, and the ones that represent phrases. Note the frequent appearance of falling pitch.

INTERJECTION

ha•?î 'all right!' 'damn'13 hi•hâ• ho•h 'okav!' look!'14 mâ•h 'I declare!' ma nanê ta mina?a let's see!' 'ouch!' mivak ta•Y huh? ?intah 'let's go!'

- 12. Syntax. The major features of Natchez syntax can be covered in a discussion of stative verbs, the use of the ergative and absolutive cases, the formation of restrictive clauses, and the system of reference indexing, and topicalization. An unusual system of negation helps complete the picture.
- 12.1. Stative verbs. Stative verbs all refer to actions that are not controlled by their translation subjects. These verbs are uncommon, in contrast to stative verbs in the adjacent Muskogean languages. There are two kinds of stative verbs, which Haas called direct impersonal verbs and indirect impersonal verbs. Direct impersonal verbs index the translation subject with the affixes that usually indicate direct objects; indirect impersonal verbs index the translation subjects with the affixes that usually indicate datives and benefactives. In both cases the verb is inflected for a third person subject.
- 12.1.1. Direct impersonal verbs. All direct impersonal verbs require the auxiliary -hew?iš. Direct impersonal verbs are divided into two categories of inherent aspect, completive and incompletive. Completive indirect impersonal verbs use a third person past prefix to indicate a present tense, while incompletive direct impersonal verbs use a third person present tense prefix for the same usage. Table 19 gives comparative paradigms of both types of direct

impersonal verb; the completive is illustrated by [?]uNcnus-hew?iš 'to forget'; 'the incompletive is illustrated by laW-hew?iš 'to shiver'.

TABLE 19. INFLECTION OF DIRECT IMPERSONAL VERBS

Person	COMPLETIVE DIRECT IMPERSONAL	INCOMPLETIVE DIRECT IMPERSONAL
1	[?] uNcnuš-inu• [?] a•	laW-nenu•?a•
2	[?] uNcnuš-ipu ^{-?} a •	laW-nepu* ⁹ a*
3	[?] uNcnuš-u· [?] a·	laW-newa•
ldu	[?] uNcnuš-iteNnu* [?] a*	laW-neteNnu•?a•
2du	[?] uNcnuš-iteNpu• [?] a•	laW-neteMpu•?a•
3du	[?] uNcnuš-itenu• [?] a•	laW-netenu • ?a •
lpl	[?] uNcnušu- [?] inu• [?] a•	lawa-nenu•?a•
2pl	[?] uNcnušu- [?] ipu• [?] a•	lawa-nepu ⁻⁹ a-
3pl	[?] uNcnušu- [?] u· [?] a·	lawa-newa•

While the incompletive direct impersonal verbs use distinct tense-aspect prefixes for present, past, and optative (177), completive impersonal verbs use only past and optative prefixes (176).

```
(176) šihinu ?a.
                          /ših-?i-ni-w-a*/
                                                'I am full of food'
      kašihinu.
                          /ka*-ših-?i-ni-w/
                                                'I was full of food'
      ma šihe nu
                          /ma*-ših-e*-ni-w/
                                                'I will be full of food'
(177) laW-nenu·?a·
                         /laW-ne-ni-w-a*/
                                               'I shiver'
      ba·la Winu
                         /ka*-laW-?i-ni-w/
                                               'I shivered'
      ma·laWe·nu·
                         /ma*-laW-e*-ni-w/
                                               'I will shiver'
```

This split is semantically driven by the inherent aspect of the verb; for example, one has to have gotten full (completive) to say 'I am full', while one can still be in the process of shivering (incompletive) while saying 'I shiver'.

12.1.2. Indirect impersonal verbs. In contrast to direct impersonal verbs, these verbs are formed with a number of auxiliary elements, all of which contain the dative/benefactive affix -ši-. Also in contrast to direct impersonals, only two indirect impersonal verbs have completive inflection. The following are the paradigms of completive indirect impersonal kat-ha·ši?iš 'to fail' and the incompletive indirect impersonal neš-ha·si?iš 'to be unable'.

