

*A Reference Grammar  
of Tamazight*

*(Middle Atlas Berber)*

*Ernest T. Abdel-Massih*

*Center for Near Eastern and North African Studies*

*The University of Michigan*

*Ann Arbor*

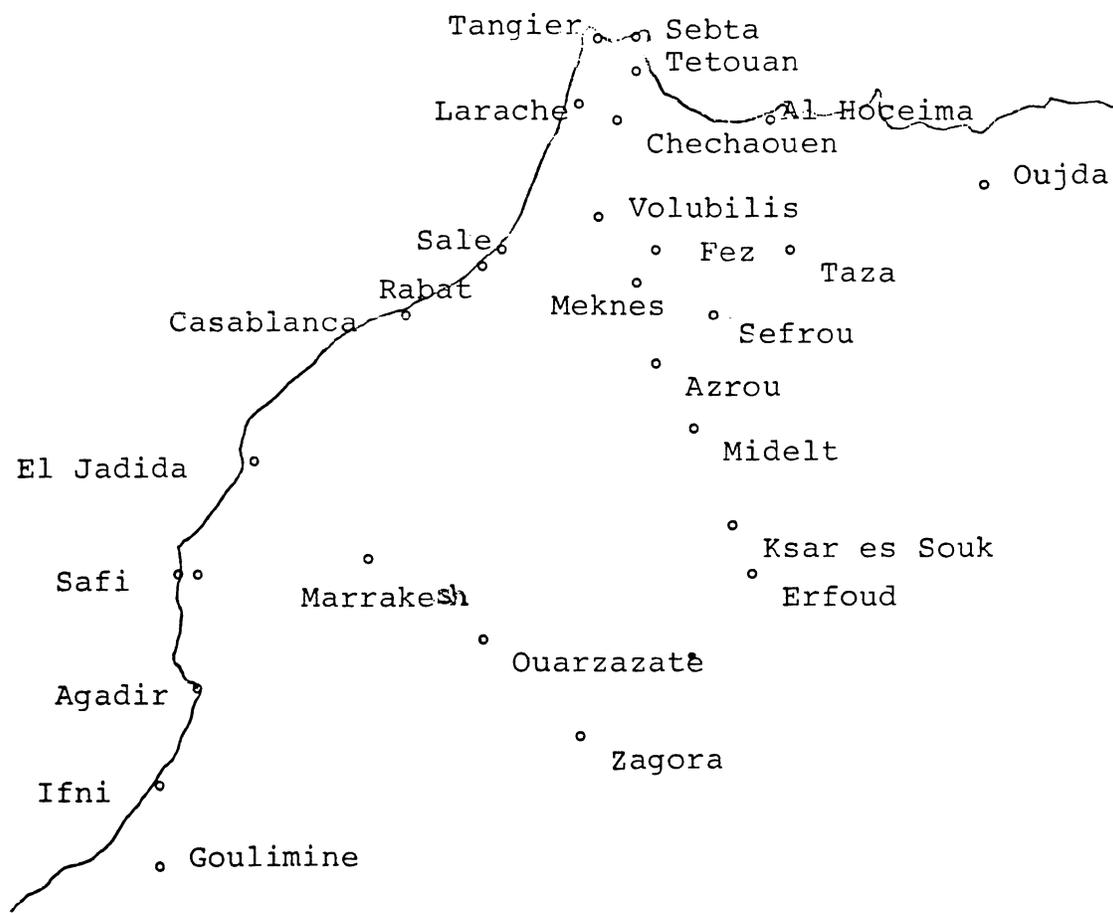
*1971*



*A Reference Grammar  
of Tamazight*

**CENTER FOR NEAR EASTERN & NORTH AFRICAN STUDIES**  
THE UNIVERSITY OF MICHIGAN  
1.4 LANE HALL  
ANN ARBOR, MICHIGAN 48104 U.S.A.

## Map of Morocco



### DISTANCES FROM CASABLANCA IN MILES

Al Hoceima . . . . .	338	Marrakesh . . . . .	149
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Azrou . . . . .	189	Midelt . . . . .	267
Chechaouen . . . . .	205	Ouarzazate . . . . .	273
El Jadida . . . . .	62	Oujda . . . . .	403
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Larache . . . . .	180	Taza . . . . .	257
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*A Reference Grammar  
of Tamazight*

*A Comparative Study of the Berber Dialects of  
Ayt Ayache and Ayt Seghrouchen*

*Ernest T. Abdel-Massih*

*Center for Near Eastern and North African Studies*

*The University of Michigan*

*Ann Arbor*

*1971*

To Mohamed Raamouch  
and Mohammed Guerssel

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## Foreword

The preparation of this volume and the accompanying one, A Course in Spoken Tamazight, was initiated and supported by the University of Michigan Center for Near Eastern and North African Studies as part of its general program of research and training on the languages and cultures of North Africa. A series of studies in anthropology, history and political science are in preparation, as well as instructional materials on Moroccan Arabic.

We are indebted to the Ford Foundation, which is in no way responsible for the specific consequences, for the grants to the Center that have made this work possible. We are most grateful for the tolerance of the people and government of Morocco in accommodating, and often actively assisting, the work of our faculty and students.

W.D. Schorger  
Director

## Acknowledgements

This book and its companion, A Course in Spoken Tamazight, were made possible by the cooperation of a number of individuals. In particular, I would like to express my appreciation to Mr. Mohammed Raamouch whose comments and constructive remarks were a great help to me in the formulation of the grammar of Ayt Ayache. Thanks are also due to Mr. Mohammed Guerssel who, by his linguistic competence and insightful observations, contributed greatly to the comparative notes on the two dialects.

In addition, I would like to express my thanks to Professor William D. Schorger, who, as Director of the Center for Near Eastern and North African Studies at the University of Michigan, initiated the program of research on North African languages and linguistics. The Center defrayed the costs of research assistants, field trips, typists, tapes and tape recordings, as well as, providing me with the time and opportunity to carry out the field research and the analysis.

I owe an especial debt to my colleagues Professor Ernest N. McCarus and Professor Gene M. Schramm who gave their time freely for linguistic discussions during the early stages of the research that led to the formulation of this present work; I am grateful to them for their many creative suggestions.

Also, I wish to extend thanks to Professor Lionel Galand of L'Ecole Nationale des Langues Orientales Vivantes, Paris, for his helpful comments on an earlier draft of the units, particularly the

Ayt Ayache materials.

And I am also grateful to Professor J. Bynon of the School of Oriental and African Studies, University of London for his enlightening discussions on the problems of Tamazight phonology and word boundary.

I am deeply grateful to my wife, Cecile, whose patience, constant encouragement and deep understanding have sustained my efforts throughout the work on this book.

Ann Arbor, Michigan  
January, 1971

E.T.A.

## Introduction

This book grew out of the great need for a short reference grammar of the Berber language in general and of the Tamazight dialect in particular that could be used by college students in an elementary course. The first version of the present grammar (1966) concentrated on the phonology and the morphology of the Ayt Ayache dialect of Tamazight and was used in an experimental class organized at the University of Michigan. The second version was completed in 1968, Work of the grammar of Ayt Seghrouchen Tamazight began in December 1968. The formulation of the comparative notes came after the completion of the grammar of the two affiliated dialects.

The language of this book is Tamazight, a dialect of Berber, spoken in the Middle Atlas Mountains of Morocco. Berber is spoken mainly in North Africa (Libya, Tunisia, Algeria and Morocco) and in Siwa (UAR). It is also spoken by the Tuareg groups in Mauritania and the countries of the Sahara (Mali, Niger and Chad). Berber, a branch of the Afro-Asiatic family of languages is exclusively an unwritten language. It is divided into some three hundred or more distinct local dialects. The number of the speakers of

Berber have been estimated to be 5,000,000<sup>1</sup> to 7,000,000<sup>2</sup> and over 10,000,000<sup>3</sup>. Berber speakers are discontinuously distributed from the Siwa Oasis in Egypt to the Atlantic Ocean and from the Niger River to the Mediterranean Sea. (See the map on p. vi for the distribution of the Berber dialects in general and the map on p. vii for the distribution of the Berber dialects particularly in Morocco.) It is possible to distinguish four basic dialect groups of Berber:

I. Tamazight, a dialect of the Middle Atlas Mountains in Central Morocco. Among the speakers of Tamazight (which number approximately 2,000,000) are the following groups (tribes, subtribes):

Beni Ouarain, Ait Morghi, Ait Alaham, Ait Youb, Marmoucha, Ait Seghrouchen, Ait Youssi, Beni Mguild, Zaiane, Zemmour, Ait Rbaa, Ait Seri, Beni Mtir, Guerouane, Ait Segougou, Ait Morghad, Ait Ayache, Ait Hadiddou, Ait Izdeg, Ait Sikhmane, Ait Atta.

II. Tashelhit (or Shilha), dialect of the High and Anti-Atlas and the Sous Valley in Southern Morocco. There are approximately 2,000,000 speakers of this dialect.

---

<sup>1</sup> Encyclopedia of Islam, vol. I, Fasciulus 19, Leiden, Netherlands, 1959, p. 1177.

<sup>2</sup> Ju. N. Zavadovskij, Berberski jazyk (The Berber Language), Moscow, 1967, p. 7.

<sup>3</sup> Encyclopedia Britannica, vol. 3, Encyclopedia Britannica Inc., Wm. Benton, Chicago, 1970, p. 496.

III. Zenatiya, a dialect of about 2,000,000 speakers.

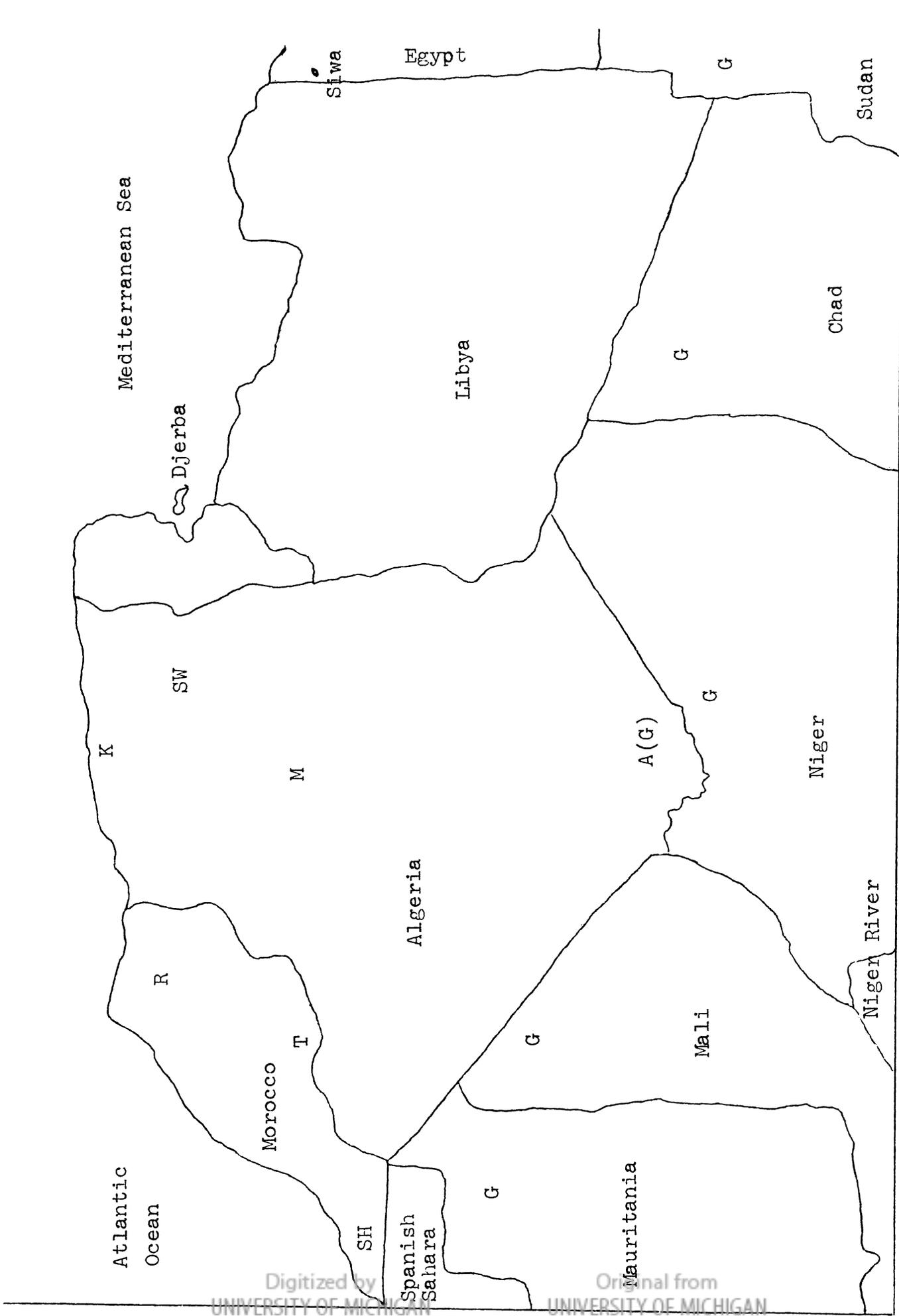
Zenatiya distinguishes the following sub-groupings:

- a) Rifian or Tarifit (spoken by about 0.5 million Rifians in Northern and Northeastern Morocco)
- b) Kabyli (spoken by about 1,300,000 speakers), dialect of the Kabyle tribes in the Kabyle Mountains of Algeria
- c) Zenatiya Mzabian (spoken by about 25,000 speakers in Mzab by the Mzabites of Ghardaia)
- d) Shawia or Tashawit (spoken by about 150,000 speakers in the Aures Mountains of Algeria)

IV. Tamashek, dialect of the Tuareg groups in Mauritania and the open Sahara.

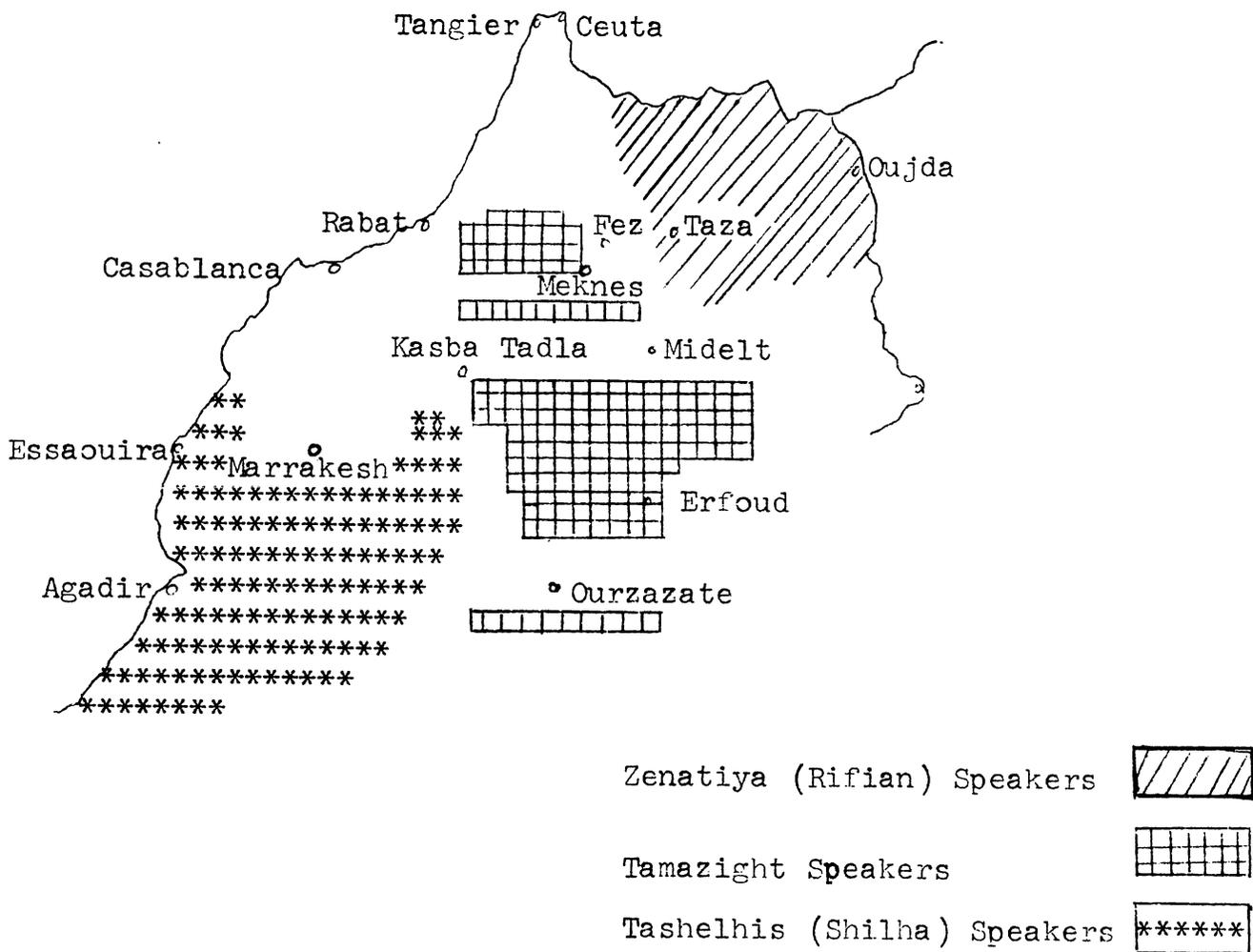
Many speakers of Berber in North Africa are bilingual, with Arabic being their second language. Many of the men speak Berber, Arabic and French, while the women are more conservative.

The main focus of the language of this book is the Tamazight dialects of Ayt Ayache and Ayt Seghrouchen. Ayt Ayache is a tribe composed of twenty-two villages along the Ansegmir River, at the foot of Ayachi Mountain, about thirty kilometers west of the town of Midelt. The limit on the east is National Highway No. 21, on the south the Ayt Yahya tribe at Road No. 3420 and on the north and west the Beni Mguild tribe at Road No. 3422.



Geographic Distribution of the Major Berber Dialects.

- R = Rifian
- T = Tamazight
- SH = Shilha
- K = Kabyle
- SW = Shawia
- M = Mzabidin
- A(G) = Aheggar (Touareg)
- G = Touareg



Geographic Distribution of Berber Dialects in Morocco

Ayt Ayache Tamazight is mutually intelligible with the speech of neighboring tribes. Ayt Seghrouchen is a much larger tribe than Ayt Ayache. It is divided into three major sub-tribes: (1) Ayt Seghrouchen of Sidi Ali, known as Ayt Seghrouchen of Tichikout, (2) Ayt Seghrouchen of Imouzzer and (3) Ayt Seghrouchen of Talesinnt. The limits of the Ayt Seghrouchen of Sidi Ali are the Beni Ouarain to the north, Ayt Youssi to the south, Ayt Seghrouchen of Imouzzer and Beni Mguild to the west and southwest and Oulad El-Haj to the east. Ayt Seghrouchen of Imouzzer lies about 30 kilometers south of Fez, surrounded by Ayt Youssi, Beni Mtir and the town of Sefrou. The limits of Ayt Seghrouchen of Talesinnt are Oulad El-Haj, Ayt Yafelmane, the town of Midelt and Beni Guil. Both Ayt Ayache and Ayt Seghrouchen live by farming and by tending and rearing sheep. The main handicraft industry is tapestry.

Berber literature is, of course, mainly oral. It is this lack of written documents that makes the tracing of the history of the language somewhat difficult. However, attempts were made very early to record the language, using various writing systems. The oldest inscriptions come to us from Tunisia and Algeria and are over 2,000 years old. They are written in a consonantal system which resembles that of contemporary Tuareg. The national Berber alphabet is that of the Tuareg tribes, known as Tifinagh; it is composed of strokes, arcs, and dots as well as combinations of these. In this system,

individual words are not separated and one can write from left to right or from right to left, from top to bottom or from bottom to top. The Tuaregs call the symbols Tafineqq (singular) and Tifinagh (plural). The Tuaregs have no manuscripts, strictly speaking, only short notes on pots, bracelets, shields, etc. The only Berber texts we have are written in Arabic script. These are mainly religious texts used for instruction in Islam.

Following is a simplified table with samples of the Libyan inscriptions and Tuareg (Tifinagh), both ancient and contemporary inscriptions, with the corresponding Arabic script and phonetic equivalents.

Phonetic Equiv.	Libyan	Tuareg (Tifinagh)		Corresponding Arabic Script
		ancient	contemp.	
b	⊙	⊙ ⊠	⊙ ⊠ ⊙ ⊠	ب
t	+ ⊙	X +	+	ت
m	⌋	⌋ ⌋	⌋ ⌋	م
z	-	⌋	⌋	ز
k	≡ ≡	⌋	⌋	ك
ʒ		⌋	⌋	ج
y	⌋ ⌋ ~	⌋ ⌋ ⌋	⌋ ⌋ ⌋	ي
d	⌋	⌋ ⌋	⌋ ⌋ ⌋	د

Table of Berber and Arabic Script

This book is intended to be used mainly as a reference grammar for the dialect of Ayt Ayache, but, more importantly, it can serve as a source for the comparative study of the two dialects: Ayt Ayache and Ayt Seghrouchen. The order of presentation of the morphology of the dialects is arbitrary and, therefore, is not binding for the user.

At the beginning of each chapter appears a short summary of the contents of that section. Comparative notes on the two dialects sometimes appear at the end of a chapter (e.g., I. Phonology, II. The Numerical System, III. Pronominal Systems, IV. The Noun, VI. The Verb). However, in Chapter V. "Particles", a full discussion of each of the different groups of particles is given for Ayt Seghrouchen following that of Ayt Ayache. This is due to the great lexical difference between the two dialects in this domain.

Chapter VII. "Sentences" lists examples consisting of 157 pairs of sentences to exemplify the different structures of the two dialects. The first member of each pair of sentences is from Ayt Ayache, the second from Ayt Seghrouchen.

In studying the grammatical point in issue, often the user will find numerous examples listed. This serves a dual purpose: the exemplification of the grammatical point under discussion and the provision of additional lexical items.

It is hoped that this book may serve as a reference grammar for its twin, A Course in Spoken Tamazight (Center for Near Eastern and North African Studies, the University of Michigan, 1971), for indeed they complement one another. Usage of both texts is indispensable for mastery of Tamazight.

Ann Arbor, Michigan

January 1971

E.T.A.

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## I. Phonology

This section discusses the phonology of Ayt Ayache (A.A.) Tamazight citing examples to illustrate the different phonological features of this dialect. At the very end of this section a few notes on the phonology of Ayt Seghrouchen (A.S.) are included. The two dialects are very much alike in their phonological systems except for the fact that /k/ and /g/ are fricatives in Ayt Ayache whereas they are stops in Ayt Seghrouchen

## I. Phonology

I.1 Tamazight, Ayt Ayache dialect, has the following consonants:  
 /btd kgq šž xɣ mnlr hʰh/ (See Table 1)  
 and the following vowels:  
 /i u a/ (See Table 2)

I.1.1 The terms used in Table 1 are here explained in terms of the articulators that help produce the different sounds. These are followed by explanations of the terms voiced and voiceless, lax and tense, labialized and finally flat. It is also suggested that the student refer to Figure 1. for a better understanding of these terms.