TARTE SO	INDIFICUION OF I	יייסשמונווא	IMPERSONAL VERBS	
LABLE ZU.	TIMELET STREET	INDICKEL	IIVIPRKSUNAL VRKBS	

PERSON	COMPLETIVE INDIRECT	INCOMPLETIVEINDIRECT
	IMPERSONAL	IMPERSONAL
1	kat-i*ca*	neš-na•ca
2	kat-i•pšą•	neš-na•pišą•
3	kat-i*š ą *	neš-na•šą•
ldu	kat-itani ca	neš-natani•cą•
2du	kat-itani•pšą•	neš-natani•pišą•
3du	kat-itani•šą•	neš-natani•šą•
lpl	kata-?i•cą•	neše-na•ca•
2pl	kata-?i•pšą•	neše-na•piša•
3pl	kata-?i•ša•	neše-na•šą•

Like incompletive direct impersonal verbs, the incompletive indirect impersonal verbs use separate tense-aspect prefixes for present, past, and optative. Completive indirect impersonal verbs, like completive direct impersonal verbs, have only past and optative.

```
(178) kati ca
                           /kat-?i-*-t-*s-a*/
                                                       T fail'
                           /ka*-kat-?i-*-t-ši/
      ka•kati•ci
                                                       'I failed'
       ma•kata•vi•ci
                           /ma*-kat-a *- *-t-ši/
                                                       'I will fail'
(179) lakaWnektica.
                           /lakaW-ne-kti-t-š-a*/
                                                       'I slip'
      ka laka Wiktica
                           /ka-lakaW-?i-kti-t-š-a-/ 'I slipped'
       ma•lakaWe•ktici
                           /ma*-lakaW-e*-kti-t-ši/
                                                       'I will slip'
```

12.1.3. Transitive stative verbs. There are very few examples of transitive stative verbs, but two in the corpus use the absolutive on the nominal adjunct, even though in both cases the verb structure implies that the nominal adjunct is the subject. Example (180) is the direct impersonal ?i·M-hew?iš 'to be tired of'.

```
(180) ca ya ?i·Minu·?a.
ca·-ya-Ø ?i·M-?i-ni-w-a.
deer-ART-ABS be.tired.of-3PAST-1OBJ-AUX-MOD
T am tired of deer meat.'
```

One would expect, since the translation subject, 'I', is indexed on the verb with the object affix -ni-, that the translation object, indexed with the agent affix ?i- would require a noun adjunct in the ergative case, and thus be equivalent to the English 'deer meat tires me'. This

does not occur, which implies that semantics takes precedence over morphological structure, since deer meat under no natural circumstances can be an actor.

In example (181), the transitive stative verb is the indirect impersonal *kat-ha*ši*?iš* 'to lack something'.

(181) mâ·h. tama·Lho·La toMa
mâ·h tama·L-ho·L-a-n toM-a-Ø
lo! woman-virgin-ART-ABS man-ART-ABS

katitani*ša*t ka*na
kat-?i-tani-*-Ø-š-a*t ka*na
lack-PRT-DU-AUX-3DAT-DAT-NEG exclamatory
Lo! The two girls never lack a man!'

In this example, both nominal phrases are marked with the absolutive case. The literal meaning of the verb is 'he is lacking to the two of them', and although 'man' is an argument that could be an actor, in this case he has no control over the action of the verb, and thus the noun cannot be marked with the ergative case.

- 12.2. Ergative/absolutive case. The absolutive case is used to mark the nominal subjects of intransitive verbs, as in example (142) above; it is also used for the patients of transitive verbs, as in example (143). The ergative is used to mark the nominal agent of a transitive verb, as in example (139) above. The ergative and absolutive occur together when agent and patient nominals cooccur in a sentence, as (182).

There are a number of semantic conditions on the occurrence of the ergative and absolutive. The ergative is used with agents of transitive verbs that are derived from intransitives with the dative-benefactive affix $-\dot{s}i$, as in (183).