Bilabial: lower lip and upper lip

Labio-dental: lower lip and upper teeth

Dental: apex of tongue and upper teeth

Alveolar: apex of tongue and alveolar ridge

Alveo-palatal: apex of tongue and front part of palate

Palatal: tongue blade and palate

Post palatal: tongue blade and back of palate

Velar: tongue dorsum and velum

Uvular: tongue dorsum and uvula

Pharyngeal: root of the tongue and pharynx (constriction)

Glottal: produced in the larynx by constriction of the two vocal chords

Voiced (vd): during the production of voiced sounds the vocal chords are closed

Voiceless (vl): during the production of voiceless sounds the vocal chords are open

Lax: a speech sound produced with little muscular tension in the speech organs; e.g. /b/

Tense: a speech sound produced with great muscular tension in the speech organ; e.g. /b:/

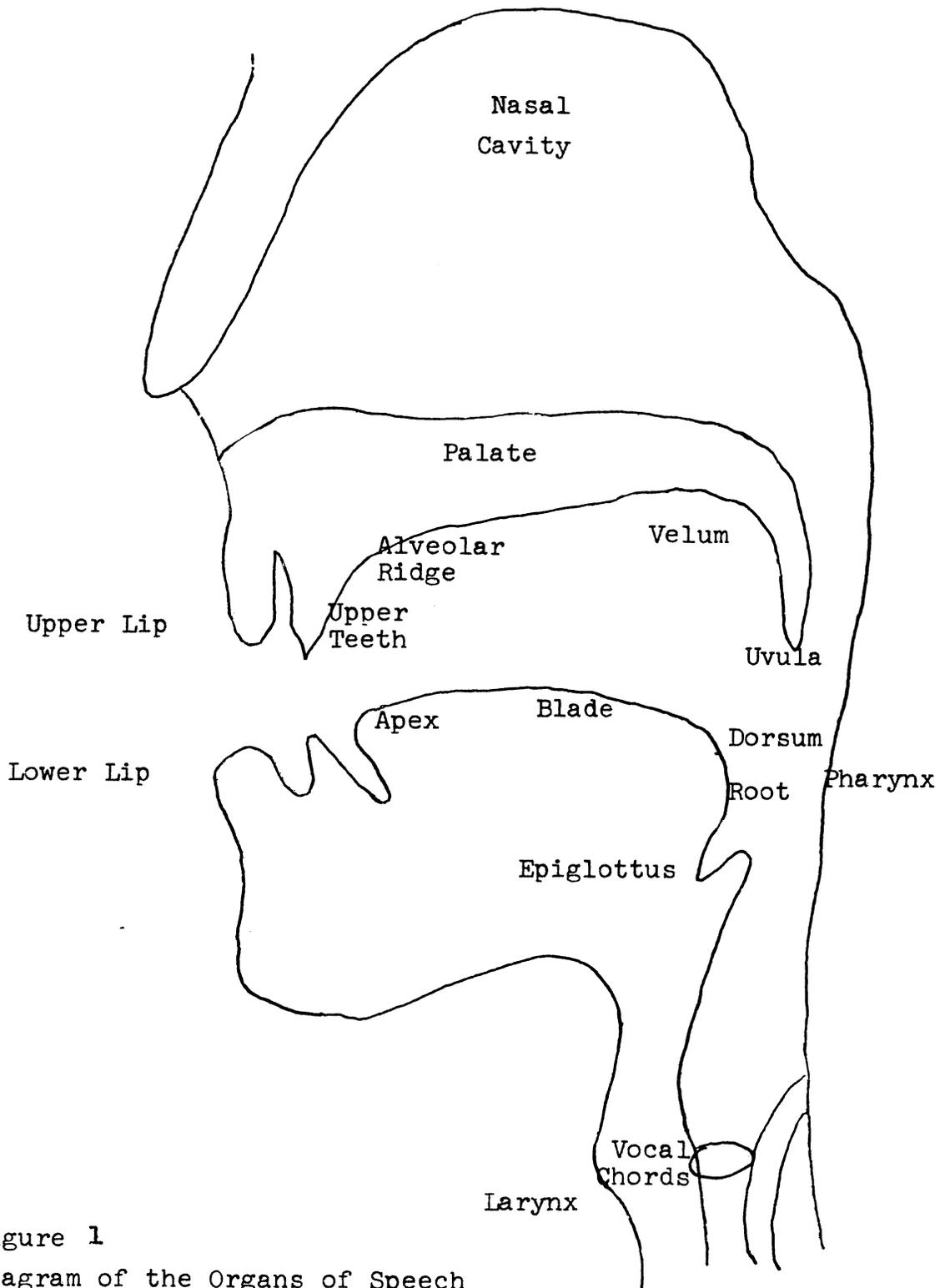


Figure 1  
Diagram of the Organs of Speech

	Bilabial	Labio-Dental	Dental	Alveolar	Alveo-palatal	Palatal	Post palatal	Velar	Uvular	Pharyngial	Glottal
Stop vl. vd.			t d				ʔ ʔ		q q		ʕ ʕ
Fric. vl. vd.		f	s z		ʃ ʒ				x χ	ħ ħ	h h
Nasal	m			n							
Lateral			l								
Flap				r							
Semi-Vowel						y		w			

Table I: Tamazight Consonants and Semi-Vowels

	Front	Central	Back
High	i		u
Low		a	

Table 2: Tamazight Vowels

Labialized: a speech sound produced with added lip rounding; e.g., /q/ = [q̠] or [q<sup>w</sup>].

Flat: a speech sound produced by pressing the blade of the tongue against the palate so that the articulation is velarized rather than dental; e.g. /t̠/

I.1.2 Remarks on the pronunciation of the consonants and semi-vowels of Ayt Ayache Tamazight:

a) /b t d f s š l z ž m n h w y /

Group (a) are to varying degrees the same as in English. However the following slight differences are here noted for this Berber dialect:

1. /b/ which is a voiced bilabial stop can sometimes be heard as voiced bilabial fricative [β] by very few speakers; e.g., /lbab/ [lβab] 'the door'
2. /t/ has more puff with the air release than is the case in English; e.g.: /tafunast/ [t<sup>h</sup>æfunæst<sup>h</sup>] 'cow'
3. On the other hand, we would like to note that /š/ is pronounced as in English "she", e.g., /ša/ 'some'. /ž/ is pronounced as in English "measure"; e.g. /žhd/ 'to be strong'. /h/ is pronounced as in English "he", e.g. /dhn/ 'to rub ointment'. Finally /l/ in Tamazight is pronounced as English "clear" [l]; i.e., when preceding a vowel in English as in "lazy" or "late", but not like dark [l] in English, i.e. when following a vowel as in "feel". Tamazight /l/ is like the first [l] in English "level" but not the second one; e.g. Tamazight /lalal/ 'no' where all the three l's are pronounced like the first [l] in English "level".

- b) /k g q x $\gamma$  h $\epsilon$  r/ <sup>1</sup> (for Comparative Notes on this chapter see pp. 19-70)  
Group (b) do not exist in English.
1. Of group (b) /k/ and /g/ are fricatives in Ayt Ayache (though they are stops in other dialects of Berber as well as in English; e.g.; /irkm/ 'it (m.) boiled', /iga/ 'he did'.
  2. /q x $\gamma$  h $\epsilon$  / are all back consonants known as "gutterals". Their place of articulation is uvular ( /q x $\gamma$  /) and pharyngeal (/h $\epsilon$  /).
  3. /q/ is a voiceless uvular stop that is produced by the tongue dorsum (back) forming a stop against the uvula. Notice that the place of articulation for Berber /q/ is further back than that of English /k/: e.g., /taqdurt/ 'a pot'.
  4. /x/ is a voiceless velar fricative. Its place of articulation is uvular. To pronounce /x/ produce English /k/ then move the dorsum (back of the tongue) back and produce a fricative; this produces /x/. This will sound like the "ch" in German doch, lachen and nach; e.g., /xali/ 'my maternal uncle'.
  5. / $\gamma$ / is a voiced velar fricative. It has the same place and manner of articulation as /x/. Try to produce English /g/ then move the dorsum of your tongue back and produce the fricative / $\gamma$ /. Let us call / $\gamma$ / the "gargling" sound; e.g., /i $\gamma$ us/ 'he burnt'.
  6. /h/ is a voiceless pharyngeal fricative. As we know pharyngeal sounds are produced by a constrict-

tion of the root of the tongue against the pharynx. This is not an easy sound for non-natives. It is advisable to practice pronouncing /h/ by producing a vigorous constriction of the pharynx slightly below and behind the extreme edge of the velum. This can be achieved by drawing the body of the tongue back toward the posterior wall of the pharynx with considerable force. Try this and it should produce /h/. Let us call this sound the "panting" sound; e.g., /hml/ 'to flood'.

7. /ʕ/ is a voiced pharyngeal fricative. If you try to pronounce the English vowel "a" as in "father" with your tongue pressed down, you will hear /ʕ/ which we will call the "bleating" sound; e.g., /lʕil/ 'the boy'.
8. /r/ is a flap, i.e., a sound that is produced by the very rapid vibration of the tip of the tongue (apex); e.g., /ira/ 'he wanted'.

#### Flatness, Labialization and Tenseness

- a) The domain of flatness, i.e., that of emphatic\* consonants (also velarized and pharyngealized are terms used in this connection) is the syllable. We call /ṭ ḍ ṣ ẓ ḷ ṛ / a primary Tamazight "emphatic" set, the occurrence of which affects other non-emphatic segments\*\* to become

---

\* Emphatic articulation refers to the pressing of the blade of the tongue against the palate in formation of some consonant sounds; the articulation is then velarized rather than dental or pharyngealized rather than velar.

\*\* The term segment refers to a minimal portion of speech consisting of a spoken language item known as a consonant or a vowel.

emphatic. This latter set is here termed secondary emphatic set. Notice that in pronouncing the plain non-emphatic consonant the position of the tip of the tongue is dental for, let us say /t/ and the back of the tongue is depressed whereas in pronouncing its emphatic counterpart /ṭ/, the tip of the tongue is touching the alveolar ridge and the back of the tongue is raised up toward the velum. Also, note that in the case of the pronunciation of an emphatic consonant the lip muscles are contracted and the lips are extended ventrally whereas they are relaxed when pronouncing the plain consonants. (See figures 2 and 3 for /t/, /ṭ/ and figures 4 and 5 for /s/, /ṣ/).

Examples of emphatic/non-emphatic consonants:

/tizi/	a pass
/ṭizi/	pubic hair
/bdu/	to begin
/ḅdu/	to share
/tzur/	she is fat
/ṭzur/	she visited holy places

- b) Labialization is a feature of the back consonants /k g q x γ /. It is manifested as simultaneous lip rounding when producing any of the above mentioned consonants. Thus /q/ or /q̣/ is pronounced as [q<sup>w</sup>].<sup>2</sup> Labialization is an important feature for /k g q/ but not for /x γ/: e.g.,

/s:k:r/	sugar
/nk:r/	we got up

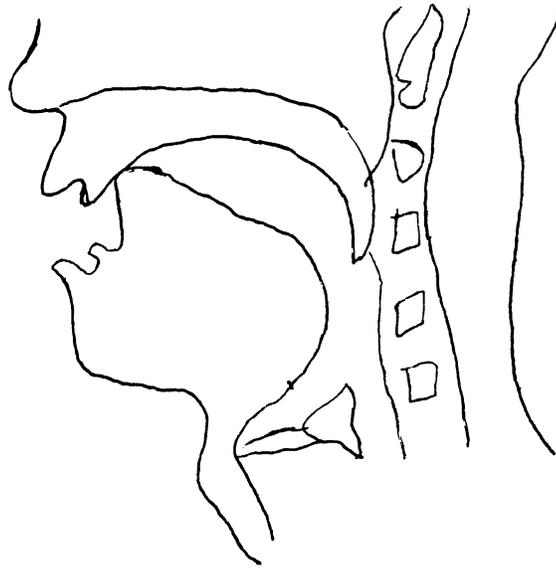


Figure 2: tongue position for /t/

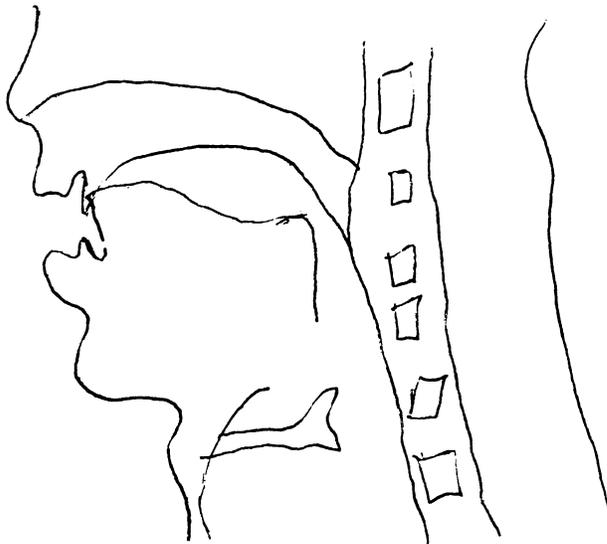


Figure 3: tongue position for /t/

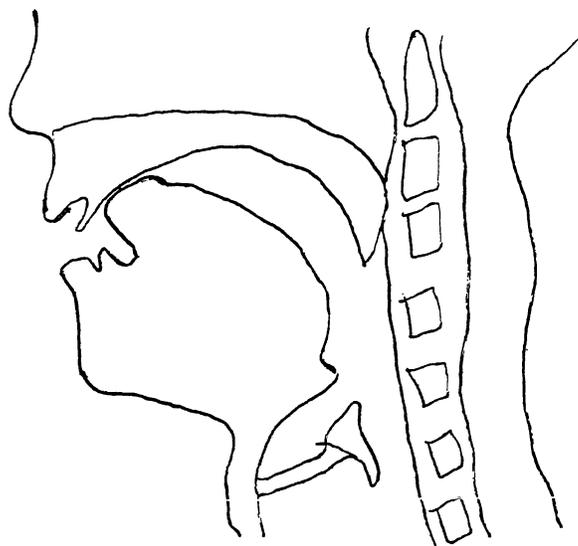


Figure 4: tongue position for /s/

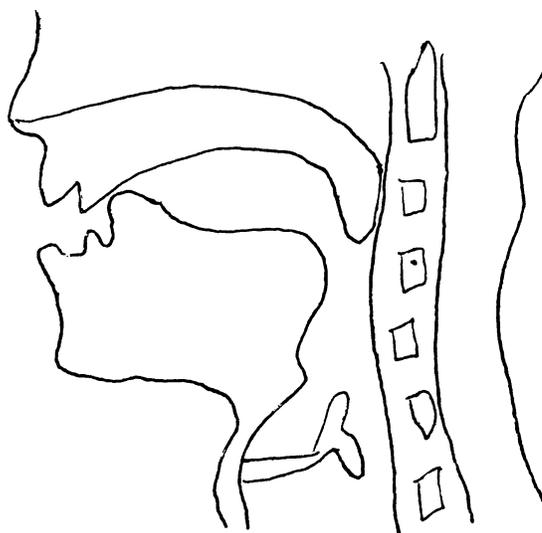


Figure 5: tongue position for /s/

/ag:a/	he is
/ag:a/	a burden
/n:q:rt/	he shook it (m.) off
/n:q:rt/	silver
/lɣš:/ ~ /lɣš:/	cheating
/axm:as/ ~ /axm:as/	share-cropper

- c) A tense\* (also fortis) consonant in general is produced with more force than its lax (also lenis) counterpart.<sup>3</sup> The intensity and aspiration which are characteristic of the tense consonants give them a syllabic quality (i.e. maximum degree of sonority in the syllable) so that /b:/ is heard as [ᵉbb]\*\* or [ᵀbb]; this is transcribed in most other systems that treated Berber phonology /ebb/ or /əbb/ or /ẽbb/. In our system of transcription this will be realized as /b:/ and pronounced as [ᵉbb] except when proceeded by a vowel, e.g.

/d:u/	[ᵉddu]	to go
/id:a/	[ᵀdde]	he went

## I.2. Vowels

Tamazight has three vowels: /i u a/ (See Table 2).

Allophones of the three vowels are shown in Table 3. The marking convention shown in Table 3 is to be understood as follows:

\* Tense or fortis here refers to a consonant pronounced with stronger articulation and greater tension on the muscles of the articulator, and usually, aspiration. Lax or lenis here refers to a consonant pronounced with lesser muscular tension in the speech organ and weaker, laxer articulation and, usually, no aspiration.

\*\* a raised up vowel -[ᵉ], [ᵀ], [ᵱ] denotes that is a purely phonetic non-contrastive element.

[+] denotes the presence of a particular feature ( e.g. [+ front] or [+high]) for a certain segment.

	i	ɨ	ɪ, e	u	ʊ, o	æ	æ̣	a
Front	+		+ +			+		
Centralized		+					+	
Back				+	+ +			+
High	+	+		+				
Lowered			+ +		+ +			
Low						+	+	+

Table 3: Tamazight Vowel Allophones

i	as in English "beat", "eat", "feet"
ɨ	does not commonly occur in English
ɪ	as in English "bit", "fit"
e	similar to the initial vowel part of the English words "eight", "ace"
u	as in English "food", "boot", "sue"
ʊ	as in English "book", "wood"
o	roughly as in English "coat"
æ	as in English "sat", "hat", "mat"
æ̣	does not commonly occur in English but corresponds roughly to vowel in "cut"
a	corresponds roughly to the English vowel in "father"

Henceforth the following notations will be used:

C = /b f t d s z s z k g q /

H = /h ḥ w y /

L = / ḷ r m n /

X = C, H and L

$\gamma, x = / \gamma x /$

$X = C, H, L, \gamma$  and  $x$

$V = / a i u /$

Diacritics  $/./$  and  $/:/$  may be added and thus give, for example,  $/C/$  and  $/C:/$  representing  $/t/$  and  $/t:/$  respectively.

In the formulation of phonological rules the following conventions are used:

$A \text{----} \rightarrow B$

A is rewritten as (or replaced by) B

$(A)B$  or  $B(A)$

A is optionally present, B is obligatorily present

$\left\{ \begin{array}{l} A \\ B \end{array} \right\}$

Either A or B occurs in this position

$A \text{---} \rightarrow B / \text{---} C$

A is rewritten

$A \text{---} \rightarrow B/C \text{---}$

A is rewritten as B after C

Vowel Allophones (# denotes word boundary, e.g.  $/-a\#$  and  $\#a-/$  mean final and initial /a/ respectively)

1.  $/i/ \text{-----} \rightarrow [i]$

ini

to say

sdid

to be thin

$\left\{ \begin{array}{l} \# \text{---} X \\ X \text{---} X \end{array} \right\}$

2.  $/i/ \text{-----} \rightarrow [i:]$

id:a

he went

td:id

you (s.) went

$\left\{ \begin{array}{l} \# \text{---} X: \\ X: \text{---} \end{array} \right\}$

3.  $/i/ \text{-----} \rightarrow \left\{ \begin{array}{l} [i] \\ [e] \end{array} \right\}$

smid

to be cold

zwi $\dot{\gamma}$

to be red

bxin

to be black

$\left\{ \begin{array}{l} \left\{ \begin{array}{l} C \\ X \end{array} \right\} \\ \left\{ \begin{array}{l} C \\ X \end{array} \right\} \end{array} \right\}$

4. /i/ -----> [iy] /  $\chi$  \_\_\_\_\_ #

is:frhi	he made me happy
is:fhmi	he made me understand

5. /u/ -----> [u] /  $\left. \begin{array}{l} \# \text{---} \chi \\ \chi( \cdot ) \text{---} \chi \end{array} \right\}$

umsγ	I painted
ufiγ	I found
idrus	It (m) is little
ifs:us	It (m) is light

6. /u/ -----> [u]  
[o] /  $\left. \begin{array}{l} \{ \begin{array}{l} C \\ \dot{Y} \\ X \end{array} \} \\ \{ \begin{array}{l} C \\ \dot{Y} \\ X \end{array} \} \end{array} \right\}$

idur	he turned
at:bdud	you (s) will share
adimγur	he will grow up
lxudrt	vegetables

7. /u/ -----> [uw] /  $\chi( \cdot )$  \_\_\_\_\_ #

bdu	to begin
f:u	to dawn

8. /a/ -----> [æ] /  $\left\{ \begin{array}{l} \# \text{---} \chi( \cdot ) \\ \chi( \cdot ) \text{---} \chi \end{array} \right\}$

azn	to send
sal	to ask
n:aγ	to fight

9. /a/ -----> [æ] / χ(:)\_\_\_#

da	here
la	no
hn:a	to be peaceful

10. /a/ -----> [a] / { C\_\_\_C } /

hadr	to be present
talb	to demand

### I.3 Structure of the Syllable

If /X/ is followed by /X/ without an intervening /V/ there is a predictable transition. Transition between /X/ and /X/ is heard as Vocalic and is represented here by a superscript schwa [<sup>ə</sup>] to show that it is a phonetic element (schwa occurs as the first speech sound formation in English "about" or as the last speech sound formation in English "sofa"). Thus a word such as /frhγ / "I was happy" is phonetically [#f<sup>ə</sup>rh<sup>ə</sup>γ #] consisting of two syllables. [<sup>ə</sup>] is realized as [ɪ] before front consonants (e.g. /b, t, d.../) and as [ə] before back consonants (e.g. /k, x.../). It is also heard as voiced before voiced consonants (e.g. /b, g.../) and as voiceless before voiceless consonants (e.g. /f, t .../).

The rules governing the predictability of [<sup>ə</sup>] may be stated as follows:

1. / #X(:)#/ -----> [# <sup>ə</sup> X(:)#]	/g/	[ <sup>ə</sup> g]	'to be, to do'
	/š/	[ <sup>ə</sup> š]	'to give'
	/g:/	[ <sup>ə</sup> g:]	'to knead'
	/k:/	[ <sup>ə</sup> k:]	'to pass'

2. /#X X (:)# /  $\dashrightarrow$

{  
 [#X<sub>1</sub><sup>o</sup>X<sub>2</sub>(:)# / X<sub>1</sub> is not L  
 [#<sup>o</sup>X<sub>1</sub>X<sub>2</sub>#]  
 [#X<sub>1</sub>X<sub>2</sub>#] / X<sub>1</sub> is L

/ts/ [t<sup>o</sup>s] 'to laugh'  
 /s1/ [s<sup>o</sup>1] 'to spend a day'  
 /bd:/ [b<sup>o</sup>d:] 'to stand up'  
 /ns/ [n<sup>o</sup>s] 'to spend  
 [n<sup>o</sup>s] the night'  
 /ls/ [l<sup>o</sup>ls] 'to get dressed'  
 [l<sup>o</sup>s]

3. /#X<sub>1</sub>:X<sub>2</sub># /  $\dashrightarrow$  [#<sup>o</sup>X<sub>1</sub>:<sup>o</sup>X<sub>2</sub>#]

/f:r/ [f<sup>o</sup>:r] 'to hide'  
 /f:γ/ [f<sup>o</sup>:γ] 'to go out'  
 /l:m/ [l<sup>o</sup>:m] 'to spin'

4. /#X<sub>1</sub>X<sub>2</sub>X<sub>3</sub># /  $\dashrightarrow$

{  
 [#X<sub>1</sub>X<sub>2</sub><sup>o</sup>X<sub>3</sub>#] / X<sub>1</sub>X<sub>2</sub> are not {L  
 H}

{  
 [#<sup>o</sup>X<sub>1</sub>X<sub>2</sub><sup>o</sup>X<sub>3</sub>#]  
 [X<sub>1</sub><sup>o</sup>X<sub>2</sub><sup>o</sup>X<sub>3</sub>] / {X<sub>1</sub>  
 X<sub>3</sub>} is {L,H  
 H,L}

{  
 [#X<sub>1</sub><sup>o</sup>X<sub>2</sub><sup>o</sup>X<sub>3</sub>#] / X<sub>2</sub>X<sub>3</sub> = {L  
 H}

/xdm/ [xd<sup>o</sup>m] 'to work'  
 /dbγ/ [db<sup>o</sup>γ] 'to dye'  
 /xd<sup>o</sup>/ [xd<sup>o</sup>] 'to deceive'  
 /z<sup>o</sup>f/ [z<sup>o</sup>f] 'to get mad'  
 /hdm/ [h<sup>o</sup>hd<sup>o</sup>m] 'to demolish'  
 [h<sup>o</sup>d<sup>o</sup>m]  
 /hbl/ [h<sup>o</sup>hb<sup>o</sup>l] 'to become  
 [h<sup>o</sup>b<sup>o</sup>l] silly'  
 /nfh/ [n<sup>o</sup>nf<sup>o</sup>h] 'to sniff  
 [n<sup>o</sup>f<sup>o</sup>h] tobacco'  
 /sdl/ [s<sup>o</sup>d<sup>o</sup>l] 'to repair'  
 [s<sup>o</sup>d<sup>o</sup>l]  
 /dmn/ [d<sup>o</sup>m<sup>o</sup>n] 'to guarantee'  
 /fhm/ [f<sup>o</sup>h<sup>o</sup>m] 'to understand'  
 /frh/ [f<sup>o</sup>r<sup>o</sup>h] 'to be happy'

5. /#X<sub>1</sub>X:2X<sub>3</sub># /  $\dashrightarrow$  [#X<sub>1</sub><sup>o</sup>X:<sup>o</sup>X<sub>3</sub>#]

/fs:r/ [f<sup>o</sup>s:<sup>o</sup>r] 'to spread'  
 /sn:d/ [s<sup>o</sup>n:<sup>o</sup>d] 'to lean against'

/xm:m/	[x <sup>ə</sup> m:ə <sup>m</sup> ]	'to think'
/wk:l/	[w <sup>ə</sup> k:ə <sup>l</sup> ]	'to appoint as representa- tive'

The postulation of the phonetic syllable shown above supports the transcription of the data of this grammar where three (or more) non-vocalic segments appear next to each other: e.g., /tbrmnt/ "you (f.p.) turned" which is here represented phonetically as [t<sup>ə</sup>b<sup>ə</sup>r:ə<sup>m</sup>nt].

Words with the structure VXV, VXX, or XV consist of one syllable: e.g., /sal/ "to ask", /šib/ "to become white-haired", /ɣum/ "to swim", /af/ "to find", /amz/ "to take", /fa/ "to yawn". Words consisting of vowels and consonants follow the same rules shown above: e.g., /dat:ħaħar/ "she is present" is phonetically [dat:əħaħar] i.e. consists of three syllables; /ɣad:r/ "to meet" has two syllables [ɣad:ə<sup>r</sup>]. Note that /t:/ and /d:/ are not represented as [t:] and [d:] as was stated before since they are preceded by a vowel.