(183) ša šiyica ?inokološukušik ša ši-yic-a ?inokolo-šu-ku-ši-k perch-ERG-ART sing-QT-AUX-DAT-CONN 'Perch sang for him, and . . . ' The ergative is used when the first of a series of verbs is transitive, even if the following verbs are intransitive.

(184) wirtarNc ?amašaL karšukšį wirtarN-c ?ama-ša-l-k kar-šu-kši-Y one-ERG carry-QT-AUX-CONN PAST-QT-go.du-PHR.TERM 'One of them carried it and the two of them went off." 15

On the other hand, the absolutive is used if the first of a series of verbs is intransitive, even if followed by a transitive.

(185) ek^weleya $katek^we^*\check{s}ukuk$ $?ek^wele-ya-\varnothing$ $ka-tek^we-\imath-\check{s}u-ku-k$ bones-ART-ABS PVB-get.up-PL-QT-AUX-CONN

?inokolo-ho-šukušik ?inokolo-a-ha--šu-ku-Ø-ši-k sing-PL-QT-AUX-3DAT-DAT-CONN "The bones got up and they sang for them ' [cf. 183 above]

The absolutive is used for the agent of a transitive verb if there is an incorporated object, either one of the indefinite object prefixes or a full noun.

- (186) to M wirtar kinkirššilurk šuhtik
 to M wirtar W kin-kirš-ši-lur-k šu-hti-k
 man one-ABS STH-stalk-QT-AUX-CONN QT-go-CONN
 'One man was going and he was stalking things, and . . .'
- (187) ?o·?o·š ?eNšo·šu·k
 ?o·?o·š-Ø ?eN-šo·-ši-w-k
 owl-ABS fish-hunt-QT-AUX-CONN
 'An owl was fish-hunting, and . . . '
- 12.3. Constituent orders. Using the work of Dixon (1979) as a theoretical basis, the most common constituent orders are SV (intransitive subject-verb), AV (transitive subject-verb), OV (direct object-verb), and AOV (transitive subject-direct object-verb). However, OAV (direct object-transitive subject-verb) occurs occasionally; this is a marked construction with focus on the object, and is illustrated in the following example.

(188) ?awiti* ?atawahc ka*?u*watašala*
?awiti*-Ø ?atawah-c ka*-?u*wat-a-ša-l-a*-Y
two-ABS wolf-ERG PAST-kill-PL/SG-QT-AUX-MOD-PHR.TERM
'It is said that wolves killed the two of them.'

An even rarer constituent order is AVO (transitive subject-verb-direct object), which again is a marked construction, with focus now on the verb.

(189) ce-kihca ka-toyšų tama-La ce-kih-c-a ka-toy-ši-w-Y tama-L-a-n Jack-ERG-ART PAST-win-QT-AUX-PHR.TERM woman-ART-ABS 'Jack won the girl.'

12.4. Restrictive clauses. Restrictive clauses, which can be translated by English relative clauses, are formed by nominalizing a verb phrase with the article -a/-ya. Note that relative clauses as such do not exist in Natchez, which lacks a relative pronoun or any other relativizing morphology. A restrictive clause is formed only if the clause is descriptive, not resultative, as illustrated in example (190), a resultative clause, versus example (191), which is descriptive.

- (190) waškup ta'yaL k^waLišk^wų.

 waškup-Ø ta'-ya-l-k k^waL-²i-šk^w-a'-Y

 dog-ABS hit-1PT-AUX-CONN run.SG-3PT-AUX-INC-PHR.TERM

 "The dog I hit ran away, lit. I hit a dog and it ran.'
- (191) waškup ta yal i ya waškup ota - ya-l-i - ya dog-ABS hit-1PT-AUX-CMPL-ART

nokma·k^waLiškų nok-ma·-k^waL-[?]i-šk^w-Y PVB-ARTRE-run.SG-3PT-AUX-PHR.TERM The dog that I hit ran away.'