#### I.4. Stress

Word stress in Tamazight is a non-contrastive feature. The occurrence of word stress is predictable: primary stress falls on the last vowel of the word (i.e. /V/ or [ə] ).

#### Examples:

/sál/	'to ask'
/ɣáwn/	'to help'
/šk:á/	'to doubt'
/slíl/	'to rinse'
/ɣúm/	'to swim'
/ámz/	'to take'
/áf/	'to find'
/rár/	'to return'
/bdú/	'to begin'

/adiniγ/		'I will say'
/ndawá/		'we cured'
/tfafád/		'you (s.) woke up'
/isál/		'he asked'
/dayt:hadár/		'he is present'

The above statement applies to words that phonemically do not contain a vowel /V/. As stated above, /bd:/ is phonetically [b<sup>ə</sup>d:], /frh/ is phonetically [fr<sup>ə</sup>h] and /fs:r/ is phonetically [f<sup>ə</sup>s:<sup>ə</sup>r]. In these cases, word primary stress is on the [ə] of the last syllable.

## Examples:

/bd:/	[b <sup>ə</sup> d:]	'to stand up'
/ls/	[l <sup>ə</sup> s]	'to dress'
	[ <sup>ə</sup> ls]	
/f:r/	[ <sup>ə</sup> f: <sup>ə</sup> r]	'to hide'
/frh/	[fr <sup>ə</sup> h]	'to be happy'
/ndr/	[n <sup>ə</sup> d <sup>ə</sup> r]	'to moan'
	[ <sup>ə</sup> nd <sup>ə</sup> r]	
/fs:r/	[f <sup>ə</sup> s: <sup>ə</sup> r]	'to explain'
/tfs:rnt/	[t <sup>ə</sup> f <sup>ə</sup> s: <sup>ə</sup> r <sup>ə</sup> nt]	'you (f.p.) explained'

\* \* \*

Notes on the Phonology of Ayt Seghrouchen (A.S.) Dialect of  
Tamazight

- 1 /k/ and /g/ are stops in Ayt Seghrouchen. They are pronounced the same as English /k/ and /g/.

Examples:

kl:f	to entrust
lgir:u	cigarettes

- 2 Lax /q/, /ḳ/ and /g̣/ do not occur in A.S.

- 3 /k:/ and /g:/ are tense counterparts of the stops /k/ and /g/ in A.S.

Examples:

ik:r	he stood up
ang:aru	the last

\* \* \*

Additional Notes on the Phonology of Ayt Seghrouchen

The following phonological features are characteristic of Ayt Seghrouchen.

- (a) For some speakers the sequence /-lt-/ is pronounced as a side fricative, i.e. pronouncing /-lt-/ producing friction with air escaping at both sides of the tongue. This, however, occurs in few words.

Examples:

ultma	sister
xalti	my maternal aunt
altu	not yet

- (b) Following a tense /k:/ or /g:/, the vowel /u/ has a centralized allophone [ü].

Examples:

l:ayg:ur	he goes
sk:ura	Sekoura (name of a village)

## II. The Numerical System

This section discusses the Cardinal and the Ordinal Numerals in Ayt Ayache with enough examples to illustrate the structure of constructs with numerals. It also discusses Fractions. The very few differences that occur in Ayt Seghrouchen concerning the Numerical System are noted at the end of this section.

## II. The Numerical System

II.1 Cardinal Numerals

A. 1 - 3 (The Berber Numerals)<sup>1</sup> (for Comparative Notes on this chapter see p. 33)

yun one (m)

yut one (f)

sin two (m)

snat two (f)

šrad three (m)

šrat: three (f)

1 - 3 (The Arabic Numerals)

wahd one

tnayn two

tlata three

## Remarks:

(1) The Arabic numerals 1 - 3 are used only for counting in order without naming things (they are INVARIABLE) and in combination with the tens, e.g. 21, 33, 72, etc. The Berber numerals are used elsewhere.

(2) The Berber numerals (1 - 3) answer such questions as:

šhal l:wašun ay ɣurš ? How many children do you have?

- yul:ɣil (<yun lɣil) One boy.
- siyšir:an (<sin nišir:an) Two boys.
- šrad išir:an (<šrad nišir:an) Three boys.
- {yut ntrbat:} (<yut ntarbat:.) One girl.
- {~ yut:rbat:}
- snat ntšir:atin (<snat ntišir:atin) Two girls.

tšir:atin (<tišir:atin) is referred to as c.s.

(construct state of the noun), see Grammar of the Noun.

or šhal aya ? How much is this?

šhal ayin: ? How much is that?

- siw:ar:yal: (<sin nar:yal:.) Two rials.
- šrad war:yal: (<šrad nar:yal:.) Three rials.

or šhal ntfunasin ay ɣurš ? How many cows do you have?

- yut ntfunast (<yut ntafunast) One cow.
- snat ntfunasin (<snat ntifunasin) Two cows.
- šrat: ntfunasin (<šrat: ntifunasin) Three cows.

Berber Numerals 1 - 3
-----------------------

Num 1 (+ Gender)	+ (n) + Noun (sg) c.s.	(+ Gender)
Num 2-3 (+ Gender)	+ n + Noun (pl) c.s.	(+ Gender)

Examples:

yun + n + l'il	→	yul:'il	a boy (one boy)
yut + n + tad:art	→	yut ntad:art	a house (one house)
sin + n + lk:isan	→	sil:k:isan	two glasses
snat + n + tad:rwin	→	snat ntad:rwin	two houses
šrad + n + lk:isan	→	šrad l:k:isan	three glasses
šrat: + n + tad:rwin	→	šrat: ntad:rwin	three houses

## B. 4 - 10

ṛḅa	4
xmsa	5
st:a	6
sḅa	7
tmanyā	8
ṭsa	9
ṣ̌ra	10

Num. 4 - 10 + n + Noun (pl) c.s. (m/f) invariable
--

Examples:

ṛḅa + n + ar:yal:	→	ṛḅa w:ar:yal:	four rials
ṛḅa + n + tifunasin	→	ṛḅa ntfunasin	four cows
ṣ̌ra + n + ar:yal:	→	ṣ̌ra w:ar:yal:	10 rials
ṣ̌ra + n + tifunasin	→	ṣ̌ra ntfunasin	10 cows

## C. 11 - 19

ḥdaʿš	11
tnaʿš	12
tlɣaʿš	13
ɣbɛɟaʿš	14
xmstaʿš	15
st:aʿš	16
sbɛɟaʿš	17
tmntaʿš	18
tsɛɟaʿš	19

Num 11 - 19 + n + Noun (sg) c.s. (m/f) invariable
--

Examples:

ḥdaʿš w:ar:yal	11 rials
ḥdaʿš ntfunast	11 cows
tsɛɟaʿš w:ar:yal	19 rials
tsɛɟaʿš ntfunast	19 cows

## D. 20 - ∞

ʿšrin	20
waḥd uʿšrin	21
tnayn uʿšrin	22
tlata wʿšrin	23
tssa wʿšrin	29
tlatin	30
waḥd utlatin	31
sba wlatin	37

Ꞗꞑꞑꞑ	40
xmsin	50
st:in	60
sbꞑꞑ	70
tmanin	80
tsꞑꞑ	90
my:a	100
my:a ꞑꞑꞑꞑ uxmsin	154
mitayn	200
mitayn uwahꞑ utlatin	231
tlt my:a	300
ꞑꞑꞑ my:a	400
xms my:a	500
st: my:a	600
sbꞑꞑ my:a	700
tmm my:a	800
tsꞑꞑ my:a	900
tsꞑꞑmy:a ꞑꞑꞑꞑ ꞑꞑꞑꞑ	999
alf	1000
alfayn	2000
tlt alaf	3000
ꞑꞑꞑ alaf	4000
st: alaf	6000
ꞑꞑꞑꞑ alaf	10,000
ꞑꞑꞑꞑꞑꞑꞑꞑ alaf	14,000

my:at alf	100,000
mitayn alf	200,000
mlyun	1,000,000
žuč mlayn	2,000,000
ṛbṣin mlyun	40,000,000
mlyar	1,000,000,000

Num 20 - <del>∞</del> + n + Noun (sg) c.s. (m/f) invariable
--

Examples:

st:a wṣṛin l:ṣil	26 boys
tmanyā utlatin ntad:art	38 houses
tsṣ my:a uxmsa usbṣin l:ṣil	975 boys
alf ust:a ust:in ntad:art	1066 houses

## Remarks:

- (1) The apocopated series / tlt, ṛbṣ, xms, st:, sbṣ, tmm, tsṣ/ is used in the following constructs:

sbṣ snin	7 years
ṛbṣ my:a	400
sbṣ alaf	7,000
tlt mlayn	3,000,000

- (2) The numerals 11-19 have two forms. One form ends in /\_\_r#/ and is used before /ṣam/ "year" or /alf/ "thousand" in constructs such as 13 years (old) or 15,000. The other, without /\_\_r#/, is used elsewhere.

11 - 19:

Forms ending in /\_\_\_r#/

ḥḍašr sam	11 years
tnašr sam	12 years
tlṭašr sam	13 years
rbṭašr sam	14 years
xmṣṭašr yum	15 days
st:ašr yum	16 days
sbṭašr sam	17 years
tmtašr sam	18 years
tsṭašr sam	19 years
xmṣṭašr alf	15,000

Compare the above with the following:

ḥḍaš l:šil	11 boys
tlṭaš ntrbat:	13 girls
xmṣṭaš l:šil	15 boys
tsṭaš ntad:art	19 houses

(3) my:a ~ my:at

Notice: /my:at/ is used before /alf/ or /sam/.

Examples:

my:a l:wašun	100 boys
rbomy:a ntfunast	400 cows
my:at alf	100,000
my:at sam	100 years

(4) Sometimes one gets the following answer

my:a q:l: ʿšra	90 (rials)
my:a γir ʿšra	90 (rials)
mitayn q:l: ʿšrin	180 (rials)
mitayn γir xmsa	195 (rials)

in response to:

šhal aya ?                      How much is this?

q:l: = minus

γir = except

Notice that such constructions as the above ("100 minus 10") are only used in connection with money, whereas ("5 minus 10") constructions are used in telling the time.

Examples:

lxmsa q:l: ʿšra	4:50 (time)
s:bca γir ʿšrin	6:40 (time)
t:sca wxmsa	9:05 (time)
lʿšra w ʿšra	10:10 (time)

## II.2 Ordinal Numerals

amzwaru (m)	the first
tamzwarut: (f)	the first
imzwura (m.p.)	the first
timzwura (f.p.)	the first

wis:sin (m) <sup>2</sup>	the second
tis:snat (f)	the second
wis:šrad (m)	the third
tis:šrat: (f)	the third
wis:rbra (m)	the fourth
tis:rbra (f)	the fourth
wis:xmsa (m)	the fifth
tis:xmsa (f)	the fifth
wis:st:a (m)	the sixth
tis:st:a (f)	the sixth
wis:sbra (m)	the seventh
tis:sbra (f)	the seventh
wis:tmanyā (m)	the eighth
tis:tmanyā (f)	the eighth
wis:tsra (m)	the ninth
tis:tsra (f)	the ninth
wis:ššra (m)	the tenth
tis:ššra (f)	the tenth
wis:hdaš (m)	the eleventh
tis:hdaš (f)	the eleventh
wis:st:aš (m)	the sixteenth
tis:st:aš (f)	the sixteenth
wis:tsətarš (m)	the nineteenth
tis:tsətarš (f)	the nineteenth

wis:šrin (m)	the twentieth
tis:šrin (f)	the twentieth
wis:tsin (m)	the ninetieth
tis:tsin (f)	the ninetieth

To this we might like to add:

ang:aru (m)	the last
tang:arut: (f)	the last
ing:ura (m.p.)	the last
ting:ura (f.p.)	the last
anam:as (m)	the middle
tanam:ast (f)	the middle
inam:asn (m.p.)	the middle
tinam:asin (f.p.)	the middle

Examples:

l'il amzwaru	the first boy
as: amzwaru	the first day
tarbat: tamzwarut:	the first girl
as: wis:šra	the tenth day
tad:art tis:rba	the fourth house

II.3 Fractions

amnaš <sup>3</sup>	half
t:ulut	1/3

r:ubur	1/4
~ wis:rba	1/4
lxumas	1/5
~ wis:xmsa	1/5
s:udus	1/6
~ wis:st:a	1/6
wis:sba	1/7
t:umun	1/8
~ wis:tmany	1/8
wis:tsa	1/9
lsušur	1/10
~ wis:šra	1/10

Examples:

tsud dumašf	9:30 (time)
šid ammašfns	Give (me) half of it.
šid ammašf	Give me the half.
šiyas wis:xmsa	I gave him 1/5.

## Remarks:

- (1) Fractions smaller than 1/10 (i.e. 1/11, 1/12, etc.) are composed of:

wis: + cardinal numeral

e.g.: wis:xmstaš 1/15

(2) Fractions /t:lult/ and /t:umun/ are mainly used in connection with inheritance shares.

\* \* \*

Notes on the Numerical System in Ayt Seghrouchen (A.S.)

<sup>1</sup> In A.S. the only difference in the system is:

idž (m), išt (f)	one
snat (m,f)	two
tlata (m,f)	three

<sup>2</sup> wis:snat (m,f) the second

<sup>3</sup> amnašf ~ azin half

Other than these exceptions, everything else in A. A. concerning the Numerical System itself holds for A.S.

### III. Pronominal Systems

This section deals with the different pronominal systems in Ayt Ayache in an exhaustive manner. It discusses Personal Pronouns, Independent Possessive Pronouns and Suffixed Possessive Pronouns used in association with objects and those used in association with kinship terms, Pronominal Affixes for verbs and prepositions, Demonstrative Pronouns, Relative Pronouns, and Indefinite Pronouns. Since this is an area where there is considerable difference between the two dialects, the student will find ample examples at the end of this section showing the differences between the two dialects under the heading Notes on the Pronominal System in Ayt Seghrouchen.

## III. Pronominal Systems

III.1 Personal PronounsIII.1.1 Independent Forms (Subject) <sup>1</sup>(for Comparative Notes on this Chapter see pp. 77-85)

nk: ~ nk:in	I
šg:	you (m.s.)
šm:	you (f.s.)
nt:a	he
nt:at	she
nk:ni	we
kn:i	you (m.p.)
kn:inti	you (f.p.)
nitni	they (m)
nitnti	they (f)

III.1.2 Emphatic Personal Pronouns (Subject)

nk: n:it	I myself
šg: n:it	you (m.s.) yourself
šm: n:it	you (f.s.) yourself
nt:a n:it	he himself
nt:at n:it	she herself
nk:ni n:it	we ourselves
kn:i n:it	you (m.p.) yourselves
kn:inti n:it	you (f.p.) yourselves
nitni n:it	they (m) themselves
nitnti n:it	they (f) themselves

III.2 Possessive PronounsIII.2.1 Independent SetIII.2.1.1 Masculine (object possessed, s. or p.) <sup>2</sup>

winw	mine
winš	yours (m.s.)
win:m	yours (f.s.)
wins	his/hers
win:γ	ours
win:un	yours (m.p.)
win:knt	yours (f.p.)
winsn	theirs (m.)
winsnt	theirs (f.)

Examples:

winmi igra ?	Whose field is this?
win ɛli (/wins/)	It's Aly's. (It's his.)
winmi iy:isin: g:mi lbab ?	Whose horse is in front of the door?
win ɛm:i (/wins/)	My uncle's. (It's his.)
win ɛt:i (/wins/)	My aunt's. (It's hers.)

III.2.1.2 Feminine (object possessed, s. or p.) <sup>3</sup>

tinw	mine
tinš	yours (m.s.)
tin:m	yours (f.s.)
tins	his/her

tin:γ	ours
tin:un	yours (m.p.)
tin:knt	yours (f.p.)
tinsn	theirs (m)
tinsnt	theirs (f)

Examples:

tinmi tad:arta	Whose house is this?
tin ʕli (/tins/)	It's Aly's. (It's his.)
mat:a tad:artin: m:sin	Whose house is that over there
š:ražm izgzawn ?	with the two green windows?
tin ʕm:i (/tins/)	My uncle's. (It's his.)
tin ʕt:i (/tins/)	My aunt's. (It's hers.)

III.2.2 Possessive Pronominal SuffixesIII.2.2.1 Suffixed to nouns ending in consonant 4

	axam	(m.s.) tent
axam	inw	my tent
axam	nš	your (m.s.) tent
axam	n:m	your (f.s.) tent
axam	ns	his tent
axam	ns	her tent
axam	n:γ	our tent
axam	n:un	your (m.p.) <b>tent</b>
axam	n:knt	your (f.p.) tent
axam	nsn	their (m) tent
axam	nsnt	their (f) tent

## ixamm (m.p.) tents

ixamm	inw	my tents
ixamm	nš	your (m.s.) tents
ixamm	n:m	your (f.s.) tents
ixamm	ns	his tents
ixamm	ns	her tents
ixamm	n:γ	our tents
ixamm	n:un	your (m.p.) tents
ixamm	n:knt	your (f.p.) tents
ixamm	nsn	their (m) tents
ixamm	nsnt	their (f) tents

## tafunast (f.s.) cow

tafunast	inw	my cow
tafunast	nš	your (m.s.) cow
tafunast	n:m	your (f.s.) cow
tafunast	ns	his cow
tafunast	ns	her cow
tafunast	n:γ	our cow
tafunast	n:un	your (m.p.) cow
tafunast	n:knt	your (f.p.) cow
tafunast	nsn	their (m) cow
tafunast	nsnt	their (f) cow

## tifunasin (f.p.) cows

tifunasin	inw	my cows
tifunasin	nš	your (m.s.) cows

tifunasin	n:m	your (f.s.) cows
tifunasin	ns	his cows
tifunasin	ns	her cows
tifunasin	n:γ	our cows
tifunasin	n:un	your (m.p.) cows
tifunasin	n:knt	your (f.p.) cows
tifunasin	nsn	their (m) cows
tifunasin	nsnt	their (f) cows

III.2.2.2 Suffixed to nouns ending in vowel

isl:i (m.s.) stone

isl:i	nw	my stone
isl:i	nš	your (m.s.) stone
isl:i	n:m	your (f.s.) stone
isl:i	ns	his stone
isl:i	ns	her stone
isl:i	n:γ	our stone
isl:i	n:un	your (m.p.) stone
isl:i	n:knt	your (f.p.) stone
isl:i	nsn	their (m) stone
isl:i	nsnt	their (f) stone

	amksa	(m.s.) shepherd
amksa	nw	my shepherd
amksa	nš	your (m.s.) shepherd
amksa	n:m	your (f.s.) shepherd
amksa	ns	his shepherd
amksa	ns	her shepherd
amksa	n:γ	our shepherd
amksa	n:un	your (m.p.) shepherd
amksa	n:knt	your (f.p.) shepherd
amksa	nsn	their (m) shepherd
amksa	nsnt	their (f) shepherd

### III.2.2.3 Possessive Pronominal Suffixes Used with Kinship Terms <sup>5</sup>

(a) sm:i	my uncle "fa br"
sm:iš	your (m.s.) uncle
sm:in:m	your (f.s.) uncle
sm:is	his/her uncle
sm:in:γ	our uncle
sm:in:un	your (m.p.) uncle
sm:inknt	your (f.p.) uncle
sn:insn	their (m) uncle
sm:insnt	their (f) uncle

The following kinship terms follow the above paradigm:

sm:i 'fa br', st:i 'fa si', xali 'mo br', xalti 'mo si',  
mm:i 'son', il:i 'daughter'.

(b) b:a	my father
b:aš	your (m.s.) father
b:am	your (f.s.) father
b:as	his/her father
b:an:γ	our father
b:an:un	your (m.p.) father
b:an:knt	your (f.p.) father
b:ansn	their (m) father
b:ansnt	their (f) father
(c) m:a	my mother
mayš	your (m.s.) mother
maym	your (f.s.) mother
mays	his/her mother
m:atnγ	our mother
m:atun	your (m.p.) mother
m:anknt	your (f.p.) mother
maysn	their (m) mother
maysnt	their (f) mother

(d) nan:a	my fa mo
nan:anš	your (m.s.) fa mo
nan:an:m	your (f.s.) fa mo
nan:ans	his/her fa mo
nan:an:γ	our fa mo
nan:an:un	your (m.p.) fa mo
nan:anknt	your (f.p.) fa mo
nan:ansn	their (m) fa mo
nan:ansnt	their (f) fa mo

The following kinship terms follow the above paradigm:

yma 'brother', uttma 'sister'

(in 2nd person m.s. we get: ymaš and uttmaš)

(e) b:aḥl:u	my fa fa
b:aḥl:unš	your (m.s.) fa fa
b:aḥl:un:m	your (f.s.) fa fa
b:aḥl:uns	his/her fa fa
b:aḥl:un:γ	our fa fa
b:aḥl:un:un	your (m.p.) fa fa
b:aḥl:unknt	your (f.p.) fa fa
b:aḥl:unsn	their (m) fa fa
b:aḥl:usnt	their (f) fa fa

m:aḥl:u 'grandmother' (same as above paradigm)

(f)	argazinw		my husband
	argazin:m		your husband
	argazns		her husband
		argaz	man
(g)	tamd:uṭ:inw		my wife
	tamd:uṭ:nš		your wife
	tamd:uṭ:ns		his wife
		tamd:uṭ:	woman
(h)	lwašuninw		my children
	lwašum š		your (m.s.) children
	lwašunn:m		your (f.s.) children
	lwašunn s		his/her children
	lwašunn:γ		our children
	lwašun un		your (m.p.) children
	lwašun:ḵnt		your (f.p.) children
	lwašunsn		their (m) children
	lwašunsnt		their (f) children

/adḡ:a/ 'in-law' follows the above paradigm.

/tadḡ:alt/

Notice that if the kinship term ends in a vowel, then we do not add any suffix for 1st person singular (◁m:i, xali, b:a, m:a, b:aḥl:u ...). If the term ends in a consonant (argaz, tamd:uṭ: ...), then we add the suffix /-inw/ for 1st person singular.

### III.3 Pronominal Affixes for Verbs and Prepositions

The Object Pronominal Affixes as well as the Orientational Affixes /d/ of proximity and /n:/ of remoteness are here referred to as movable affixes. A movable affix is one that may be either pre-verbal (i.e. prefixed to the conjugated stem) or post-verbal (i.e. suffixed to the conjugated stem).

The position of the movable affix depends on the presence or absence of:

- (a) Temporal and/or Modal prefixes, i.e. prefixes deriving the different tenses and their modes: e.g., /ad-/ for future tense, /is-/ for interrogative mode and /ur-/ for negative mode
- (b) One of the following prepositions and conjunctions /xf/ 'on', /qbl/ 'before', /γr/ 'to', /g/ 'until', /al:iy/ 'until', /γas an:a/ 'when, as soon as', /l:iy/ 'when'
- (c) Question words: e.g., /ma/ 'what', etc.
- (d) Relative pronouns /ay/, /n:a/ 'who, which, that'

Examples (/-/ denotes morpheme boundaries)

#### (a) Temporal/Modal and Object Pronominal Affixes

i-sal-aγ	He asked us.
ad-aγ-i-sal	He will ask us.
da-aγ-i-t:sal	He asks us.
is-ur-aγ-i-sal	Didn't he ask us?

#### (b) Conjunctions and Orientational Affixes

γas an:a d-iwḍ-n iγṛ-d	As soon as they arrived (+ Prox.)
ḥusa ifaḍma	Husa called (+ Prox.) Fadma.

## (c) Question words and Pronominal Affixes

ma-as tn:a faḍma iḥusa ?      What did Fadma tell Husa?

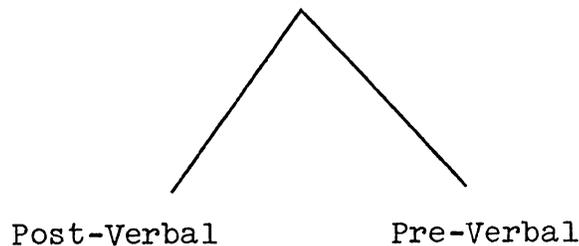
## (d) Relative Pronoun and Orientational Affix

argaz n:a d id:an yma ag:a      The man who came is my brother.

mani luq:t ay d it:ayad muha ?      When will Muha be back?

The above information may be diagrammed thus:

- [Temporal/Modal Aff. or Prep., Conjunction, Relative, Quest. word] +



The order in which these movable affixes occur in relation to one another is as follows:

Ind. Obj. + D. Obj. + Orient. Affix

Example:

/t-sa <sup>o</sup> f-t-d. (/>tsa <sup>o</sup> ftid/)	She was patient with him (+Prox.).
/i-γrf-as-t-d/ (/>iγrfastid/)	He threw it (m) at him (+Prox.).
/ad-as-t-d-i-γrf/ (/>adastidiγrf/)	He will throw it (m) at him(+Prox)

Notice: The anaptyctic vowel /-i-/ occurs with /t-d/ → /tid/ in the environment of D. Obj. + Proximity Affix for persons other than first.