(192) tama·L ?icokoL pa·Lhal, ?oloyic pa·haw?iš tama·L ?icokoL pa·L-hal ?olo-yic pa·haw?iš woman head.back break.off-PRT turtle-ERG necklace

han^ou·oi·ya, šo·koLši·L coloiš ą. han-oi·w-oi·ya šo·koLši·L coloiš a·-Y

make-3PT-AUX-CMPL-ART turkey wattle-3POSS be.aor-PHR.TERM The broken off back of a woman's head, which Turtle had made into a necklace, is Turkey's wattle.'

Note that plurality of object is not marked in a restrictive clause.

(193) waškup ta·yal²i·ya waškup-Ø ta·-ya-l-²i·-ya dog-ABS hit-1PT-AUX-CMPL-ART

> nokma*hekeLika nok-ma*-hekeL-?i-ki-Y PVB-ARTRE-run.PL-3PT-AUX-PHR.TERM 'The dogs that I hit ran away.'16

Restrictive clauses with locative function are produced by nominalizing a verb phrase with one of the locative case suffixes.

(194) hamaN 'išiwata'ya netukši'yaku'š ka'šuhta hamaN 'išiwata'-ya ne-tukši'-ya-ku'š ka'-šu-hti-Y again panther-ART 3PRS-dwell.du-ART-ALL PAST-QT-go.SG-PHR.TERM 'Again he went towards where the two panthers dwelt.'

A restrictive clause with agentive function is formed by the nominalization of a verb phrase with the ergative case.

(195) ?a·Nš yapiti?i·yic ya· pa·tową.
?a·Nš ya-piti-?i·-yic ya·-Ø pa·-ta-w-a·-Y
war 1PT-go.about-CMPL-ERG that-ABS wear.on.neck-AUX-PHR.TERM
'I who have gone to war wear that around my neck.'

12.5. Reference tracking. Natchez employs two suffixes in a simple system of reference tracking. The first, -k, indicates that one phrase has ended and another is to follow. The second, -Y, indicates that a sentence, which can be made up of many phrases, has come to an end, that there may or may not be a further sentence, and that if there is, there will be a shift in tone or focus from the previous sentence. The following is an example of a complex sentence, embedded in a further complex sentence as quoted speech.

(23)- "ma na to Mpišica, 'copapkuk (26) ma na to M-piš-ic-a cop-a-p-ku-k that one man-2POSS-ERG-ART pluck-10PT-20RI-AII

that.one man-2POSS-ERG-ART pluck-10PT-20BJ-AUX-CONN

?e*taku*špa*htik,tama*LnišicahikaL?e*t-a-ku*špa*-hti-ktama*L-niš-ic-ahikaL-Øhouse-ART-ALL20PT-go-CONNwoman-1POSS-ERG-ARTcorn.drink-ABS

to 'a wipšik ce pa wik
to '- 'a - wi-p-ši-k ce - pa - wi-k
pound-30PT-AUX-2DAT-DAT-CONN fuck-20PT-AUX-CONN

ma·pa·hta' hi²u·ca·" ma·-pa·-hti-Y hi-²i-w-t-š-a·-Y FUT-2OPT-go-PHR.TERM say-3PT-AUX-1DAT-DAT-MOD-PHR.TERM

hi²u*k hi-²i-w-k sav-3PT-AUX-CONN

'She said, "That one, your husband said to me, 'I will pluck you and you will go to the house, my wife will pound corn drink for you, you will fuck her, and you will go".'

In addition to -k and -Y, which indicate only that an action is to follow or may not follow, phrases can be related to each other temporally with the suffix -ne 'when', as in (196).

(196) ?ohoti·nuhc cu·tahaw pološaL šupitine, ?ohoti·nuh-c cu·tahaw-Ø polo-š-al-k šu-piti-ne wildcat-ERG rail-ABS split-QT-AUX-CONN QT-be.about-MOD

šoʻkoLšiʻL kašišahkuk šoʻkoLšiʻL-Ø ka-ši-šahku-k turkey-ABS PVB-QT-arrive-CONN

When wildcat was going about splitting rails, Turkey arrived.'

This suffix is also part of the complex particle ayine 'if', which indicates conditions. Contrasts are handled by the suffix -kan 'but'.

Finally, there are a few conjunctions, apparently used when a speaker had to stop and consider what to say next: 'ele'nah' right then', 'inahan' then, as a result', ma'kte 'then, after that', and ma'kup 'well, then'. The conjunction 'ele'nah is illustrated in example (86); the rest are illustrated below.

(197) "tama·Lpiš ma·?atani·," hišantanu·šine, tama·L-piš ma·-?a-tani-· hi·ša-n-tani-w-Ø-ši-ne woman-2POSS FUT-10PT-DU-be sav-&T-IMPF-DU-AUX-3DAT-DAT-MOD

?inahan kakato*tšiLtą ?inahan kaka-to*t-ši-Lti-Y

then.result BACK-descend-QT-AUX-PHR.TERM

When the two said to him, "We two will be your wives," then as a result be came back down.'

(198) nuhka·wah ?iyo· ka·šuhti· makte nuhka·wah ?iyo· ka·-šu-hti-Y ma·kte silently elsewhere PAST-QT-GO.SG-PHR.TERM then.after

ce*kihan ka*kinšuškų
ce*kih-a-n ka*-kin-šu-šk*-Y
Jack-ART-ABS PAST-STH-QT-EAT-PHR.TERM
'He silently went elsewhere. Then after that, Jack ate.'

(199) ma'kup a', ka' hiku'p a', toM na'šceh ma'kup a' ka' hiku'p a' toM na'šceh well.then be.AOR here now be.AOR person Natchez

> ta·ha, takcu·nuhnekę yukutakik. ma·kup ta···²a takcu·nuh-neke-n yuku-ta-ki-k ma·kup 1PRS-be-PROG I.alone-CMPR-ABS stand-1PRS-AUX-CONN well.then

a*, wenaki ka* na* a*-Y we-na-ki-Ø ka* na-* be.AOR-PHR.TERM go.about.PL-3PRS-AUX-ABS here 3PRS-be

we'Lhaki'ša 'ipicokwa't. ma'kup a', we'Lhaki'iš-a-n 'i-pi-cokw-a't ma'kup a'-Y language-ART-ABS PRT-PL.SJ-know-NEG well.then be.AOR-PHR.TERM

?ico*k kuNlata*?u*k ?itokǫ. ?ic-o*k kuNlata*-?i-w-k ?i-toko-Y

blood-FOC fade-3PT-AUX-CONN 3PT-finish-PHR.TERM

Well then, here now it is, I who am a Natchez person, it is as if I stand alone. Well then, there are others around here who do not know the language. Well then, as for the blood, it has faded and finished.'

- 12.6. Topicalization. Topicalization of a sentential element is realized by means of the suffix -o'k, which is suffixed at the end of the word to be topicalized. This suffix is used to highlight any parti-cular argument in focus at the time. Example (200) illustrates the use of o'k with a verbal argument, examples (201) and (202) with a nominal argument in agentive and patient function.
- (200) šene penelok, hal'iš mayke hat šuk
 še-ne-panal-ok ha-al-'iš mayke hat šu-k
 QT-IMPF-PL.SUBJ-shoot-FOC INDF-hit-INF be unable QT-be-CONN
 Even though they were shooting at it, they were unable to hit it.'

(201) kunahalo•k ?awiti•yic hapšitanu•k
kunahal-Ø-o•k ?awiti•-yic hap-ši-tani-w-k
gun-ABS-FOC two-ERG bite-QT-DU-AUX-CONN

kawete*tšitanila*
ka-wete*t*ši-tani-l-a*-Y
PVB-take.out-QT-DU-AUX-INC-PHR.TERM
'As for the gun, two of them bit it and took it out there.'

(202) toMico·k ?ele·he·-?i-lu-ha·t
toM-ic-o·k ?el-ɔ·hɔ·-?i-lu-ha·t
person-ERG-FOC see.PL/PL-PRT-AUX-NEG
'As for the people, they did not see them.'