Compare the above with:

/t-saɤf-aɣ-d/ → /tsaɤfayd/

She was patient with us (+Prox.).

### III.3.1 Affirmative

#### III.3.1.1 With Intransitive Verbs : Indirect Objects <sup>6</sup>

/siwl/ (intr.)

to speak (/siwl i/'speak to')

Past: /isiwl/

he spoke

isiwl | i

He spoke to me.

isiwl | aš

He spoke to you (m.s.).

isiwl | am

He spoke to you (f.s.).

isiwl | as

He spoke to him/her.

isiwl | aɣ

He spoke to us.

isiwl | awn

He spoke to you (m.p.).

isiwl | aknt

He spoke to you (f.p.).

isiwl | asn

He spoke to them (m).

isiwl | asnt

He spoke to them (f).

Future: /adisiwl/

he will speak

ad | i | ysiwl

He will speak to me.

ad | aš | isiwl

He will speak to you (m.s.).

ad | am | isiwl

He will speak to you (f.s.).

ad | as | isiwl

He will speak to him/her.

ad	ay	isiwl	He will speak to us.
ad	awn	isiwl	He will speak to you (m.p.).
ad	aḵnt	isiwl	He will speak to you (f.p.).
ad	asn	isiwl	He will speak to them (m).
ad	asnt	isiwl	He will speak to them (f).

Present: /daysawal/

day	isawal	he speaks
day	isawal	He speaks to me.
daš	isawal	He speaks to you (m.s.).
dam	isawal	He speaks to you (f.s.).
das	isawal	He speaks to him/her.
day	isawal	He speaks to us.
dawn	isawal	He speaks to you (m.p.).
daḵnt	isawal	He speaks to you (f.p.).
dasn	isawal	He speaks to them (m).
dasnt	isawal	He speaks to them (f).

Notice:

/-a + i-/ → /-ay-/

/-a + a-/ → /-a-/

/daaš/ → /daš/

/sl:m/ 'to greet'

/sl:m/ always occurs with a preposition: e.g.,

sl:m xf unbyi 'greet the guest'.

The preposition /xf/ 'on' occurs before nouns;

it has the allomorph /ɣif-/ before pronouns.

<u>Past:</u>	/isl:m/		he greeted
	isl:m	γif   i	He greeted me.
	isl:m	γif   š	He greeted you (m.s.).
	isl:m	γif   m	He greeted you (f.s.).
	isl:m	γif   s	He greeted him.
	isl:m	γif   s	He greeted her.
	isl:m	γif   nγ	He greeted us.
	isl:m	γif   un	He greeted you (m.p.).
	isl:m	γif   knt	He greeted you (f.p.).
	isl:m	γif   sn	He greeted them (m).
	isl:m	γif   snt	He greeted them (f).

Notice: /-aš, -am, -as .../ have the allomorphs / -š,  
-m, -s .../ after prepositions.

<u>Future:</u>	/adisl:m/		he will greet.
	ad	γif   i	<b>ysl:m</b> He will greet me.
	ad	γif   š	isl:m He will greet you (m.s.).
	ad	γif   m	isl:m He will greet you (f.s.).
	ad	γif   s	isl:m He will greet him.
	ad	γif   s	<b>isl:m</b> He will greet her.
	ad	γif   nγ	isl:m He will greet us.
	ad	γif   un	isl:m He will greet you (m.p.).
	ad	γif   knt	isl:m He will greet you (f.p.).
	ad	γif   sn	isl:m He will greet them (m).
	ad	γif   snt	isl:m He will greet them (f).

Present: /dayt:sl:am/

			he greets
da	γif i	t:sl:am	He greets me.
da	γif š	t:sl:am	He greets you (m.s.).
da	γif m	t:sl:am	He greets you (f.s.).
da	γif s	t:sl:am	He greets him.
da	γif s	t:sl:am	He greets her.
da	γif nγ	t:sl:am	He greets us.
da	γif un	t:sl:am	He greets you (m.p.).
da	γif knt	t:sl:am	He greets you (f.p.).
da	γif sn	t:sl:am	He greets them (m).
da	γif snt	t:sl:am	He greets them (f).

III.3.1.2 With Transitive Verbs: Direct Objects

/sal/ (trans.)      to ask

<u>Past:</u>	isal	he asked
	isal i	He asked me.
	isal š	He asked you (m.s.).
	isal šm	He asked you (f.s.).
	isal t	He asked him.
	isal t:	He asked her.
	isal aγ	He asked us.
	isal kn	He asked you (m.p.).
	isal knt	He asked you (f.p.).
	isal tn	He asked them (m).
	isal tnt	He asked them (f).

Future: /adisa/

adi	ysal	he will ask
		He will ask me.
ak:	isal	He will ask you (m.s.).
ak:m	isal	He will ask you (f.s.).
at:	<b>isal</b>	He will ask him.
at:	isal	He will ask her.
aday	isal	He will ask us.
ak:n	isal	He will ask you (m.p.).
ak:nt	isal	He will ask you (f.p.).
at:n	isal	He will ask them (m).
at:nt	isal	He will ask them (f).

## Notice:

/-d + š-/	→	/k:/
/-d + t-/	→	/t:/
/-d + t:-/	→	/t:/
/-d + k-/	→	/k:/

Present: /dayt:sal/

day	it:sal	he asks
		He asks me.
daš	it:sal	He asks you (m.s.).
dašm	it:sal	He asks you (f.s.).
dat	it:sal	He asks him.
dat:	it:sal	He asks her.
day	it:sal	He asks us.
daḵn	it:sal	He asks you (m.p.).

daḵnt	it:sal	He asks you (f.p.).
datn	it:sal	He asks them (m).
datnt	it:sal	He asks them (f).

/nɣ/		to kill
/inɣa/		he killed
inɣa	y f i	He killed me.
inɣa	š	He killed you (m.s.).
inɣa	šm	He killed you (f.s.).
inɣa	t	He killed him.
inɣa	t:	He killed her.
inɣa	y ay	He killed us.
inɣa	ḵn	He killed you (m.p.).
inɣa	ḵnt	He killed you (f.p.).
inɣa	tn	He killed them (m).
inɣa	tnt	He killed them (f).

Notice: /-a + i-/ → /ay/

/adinɣ/		he will kill <sup>6</sup>
adi	ynɣ	He will kill me.
ak:	inɣ	He will kill you (m.s.).
ak:m	inɣ	He will kill you (f.s.).
at:	inɣ	He will kill him.
at:	inɣ	He will kill her.
aday	inɣ	He will kill us.
ak:n	inɣ	He will kill you (m.p.).

ak:nt	inɣ	He will kill you (f.p.).
at:n	inɣ	He will kill them (m).
at:nt	inɣ	He will kill them (f).

Present: /daynq:a/

day	inq:a	he kills
daš	inq:a	He kills me.
dašm	inq:a	He kills you (m.s.).
dat	inq:a	He kills you (f.s.).
dat:	inq:a	He kills him.
day	inq:a	He kills her.
dakn	inq:a	He kills us.
daknt	inq:a	He kills you (m.p.).
datn	inq:a	He kills you (f.p.).
datnt	inq:a	He kills them (m).
		He kills them (m).

III. 3.2 NegativeIII. 3.2.1 With Intransitive Verbs: Indirect Objects

	/siwl/	to speak
<u>Past:</u>	/urisiwl/	he did not speak
	uri   ysiwl	He did not speak to me.
	uraš   isiwl	He did not speak to you (m.s.).
	uram   isiwl	He did not speak to you (f.s.).
	uras   isiwl	He did not speak to him/her.

uray		isiwl	He did not speak to us.
urawn		isiwl	He did not speak to you (m.p.).
uraknt		isiwl	He did not speak to you (f.p.).
urasn		isiwl	He did not speak to them (m).
urasnt		isiwl	He did not speak to them (f).

<u>Future:</u>	/ur in:i adisiwl/	*	he will not speak
	ur in:i adi	ysiwl	He will not speak to me.
	ur in:i adaš	isiwl	He will not speak to you (m.s.).
	ur in:i adam	isiwl	He will not speak to you (f.s.).
	ur in:i adas	isiwl	He will not speak to him/her.
	ur in:i aday	isiwl	He will not speak to us.
	ur in:i adawn	isiwl	He will not speak to you (m.p.).
	ur in:i adaknt	isiwl	He will not speak to you (f.p.).
	ur in:i adasn	isiwl	He will not speak to them (m).
	ur in:i adasnt	isiwl	He will not speak to them (f).

<u>Present:</u>	/urdaysawl/	he does not speak
	urday isawal	He does not speak to me.
	urdaš isawal	He does not speak to you (m.s.).
	urdam isawal	He does not speak to you (f.s.).

\* /in:i/ comes from verb /ini/ 'to say'; /urin:i/ 'he did not say' + /adisiwl/ 'he will speak'. This is the regular way of expressing future construction in the negative. Thus we get /urn:iγ ad:d:uγ/ 'I will not come'; /ur tn:i at:š/ 'she will not eat'; /ur n:in adsiwl:/ 'they will not speak'; etc.

urdas	isawal	He does not speak to him/her.
urday	isawal	He does not speak to us.
urdawn	isawal	He does not speak to you (m.p.).
urdaknt	isawal	He does not speak to you (f.p.).
urdasn	isawal	He does not speak to them (m).
urdasnt	isawal	He does not speak to them (f).

/sl:m/

to greet

Past:

/urisl:im/

he did not greet

ur	yif   i	ysl:im	He did not greet me.
ur	yif   š	isl:im	He did not greet you (m.s.).
ur	yif   m	isl:im	He did not greet you (f.s.).
ur	yif   s	isl:im	He did not greet him/her.
ur	yif   nγ	isl:im	He did not greet us.
ur	yif   un	isl:im	He did not greet you (m.p.).
ur	yif   knt	isl:im	He did not greet you (f.p.).
ur	yif   sn	isl:im	He did not greet them (m).
ur	yif   snt	isl:im	He did not greet them (f).

Future:

/ur in:i adisl:m/

he will not greet

ur	in:i   ad	yif   i	ysl:m	He will not greet me.
ur	in:i   ad	yif   š	isl:m	He will not greet you (m.s.).
ur	in:i   ad	yif   m	isl:m	He will not greet you (f.s.).
ur	in:i   ad	yif   s	isl:m	He will not greet him/her.

ur	in:i	ad	ɣif	ny	isl:m	He will not greet us.
ur	in:i	ad	ɣif	un	isl:m	He will not greet you (m.p.).
ur	in:i	ad	ɣif	ɣnt	isl:m	He will not greet you (f.p.).
ur	in:i	ad	ɣif	sn	isl:m	He will not greet them (m).
ur	in:i	ad	ɣif	snt	isl:m	He will not greet them (f).

Present: /urdayt:sl:am/

he does not greet

ur	dayif	i	yt:sl:am	He does not greet me.
ur	dayif	š	it:sl:am	He does not greet you (m.s.).
ur	dayif	m	it:sl:am	He does not greet you (f.s.).
ur	dayif	s	it:sl:am	He does not greet him/her.
ur	dayif	ny	it:sl:am	He does not greet us.
ur	dayif	un	it:sl:am	He does not greet you (m.p.).
ur	dayif	ɣnt	it:sl:am	He does not greet you (f.p.).
ur	dayif	sn	it:sl:am	He does not greet them (m).
ur	dayif	snt	it:sl:am	He does not greet them (f).

### III. 3.2.2 With Transitive Verbs: Direct Objects

/sal/

to ask

Past: /urisal/

he did not ask

ur	i	ysal	He did not ask me.
ur	š	isal	He did not ask you (m.s.).
ur	šm	isal	He did not ask you (f.s.).
ur	t	isal	He did not ask him.
ur	t:	isal	He did not ask her.

ur	ay	isal	He did not ask us.
ur	kn	isal	He did not ask you (m.p.).
ur	knt	isal	He did not ask you (f.p.).
ur	tn	isal	He did not ask them (m).
ur	tnt	isal	He did not ask them (f).

Future: /ur in:i adisal/

ur	in:i	adi	ysal	he will not ask
ur	in:i	ak:	isal	He will not ask me.
ur	in:i	ak:m	isal	He will not ask you (m.s.).
ur	in:i	ak:m	isal	He will not ask you (f.s.).
ur	in:i	at:	isal	He will not ask him.
ur	in:i	at:	isal	He will not ask her.
ur	in:i	aday	isal	He will not ask us.
ur	in:i	ak:n	isal	He will not ask you (m.p.).
ur	in:i	ak:nt	isal	He will not ask you (f.p.)
ur	in:i	at:n	isal	He will not ask them (m).
ur	in:i	at:nt	isal	He will not ask them (f).

Present: /urdayt:sal/

ur	day	it:sal	he does not ask
ur	daš	it:sal	He does not ask me.
ur	dašm	it:sal	He does not ask you (m.s.).
ur	dašm	it:sal	He does not ask you (f.s.).
ur	dat	it:sal	He does not ask him.
ur	dat:	it:sal	He does not ask her.

ur	day	it:sal	He does not ask us.
ur	dakn	it:sal	He does not ask you (m.p.).
ur	daknt	it:sal	He does not ask you (f.p.).
ur	datn	it:sal	He does not ask them (m).
ur	datnt	it:sal	He does not ask them (f).

	/nɣ/	to kill
<u>Past:</u>	/urinyi/	he did not kill
	uri   ynɣi	He did not kill me.
	urš   inɣi	He did not kill you (m.s.).
	uršm   inɣi	He did not kill you (f.s.).
	urt   inɣi	He did not kill him.
	urt:   inɣi	He did not kill her.
	uray   inɣi	He did not kill us.
	urkn   inɣi	He did not kill you (m.p.).
	urknt   inɣi	He did not kill you (f.p.).
	urtn   inɣi	He did not kill them (m).
	urtnt   inɣi	He did not kill them (f).
	/-i + i-/ → /-iy-/	

<u>Future:</u>	/ur in:i adiny/	he will not kill
	ur   in:i   adi   ynɣ	He will not kill me.
	ur   in:i   ak:   inɣ	He will not kill you (m.s.).
	ur   in:i   ak:m   inɣ	He will not kill you (f.s.).

ur	in:i	at	iny	He will not kill him.
ur	in:i	at:	iny	He will not kill her.
ur	in:i	adaγ	iny	He will not kill us.
ur	in:i	aḵ:n	iny	He will not kill you (m.p.).
ur	in:i	aḵ:nt	iny	He will not kill you (f.p.).
ur	in:i	at:n	iny	He will not kill them (m).
ur	in:i	at:nt	iny	He will not kill them (f).

Present: /urdaynq:a/

he does not kill

ur	day	inq:ā	He does not kill me.
ur	daš	inq:a	He does not kill you (m.s.).
ur	dašm	inq:a	He does not kill you (f.s.).
ur	dat	inq:a	He does not kill him.
ur	dat:	inq:a	He does not kill her.
ur	daγ	inq:a	He does not kill us.
ur	daḵn	inq:a	He does not kill you (m.p.).
ur	daḵnt	inq:a	He does not kill you (f.p.).
ur	datn	inq:a	He does not kill them (m).
ur	datnt	inq:a	He does not kill them (f).

### III. 3.3 Interrogative

#### III.3.3.1 With Intransitive Verbs: Indirect Objects

/siwl/

to speak

<u>Past:</u>	/is isiwl/	did he speak?
	is   i   ysiwl	Did he speak to me?
	is   aš   isiwl	Did he speak to you (m.s.)?
	is   am   isiwl	Did he speak to you (f.s.)?
	is   as   isiwl	Did he speak to him/her?
	is   aγ   isiwl	Did he speak to us?
	is   awn   isiwl	Did he speak to you (m.p.)?
	is   aknt   isiwl	Did he speak to you (f.p.)?
	is   asn   isiwl	Did he speak to them (m)?
	is   asnt   isiwl	Did he speak to them (f)?

<u>Future:</u>	/id: adisiwl/	will he speak?
	id:   ad   i   ysiwl	Will he speak to me?
	id:   ad   aš   isiwl	Will he speak to you (m.s.)?
	id:   ad   am   isiwl	Will he speak to you (f.s.)?
	id:   ad   as   isiwl	Will he speak to him/her?
	id:   ad   aγ   isiwl	Will he speak to us?
	id:   ad   awn   isiwl	Will he speak to you (m.p.)?
	id:   ad   aknt   isiwl	Will he speak to you (f.p.)?
	id:   ad   asn   isiwl	Will he speak to them (m)?
	id:   ad   asnt   isiwl	Will he speak to them (f)?

	/sl:m/		to greet
<u>Past:</u>	/is isl:m/		did he greet?
	is   γif   i   ysl:m		Did he greet me?
	is   γif   š   isl:m		Did he greet you (m.s.)?
	is   γif   m   isl:m		Did he greet you (f.s.)?
	is   γif   s   isl:m		Did he greet him/her?
	is   γif   nγ   isl:m		Did he greet us?
	is   γif   un   isl:m		Did he greet you (m.p.)?
	is   γif   knt   isl:m		Did he greet you (f.p.)?
	is   γif   sn   isl:m		Did he greet them (m)?
	is   γif   snt   isl:m		Did he greet them (f)?
<u>Future:</u>	/id: ad isl:m/		will he greet?
	id:   ad   γif   i   ysl:m		Will he greet me?
	id:   ad   γif   š   isl:m		Will he greet you (m.s.)?
	id:   ad   γif   m   isl:m		Will he greet you (f.s.)?
	id:   ad   γif   s   isl:m		Will he greet him/her?
	id:   ad   γif   nγ   isl:m		Will he greet us?
	id:   ad   γif   un   isl:m		Will he greet you (m.p.)?
	id:   ad   γif   knt   isl:m		Will he greet you (f.p.)?
	id:   ad   γif   sn   isl:m		Will he greet them (m)?
	id:   ad   γif   snt   isl:m		Will he greet them (f)?

Present: /is dayt:sl:am/

is	da	γif	i	yt:sl:am
is	da	γif	š	it:sl:am
is	da	γif	m	it:sl:am
is	da	γif	s	it:sl:am
is	da	γif	nγ	it:sl:am
is	da	γif	un	it:sl:am
is	da	γif	knt	it:sl:am
is	da	γif	sn	it:sl:am
is	da	γif	snt	it:sl:am

does he greet?

Does he greet me?

Does he greet you (m.s.)?

Does he greet you (f.s.)?

Does he greet him/her?

Does he greet us?

Does he greet you (m.p.)?

Does he greet you (f.p.)?

Does he greet them (m)?

Does he greet them (f)?

### III. 3.3.2 With Transitive Verbs: Direct Objects

/sal/

to ask

Past: /is isal/

is	i	ysal
is	aγ	isal
is	tnt	isal

did he ask?

Did he ask me?

Did he ask us?

Did he ask them (f)?

Future: /id: adisal/

id:	ak:	isal
id:	at:	isal
id:	aḵ:n	isal
id:	at:nt	isal

will he ask?

Will he ask you (m.s.)?

Will he ask him?

Will he ask you (m.p.)?

Will he ask them (f)?

Present: /is dayt:sal/

is	day	it:sal
is	dašm	it:sal

does he ask?

Does he ask me?

Does he ask you (f.s.)?

is	dat:	it:sal	Does he ask her?
is	daḵn	it:sal	Does he ask you (m.p.)?
is	datn	it:sal	Does he ask them (m)?

/nɣ/

Past:

/is inɣa/

is	i	ynɣa	to kill
is	t:	inɣa	did he kill?
is	aɣ	inɣa	Did he kill me?
is	tn	inɣa	Did he kill her?
			Did he kill us?
			Did he kill them (m)?

Future:

/id: adinɣ/

id:	adi	ynɣ	will he kill?
id:	ak:m	inɣ	Will he kill me
id:	at:	inɣ	Will he kill you (f.s.)?
id:	adaɣ	inɣ	Will he kill him?
id:	aḵ:nt	inɣ	Will he kill us?
id:	at:nt	inɣ	Will he kill you (f.p.)?
			Will he kill them (f)?

Present: /is daynq:a/

is	day	inq:a	does he kill?
is	dašm	inq:a	Does he kill me?
is	dat	inq:a	Does he kill you (f.s.)?
is	day	inq:a	Does he kill him?
is	daḵnt	inq:a	Does he kill us?
is	datnt	inq:a	Does he kill you (f.p.)?
			Does he kill them (f)?

III.3.4 Negative InterrogativeIII.3.4.1 With Intransitive Verbs: Indirect Objects

/siwl/		to speak
/isur isiwł/		didn't he speak?
isur   i	ysiwl	Didn't he speak to me?
isur   aš	isiwl	Didn't he speak to you (m.s.)?
isur   am	isiwl	Didn't he speak to you (f.s.)?
isur   as	isiwl	Didn't he speak to him/her?
isur   aγ	isiwl	Didn't he speak to us?
isur   awn	iniwl	Didn't he speak to you (m.p.)?
isur   aknt	isiwl	Didn't he speak to you (f.p.)?
isur   asn	isiwl	Didn't he speak to them (m)?
isur   asnt	isiwl	Didn't he speak to them (f)?

Future: /isur isawal/                      won't he speak?

Notice that in this particular construction, the future is formed from the conjugated Habitual Verb Stem.

isur   i	ysawal	Won't he speak to me?
isur   aš	isawal	Won't he speak to you (m.s.)?
isur   am	isawal	Won't he speak to you (f.s.)?
isur   as	isawal	Won't he speak to him/her?
isur   aγ	isawal	Won't he speak to us?
isur   awn	isawal	Won't he speak to you (m.p.)?
isur   aknt	isawal	Won't he speak to you (f.p.)?

isur	asn	isawal
------	-----	--------

Won't he speak to them (m)?

isur	asnt	isawal
------	------	--------

Won't he speak to them (f)?

Present: /isur daysawal/

isur	day	isawal
------	-----	--------

doesn't he speak?

isur	daš	isawal
------	-----	--------

Doesn't he speak to me?

isur	dam	isawal
------	-----	--------

Doesn't he speak to you (m.s.)?

isur	das	isawal
------	-----	--------

Doesn't he speak to you (f.s.)?

isur	day	isawal
------	-----	--------

Doesn't he speak to him/her?

isur	dawn	isawal
------	------	--------

Doesn't he speak to us?

isur	daknt	isawal
------	-------	--------

Doesn't he speak to you (m.p.)?

isur	dasn	isawal
------	------	--------

Doesn't he speak to you (f.p.)?

isur	dasnt	isawal
------	-------	--------

Doesn't he speak to them (m)?

Doesn't he speak to them (f)?

	/sl:m/		to greet
<u>Past:</u>	/isur isl:im/		didn't he greet?
	isur   yif   i   ysl:im		Didn't he greet me?
	isur   yif   š   isl:im		Didn't he greet you (m.s.)?
	isur   yif   m   isl:im		Didn't he greet you (f.s.)?
	is   yif   s   isl:im		Didn't he greet him/her?
	isur   yif   nγ   isl:im		Didn't he greet us?
	isur   yif   un   isl:im		Didn't he greet you (m.p.)?
	isur   yif   knt   isl:im		Didn't he greet you (f.p.)?
	isur   yif   sn   isl:im		Didn't he greet them (m)
	isur   yif   snt   isl:im		Didn't he greet them (f)?
<u>Future:</u>	/isur it:sl:am/		won't he greet?
	isur   yif   i   yt:sl:am		Won't he greet me?
	isur   yif   š   it:sl:am		Won't he greet you (m.s.)?
	isur   yif   m   it:sl:am		Won't he greet you (f.s.)?
	isur   yif   s   it:sl:am		Won't he greet him/her?
	isur   yif   nγ   it:sl:am		Won't he greet us?
	isur   yif   un   it:sl:am		Won't he greet you (m.p.)?
	isur   yif   knt   it:sl:am		Won't he greet you (f.p.)?
	isur   yif   sn   it:sl:am		Won't he greet them (m)?
	isur   yif   snt   it:sl:am		Won't he greet them (f)?

<u>Present:</u>	/isur dayt:sl:am/	doesn't he greet?
	isur   da   γif   i   yt:sl:am	Doesn't he greet me?
	isur   da   γif   š   it:sl:am	Doesn't he greet you (m.s.)?
	isur   da   γif   m   it:sl:am	Doesn't he greet you (f.s.)?
	isur   da   γif   s   it:sl:am	Doesn't he greet him/her?
	isur   da   γif   nγ   it:sl:am	Doesn't he greet us?
	isur   da   γif   un   it:sl:am	Doesn't he greet you (m.p.)?
	isur   da   γif   knt   it:sl:am	Doesn't he greet you (f.p.)?
	isur   da   γif   sn   it:sl:am	Doesn't he greet them (m)?
	isur   da   γif   snt   it:sl:am	Doesn't he greet them (f)?