The suffix -o'k can also be used on modifiers; for example, the verbal modifier witta'wit 'always' usually occurs with this suffix in the complex witta'wito'k.

12.7. Negation. The most common verbal negatives are those formed with negative participles inflected with forms of the verb $ha^{\bullet}?i\check{s}$ 'to be'. Negative participles are formed by suffixing - $ha^{\bullet}t$ to the participle. The negative suffix has several allomorphs that depend on the phonological shape of the participle to which they are attached. The form - $ha^{\bullet}t$ occurs after long vowels and resonants. The h fuses with a resonant to produce a devoiced resonant. After consonants the form - $a^{\bullet}t$ occurs. Example (203) contains negative forms of participles based on the -kap and - $a^{\circ}p$ series.

(203) weLkup 'talking' > weLkupa't 'not talking' haya'ap 'yellow-green' > haya'apa't 'not yellow-green'

Example (204) includes negative forms of independent verb participles and example (205) negative forms of auxiliary verb participles.

- (204) ?ihkuši 'drinking' > ?ihkuša't 'not drinking'
 ?išahku /?išahk"/ 'arriving' > ?išahk"a't 'not arriving'
 ?i'wici 'telling a story' > ?i'wica't 'not telling a story'
- (205) lewe?i· 'stopping' > lewe?i·ha·t 'not stopping'
 ?ayu· 'thinking' > ?ayu·ha·t 'not thinking'
 ?eLal 'seeing' > ?eLaLa·t 'not seeing'
 ?oy?i· 'cooked' > ?oy?i·ha·t 'not cooked'

The form -ya't will be found very rarely after a long vowel, as in (206).

(206) lata·ši· 'all' > lata·ši·ya·t 'not all' ho·ca· 'honest' > ho·ca·ya·t 'dishonest'

The negative participles so far discussed have been impersonal participles, i.e., they are not directly inflected for subject or object. However, personal negative participles, those inflected for subject and object, though uncommon, occur with some regularity, and seem to be obligatory with direct impersonal verbs.

PERSONAL

NEGATIVE PARTICIPLE

?itankuca•t	?i-tan-ku-t-š-a•t	'two not giving to me'
[?] ipukuca•t	?i-pu-ku-t-š-a•t	'many not giving to me'
ta•?ipiLa•t	ta•-?i-pi-l-ha•t	'not hitting you'
ta•?itaNniLa•t	ta•-?i-tan-ni-l-ha•t	'two not hitting me'
laWinu•ha•t	laW-?i-ni-w-ha•t	'me not shivering'
šihiteNnu-ha•t	sih-?i-ten-ni-w-ha•t	'for us two not to be full'

MORPHEMIC ANALYSIS

The following are examples of negative constructions in context.

(208) ?i·wica·t pana·?ehte·
?i·wic-a·t pana-·-eht-e·-Y
PRT-tell.story-NEG 2PRS-be-FUT-FUT.COMP-PHR.TERM
'You must not tell the story.'

(209) kakišk^wa·t pa·ya kak-[?]i·š·k^w-a·t pa····Y stick.out-PRT-RFL-AUX-NEG 2OPT-be-PHR.TERM Do not stick yourself out!'

(210) maLaLpiša*t ma*?apa maL-?i-al-pi-š-a*t ma*-?a-pi-*-Y bother-PRT-AUX-2DAT-DAT-NEG FUT-1OPT-PL.SUBJ-be-PHR.TERM 'We will not bother you.' (211) ma·ku·ha·t ?a ma·k·?i-w-ha·t ?i-·-Y say.so-PRT-AUX-NEG 3PT-be-PHR.TERM He did not say so.'

The negative suffix -a't/-ha't may also be attached to a root noun, in which case the complex means 'it is not a N', as in the following example.