III.3.4.2 With Transitive Verbs: Direct Objects

	/sal/	to ask
<u>Past:</u>	/isur isal/	didn't he ask?
	isur   i   ysal	Didn't he ask me?
	isur   š   isal	Didn't he ask you (m.s.)?
	isur   šm   isal	Didn't he ask you (f.s.)?
	isur   t   isal	Didn't he ask him?
	isur   t:   isal	Didn't he ask her?
	isur   aγ   isal	Didn't he ask us?
	isur   kn   isal	Didn't he ask you (m.p.)?
	isur   knt   isal	Didn't he ask you (f.p.)?
	isur   tn   isal	Didn't he ask them (m)?
	isur   tnt   isal	Didn't he ask them (f)?

Future: /isur it:sal/

isur	i	yt:sal
isur	š	it:sal
isur	šm	it:sal
isur	t	it:sal
isur	t:	it:sal
isur	aγ	it:sal
isur	kn	it:sal
isur	knt	it:sal
isur	tn	it:sal
isur	tnt	it:sal

won't he ask?  
 Won't he ask me?  
 Won't he ask you (m.s.)?  
 Won't he ask you (f.s.)?  
 Won't he ask him?  
 Won't he ask her?  
 Won't he ask us?  
 Won't he ask you (m.p.)?  
 Won't he ask you (f.p.)?  
 Won't he ask them (m)?  
 Won't he ask them (f)?

/nγ/

to kill

Past: /isur inγi/

isur	i	ynγi
isur	š	inγi
isur	šm	inγi
isur	t	inγi
isur	t:	inγi
isur	aγ	inγi
isur	kn	inγi
isur	knt	inγi
isur	tn	inγi
isur	tnt	inγi

didn't he kill?  
 Didn't he kill me?  
 Didn't he kill you (m.s.)?  
 Didn't he kill you (f.s.)?  
 Didn't he kill him?  
 Didn't he kill her?  
 Didn't he kill us?  
 Didn't he kill you (m.p.)?  
 Didn't he kill you (f.p.)?  
 Didn't he kill them (m)?  
 Didn't he kill them (f)?

Future: /isur inq:a/

isur	i	ynq:a
isur	š	inq:a
isur	šm	inq:a
isur	t	inq:a
isur	t:	inq:a
isur	aɣ	inq:a
isur	kn	inq:a
isur	knt	inq:a
isur	tn	inq:a
isur	tnt	inq:a

won't he kill?  
 Won't he kill me?  
 Won't he kill you (m.s.)?  
 Won't he kill you (f.s.)?  
 Won't he kill him?  
 Won't he kill her?  
 Won't he kill us?  
 Won't he kill you (m.p.)?  
 Won't he kill you (f.p.)?  
 Won't he kill them (m)?  
 Won't he kill them (f)?

Present: /isur daynq:a/

isur	day	inq:a
isur	daš	inq:a
isur	dašm	inq:a
isur	dat	inq:a
isur	dat:	inq:a
isur	daɣ	inq:a
isur	da <sub>ɣ</sub> kn	inq:a
isur	da <sub>ɣ</sub> knt	inq:a
isur	datn	inq:a
isur	datnt	inq:a

doesn't he kill?  
 Doesn't he kill me?  
 Doesn't he kill you (m.s.)?  
 Doesn't he kill you (f.s.)?  
 Doesn't he kill him?  
 Doesn't he kill her?  
 Doesn't he kill us?  
 Doesn't he kill you (m.p.)?  
 Doesn't he kill you (f.p.)?  
 Doesn't he kill them (m)?  
 Doesn't he kill them (f)?

III.4 Demonstrative Pronouns (Independent Set)<sup>7</sup>III.4.1 Singular

	Proximate	Remote
m.	wa	wan:
f.	ta	tan:

III.4.2 Plural

	Proximate	Remote
m.	wi	win:
f.	ti	tin:

III.4.3 Demonstrative Pronominal Suffixes<sup>8</sup>

III.4.3.1	/-a#/	/-in:#/
	this	that
	(m, f, s, p)	(m, f, s, p)

Suffixed to nouns ending in  $\begin{Bmatrix} -a\# \\ -u\# \end{Bmatrix} \longrightarrow \begin{Bmatrix} -ya\# & \text{this} \\ -yu\# \\ -yin:\# & \text{that} \end{Bmatrix}$

i.e.  $\begin{array}{l} /-a\# + -a\#/ \longrightarrow /-aya\#/ \\ /-u\# + -u\#/ \longrightarrow /-uyu\#/ \\ /-a\# + -in:\#/ \longrightarrow /-ayin:\#/ \\ /-u\# + -in:\#/ \longrightarrow /-uyin:\#/ \end{array}$

## Examples:

tad:arta	this house
ṣ:baha	this morning
tad:artin:	that house
tad:rwinin:	those houses
tabardaya (<tabrda)	this pack-saddle
tabardayin:	that pack-saddle
ag:uya (<ag:u)	this smoke

III.4.3.2	/-d:γ /	this
	tad:artd:γ	this house
	ṣ:bahd:γ	this morning
	tad:rwind:γ	these houses
	tabardad:γ	this pack-saddle

III.4.3.3	/-n:a /	that
	For things which you do not see.	
	tad:artn:a	that house
	tad:rwinn:a	those houses
	tabardan:a	that pack-saddle
	argazn:a	that man
	irgznn:a	those men

III.4.4 The Demonstrative ha, han

(Must be followed by Noun or Pronoun)

ha	here, there
ha muḥa id:ad	Here comes Muha.
ha faḍma td:ad	Here comes Fadma.
ha lwašun d:and	Here come the kids.
han	here, there
han muḥa id:ad	Here comes Muha.
han lwašun d:and	Here come the kids.

III.4.4.1 ha + Personal Pronouns

hank:	Here I am.
hašg:	Here you are (m.s.).
hašn:	Here you are (f.s.).
hant:a	Here he is.
hant:at	Here she is.
hanḵ:ni	Here we are.
hanḵn:i	Here you are (m.p.).
hanḵn:inti	Here you are (f.p.).
hanitni	Here they are (m).
hanitnti	Here they are (f).

Examples:

hant:a uriri adid:u	(here) He doesn't want to go.
hanḵ:ni urnri and:u	(here) We don't want to go.

III.4.4.2 hat here, there

In III.4.4 above, /ha/ or /han/ 'here, there' must be followed by a Noun or a Pronoun. In this section we will see that /hat/ 'here, there' must be followed by a verb.

hat id:ad	There he comes.
hat td:ad	There she comes.
hat d:and	There they come (m).
hat d:and	There they come (f).

In the case of third person singular and plural, we can get pronominal suffixes following ha:

hat	There he is.
hat:	There she is.
hatn	There they are (m).
hatnt	There they are (f).
hat id:ad	Here he comes.
hatnt d:and	Here they (f) come.

III.5 Relative Pronouns<sup>9</sup>III.5.1 Subject

(a) n:a	who (invariable)
	which

a gaz n:a did:an yma ag:a. The man who came is my brother.

(b) ay	who
--------	-----

nitni ag: d:an yr s:uq: It is them who went to the market.

ay + id:an → ag: d:an
-----------------------

N.B.: /id:an/ is past participle of /d:u/, which is used only with the Subject Relative Pronouns. It has the invariable form /id:an/ with m, f, s, or p. Final /-y#/ of /ay/ plus initial /i-/ of the past participle always  $\longrightarrow$  /g:/. The Past Participle is formed by suffixing /-n#/ to verb inflected for  $P_3 N_s G_m$  in the past tense. The Present Participle is formed by suffixing /-n#/ to verb VH form inflected for  $P_3 N_s G_m$ . (See Grammar of the Verb.)

- |                            |                                 |
|----------------------------|---------------------------------|
| (c) a                      | who                             |
| nk: a s in:an d:u          | It was me who told him to go.   |
| (d) un:a                   | he who                          |
| un:a uririn adid:u ,       | He who does not want to go,     |
| iq:im                      | let him stay.                   |
| un:a yran adid:u id:u      | He who wants to go, let him go. |
| (e) tn:a                   | she who                         |
| tn:a uririn at:d:u ,       | She who does not want to go,    |
| tq:im                      | let her stay.                   |
| (f) win:a                  | those (m) who                   |
| win:a uririn add:un, q:imm | Those who do not want to go,    |
|                            | let them stay.                  |

- (g) tin:a those (f) who  
 tin:a uririn add:unt , Those who do not want to go,  
 q:imnt let them stay.
- (h) l:i who, which  
 argaz l:i did:an yma ag:a The man who came is my brother.

### III.5.2 Object <sup>10</sup>

- (a) n:a whom, which  
 tamḍ:uṭ: n:a tan:ayd , The woman whom you saw is  
 ut:ma ay tga my sister.
- (b) l:i whom, which  
 tamḍ:uṭ: l:i tan:ayd , The woman whom you saw is  
 ut:ma ay tga my sister.
- (c) ay whom, which  
 irdn ay nz:nza It is the wheat which we sold.

### III.6 Indefinite Pronouns <sup>11</sup>

- 'this other one', 'that other one', 'these other ones'  
 'those other ones'

#### III.6.1 Proximate Indefinite Pronouns <sup>12</sup>

	m.	f.
sg.	~ wayaḍn	~ tayaḍn
	wayaḍnin	tayaḍnin
pl.	~ widyaḍn	~ tidyaḍn
	widyaḍnin	tidyaḍnin

- id: argaza ag:d:an      Is it this man who went to the  
 yr s:uq: ?      market?  
 = la wayaḍn      No, it is this other one.
- id: md:na ag:d:an yr      Is it these people who went  
 s:uq: ?      to the market?  
 = la widyaḍnin      No, it is those others.
- id: tamḍ:uṭ:a ag:d:an      Is it this woman who went to  
 yr s:uq: ?      the market?  
 = la tayaḍn      No, it is this other one.
- id: tiwtmina ag:d:an      Is it these women who went  
 yr s:uq: ?      to the market?  
 = la tidyaḍnin      No, it is those others.

### III.6.2 Remote Indefinite Pronouns

	m.	f.
sg.	~ wan:yaḍn	~ tan:yaḍn
	wan:yaḍnin	tan:yaḍnin
pl.	~ win:yaḍn	~ tin:yaḍn
	win:yaḍnin	tin:yaḍnin

N.B.: yaḍn ~ yaḍnin = other or others

- id: s:rwała ay trid ?      Do you want this pair of trousers?  
 = la wan:yaḍn      No, (I want) that other one.
- id: s:rawla ay trid ?      Do you want these trousers?  
 = la win:yaḍn      No, (I want) those other ones.

- id: lq:amiža ay trid ? Do you want this shirt?  
 = la tan:yaḍn No, I want that other one.  
 - id: lq:mayza ay trid ? Do you want these shirts?  
 = la tin:yadnin No, I want those others.

### III.6.3 Every, Each

k:u	every
k:uša	everyone
k:uyun	each one (m)
k:uyut	each one (f)
k:u argaz γuṛs iy:is	Every man has a horse.
k:u tamd:ut: γuṛs	Every woman has a djellaba.
taq:b:ut:	
k:uša id:a ibrdan:s	Everyone went his way.
k:uyun γuṛs iy:is	Each one (m) has a horse.
k:uyut γuṛs taq:b:ut:	Each one (f) has a djellaba.

\* \* \*

Notes on the Pronominal System in Ayt Seghrouchen (A.S.)

<sup>1</sup> In Ayt Seghrouchen this appears as:

ntš ~ ntšint	I
šk: ~ šk:int	you (ms)
šm: ~ šm:int	you (fs)
nt:a ~ nt:an	he
nt:at	she
ntšni	we (m)
ntšninti	we (f)
šn:i	you (mp)
šn:inti	you (fp)
nitni	they (m)
nitnti	they (f)

<sup>2</sup> The Ayt Seghrouchen paradigm is:

/winw, win:š, win:m, win:s,  
win:x, win:un, win:šnt,  
win:sn, win:snt/ 'mine' (m), 'yours' (ms) etc.

<sup>3</sup> The Ayt Seghrouchen paradigm is:

/tinw, tin:š, tin:m,  
tin:s, tin:x, tin:um,  
tin:šnt, tin:sn, tin:snt/ 'mine' (f), 'yours' (fs), etc.

4 The Ayt Seghrouchen paradigm is:

axam inw	my tent
axam n:s	your (ms) tent
axam n:m	your (fs) tent
axam n:s	his tent
axam n:s	her tent
axam n:x	our tent
axam n:un	your (mp) tent
axam n:šnt	your (fp) tent
axam n:sn	their (m) tent
axam n:snt	their (f) tent

5 The kinship terms pronominal suffixes in Ayt Seghrouchen are for:

(a) ɤm:i my uncle "Frabr"

ɤm:i, ɤm:iš, ɤm:im, ɤm:is,  
 ɤm:itnx, ɤm:itun, ɤm:išnt,  
 ɤm:itsn, ɤm:itsnt

(b) ib:a my father

im:a my mother

nan:a my fa mo

dad:a my fa fa

ib:a, ib:aš, ib:am, ib:as,  
 ib:atnx, ib:atun, ib:ašnt,  
 ib:asn, ib:atsnt

- (c) lawšun            child  
 aryaz                man  
 tamṭ:uṭ:            woman

lwašuninw, lwašunn:s, lwašunn:m,  
 lwašunn:s, lwašunn:x, lwašunn:un,  
 lwašunn:šnt, lwašunn:sn, lwašunn:snt

6 The Ayt Seghrouchen paradigms are:

(a) for Indirect Objects (i.e. with intransitive verbs,  
 e.g., /s:iwl/ 'to speak')

is:iwl		i		he spoke to me
is:iwl		aš		he spoke to you (ms)
is:iwl		am		he spoke to you (fs)
is:iwl		as		he spoke to him
is:iwl		ax		he spoke to us
is:iwl		awn		he spoke to you (mp)
is:iwl		awnt ~ ašnt		he spoke to you (fp)
is:iwl		asn		he spoke to them (m)
is:iwl		asnt		he spoke to them (f)

(b) for Direct Objects (i.e. with transitive verbs, e.g.,  
 /sal/ 'to ask')

isal		i		he asked me
isal		š		he asked you (ms)
isal		šm		he asked you (fs)
isal		t		he asked him
isal		t:		he asked her
isal		ax		he asked us

isal		šun	he asked you (mp)
isal		šunt	he asked you (fp)
isal		tn	he asked them (m)
isal		tnt	he asked them (f)

Notice:

With the Habitual stem prefix /l:a-/ in Ayt Seghrouchen, the pronominal affix can be either pre-verbal or post-verbal: e.g.,

damisawal	(A.A.)	he speaks to you (fs)
dašmit:sal	(A.A.)	he asked you (fs)

## Compare

l:ayamis:awal	~	l:ays:awalam	(A.S.)
l:ašmit:sal	≈	l:ayt:salšm	(A.S.)

- 7 The Ayt Seghrouchen pronominal suffixed set associated with a transitive verb in the future is:

adi		ymγ	he will kill me
aš:		iny	he will kill you (ms)
as:m		iny	he will kill you (fs)
at:		iny	he will kill him
adt:		iny	he will kill her
adax		iny	he will kill us
aš:un		iny	he will kill you (mp)
at:n		iny	he will kill them (m)
at:nt		iny	he will kill them (f)

8 The Ayt Seghrouchen Demonstrative Pronouns are:

1. Singular

wu, win:

tu, tin:

2. Plural

inu, inin:

tinu, tinin:

9 Demonstrative Suffixes in Ayt Seghrouchen:

/-u#/ ,

/-in:#/

10 Relative Pronouns, Subject in Ayt Seghrouchen:

(a) din who, which

aryaz din d:iraħn una ag:žū

The man who came is my brother

(b) ay who

muhnd ag:usin z:it

It's Muha who took (carried) the oil.

(c) a who

ntš ayas ( ~ as) in:an adiraħ

It's me who told him to go.

(d) udin he who

udin uribyın adiraħ iq:im

He who does not want to go, let him stay.

- (e) td:in td:in she who  
td:in uribγin ad:raḥ tq:im  
She who does not want to go, let her stay.
- (f) idin those (m) who  
idin uribγin adraḥn q:imn  
Those (m) who do not want to go, let them stay.
- (g) tidin those (f) who  
tidin uribγin adraḥnt q:imnt  
Those (f) who do not want to go, let them stay.
- (h) din who, which  
aryaz din d:iraḥn, uma ag:žū  
The man who came is my brother.

11 Object

- (a) & (b) din whom, which  
tamṭ:ut: din tẓrit ultma ay tẓū  
The woman whom you saw is my sister.
- (c) same

## 12 (a) Proximate Indefinite Pronouns

	m	f
s	~ wuyḍnin wuḍnin	~ tuyḍnin tuḍnin
pl	~ inuyḍnin inuḍnin	~ tinuyḍnin tinuḍnin

## Examples:

\_\_isd aryazu ag:rahn yr s:uq: ?

= la wudnin

- Is it this man who went to the market?
- No, it is this other one.

\_\_isd mid:nu ag:rahn yr s:uq: ?

= ihi, inudnin

- Is it these people who went to the market?
- No, it is those others.

\_\_isd tamt:ut:u ag:rahn yr s:uq: ?

= ihi, tndnin.

- Is it this woman who went to the market?
- No, it is this other one.

\_\_isd tiy:alinu ag:rahn yr s:uq: ?

= ihi, tinuydnin .

- Is it these women who went to the market?
- No, it is those others.

## (b) Remote Indefinite Pronouns

	m	f
s	udinḍnin	td:inḍnin
pl	idindnin	tidindnin

N.B. :ḍnin = other, others; idnin = others

Examples:

\_\_isd s:rawlu ay tbyit ?  
 \_\_la, uдинnin

- Do you want this pair of trousers?
- No, (I want) that other one.

\_\_isd s:rawlu ay tbyit ?  
 \_\_la, idindnin

- Do you want these trousers ?
- No, (I want) those other ones.

\_\_isd lq:amižayu ay tbyit ?  
 \_\_ihi, td:indnin .

- Do you want this shirt ?
- No, I want that other one.

\_\_isd lq:mayžu ay tbyit ?  
 \_\_la, tidindnin .

- Do you want these shirts?
- No, I want those others.

## (c) Every, each

kul:	every
kul:ṣ̌a, kul:	everyone
kul:idž	each one (m)
kul:išt	each one (f)

- kul: aryaz γrs yis .  
Every man has a horse.

- kul: tamt:ut γrs taqb:ut: .  
Every woman has a djellaba .

- kul:ṣ̌a irah ibrdann:s .  
Everyone went his way.

- kul:idž γrs yis ,  
Each one (m) has a horse.

- kul:išt γrs taq:b:ut: .  
Each one (f) has a djellaba.

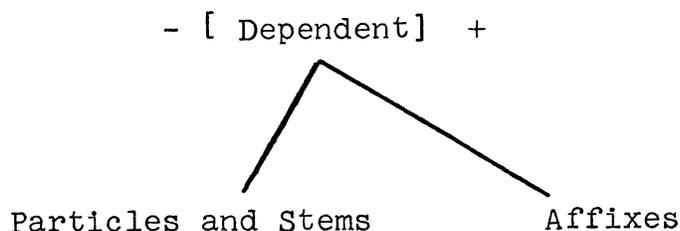
#### IV. Grammar of the Noun

This section on the grammar of the noun is concerned mainly with Ayt Ayache. In general, the basic concepts of the system apply to Ayt Seghrouchen as well. Derivations (Noun stems from verb stems, those of number and gender, Augmentatives, Diminutives, etc.) are similar in both dialects. Construct State of the Noun is also more or less alike in both dialects. In other words, the differences between the two dialects as far as the grammar of the noun is concerned are phonological and lexical rather than morphological. Notes showing such differences appear at the end of this section.

## IV. The Noun

IV.1 Introduction

Morphemes in Tamazight may be divided into three major classes: particles, stems and affixes, or if considered in terms of more general terminology, into two classes, namely Major and Minor classes of morphemes. The major classes are stems; the minor classes are particles and affixes. This classification into stems, particles and affixes is based on the two morphological features shown in this figure:



Stems are either Verb Stems or Noun Stems. This distinction is based on the kind of affix with which they occur. For a complete discussion of the Verb Stems see Grammar of the Verb. Any stem in Tamazight is either Basic or Derived.

Affixes are either verb or noun affixes. Verb affixes are either movable or fixed affixes. (See Grammar of the Verb.) All noun affixes are fixed affixes.

#### IV.2 Basic and Derived Noun Stems and Nouns

A Basic Noun Stem is one which has no relation to any verb stem from which it could be derived. Examples of a Derived Noun Stem are the stems of Nouns of Action (N-act), Agent (N-agt), Instrument (N-instr), Place (N-loc), and Occupation (N-occup). This means that the stems of such nouns are derived from verbs that exist in the language and that the different numbers and genders of the nouns are derived by the noun affixes discussed in IV.2-1 below.

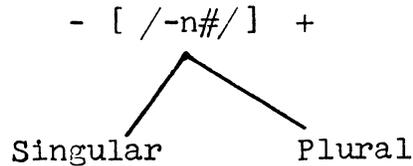
##### IV.2.1 Basic Noun Stems and Nouns

A Basic Noun occurs with the same affixes as a derived noun. In most cases whether the noun is basic or derived, its number and gender are distinguished thus: (a) a plural noun has the suffix /-n/; (b) a singular noun does not have this suffix, but has the prefix /#a-/ whereas the plural has prefix /#i-/; (c) a feminine noun has the prefix and/or the suffix /t-/:

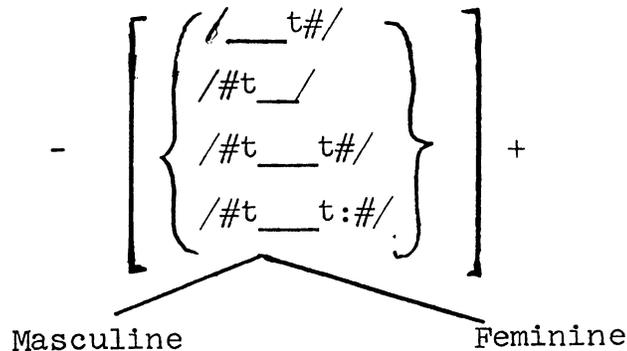
$$\left. \begin{array}{l} \left\{ \begin{array}{l} /t\_\_\_ / \sim /t\_\_\_t / \sim /t\_\_\_t: / \sim / \_\_\_t / \sim \\ /ta\_\_\_ / \sim /ta\_\_\_t / \sim /ta\_\_\_t: / \\ /ti\_\_\_ / \sim /ti\_\_\_in / \sim /t\_\_\_ / \sim / \_\_\_t / \end{array} \right\} \text{for f.s.} \\ \left\{ \begin{array}{l} /ti\_\_\_ / \sim /ti\_\_\_in / \sim /t\_\_\_ / \sim / \_\_\_t / \end{array} \right\} \text{for f.p.} \end{array} \right\}^1$$

This information concerning gender and number for nouns, both basic and derived, may be diagrammed thus:

(a) for Number



(b) for Gender



Many basic nouns in Tamazight are borrowed from Arabic. Some of the Arabic loan nouns were borrowed with the Arabic definite article /ʔal-/ 'the' (→ /l-/ in Moroccan-Arabic and Tamazight), which loses its syntactic function in Tamazight and comes to be an inseparable part of the noun since the opposition Definite/Indefinite is NOT operable through the article:

e.g., Arabic loan basic nouns /lk:as/ 'a glass' or 'the glass', /lbab/ 'a door' or 'the door', /ṣ:aliḥ/<sup>\*</sup> 'a saint' or 'the

\* Rules concerning the assimilation of /l-/ of the Arabic definite article to a following dental operate in Tamazight as well. Also note that the formation of the plurals of such loan nouns in most cases follows the Arabic pattern whether Classical or Colloquial: e.g., /lk:as/ has plural /lk:isan/, /lbab/ has plural /lbiban/ and /ṣ:aliḥ/ has plural /ṣ:aliḥin/.

saint' as well as native basic nouns: /argaz/ 'a man' or 'the man', /aɣaɣ/ 'a finger' or 'the finger', /agl:ɪd/ 'a king' or 'the king'.