(212) ma· waškupica, "tama·La·t kaWkupa," ma· waškup-ic-a tama·L-a·t kaWkup-a that dog-ERG-ART woman-NEG fox-ART

> ka·hišu·ši ta²acpaca ka·hi-ši-w-Ø-š-i ta²acpac-a-Ø PAST-say-QT-AUX-3DAT-DAT-INC man-ART-ABS "That dog said to the man, "She is not a woman, she is a fox."

13. Historical note. Although speakers of Natchez underwent tremendous social disruption, from the complete destruction of their traditional society in the early eighteenth century to the removal of their various communities to Oklahoma in the nineteenth century, the language appears essentially unchanged from what was recorded by the French in the eighteenth century. The following table of Natchez words and phrases has been assembled from Dumont de Montigny (1753) and Le Page du Pratz (1758).

TABLE 21. EIGHTEENTH-CENTURY NATCHEZ

FRENCH ORTHOGRAPI	ΗY	PRESENT ORTHOGRAM	PHY
Oüa Oüa-Chill Oüachill-Tamaill Oüachill-Liquip Miche-Miche-Quipy	'fire' 'sun' 'female Sun' 'great Sun' 'Stinkards'	Puwah Puwahši*L Puwahši*L tama*L Puwahši*L li*kip mišmiš-kip-ih	'fire' 'sun' 'sun woman' 'great sun' 'really stinky (pl)'
coyocop coyocopchill ellpaill pachcou cabanacte petchi tallabe oudla	'spirit' 'God' 'see!' 'eat!' 'it is you' 'sit down!' 'so many' 'serpent'	taN-koyokop koyokopši*L e*L-pa*-L pa*-škų ka-pana-htą pe*-cą talu*?i* ?u*lah	'powerful supernatural' (not used) ¹⁷ 'see thou, and !' 'eat thou!' 'you have come' 'sit thou!' 'many' 'snake'

Note in particular the presence of voiceless resonants, the distinction between independent and dependent verbs, the distinction between present tense and optative mode, the devoicing of a final lateral when followed by the connective suffix -k, which then disappears, the use of preverbs, the augmentive suffix -ši·L, and the participial suffix -kəp. All of these indicate that the language changed very little between the early eighteenth and the early twentieth centuries. However, Le Page du Pratz reports that there was a special register of speech for use with the higher social classes and provides only three examples that are difficult to interpret. Relics may still remain in verbal synonyms in which one is a dependent verb (such as ci-š-helu-'iš 'to urinate') and the other an independent verb (hešpu-kul'iš 'to urinate').

14. Further reading. Natchez has been little studied. Aside from the works already mentioned in this chapter, three other nineteenth-century works pertain to the language: Daniel Garrison Brinton's (1873) article "On the Language of Natchez"; Albert Gallatin's (1848) monograph "Hale's Indians of North-West America, and Vocabularies of North America, with an Introduction"; and Albert Pike's (1861) "Vocabularies of the Creek or Muscogee, Uchee, Hitchita, Natchez, Co-os-au-da or Co-as-sat-te, Albama, and Shawnee," which I have not seen. Two other twentieth-century works that discuss the Natchez language are Floyd G. Lounsbury's (1946) article "Stray Number Systems among Certain Indian Tribes" and John R. Swanton's (1924) article "The Muskhogean Connection of the Natchez Language."

Notes

Acknowledgements. The late Dr. Haas gave me copies of her fieldnotes and other manuscript material on the language as well as the grammatical information that she compiled for her field methods classes at the University of California, Berkeley in the 1970s and 1980s. Without her support and her years of labor, this sketch would have been impossible.

Unique Abbreviations. The following abbreviations are used: CMPR = comparative nominal suffix; CONN = connective suffix -k; DU = dual; NEW.TOP = new topic; NOTHING = negative incorporated noun; PHR.TERM = phrase-terminal marker; SO. = human or anthropomorphized incorporated noun; STH = nonhuman incorporated noun.