Another set of basic nouns (also Arabic loans) has undergone accommodation to the native pattern: e.g., Moroccan-Arabic (M.A.) /xb:az/ 'baker' and its plural /xb:aza/ are derived from the M. A. verb /xbz/ 'to bake', whereas Tamazight has /a-xb:az/ 'baker', /i-xb:az-n/ 'bakers' but not the basic verb stem /xbz/ from which the nouns referred to above are derived. However, a look at Tamazight derived nouns explains the above pattern of derivation. There is a native pattern that derives the following nouns from the basic verb **V**: /zdm/ 'to collect wood', /azd:am/ 'one who collects wood (m.s.)', /izd:amn/ (m.p.); /xɔm/ 'to work', /axd:am/ 'worker (m.s.)', /ixd:amn/ (m.p.). Notice that the same derivational pattern applies to /zdm/, a native stem, as well as to the Arabic loan stem /xɔm/. The difference between /azd:am/, /izd:amn/, /axd:am/, /ixd:amn/ on one hand and /axb:az/, /ixb:azn/ on the other hand is that the first set shows derived nouns whereas members of the latter do not. In almost all the cases the gender of the loan word is preserved: e.g., Berber /tawriq:t/ 'a piece of paper' (<classical Arabic /waraqat-/ 'a piece of paper' f.s.) has the Berber affix /ta\_\_t:/ denoting f.s. noun. Compare this to the derived noun stem /tararit:/ 'vomiting' (</rar/ 'to give back'). In Arabic, as well as Berber, all nouns ending in /-t/ are

feminine. Very few Arabic exceptions have been observed: e.g., /ʔalxalifat-/ 'Caliph' is a masculine noun in classical Arabic. This Arabic loan appears in Berber as /lxlift/ 'administrative job' which is, among the very few Berber exceptions, a masculine noun. In Moroccan Arabic /lxlift/ is also masculine.

A third set of basic nouns (i.e. not derived from verb stems) borrowed the singular noun only but formed their plurals according to native patterns: e.g., Berber /lfqih/ 'learned man, a teacher' is borrowed from classical Arabic /ʔalfaḡīh/ 'legist, jurisprudent' which in turn is derived from the Arabic verb /faqiha/ 'to understand, comprehend'. The plural of the Arabic noun /ʔalfaḡīh/ is /ʔalfuḡaha/ whereas the plural of the Berber /lfqih/ is /idlfqih/. Here, /lfqih/ is a basic noun (no Berber verb /fqh/) and /idlfqih/ is derived from the basic noun, by the Berber plural prefix /id-/. Compare this to /butarda/ 'washer (m.s.)' /idbutarda/ 'washers (m.p.)' derived from the native verb stem /arid/ 'to be washed'.

Another set of basic nouns are the numerals 4 -  $\infty$  which are borrowed from Arabic. Together with the Arabic cardinal numerals 1-3 there is a native set (for more information on the numerals see Numerical System, pp.22-29).

Another set of basic nouns shows borrowing from French: e.g., Berber /lag:ar/ 'station', /lik:ul/ 'school', /lbiɾu/ 'office', /lk:riyu/ 'pencil', /t:rik:u/ 'sweater', /ṭ:umubil/ 'motor-car', /ž:rda/ 'garden' for French "la gare, l'école,

le bureau, le crayon, le tricot, l'automobile, le jardin" respectively. It is interesting to notice the assimilation of /l-/ to a following dental in the last three examples.

#### IV.2.2 Derived Noun Stems and Nouns

As stated in IV.1 above, a derived noun is one that is related (by derivation) to a noun stem, which in turn is derived from a verb stem in the language by one of the derivational affixes shown in IV.2.1 above: e.g., (Noun stems are underlined.)

Verb		N-m.s.	N-m.p.	N-f.s.	N-f.p.
xdm	to work	a- <u>xd:am</u>	i- <u>xd:am-n</u>	ta- <u>xd:am-t</u>	ti- <u>xd:am-in</u> 'worker'
zdm	to collect wood	a- <u>zd:am</u>	i- <u>zd:am-n</u>	ta- <u>zd:am-t</u>	ti- <u>zd:am-in</u> 'wood collector'

### IV.3 Definiteness, Gender and Number

#### IV.3.1 Definite/Indefinite

The definite article does not exist in Berber. Thus the word /argaz/ can mean either 'a man' or 'the man'. Nouns borrowed from Arabic appear in Berber with the definite article if they happen to be borrowed with the Arabic definite article / al-/ (which is also /l-/ in Berber). Assimilation rules observed in Arabic for the /-l-/ of the definite article before a dental are also applicable to Arabic loan words in Berber if they happen to be borrowed with the definite article:

e.g., /s:k:r/ 'sugar', /ṣ:aliḥ/ 'saint', /z:bib/ 'raisins',  
 /ṭ:alab/ 'request', /d:unit/ 'the world', /ḍ:ra/ 'corn'  
 (</lsk:r/, /lṣaliḥ/, /lzbib/, /lṭalab/, /ldunit/, /ldra/). All the  
 above nouns, borrowed with the definite article from Arabic  
 can be translated as either definite or indefinite in Berber.

#### IV.3.2 Gender and Number

Nouns in Berber are either masculine or feminine in  
 gender and singular or plural in number. In most cases the  
 gender and number of a noun could be distinguished by its  
 affix.

##### IV.3.2.1 Noun Affixes

##### IV.3.2.1-a Masculine Singular Prefixes

$$\left. \begin{array}{l} /a-/ \\ /am-/ \\ /u-/ \\ /i-/ \\ /l-/ \\ /X:-/ \end{array} \right\}$$

- Note: 1) /u-/ and /i-/ are not common prefixes for m.s. nouns.  
 2) /l-/ occurs mainly in Arabic borrowings  
 3) /X:-/ refers to a tense segment that results from  
 assimilation of /l-/ referred to above to a following  
 dental.

## Examples:

kašf	to foretell	akašf	foretelling
rdm	to demolish	ard:am	demolisher
ɣawn	to help	amɣawn	helper
f:γ	to go out	ufuγ	going out
arid	to be washed	butarda	washer
bd:	to stand up	ibd:i	standing up
hbl	to become silly	lhbal	silliness
ṭrṣ	to embroider	ṭ:rṣ	embroidering
		azɣu	wind
		anu	well
		isl:i	stone
		urti	garden
		amḥdar	pupil
		lyul	ogre
		ṣ:nduq:	box

IV.3.2.1-b Masculine Plural Affixes

$$\left. \begin{array}{l} /i\_n/ \\ /im\_n/ \\ /i\_tn/ \\ /i\_ / \end{array} \right\}$$

Note: /i-/ is prefixed to nouns that are referred to as "Broken Plurals" as opposed to /i\_n/ that is affixed to nouns referred to as "Sound Plurals".

Examples:

rgm	to insult	argam	insulting	irgamm	insults
kašf	to foretell	amkašf	foreteller	imkašfn	foretellers
dawa	to cure	adawa	cure	idawatn	cures
d:uk:l	make friends	amd:ak:l	friend	imd:uk:al	friends
		adašu	sandal	iduša	sandals
		agl <sub>ḡ</sub> mam	lake	iḡulmam	lakes
		abluḡ	date(fruit)	ibluḡn	dates

#### IV.3.2.1-c Feminine Singular Affixes

}	/t(a)___t(:)/
	/ti___(t)/
	/tu___(t)/
	/m___t/
	/l___t/
	/X:___t/

Note: (1) /l\_\_\_t/ occurs in Arabic loans

(2) /X:\_\_\_/ of the affix /X:\_\_\_t/ represents an /l-/ that assimilates to a following dental: e.g.,

/l-d-/ → /d:-/ as in /d:ut/ 'a case' (</ld<sup>o</sup>ut/).

Examples:

kašf	to foretell	amkašf	foreteller (m.s.)	tamkašft (f.s.)
------	-------------	--------	-------------------	-----------------

lum	to blame	talumt	blame
z:ał	to pray	tazal:it:	praying
k:	to pass	tik:it	passing
f:r	to hide	tufra	hiding
ls	to dress	mlsiwt	dressing
xdm	to work	lxdmt	work
d:ru	to sue	d:rut	case

IV.3.2.1-d Feminine Plural Affixes

$$\left. \begin{array}{l} /ti(m)\_\_\_\_in/ \\ /ti\_\_\_\_/ \\ /tu\_\_\_\_n/ \\ /ist-/ \\ /ta\_\_\_\_in/ \end{array} \right\}$$

Note: (1) /ti\_\_\_/ derives a "Broken" feminine plural noun whereas /ti\_\_\_n/ derives a "Sound" feminine plural noun.

(2) /ta\_\_\_in/ is a rare femine plural affix.

Examples:

rḥl	to move	tarḥ:alt	nomad (f.s.)	tirḥ:alin (f.p.)
safr	to travel	tamsafrt	traveller (f.s.)	timsafrin (f.p.)
zuz:r	to winnow	tazrt	pitchfork (f.s.)	tizar (f.p.)
ḥm:m	to bathe	m:lḥm:am	public bath attendant (f.s.)	istm:lḥm:am (f.p.)

tudayt	Jew (f.s.)	tudayin (f.p.)
tuš:nt	jackal (f.s.)	tuš:an (f.p.)
taxamt	tent (f.s.)	tixamin (f.p.)
tal:unt	drum (f.s.)	tal:unin (f.p.)
taq:ayt	head (f.s.)	taq:ayin (f.p.)

#### IV.4 Plural Nouns

Plural Nouns besides being masculine or feminine are divided into

- (a) External Plurals or Sound Plurals
- (b) Internal or Broken Plurals
- (c) Mixed Plurals

##### IV.4.1 Masculine Plurals

##### IV.4.1.1 External Plurals (or Sound Plurals)

Sing: /#a\_\_\_\_\_#/  $\longleftrightarrow$  Pl. /#i\_\_\_\_\_n#/

Examples:

<u>Singular</u>	<u>Plural</u>	
axd:am	ixd:amn	laborer
axam	ixamn	big tent
amaziy	imaziyn	Berber
aɣanim	iɣanim <sup>2</sup>	reed
aɣlyas	iɣlyasn	panther
aslix	islixn	animal skin

asg:as	isg:asn	year
akš:ıđ	ikš:ıđn	a piece of wood
ađlmam	iđlmamn	lake
ađr:am	iđr:amn	saint, Sharif (of the Prophet's family)
aful:us	iful:usn	rooster
afl:ađ	ifl:ađn	farmer
ađž:am	iđž:amn	barber
abn:ay	ibn:ayn	mason
axr:az	ixr:azn	shoe-maker
axb:az	ixb:azn	baker
afray	ifrayn	fence
abr:ađ	ibr:ađn	town crier
aburks	iburksn	shoe
alus	ilusn	brother-in-law
ađr:af	iđr:afn	pitcher
ađmaz	iđmazn	wink
amrwas	imrwasn	debt
ađris	iđrisn	wool thread
ađw:ađ	iđw:ađn	rebel
ađb:as	iđb:asn	prisoner
ađšlaf	iđšlafn	dry grass or bush
ađbib	iđbibn	dear friend
ađd:ad	iđd:adn	blacksmith
ađđž:am	iđđž:amn	tattoo

aḥl:uf	iḥl:ufn	pig
aḥm:am	iḥm:amn	pigeon
aḥlaf	iḥlafn	woman's overdress
axd:aʿ	ixd:aʿn	deceiver, traitor
abariq:	ibariq:n	slap
abaw	ibawn	fava bean
abr:iḍ	ibr:iḍn	male goat
abr:ad	ibr:adn	tea-pot
abz:iḍ	ibz:iḍn	urine
abluh	ibluhn	unripe date
adb:aγ	idb:aγn	tanner, dyer
aḍbib	iḍbibn	physician
aflidž	iflidžn	strip of tent
axm:už	ixm:užn	bad smell
axy:aḍ	ixy:aḍn	tailor
axlidž	ixlidžn	tree
axmim	ixmim	lip
ayd:id	iyd:idn	leather bag for carrying water
ažm:uʿ	ižm:uʿn	gathering
aknn:ay	iknn:ayn	rock
aḳzaz	ikzazn	gravel
aydžiy	iydžiy	flower
aγš:aš	iγš:ašn	cheat
amaḥsad	imaḥsadn	jealous

amdyaz	imdyazn	singer
amd:aḥ	imd:aḥn	religious singer

Notice:

(1) Nouns having the following changes are also Sound Plurals.<sup>3</sup>

/-r# + -n#/ → /-r:#/

/-l# + -n#/ → /-l:#/

/-n# + -n#/ → /-n:#/

<u>Singular</u>	<u>Plural</u>	
agrur	igrur:	(<igrurn) pile of stones
ayḍ:ar	iyḍ:ar:	traitor
ahaq:ar	ihaq:ar:	crow
aḥam:ar	iḥam:ar:	main pole of the tent
aḥndir	iḥndir:	blanket
aḥrir	iḥrir:	soup
ayḍrur	iyḍrur:	dust
abaq:ar	ibaq:ar:	catastrophe (used in swearing)
abḥ:ar	ibḥ:ar:	garden
abulxir	ibulxir:	pig
aḍyar	iḍyar:	place, spot
aḍrḍur	iḍrḍur:	deaf

afq:ir	ifq:ir:	old man
ašabar	išabar:	caravan
almsir	ilmsir:	sheep skin
amazdar	imazdar:	inferior
amḥdar	imḥdar:	student
ams:utr	ims:utr:	beggar
amyar	imyar:	old man
amxiḍar	imxiḍar:	bet
anž:ar	inž:ar:	carpenter
aḍar	iḍar:	foot
agz:ar	igz:ar:	butcher
ašiḍar	išiḍar:	draft horse
ašf:ar	išf:ar:	thief
ayz:al	iyz:al: (<iyz:aln)	plate, stick
agḍal	iḍdal:	pasture
aḥl:al	iḥl:al:	liar
axlxal	ixlxal:	ring, link (in a chain)
abuylal	ibuylal:	snail
aḍryal	iḍryal:	blind
adṛbal	idṛbal:	rag
adl:al	idl:al:	wandering salesman
ažmil	ižmil:	favor
ašw:al	išw:al:	harvester (person)
amaž:yal	imaž:yal:	superior
aḡužil	iḡužil:	orphan

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amḥawal	imḥawal:	reconciliation
abḍ:an	ibḍ:an: (<ibḍ:ann)	skin
afr:an	ifr:an:	oven
axw:an	ixw:an:	thief
alḡun	ilḡun:	pick axe
amt:in	imt:in:	corpse
aḥban	iḥban:	a piece of cloth

(2) Nouns ending in vowels have the suffix  $\left\{ \begin{array}{l} -tn\# \\ -wn\# \\ -yn\# \end{array} \right\}$

rather than /-n#/ in their plurals and they too are here treated as sound plurals.

<u>Singular</u>	<u>Plural</u>	
amksa	imksawn	shepherd
aškša	iškšawn	chick
amtna	imtnawn	bad winter (snow fall)
amzḡa	imzḡawn	weaver
adu	adutn	wind
ayrda	iyrdayn	rat
abiba	ibibatn	mosquito
adida	ididatn	talk
amžur:u	imžur:utn	waterfall
ag:u	ag:utn	smoke
arwa	irwatn	threshing
asaka	isakatn	shallow passage in a river
aḡsk:ri	iḡsk:riyn	soldier
abulisi	ibulisiyn	policeman
aḡmami	iḡmamiyn	black horse
aḡhuli	iḡhuliyn	ram
abali	ibaliyn	old
abr:ani	ibr:aniyn	foreigner, stranger
afasi	ifasiyn	right-handed
afrḡi	ifrḡiyn	unique
afḡuli	ifḡuliyn	curious

ažnwi	ižnwiyn	knife
akurbi	ikurbiyn	shoe
amxzni	imxzniyn	soldier of the makhzen or the government
aḥrami	iḥramitn	clever
aḥili	iḥilitn	clever
ažur:u	ižur:utn	waterfall
azgu	izgutn	wind
akurdu	ikurdutn	flea

#### IV.4.1.2 Internal (or Broken) Plurals

- change of /#a-/ of the singular to /#i-/ in plural
- no suffix /-n#/
- internal (medial and/or final) change

Examples:

<u>Singular</u>	<u>Plural</u>	
adašu	iduša	sandal
asklu	iskla	tree
axbu	iḥba	hole
aydid	iydaḍ	bird
agrtıl	igrtał	mat
aḥanu	iḥuna	stable
aɣyul	iɣyal	donkey

abay:us	ibuy:as	monkey
amd:ak:l	imd:uk:al	friend
aqmu	iqma	mouth
ašniḍ	išnaḍ	ass
awtul	iwtal	rabbit
anždi	inžda	traveller
asrdun	isrdan	mule
amḗluḍ	imḗlad	poor, broke
amzu	imza	early plowing
amazuz	imuzaz	late plowing
aḥidus	iḥidas	dance
aḥyuḍ	iḥyaḍ	crazy
aknbuš	iḵnbaš	scarf
axnšuš	ixnšaš	face
aḥizun	iḥizan	lame
abux:u	ibux:a	worm
abadu	ibuda	edge of a field
abrḍud	ibrḍad	tail
afrši	ifrša	bark, peel
abrduz	ibrdaz	rag
aglmis	iylmas	hood
agru	iḡra	frog
aḡbalu	iḡbula	spring
ahitur	ihitar	sheep skin

amadl	imudal	cheek
amalu	imula	shadow
amazir	imizar	country, campsite
agadir	iyudar	wall
amhruš	imhraš	active, intelligent
amd:al:u	imd:ul:a	coward
agatu	iyuta	rope

Notice the following broken plurals having the Arabic definite article:

lxlift	lxlayf	administrative job
lmus:	lamwas:	knife
lʿib	lʿyub	shame
lq:hwa	lq:hawi	coffee
lyul	laywal	ogre
lštub	lštub	book
š:iq:an	š:waq:n	devil
s:uq:	laswaq:	market
š:nduq:	lašnadq:	box
r:bḥ	larbaḥ	profit

## IV.4.1.3 Mixed Plurals

(Internal plurals with External suffixes)

<u>Singular</u>	<u>Plural</u>	
afus	ifas:n	hand
argaz	irgzn	man
asif	isaf:n	river
afud	ifad:n	knee
abrid	ibrđan	road
ađađ	iđuđan	finger
adis	idusan	belly
agl:ıd	ıgldan	king
alyıı	ilyııan	camel
axdul	ixdlan	round loaf of bread
ayrđ	ıyrđan	neck
aytir	ıytran	thorn
ayur	ıyran	honey comb
axdil	ixdlan	belly

Remarks on the Pluralization of Masculine Nouns

Sometimes the /#a-/ of the singular does not change in the plural. Singular nouns that have /#i-/ or /#u-/ show the same prefix in their plural forms. Sometimes prefix /#a-/ of the singular noun changes to /#u-/.

axbaš	axbašn	claw
aluq:id	aluq:idn	match
ad:bliž	ad:bližn	bracelet
ašbab	ašbabn	eye lash
anšuš	anšušn	lip
aḡ:a	aḡ:atn	burden
ad:žar	ad:žar:	neighbor
anu	anutn	well
imšli	imšliwn	lunch
ilīs	ilīs n	raw wool
imsi	imsi t n	supper
izikr	izakar:	cord
ifd:iwž	ifd:iwžn	spark <sup>4</sup>
iḡil	iḡal:n	arm
iḡnbl	iḡnbl:	blanket
iḡzdis	iḡzdi san	rib
ily	ilyan	leg
itri	itran	star
iḡ	iḡan	night
izli	izlan	song
isli	islan	bridegroom
isl:i	isl:iwn	stone
ixf	ixfawn	head
urti	urtan	garden

uš:n	uš:an:	jackal
anu	una	well
as:	us:an	day
iš:	aš:iwn	horn (of an animal)

#### IV.5 Feminine Plurals

##### IV.5.1. External Plurals (or Sound Plurals)

(a) Sing: /#ta-/ → Pl: /#ti-/

(b) delete /\_\_\_\_t#/ of the singular

(c) add suffix /-in#/ for plural

<u>Singular</u>	<u>Plural</u>	
taxamt	tixamin	tent
tafunast	tifunasin	cow
taful:ust	tiful:usin	hen
taq:bilt	tiq:bin	tribe
tazlaft	tizlafin	platter
tamyart	timyarin	old woman
tabhirt	tibharin	garden
tawrirt	tiwririn	hill
tanslmt	tinslmin	Moslem
tamsafrt	timsafrin	traveller
tamq:abl	timq:ablin	caretaker
tamzawg:t	timzawg:in	one who asks protection
tamzayt: (<tmzaydt)	timzaydin	one who adds

tamɣawnt	timɣawnin	helper
tayš:ašt	tiyš:ašin	cheater
tamk:ust	timk:usin	heiress
tams:ufst	tims:ufsin	one who spits
tamzurt	timzurin	pilgrim
taɣw:amt	tiɣw:amin	swimmer
tamksawt	timksawin	shepherdess
tamzɣawt	timzɣawin	weaver
tams:utrt	tims:utrin	beggar
tahb:ast	tihb:asin	prisoner
tamr:ayt	timr:ayin	masseuse
tarh:alt	tirh:alin	nomad
tast:ayt	tist:ayin	filter
tašt:aḥt	tišt:aḥin	dancer
tazd:amt	tizd:amin	wood collector
taɣšaqt	tiɣšaquin	sweetheart, beloved
taxd:amt	tixd:amin	worker
taxd:amt	tixd:amin	deceiver
tabš:art	tibš:arin	bearer of good tidings
tamɣl:ɣt	timɣl:ɣin	loaf of bread
tahal:ast	tihal:asin	saddle
tahr:aft	tiḥr:afin	a piece of cloth for carrying a baby on the back
tash:art	tish:arin	magician
tašm:art	tišm:arin	hammer

tašt:abt	tišt:abin	broom
tašk:amt	tišk:amin	denouncer
tašf:art	tišf:arin	thief
taʿs:ast	tiʿs:asin	guard
taxw:ant	tixw:anin	thief
tamašart	timašarin	thief
tamazant	timazanin	sender
tašr:ayt	tišr:ayin	lessee

Notice: Nouns ending in vowels may have the suffix /-iwin#/

SingularPlural

tamyra	timyriwin	wedding
tabarda	tibardiwin	saddle

IV.5.2. Internal Plurals(or Broken Plurals)

- (a) /#ta-/ of Sing. → /#ti-/ in pl.
- (b) Internal change
- (c) deletion of final /-t#/
- (d) no suffix

SingularPlural

tisirt	tisar	mill
tal:st	til:as	darkness, dusk
tayyult	tiyyal	female donkey
tamd:ak:lt	timd:uk:al	girl friend
tiym:i	tiym:a	community of nomads

tazrt	tizar	pitchfork
tagrtilt	tigrtal	mat
tamazirt	timizar	property
tuš:nt	tuš:an	jackal
taq:b:ut	tiq:b:a	djellaba
tamyrušt	timyras	sacrifice
tagal:it	tigul:a	swearing
taqdurt	tiqdar	pot
talxatmt	tilxutam	ring
r:iht	r:wayh	odor
lhašt	lhwayž	thing
lxudrt	lxudrat	vegetable
lyabt	lywabi	forest

#### IV.5.3 Mixed Plurals

(Internal Plurals with External Suffixes)

tadist	tidusin	belly
tafust	tifusin	hand
tawariyt	tiwaryiwin	dream
tad:art	tad:rwin	house

#### Notes on Some Feminine Nouns

(1) Some feminine Arabic nouns were borrowed into Berber with the Arabic feminine marker /-a#/ in dialectical Arabic (/ -t- / in classical Arabic), e.g.:

Dialectical ArabicBerber

r:iḥa	r:iḥt	odor
ʔlḥaža	lḥašt	thing
lɣaba	lɣabt	forest
lqasida	lq:asida	tradition
s:ulṭa	s:ulṭa	authority
lḥkuma	lḥk:uma	government
lžamaʕa	lžamaʕa	council

(2) Some singular feminine nouns (native or loan) do not change their /#ta-/ to /#ti-/ in the plural, e.g.:

SingularPlural

tal:unt	tal:unin	drum
tad:art	tad:rwin	house
tadžart	tadžarin	neighbor
taq:ayt	taq:ayin	head
taɣma	taɣmiwin	thigh
tašna	tanšnwin	term of reference for co-wife

Dialectical ArabicBerber

r:iḥa	r:iḥt	odor
ʔlhaža	lhašt	thing
lɣaba	lɣabt	forest
lqasida	lq:asida	tradition
s:ulṭa	s:ulṭa	authority
lhkuma	lhk:uma	government
lžamaɣa	lžamaɣa	council

(2) Some singular feminine nouns (native or loan) do not change their /#ta-/ to /#ti-/ in the plural, e.g.:

SingularPlural

tal:unt	tal:unin	drum
tad:art	tad:rwin	house
tadžart	tadžarin	neighbor
taq:ayt	taq:ayin	head
tayma	taymiwin	thigh
tašna	tanšnwin	term of reference for co-wife

(3) Some feminine singular nouns ending in /-t:#/ show the following change in plural: /-t:#/ → /-t-/

<u>Singular</u>	<u>Plural</u>	
talat:	talatin	ditch
tislit:	tislatin	bride
tizit:	tizatin	fly
tifrit:	tifratin	cave

#### IV.6 Miscellaneous

IV.6.1 Plurals with /id-/ (m,f) and /ist:/ (f) <sup>5</sup>

<u>Singular</u>	<u>Plural</u>	
lfq:ih	idlfq:ih	learned person
bab	idbab	owner
bibi	idbibi	turkey
◊m:i	id◊m:i	my paternal uncle
xali	idxali	my maternal uncle
◊t:i	ist:◊t:i ~ id◊t:i	my maternal aunt
xalti	ist:xalti ~ idxalti	my maternal aunt
ut:ma	ist:ut:ma	my sister
lxzin	idlxzin	storing place
lmizan	idlmizan	balance, set of scales
lḥm:mam	idlḥm:am	bathroom
lḥzam	idlḥzam	belt

butarda	idbutarda	washer (m)
m:tarda	idm:tarda	washer (f)
d:unit	idd:unit	world
s:rir	ids:rir	bed
t:aman	idt:aman	price

#### IV. 6.2 Plurals with/ayt-/ (m)

undir	aytundir	a man from the tribe of Ayt Oundir
wiγrm	aytiγrm	a man from one's village

#### IV. 6.3 Plurals of Different Roots<sup>6</sup>

<u>Singular</u>	<u>Plural</u>	
lʷil	lwašun	boy
tarbat:	tišir:atin	girl
tamɖut:	tiwtmin	woman
tagmart	tiyal:in	mare
tixsi	ul:i	sheep
tid:	al:n	eye

#### IV.6.4 Diminutives<sup>7</sup>

Certain masculine nouns give a diminutive noun by prefixation of /#t-/ and suffixation of /-t:#/ (or /-t#/).

<u>Masculine Noun</u>	<u>Diminutive</u>	<u>Meaning</u>
afus	tafust:	small hand
aɖar	taɖart:	small foot
aɣbalu	taɣbalut:	small spring
agrtil	tagrtilt	small mat

#### IV.6.5 Augmentative <sup>8</sup>

Certain feminine nouns give Augmentatives by a process that is the reverse of Diminutive Formation mentioned in IV.6.4 above

<u>Feminine Noun</u>	<u>Augmentative</u>	<u>Meaning</u>
taxamt	axam	big tent
tašt:abt	ašt:ab	big broom
tamart	amar	big beard
tabhirt	abhir	big garden

#### IV.6.6 Collective Nouns <sup>9</sup>

##### IV.6.6.1 Singular Collective Nouns

udi	butter
uz:al	iron
az:ar	hair
immdi	grain
d:ra	corn
aɣrum	bread
aɣ:u	milk
tadunt	grease, shortening, cooking fat

tdut:	wool
tisnt	salt
tuya	grass
iyd	ashes

#### IV.6.6.2 Plural Collective Nouns <sup>10</sup>

aman	water
idam:n	blood
ilam:n	bran
lflus	money
md:n	people
irdn	wheat
tarwa	offspring, progeny
tiyrad	salary
imas:n	plough
tir:a	writing
timzin	barley
tuzlin	scissors
imryan	sauce
iršan	dirt
ifsan	seeds

#### IV.6.7 Noun of Unity <sup>11</sup>

The noun of unity is formed from a collective noun by the same process used in IV.6.4 above for the formation of Diminutives.

azalim	onions	tazalimt	an onion
z:nbuɣ	oranges	taz:nbuɣt	an orange
lmšmaš	apricots	talmšmašt	an apricot
lxux	peaches	talxuxt	a peach
xiz:u	carrots	taxiz:ut	a carrot

In some cases the noun of unity is achieved by the use of /aḥbub/ "grain" before the collective noun, e.g.:

aḥbub nɣ:uz	a grain of rice
aḥbub nɔ:ra	a kernel of corn
aḥbub w:adil	a grape

#### IV.6.8 Composed Nouns <sup>12</sup>

- (1) u = (son of) of (m.s.)
- (2) ut = (daughter of) of (f.s.)
- utmazirt country man
- ut:mazirt (<uttmazirt) country woman
- (3) ayt- (m.p.)
- (4) ist:- (f.p.)
- ayt:mazirt country men
- ist:mazirt country women
- (5) bu- (father of) of (m.s.)
- (6) idbu- of (pl.)
- buyḥl:al liar (m)
- idbuyḥl:al liars (m)

- (7) m: (mother of) of (f.s.)
- (8) idm:- of (f.p.)  
 m:iḥl:al liar (f)  
 idm:iḥl:al liars (f)
- (9) bab (owner) master of, owner  
 bab ntad:art master of the house
- (10) lal: (fem.)  
 lal: ntad:art mistress of the house
- (11) /bu-/ and /m:/ can denote a 'trade' or 'occupation'
- buɣari one in charge of a forest  
 buwɣanim \* one who plays the flute  
 bulḥm:am public bath attendant (m)  
 m:lḥm:am public bath attendant (f)
- \* (aɣanim 'reed'; for change of a to w see IV. below)

#### IV.7 Construct State of the Noun<sup>13</sup>

A noun in the construct state (c.s.) changes its shape.

(/tafunast/ → /tfunast/ 'cow'; /argaz/ → /urgaz/ 'man' ...etc.)

##### IV.7.1 Changes occurring in masculine nouns

/#a-/ → {  
 -u-  
 -w:-  
 -wa-}

/#i-/ → {  
 -i-  
 -y-  
 -yi-}

$$/\#u-/\longrightarrow /-wu-/$$

babuxam (<axam)	head of the house
lk:as w:atay (<atay)	a glass of tea
axam isli (<isli)	the tent of the fiance
ag:r: yirdn (<irdn)	wheat flour
taql:alt w:udi (<udi)	the butter jar
išd:a utfl (<atfl)	plenty of snow
tad:art uryaz (<aryaz)	the house of the man
aḡrum yirdn (<irdn)	wheat bread
inḡayi wuxs (<uxs)	tooth ache (it killed me of the teeth)
lbab w:urti (<urti)	the door of the garden
taḡuḡ: w:ul:i (<ul:i)	wool of the sheep
šrad w:us:an (<us:an)	three days

#### IV.7.2 Changes occurring in feminine nouns

$$/\#ta-/\longrightarrow \left\{ \begin{array}{l} -t- \\ -ta- \text{ rarely} \end{array} \right\}$$

$$/\#ti-/\longrightarrow \left\{ \begin{array}{l} -t- \\ -ti- \text{ rarely} \end{array} \right\}$$

$$/\#tu-/\longrightarrow /-tu-/$$

argaz ntmḡ:ut: (<tamd:ut:)	husband
ṣ:aliḡin ntmizar (<timizar)	local saints
ixf ntuš:nt (<tuš:nt)	head of a jackal
utmazirt (<tamazirt)	someone from your country
iš: ntfunast (<tafunast)	the horn of the cow
taḡb:ut ntaḡuḡ (<taḡuḡ)	a woolen garment

iy:is ntslit (<tislit)	the horse of the bride
amksa ntyḍ:n (<tiyḍ:n)	the shepherd of goats
aman ntisirt (<tisirt)	the water of the mill
šrat: ntuzlin (<tuzlin)	three scissors
bu tuzlin (<tuzlin)	the owner of the scissors
lbab ntad:art (<tad:art)	the door of the house

#### IV.6.3 The noun is in the construct state if:

- (a) the noun is in genitive construct  $N_1$  of  $N_2$  ( $N_2$  changes)

tad:art urgaz	the house of the man
(urgaz c.s. of argaz)	
lk:as w:atay	a cup of tea
(watay c.s. of atay)	
argaz ntmd:uṭ:	husband (man of the woman)
(tmd:uṭ: c.s. of tamd:uṭ:)	
iš: ntfunast	the horn of the cow
(tfunast c.s. of tafunast)	

- (b) the noun is the subject of a verb  
and it follows the verb

if:γ umaziγ	The Berber went out.
(umaziγ c.s. of amaziγ)	

iswa urgaz atay                      The man drank tea.

(urgaz c.s. of argaz)

Compare the above two examples with the following where the noun is also the subject of the verb but precedes it:

amaziγ if:γ                              The Berber went out.

argaz iswa atay                        The man drank tea.

However, we have to state that the native speaker of Berber prefers the order vb. + subj. rather than subj. + vb.

(c) the noun follows a numeral, e.g.:

(yun [m] , yut [f] 'one' , xmstačš 'fifteen' , st:ačš 'sixteen')

yun was:                                      a day (one day)

(was: c.s. of as:)

yut tmd:ut:                                a lady (one lady)

(tmd:ut: c.s. of tamd:ut:)

xmstačš ntfunast                        15 cows

(tfunast c.s. of tafunast)

st:ačš war:yal                            16 rials

(war:yal c.s. ar:yal)

(d) the noun follows a certain preposition:

y txamt                                      in the tent

(txamt c.s. of taxamt)

xf tfunast                                on the cow

(tfunast c.s. of tafunast)

yr txamt (f) (<taxamt)	to the tent
yr argaz (m) (<argaz)	to the man
(only fem. nouns following /yr/ are in the c.s.)	
iurgaz (<argaz)	to the man
itfunast (<tafunast)	to the cow
sufus (<afus)	by/with the hand
zy tmazirt (<tamzirt)	from the country

(i) Preposition after which only feminine nouns are in the construct state:

yr to

(ii) Prepositions after which the nouns are in the construct state:

i	to
y	in
s	with (instrumental)
am:	like
xf	on
zy	from
d	with
n	of
d:aw	under
ingr ~ ngr	between

(iii) Prepositions after which nouns are NOT in the construct state:

s to (directional)

qbl	before
bɔd	after
bla	without
ar	until (to)
al:	until (to)

Notes on the preposition "n" (of)

- (i) n  $\longrightarrow$  -l before a noun with initial /#l-/  
 n  $\longrightarrow$  -w before a noun with initial /#a-/  
 n  $\longrightarrow$  -y before a noun with initial /#i-/  
 n  $\longrightarrow$  -n elsewhere
- (ii) Nouns with initial /#a-/ drop their /#a-/ in the construct: 'some of' + Noun with /#a-/ i.e. (šan + N )

šā n lhlib	$\longrightarrow$	šā l lhlib	$\longrightarrow$	šā l:hlib	some milk
šā n aksum		šā w ksum		šā wksum	some meat
šā n lg:ayz		šā l lg:ayz		šā l:g:ayz	some kerosene
šā n lbitrun		šā l lbitrun		šā l:bitrun	some kerosene
šā n udi		šā w wudi		šā w:udi	some butter
šā n iful:usn		šā y ful:usn		šā yful:usn	some chickens
šā n aṛṛum		šā w ṛṛum		šā wṛṛum	some bread
šā n aslix		šā w slix		šā wslix	some skin
šā n atfl		šā w tfl		šā wtfl	some snow
šā n ayanim		šā w yanim		šā wyanim	some reeds

However few nouns retain their /#a-/ and follow the rules of construct state of nouns.

ša n atay	→	ša w watay	→	ša w:atay	some tea
ša n awal	→	ša w wawal	→	ša w:awal	some talk

(e) the noun follows the conjunction 'and' /d/ (N<sub>1</sub> and N<sub>2</sub>):

lq:hwa dwatay (<atay)	coffee and tea
argaz t:md:ut: (<tamd:ut)	the man and the lady
(n.b. /d/ assimilates to a following /t/ in the above example)	
tamd:ut durgaz (<argaz)	the lady and the man
ayyul t:funast (tafunast)	the donkey and the cow

\* \* \*

Notes on the Noun in Ayt Seghrouchen (A.S.)

- 1 The nominal affixes listed here for Ayt Ayache are the same for Ayt Seghrouchen.
- 2 Quite a number of the masculine singular nouns which in Ayt Ayache have initial /#a-/ appear in Ayt Seghrouchen without this /#a-/. The plurals of these A.S. nouns, however, are identical with those of A.A. Moreover, the construct state (see IV.7) of the A.S. nouns has /#u-/ as in A.A.

## Examples:

<u>Singular</u>			<u>Plural</u>	
A.A.	A.S.	Construct	A.A. & A.S.	
aɣnim	ɣanim	uɣanim	iyanimn	reed
afus	fus	ufus	ifas:n	hand
aɖaɖ	ɖaɖ	uɖaɖ	iduɖan	finger
afud	fud	ufud	ifad:n	knee

- 3 This is another phonological difference between the two dialects; In A.S.,
- |             |                       |
|-------------|-----------------------|
| /-r# + -n#/ | /-rn#/                |
| /-l# + -n#/ | /-ln#/                |
| /-n# + -n#/ | /-n:#/ (same as A.A.) |

Examples from A.S.:

adṛdur	idṛdurn	deaf
aγz:al	iγz:aln	stick
afr:an	ifr:an:	oven

4 As examples of lexical differences:

A.A.	A.S.	
ifd:iwž	aqz:iw	spark
isl:i	azru	stone
ixf	azl:if	head
tazlaft	tziwa	platter
tawrirt	tiš:ut	hill

5 In Ayt Seghrouchen we get /it-/ (m), /suyt/ /ist/ (f), e.g.:

ifgih	itlfigih	learned person
st:i	suytst:i	my paternal aunt

6 The same nouns are here listed for A.S.:

<u>Singular</u>	<u>Plural</u>	
arba	lwašun	boy
tarbat:	tišir:atin	girl
tamt:ut:	tisy:alin	woman
tažmart	tiyal:in	mare
tixsi	ul:i	sheep
tit:	al:n	eye

7 The same nouns are here listed for A.S.:

fus	tfust	small hand
dar	d:art:	small foot
aɣbalu	taɣbalut:	small spring
ažrtil	tažrtilt	small mat

8 The same nouns here are listed for A.S.:

txant	axam	big tent
tašt:abt	ašt:ab	big room
tmart	mar	big beard
tabhirt	abhir	big garden

9 The same nouns are here listed for A.S.:

udi	butter
uz:al	iron
az:ar	hair
imndi	grain
d:ra	corn
aɣrum	bread
aɣi	milk
tadunt	grease, shortening, cooking fat
taɣuft	wool
tisnt	salt
tuža	grass
iɣd	ashes

## 10 Plural Collective Nouns in A.S.:

aman	water
idam:n	blood
lflus	money
mid:n	people
irdn	wheat
tarwa	offspring. children
tiɣrad	salary
imas:n	plough
timzin	barley
timšrad	scissors
imɣan	sauce
ifsan	seeds

## 11 Noun of Unity in A.S.:

/bɣ/	onions	talbɣlt	an onion
/:imun/	oranges	talimunt	an orange
/xux/	peaches	talxuxt	a peach
/xiz:u/	carrots	taxiz:ut:	a carrot

Nouns of Unity achieved by the use of /aḥbub/ 'grain' in A.S.:

aḥbub	nɣ:uz	a grain of rice
aḥbub	nɣ:ra	a kernel of corn
aḥbub	w:aḍil	a grape

12 Such composed nouns in A.S. are:

u (son of)	of (ms)
ult (daughter of)	of (fs)
ulahl	parent, relative (ms)
ultlahl	parent, relative (fs)
bu (owner of)	of (ms)
ayt (owners of)	of (mp)
buyhl:al	liar (ms)
ayt ihl:al	liars (mp)
m: (mother of)	
suyt (mothers of)	
m:ihl:al	liar (fs)
suytihl:al	liars (fp)

/bu/ and /m:/ can denote a trade or occupation :

buyaba	one in charge of a forest
bulhm:am	public bath attendant (m)
m:lh:m:am	public bath attendant (f)

13 The construct state of the noun is the same in Ayt Seghrouchen as it is in Ayt Ayache.

## V. Particles

This section discusses the Interrogative particles, Conjunctions, Prepositions, the Presentational particles, the Vocative particle and the Conditional particles in Ayt Ayache and Ayt Seghrouchen. Due to the fact that there is quite a difference between the two dialects in this domain of their lexicon, a full discussion of each of the headings mentioned above is given for Ayt Seghrouchen following that of Ayt Ayache.

## V. Particles

## V.1 Interrogative Particles (Ayt Ayache)

- 1) may ? Who?  
 - mag:ms muha ? Who is Muha?  
 (may ims -i→ mag:ms)  
 =muha amdak:l nli ag:a Muha is Ali's friend.  
 ms to be related to (a verb  
 of identification)
- may tms fadma ? Who is Fadma?  
 = fadma mays nmuha ay tga Fadma is Muha's mother
- 2) ma ~ may ? What?  
 - ma dat:inid ? What are you saying?  
 = walu Nothing.  
 - may tn:id ? What did you say?  
 = n:iyaš yał:ah and:u I told you let us  
 γr tad:art go home.  
 ini to say  
 n:iγ I said  
 n:iyaš I said to you
- 3) mat:a ? What? Which?  
 - mat:a was: ? What day? (which day?)  
 = ltnayn Monday.  
 - mat:a laswaq: n:a What markets do you  
 γr dat:d:ud ? go to?  
 = dant:sw:aq: midlt We go to the Midelt  
 market.
- 4) mi? Who? What?  
 - šg: dmi ? You and who?  
 = nk: dmuha I and Muha.  
 - maṭiša dmi ? Tomatoes and what?  
 = maṭiša dl:ubya Tomatoes and green  
 beans.



- 9) winmi (m) ? Whose (m.)? (Notice: it is the object that is masculine)
- winmi igra ? Whose field is this?
- = winw It's mine.
- = win ɛli It's Aly's
- = wins It's his/hers
- 10) tinmi (f) ? Whose (f.)? (Notice: it is the object that is feminine)
- tinmi tad:arta ? Whose house is this?
- = tin ɛli It's Aly's.
- = tinw mine
- tinš yours (m.s.)
- tin:m yours (f.s.)
- tins his/hers
- tin:γ ours
- tin:un yours (m.p.)
- tin:knt theirs (m.)
- tinsnt theirs (f.)
- 11) milan ? Whose?
- milan tad:arta ? Whose house is this?
- = tin muħa It's Muħa's.
- 12) mimš ? How?
- mimš ag:a ? How is it?
- = aml:al White.
- mimš dat:g:ad id:ɛam ? How do you (s.) make couscous?
- = urs:iny I don't know.
- Notice: ag:a < ay iga (which it is)
- 13) šhal ? How many? How much?
- ~mšhal ?
- ~mšta ?
- šhal t:aman ? What is the price?

- |                                       |                                    |
|---------------------------------------|------------------------------------|
| =tlatin ryal                          | Thirty Rials                       |
| -šhal tas:aʔt ?                       | What time is it?                   |
| =tsʔud dumnasf                        | 9:30                               |
| -mšta l:wašun ay ɣurš                 | How many children<br>do you have?  |
| =ɣuri snat ntšir:atin                 | I have two girls.                  |
|                                       |                                    |
| 14) max ?                             | Why?                               |
| max al:iy ?                           | Why ... ?                          |
| -max ?                                | Why?                               |
| =urs:inɣ                              | I don't know.                      |
| -max al:iy did:a ?                    | Why did he come?                   |
| =t:afad adik: ɣr muha                 | In order to visit<br>Muha.         |
|                                       |                                    |
| 15) mand:yid ?                        | Which one (m or f)?                |
| -mand:yid muha ag:d:an<br>ɣr s:uq: ?  | Which Muha went to<br>the market?  |
| =muha usq:a                           | Muha Ouakka.                       |
| -mand:yid fadma ag:d:an<br>ɣr s:uq: ? | Which Fadma went to<br>the market? |
| =fadma usid                           | Fadma Ousaid.                      |

Notice: (ag:d:an < ay id:an) 'who went'. id:an is the past participle of /d:u/ 'to go'. Whenever /ay + i ---> g:/ as in /ag:d:an/ this will be transcribed as one word.

- |                                  |  |
|----------------------------------|--|
| 16) mand:iyun ?                  | Which one of you (m)?                        |
| -mand:iyun ag:d:an<br>ɣr s:uq: ? | Which one of you (m.)<br>went to the market? |
| =muha ag:d:an                    | Muha.  |
|                                  |  |
| 17) mand:iknt ?                  | Which one of you (f)?                        |
| -mand:iknt ag:s:nwan<br>aɣrum ?  | Which one of you (f)<br>baked the bread?     |
| =fadma                           | Fadma.                                       |
| =nk:                             | I.   |

- s:nw to cook
- 18) mand:iynr ? Which one of us?  
 -mand:iynr ay trid ? Which one of us do  
 you want?  
 =šg: amuha You, Muha.  
 =šm: afadma You, Fadma.
- 19) mand:iksn ? Which one of them (m)?  
 -mand:iksn ay trid ? Which one of them (m.)  
 do you want?  
 =cli Aly  
 -mand:iksn ag:swan atay ? Which one of them (m)  
 drank the tea?  
 =muha Muha.
- 20) mand:iksnt ? Which one of them (f.)?  
 -mand:iksnt ag:s:nwan Which one of them (f)  
 aγrum ? baked the bread ?  
 =fadma Fadma.
- 21) is ? Do-Have-Is/Are?  
 -istrid atay ? Do you want tea?  
 =la . riγ lq:hwa No, I want coffee.  
 -isid:a muha ? Did Muha go?  
 =y:ih Yes.
- 22) id: ? Do-Have-Is/Will/Are?  
 -id: tad:artnš aya ? Is this your house?  
 =y:ih Yes.  
 -id: nt:a ? Is it him?  
 -id: nt:at ? Is it her?  
 =la No.  
 -id:adixdm ? Is he going to work?  
 Will he work?  
 =la No.  
 /id:/ is here transcribed as part of a verbal construc-  
 tion but autonomous from a following noun.

## V.2 Interrogative Particles (Ayt Seghrouchen)

1. may Who?  
 -mag:ms muhnd ? Who is Muhnd  
 -muhnd amd:ak:l n'li ag:žū Mohamed is Aly's friend.  
 -maytms mam:a ? Who is Mamma?  
 -mam:a im:as m:uhnd aytžū . (< n+muhnd) Mamma is Mohamed's mother.
2. may What?  
 -may t:init ? What are you saying?  
 -walu Nothing  
 -may tn:it ? What did you say?  
 -n:ixaš yal:ah an:rah yr I told you, "Let's go home."  
 tad:art .'
3. mat:a What, which  
 -mat:a was: ? What, which day?  
 -lt:nayn Monday  
 -mat:a laswaq: din yr tg:urt ? Which market do you go to?  
 -l:atsw:aq:x sk:ura I go to Skoura market.
4. mi Who, what.  
 -šk: dmi ? You and who (else) ?  
 -ntš dmuhnd . Muhnd and I.  
 -maṭiša dmi ? Tomatoes and what?  
 -maṭiša dl:ubya Tomatoes and green beans.
5. mani Where?  
 mani muhnd ? Where is Muhnd?  
 -irah yr s:uq: He went to the market.  
 -il:a da - - He is here.  
 -il:a din: - - He is there.  
 -uril:i He is not  
 -urs:inx I do not know  
 -durt:x ad:i'id He will be back soon.

6. maγr  
 -maγr da tq:imt ?  
 urufx mani γr γa rahx  
 Why?  
 Why are you staying here?  
 I do not know where to go. (Lit: I do not find where to go).
7. mat:a luq:t  
 mat:a luq:t ayd:γa iʕid ʕli ?  
 -idu  
 When, What time.  
 When is Aly coming back?  
 Today.
8. mlmi ~ milmi  
 -mlmi ayd:iʕid muhnd  
 -urs:inx  
 -idn:at  
 -mlmi ayd:γayʕid muhnd  
 -durtx ad:iʕid  
 When ?  
 When did Muhnd come back?  
 I do not know.  
 Yesterday.  
 When is Muhnd coming back?  
 He will be back soon.
9. wim:i (< win + mi ), wig:ilin  
 wig:ilin ižru ?  
 winw  
 win ʕli  
 win:s  
 Whose (m) ?  
 Whose field is this?  
 Mine.  
 Aly's.  
 His.
10. tim:i ~ wig:ilin ?  
 (< tin + mi)  
 wig:ilin tad:artu  
 ~ tim:i tad:artu  
 tin:li  
 tin:š  
 tin:m  
 tin:s  
 tin:x  
 tin:un  
 tin:šnt  
 tin:sn  
 tin:snt  
 Whose is...?  
 Whose house is this?  
 Aly's.  
 Yours (ms).  
 Yours (fs).  
 His/ Hers.  
 Ours.  
 yours (mp).  
 Yours (fp).  
 Theirs (mp).  
 Theirs (fp).

11. wig:ilin  
 wig:ilin tad:artu ?  
 tim:uhnd (<tin + muhnd)
- Whose is...  
 Whose house is this?  
 It is Muhnd's.
12. mism  
 mism ag:žū ?  
 aml:al  
 mism ayt:g:t iwutšū ?
- How  
 How is it?  
 White.  
 How do you do couscous?
13. mšhal ~ mšta ?  
 -mšhal t:aman ?  
 -tlatin ryal .
- How much, how many?  
 How much is it? (liter. "How  
 much is the price.  
 30 rials
- mšhal tas:ašt ?  
 -t:səa wns:
- What time is it?  
 9:30
- mšhal l:wašun ayṛš ?  
 -yri snat ntšir:atin
- How many children do you have?  
 I have two girls.
14. mah , mah azg:a  
 -mah ?  
 -urs:inx
- Why?, Why....?  
 I do not know.
- mah azg:a d:irah ?  
 -t:af ad:ik: yr muhnd .
- Why did he come?  
 So that he visits Muhnd.
15. mandg:it ?  
 -mandg:it muhnd ag:rahn yr s:uq: ?  
 -muhnd uṣq:a
- Which Muhnd went to the  
 market?  
 Muhnd Ouakka.
16. mandiwn  
 -mandiwn ag:rahn yr s:uq: ?  
 -muhnd ag:rahn
- Which one? (among you (m))  
 Which one of you went to the  
 market?  
 It is Muhnd who went.