- 1. From information gathered by Haas, there were actually more speakers at that time. Swanton did not count Nancy Raven's then thirteen-year-old son, Adam Levi, even though he spoke the language. Adam Levi died of tuberculosis in 1913. In addition, Haas found a semispeaker in 1936 among the Cherokee, so there may have been elderly speakers there in Swanton's time.
- 2. Note that this word is a loan from Chitimacha kam? 'hackberry' with the suffix -eh that occurs on borrowings from other Indian languages.
- 3. Final /u/ is rare only in underived words. It is common in the two nominalizations of the auxiliary -haku?iš -haku and -iku, which are underlyingly /-hakw/ and /-ikw/.
- 4. Note that when $/\partial$ is added to a long vowel, length is converted to h: ta 'hit (sg)' taha-hit (pl) /ta ' $-\partial$.
- 5. It seems that independent verbs historically were vowel-initial roots, but in most cases the original vowel of the root has been absorbed by the tense-aspect prefixes, and appears only in participles and rare nominalizations.
- 6. This form is an extrapolation from a few inflected examples in the corpus.
- 7. There was formerly a causative affix -ahci-; outside of the causative auxiliaries, it is found in the causative of the independent verb helekšen?iš 'to breathe'; helekšen-ahci-?iš 'to save someone; lit., to cause to breathe'.
- 8. In addition to the indefinite incorporated nouns listed here, a number of independent nouns can be incorporated in this position. See Haas (1982) for a complete discussion.
- 9. Haas (1979a) has treated subject/tense mode marking as a combination of pronominal prefixes and root ablaut; thus hahku'iš 'to drink' has the full form -ahku-, the reduced form -ihku-, and the lengthened form -ahku-. The analysis of an independent verb paradigm in this system would be as follows, with V representing a or e depending on the verb root:

PERSON	PRESENT	PAST	OPTATIVE
ls	t- + full form	y- + full form	?- + full form
2s	pVn- + full form	p- + reduced form	p- + lengthened form
3s	n- + full form	?- + reduced form	?- + lengthened form
ld	tV-tVn-+reduced	yV-tVn- + reduced	⁹ V-tVn- + reduced
2d	pVn-tVn-+reduced	pV-tVn- + reduced	pV-tVn- + reduced
3d	nV-tVn-+reduced	?-i <tvn- +="" reduced<="" td=""><td>⁹V-tVn- + reduced</td></tvn->	⁹ V-tVn- + reduced
lp	tV-p- + reduced	yV-p- + reduced	⁹ V-p- + reduced

While this treatment adequately explains morphologically simple forms, it is forced to treat all pre-root affixes as infixes, and does not explain why the lengthened grade of a verb such as $helcoko^2i\check{s}$ is $-e^*yilcok^w$ - and not the expected *- e^*lcok^w -. I decided to treat subject/tense-mode marking as entirely prefixal in nature, with an invariant root, and postulate various phonological rules to explain apparent irregularities. However, this treatment has been chosen for clarity's sake, and may not reflect the true nature of verbal affixation.

- 10. The element *natani viya* is analyzed /na-təni--t-ši-ya/[3prs-du-BE-1dat-dat-art].
- 11. The independent form for 'long' is wata'kup. In nominal compounds the participial suffix -kəp frequently is dropped, as in hi'pa' 'red squirrel;' hi' 'squirrel' pa'kup 'red'.
- 12. This suffix has the variants -i and (very rarely) -iN. The latter is probably the historically correct form.
- 13. It is notable that in Koasati the interjection for 'damn!' is hi:hà and in Chitimacha it is ?i·hà.
- 14. Note again that Koasati has an almost identical form máh 'listen!'.
- 15. The pragmatics of the text from which this example is taken require that the 'one' of the first clause be a subject of the verb of the second clause, since there are only two actors in this section of the text.
- 16. In this example, the verb root ta-hal? $i\check{s}$ 'to hit (singular subject/singular object)' is used, and not ta-ta-hal? $i\check{s}$ 'to hit (singular subject/plural object)'. This seems to be a manifestation of a language-wide tendency to eliminate the morphological expression of plural objects.
- 17. The Natchez used a loan translation from Creek *heleksenitahc* 'Owner of Breath,' when Haas worked with them.