17. mandiwnt  
 -mandiwnt ag:s:nwn ayrum ?  
 -mam:a  
 -ntš .
18. mandinx  
 -mandinx aytbyit ?  
 -šk: amuhnd .  
 -šm: amam:a .
19. mandisn  
 -mandisn aytbyit ?  
 -cli .  
 -mandisn ag:swin at:ay ?  
 -muhnd .
20. mandisnt  
 -mandisnt ag:s:nawn ayrum ?  
 -mam:a
21. is  
 -is tbyit at:ay ?  
 -la , byix lq:hwa .  
 -is irah muhnd ?  
 -y:ih .
22. isd  
 -isdtad:artn:š ayu ? > ist:ad:artn:š ayu ? Is this your house?  
 -y:ih  
 -isd + nt:a ---> isn:t:a  
 -isd + nt:at ---> isn:t:at  
 -la  
 -isd adixdm ?  
 -urs:inx
- which one (of you (f)) ?  
 Which one of you cooked the bread?  
 Mamma.  
 I.
- who among us  
 you, Muhnd  
 you, Mamma
- who, which among them (m)  
 Who/ which one do you want?  
 Aly.  
 Who among them drank tea?  
 Muhnd.
- who/which one of them (f)  
 Which one is cooking bread?  
 Mamma.
- Interrogative particle  
 Do you want tea?  
 No. I want coffee.  
 Did Muhnd go?  
 Yes.
- Interrogative particle  
 Is this your house?  
 Yes.  
 Is it him?  
 Is it her?  
 No.  
 Is he going to work?  
 I do not know.

V.3 Conjunctions

## V.3.1 Ayt Ayache

- |    |  |   |
|----|--|---|
| 1) | l:iy<br>ad:ay<br>nd:a l:iy did:a<br>ad:ay nwin waman adɛmry atay .   | when<br><br>When he came we left<br>When the water boils, I<br>will make tea.   |
| 2) | l:iy<br>l:iy das:aray žmɛy dɛli .  | while<br>While I was walking, I<br>met Aly .  |
| 3) | ɣas an:axf ɣas<br>ɣas an:axf t:užadn nd:u<br><br>ɣas adnwin waman adɛm:ry atay   | as soon as<br>As soon as you (m.p.)<br>are ready we will go<br><br>As soon as the water<br>boils I'll make tea.   |
| 4) | ay<br>n:a<br>muħa ag: d:an . (< ay id:an)<br>fadma ag: d:an .<br>tišir:atin ag: d:an .<br>argaz n:a yd:an , yma ag:a .<br><br>l:una ay xɛary .<br><br>l:un n:a xɛary aya .<br><br>lɛil n:a yran lk:as aya.<br><br>han lɛil n:a yran lk:as.<br><br>tarb:at: n:a yran lk:as aya .<br><br>han tarb:at n:a yran lk:as .<br><br>tafunast n:a ytšan tuya aya . | who, which<br><br>It's Muħa who went.<br>It's Fatma who went.<br>It's the girls who went.<br>The man who went is my<br>brother.<br><br>It's this color which<br>I choose.<br><br>This is the color which<br>I choose.<br><br>This is the boy who wants<br>the glass.<br><br>There is the boy who<br>wants the glass.<br><br>This is the girl who<br>wants the glass.<br><br>There is the girl who<br>wants the glass.<br><br>This is the cow that<br>ate the grass. |

han tafunast n:a ytšan tuya .

There is the cow that  
ate the grass.

5) ak:ma

whatever

ak:mani

wherever

ak:milmi

whenever

ak:an:a

whatever

ak:un:a

whoever

ak:ma γr id:a, yaf žha .

Wherever he goes, he finds  
Jeha.

ak:mani γr id:a , yaf žha .

Wherever he goes, he finds  
Jeha.

ad:ud γur:γ ak:milmi

Come to see us, whenever  
(you want).

ak:an:a trid adaštšγ .

I'll give you whatever you  
want.

ak:wn:a did:an tšmas atay .

Give tea to whoever comes  
here.

6) d

and

id:a muha dli γrs:uq: .

Muha and Ali went to the  
market.

7) walayn:i

but

walakn:i

maša

d:iγ walayn:i urn:ufiγ muha .

I went but I did not find  
Muha.

8) la ... ula ...

neither...nor...

urifhim la lmalik ula lwazirns

Neither the king nor

ayn:a yn:a žha .

his minister understood  
what Jeha said.

9) al:iy

until

al:

until

iq:ra al:iy iwħl .

He studied until he got  
tired.

q:im al: did:u .

Stay until he comes.

10) t:afad

so that

hma  
rb:aγ tamaziγt t:afad adsiwly  
imd:n da .

in order to

I studied Berber so that  
I could talk to people  
here.

rb:aγ tamaziγt hma adsiwly  
imd:n da .

I studied Berber so that  
I could talk to people  
here.

11) ςlahq:

because

riγt ςlahq: izil .

I like him because he is  
nice.

12) mad

or

is trid lq:hwa mad atay ?

Do you want coffee or tea?

### V.3.2 Ayt Seghrouchen

1) zg:a

when

ad:ay  
nrah zg:a d:irah .  
ad:ay nun waman adm:rx at:ay

We left when he came.  
When the water boils,  
I will make tea.

2) zg:a

while

zg:a s:arix žm x dli .

I met Ali while I was  
walking.

3) xas , adinx

as soon as

xas adnun waman adm:rx at:ay .  
adinx t:užidm an:rah .

I'll make tea as soon  
as the water is boiled.  
We will leave as soon as  
you are ready.

4) ay , din

who, which

muhnd ag:rahñ .  
lwašun ag:rahñ

It is Muhnd who left.  
It is the kids who left.

mam:a ag:rah̄n	It is Mamma who left.
tišir:atin ag:rah̄n	It is the girls who left .
l:unu ayxtarx .	It is this color I chose.
l:un din xtarx ayu .	This is the color I chose.
arba din ibyan lkas ayu .	That is the boy who wants the glass.
haš arba din ibyan lkas .	There is the boy who wants the glass.
tarbat: din ibyan lkas ayu.	This is the girl who wants the glass.
hašn: tarbat: din ibyan lkas .	There is the girl who wants the glass.
tafunast din itšin tuža ayu .	This is the cow which ate the grass.
hašn: tafunast din itšin tuža .	There is the cow which ate the grass.
haš aryaz din yr syix ižru .	This is the man from whom I bought the field.
5) ak:adin	whatever
ak:mani	wherever
ak:adin in:a žha itš lmalik: .	The king laughed at anything Jeha said.
ak:mani yr irah̄ ižme džha .	He meets Jeha wherever he goes.
6) d	and, with
irah̄ muha doli yr s:uq:	Muha and Ali went to the market.
7) walayn:i , walakayn:i , maša	but
rah̄x	$\left. \begin{array}{l} \text{walayn:i} \\ \text{walakayn:i} \\ \text{maša} \end{array} \right\} \text{urn:ufix muhnd}$
8) la ----ula	neither, nor
urifhim la lmalik: ula lwazirn:s	Neither the king nor
adin in:a žha .	his minister understood what Jeha said.

- ul:it:t:x la lbsl la tiš:rt I eat neither onions  
nor garlic.
- 9) azg:a till, until  
al:  
iq:ra azg:a ywhl He studied until he  
got tired.  
q:im al: d:irah . Stay until he comes.
- 10) t:af in order to, so that.  
žm: lflus t:af at:aft mas Save money so that you  
γatsyt t:unubil . buy a car. (Lit: so  
that you find what to  
buy a car with.)
- 11) əlahq: because  
byixt əlahq: iədl . I like him because he  
is nice.
- 12) mad or  
is tbyit lq:hwa mad at:ay ? Do you want coffee  
or tea?

## V.4

Prepositions

## V.4.1

Ayt Ayache

- 1) s , γr , i to (for)  
id:a sasif He went to the river.  
id:a γr s:uq: He went to the market.  
šasd s:init imuha adism:r . Give Muha the tray  
(and the tea pot &  
glasses) so that he  
can make tea.  
ts:nwa fadma aγrum imuha . Fadma baked bread for  
Muha.
- 2) γr / --Noun at  
γur/ -- Pronoun  
insa hd:u γr muha . Haddu spent the night  
at Muha's place.

- | Reference Grammar  | Tamazight | Particles                      |
|--|-----------|--------------------------------|
| 3) y   |           | in                             |
| il:a ytad:art .  |           | He is home (in the house).     |
| Notice: y + i --->g:   |           |                                |
| y + a --->g̣:  |           |                                |
| y irdn ----->g:irdn  |           | in the wheat                   |
| y abrid ----->g̣:brid  |           | in the road                    |
| 4) s   |           | with (instrumental)            |
| yumzt: sufus   |           | He held it (f.) with the hand. |
| 5) s   |           | to (Directional)               |
| id:a sasif   |           | He went to the river.          |
| Notice: A noun is in the Construct State after instrumental /s/ but not after directional /s/. |           |                                |
| 6) xf / --- Noun   |           | on                             |
| γ if / ---Pronoun  |           |                                |
| tl:a xf d:bla  |           | It (f.) is on the table.       |
| tl:a γifs .  |           | It (f.) is on it.              |
| 7) tf:ir   |           | behind                         |
| dar  |           |                                |
| il:a tf:ir ntad:art .  |           | He is behind the house.        |
| tl:a dar ntad:artns .  |           | She is behind her house.       |
| 8) dat   |           | in front of                    |
| il:a dat ntad:art  |           | He is in front of the house.   |
| 9) zy  |           | from                           |
| id:ad zy midlt .   |           | He came from Midelt.           |
| td:ad tbrat: zymuha .  |           | A letter came from Muha.       |
| 10) n  |           | of                             |
| ha tasarut: ntad:art .   |           | Here is the key for the house. |



- 3) y in  
 il:a ytad:art He is home (in the house)  
Notice: y + i ----->g:  
           y + a ----->g:  
 y + irdn ----->g:irdn in the wheat  
 y + abrid ----->g:brid in the road
- 4) s with (instrumental)  
 it:ft: sufus . He held it (f.) with the hand.
- 5) x on  
 tl:a xt:bla It (f.) is on the table.  
 tl:a xs . It (f.) is on it.  
Notice: xfi = on me
- 6) df:ir behind  
 il:a df:ir ntad:art . He is behind the house.
- 7) zdat in front of  
 il:a zdat ntad:art . He is in front of the house.
- 8) zy from  
 irahd: zy midlt . He came from Midelt.  
 trahd: tbrat: zy muha . A letter came from Muha.
- 9) n of  
 ha tsarut: ntad:art . Here is the key for the house.  
Notice: phonological changes of /n/  
           n + lbab ----->l:bab of the door  
           n + at:ay ----->w:at:ay of tea  
           n + udi ----->w:udi of the butter  
           n + ifilan ----->y:filan of the threads



V.6 Vocative Particle

- a vocative particle (Oh, you)  
 This is the same both in Ayt Ayache and Ayt Seghrouchen.
- ad:ud amuħa . Come here Muħa.  
 (Ayt Ayache)
- awru anmuħnd . Come here Muħa  
 (Ayt Seghrouchen)

V.7 Conditional Particles

- (1) mš (A.A., A.S.) if (possible, probable)  
 mš dħr: isignaw adwit unzar (A.A.) .  
 If clouds appear, it rains.
- mš imrd ħd: layt:wawad adbib (A.S.) .  
 If somebody is sick, he sees the doctor.
- (2) mšur (A.A., A.S.) if not (possible, probable)  
 mšur did:i ask:a , add:uy ħrmidlt (A.A.) .  
 mšur d:irah dutša , adraħx ħmidlt (A.S.) .  
 If he does not come tomorrow, I'll go to Midelt.
- (3) mr (A.A., A.S.) if (contrary to fact,  
 impossible)  
 mr ħuri l:in lflus idl:i , l:asɣiy igran nɛli (A.A.) .  
 If I had had the money yesterday, I would have  
 bought Aly's fields.
- mr d:irah . l:awšixas lħžab (A.S.) .  
 Had he come, I would have given him the amulet.

- (4) mrid: (A.A.), mlid: (A.S.) if (contrary to fact,  
impossible)  
mrid: ša yadn , urit:awy taqb:uta sql:mn sbemysat ryal (A.A.)  
If it were somebody else, I would not have given him  
the djellaba for less than 700 Ryals.

mrid: isuridawa d:alb l'il , l:aym:ut . (A.A.)  
Had the Sheikh not cured the boy, he would have died.

mlid: hd: dnin yurit:awy taqb:ut:u sql: mnsbemy:at  
ryal (A.S.) .  
If it were somebody else, I would not have given him  
the djellaba for less than 700 Ryals.

mlid: isuridawi t:alb arba l:aym:ut (A.S.) .  
Had the Sheikh not cured the boy, he would have died.

## VI. Grammar of the Verb

This section treats the grammar of the verb in Ayt Ayache in an exhaustive manner. It discusses Verb Stems (both basic and derived) as well as Noun Stems (Verbal Nouns). It also discusses Temporal and Modal derivations. Examples and rules for all the derivations are included in this section. A morphophonemic sketch stating forty-four possible changes appears at the end of this section.

Notes on the grammar of the verb in Ayt Seghrouchen, showing differences from Ayt Ayache with ample examples, appear before Appendices A and B. Appendix A is a Verb Sample Appendix for Ayt Ayache. It is followed by a verb list of 450 verbs from that dialect. Appendix B is a Verb Sample Appendix for Ayt Seghrouchen.

## VI. Grammar of the Verb

VI.1 Basic and Derived Verb Stems

## VI.1.1 Basic Verb Stems

All unaugmented stems (1-77) appearing in position a) in the Verb Sample Appendix A (pp. 245-261) are basic verb stems (V). As is seen from the examples, some basic verb stems (V) are clearly borrowings from Arabic. However, these stems are now considered an integral part of Tamazight verb lexicon, since they conform completely to the derivational and inflectional patterns of the native stems: e.g., Basic verb stems 45 /zdm/\* 'collect wood' \*\* (Native or Berber) and 44 /xdm/ 'work' (Arabic loan), derive the following nouns of agent : /azd:am/, /izd:amn/, /tazd:amt/, /tizd:amin/ and /axd:am/, /ixd:amn/, /taxd:amt/, /tixd:amin/ (ms, mp, fs, fp respectively for each set). Temporal and Modal derivations and even native ablaut (see VI.3.1) that apply to V45 /zdm/ (Berber) apply to V44 /xdm/ (Arabic): e.g., /zdmγ/ 'I collected wood', /xdmγ/ 'I worked'; /urnzdim/ 'we did not collect wood' and /urnxdim/ 'we did not work'.

VI.1.2 Derived Verb Stems

All augmented verb stems appearing in position a) in

\* A number preceding a form (or a stem) refers to the place of V (Basic Verb Stem) in the Verb Sample Appendix A, pp. 245-261

\*\* Meanings of V's are glossed as infinitives without "to".

the Verb Sample Appendix are derived stems (Causative SV, Reciprocal MV, Recipro-Causative MSV, and Passive TuV). To support the statement made in VI.1.1 above about the conformity of borrowed stems to native derivational patterns, the following examples are here cited using derivatives of stems /γus /, /sum / and /kmz/, /frs/:

V		SV	MSV
γus	'be burnt' (Berber)	sγus	m:sγus
sum	'swim' (Arabic loan)	ssum	m:ssum
V		MV	TuV
kmz	'scratch' (Berber)	m:kmaz	t:ukmz
frs	'attack' (Arabic loan)	m:fras	t:ufrs

## VI.2 Verb Affixes

Verb affixes are either movable or fixed affixes.

### VI.2.1 Movable Affixes

A movable affix is one that is now pre-verbal, (i.e. prefixed to the stem), now post-verbal (i.e. suffixed to the stem). This section discusses two sets of affixes, the Orientational Affixes and the Object Pronominal Affixes.

The Orientational Affixes are: /d/<sup>1</sup> denoting proximity, and /n:/ denoting remoteness. Thus from 71 /d:u/ 'go' we get: /i-d:a/ 'he went', /i-d:a-d/ 'he came', /i-d:a-n:/ 'he went there'.<sup>1</sup> (For Comparative Notes, see pp. 216-239)

Included as movable affixes are object pronominal affixes.

The positions of /d/ and /n:/ as well as that of the object pronominal affixes have been stated in III.3 pp. 44-46 Pronominal Systems under the heading Pronominal Affixes for Verbs and Prepositions.

#### VI.2.2 Fixed Affixes

A fixed affix is either a prefix, a suffix, or a discontinuous morpheme.

##### a) Prefixes:

1) Derived Stem Prefixes. This group is prefixed either to a basic verb stem (V) to form a derived verb stem (SV, MV, MSV, TuV) or to a derived verb stem to form its habitual verb stem (SVH, MVH, MSVH, TuVH). VH, the habitual verb stem of unaugmented V, is also derived by the realization of T (see No. 5 below; also see VI.4.2)

These prefixes are here symbolized as

1. S - for causative derivation SV
2. M - for reciprocal derivation MV
3. MS - for recipro-causative derivation MSV
4. Tu - for passive derivation TuV
5. T - for habitual derivation HV, SVH, MVH, MSVH, TuVH

A rare but possible derivation is a TuSV derivation which is a passive derived from a causative stem e.g. 33 /t:usfrh/.

2) Temporal and Modal Affixes. This group of Tense and Mode prefixes derives the future and present tenses and their negative and interrogative modes as well as the modes of the past tense.

(i) Temporal Prefixes. There are two temporal prefixes (one for future tense and one for present tense derivations) and an aspectual prefix that derives a progressive or inchoative action.

Future Tense Prefix /ad-/: This prefix derives a future tense from V, SV, MV, MSV or TuV: e.g. ll /ɣum/ 'swim', /ad-ɣum-γ / 'I will swim'.

Present Tense Prefix /da-/ ~ /l:a-/.<sup>2</sup> This prefix derives a present tense from VH, SVH, MVH, MSVH, or TuVH: e.g., ll /ɣum/ 'swim' /t:ɣum/ VH, /da-t:ɣum-γ / /l:a-t:ɣum-γ / 'I swim'.

Progressive or Inchoative Action Prefix /ar-/.<sup>3</sup> This prefix derives a progressive or inchoative action from VH, SVH, MVH, MSVH or TuVH: e.g., ll /ɣum/ 'swim', /t:ɣum/ VH, /ar-t:ɣum-γ / 'I started to swim, I began to swim'.

(ii) Modal Prefixes. This section discusses the derivation of the negative and/or interrogative modes of the verb listing the prefixes used in such derivatives with examples illustrating the generated structure.

Interrogative: /id:-<sup>4</sup>/ occurs before the temporal prefix /ad-/ to derive an interrogative future construction: e.g., ll /sum/ 'swim' /ad-sum-γ/ 'I will swim', /id:-ad-sum-γ/ 'Will I swim?'

Interrogative: /is-<sup>5</sup>/ occurs before a V, SV, MV, MSV, or TuV inflected for person-number-gender to derive a past tense interrogative construction or before /da-/ (see (i) above) to derive an interrogative present construction: e.g., ll /sum/ 'swim' /sum-γ/ 'I swam' /is-sum-γ/ 'did I swim?' /t:sum/ VH, /da-t:sum-γ/ 'I swim' /is-da-t:sum-γ/ 'do I swim?'

Negative: /ur-<sup>6</sup>/ occurs before an affirmative construction to derive a negative one: e.g. ll /sum/ 'swim' /t:sum/ VH, /sum-γ/ 'I swam', /ur-sum-γ/ 'I did not swim' /da-t:sum-γ/ 'I swim', /ur-da-t:sum-γ/ 'I do not swim'.

Negative-Interrogative: A negative construction derived by the prefix /ur-/ may be preceded by the interrogative prefix /is-/ to derive a negative interrogative construction:

e.g.,	/sum/ 'swim'	/ur-sum-γ/	I did not swim.
		/is-ur-sum-γ/	Didn't I swim?
	/t:sum/ VH	/ur-da-t:sum-γ/	I do not swim.
		/is-ur-da-t:sum-γ/	Don't I swim?

b) Suffixes

There are two sets of suffixes, both of which are used for Imperative Derivations.

Imperative Mode Derivational Suffixes: The suffixes shown in Table 1 derive (second person) imperative constructions whereas the suffixes in Table 2, derive hortatory (first person) constructions. Notice that person-dual occurs only in the hortatory construction in this dialect. The negative imperative is derived by prefixation of /*adur-*/ to VH, SVH or MVH and suffixation of -PNG set shown in Table 1.

PNG	Imper. Suffix
2 s m	-∅
2 s f	-∅
2 p m	-at
2 p f	-nt

Table 1

Second Person Imperative  
Suffixes 7

PNG	Imper. Suffix
1 d m	-aγ
1 d f	-am
1 p m	-ataγ
1 p f	-ntaγ

Table 2

Hortatory Suffixes 7

c) Person-Number-Gender Affixes

There is only one set for the inflection for /-PNG-/ in ALL TENSES in Tamazight (See Table 3.).

P N G	Inflectional Affix
1 s	_____γ
2 s	t _____ d
3 s m	i _____
3 s f	t _____
1 p	n _____
2 p m	t _____ m
2 p f	t _____ nt
3 p m	_____ n
3 p f	_____ nt

Table 3

Ayt Ayache /-PNG-/ Affixes 8

Another morpheme that should be mentioned here is the Participle Morpheme /-n/. Since the realization of -PNG- effects a change in the stem of certain verb classes in the past tense, therefore the participle rule must be applied after the realization of the features for  $P_3N_sG_m$  and the Modal prefix to allow for the occurrence of the ablaut. (See VI.3.1)

The suffix /-n/ is common to the three participles: Present, Past and Future participles

(See also Tables 11-39  
A.S. pp. 220-237)

### VI.3 Classification of Verb Stems<sup>9</sup>

This section discusses the grouping of unaugmented verb stem into two types, four classes and nine sub-classes as is done in the Sample Appendix.

The underlying structure of the verb stem in Tamazight is ||ABCD|| . Here ||A|| represents the first radical, ||B|| represents the second radical and so forth. If ||B||, for example, is a [+tense] radical (e.g., t:, d:, m:, etc.), it is referred to as ||B:|| and to the stem as ||AB:CD||; if it is a vowel, it is referred to as ||V|| and to the stem as ||AVCD||.

The classification of Tamazight verb stems is based primarily on an ablaut that occurs in the past tense for particular classes (see VI.3.1) and secondarily on the derivational processes of derived verb stems (Causative, Reciprocal and Passive verb stems and their Habitual stems; see VI.4. The sub-classification is based on several factors shown in VI.3.2.

Tamazight verb stems may then be classified into two types: Ablauted and Non-Ablauted. The ablauted type is characterized by having all its members with third radical ||c|| = ||∅|| in their underlying structures whereas the unablauted type does not have a ||∅|| as third radical (See VI. 3.1) The general structure of the unablauted type is

$\|AB(C)(D)\|$  whereas that of the ablauted type is  $\|(A)B(:)\emptyset(D)\|$

In more detail the structure of the ablauted type is

$\left\{ \begin{array}{l} \|AB(:)\emptyset(D)\| \\ \|OB(:)\emptyset(D)\| \end{array} \right\}$  The positing of a null radical for  $\|A\|$

symbolized as  $\|O\|$  accounts for the structure of such ablauted stems as 66 /g/ 'be, do', 68 /g:/ 'knead', 69 /k:/ 'pass' and 57 /f:r/ 'hide' with the underlying structures /Og $\emptyset$ /, /Og: $\emptyset$ /, /Ok: $\emptyset$ / and /Of: $\emptyset$ r/ respectively.

### VI.3.1 The Different Ablauts

Ablaut occurs (for some verb classes) only in the affirmative and/or negative past. The ablaut of the interrogative past follows that of the affirmative past; the negative-interrogative ablaut is the same as the negative past. For this reason we will refer only to affirmative and negative past and mark them as [ -Negative] and [ + Negative ]: e.g., 70 /ls/ 'get dressed': /i-lsa/ 'he got dressed', /is-ilsa/ 'did he get dressed?', /ur-i-lsi/ 'he did not get dressed', /isur-ilsi/ 'didn't he get dressed?'.

The following discussion is meant to show the kinds of ablauts that occur in Tamazight and the rules governing their occurrence.

#### VI.3.1.1 Zero Ablaut / $\emptyset$ /

We must distinguish between zero and no ablaut. The

latter is a characteristic of such verb stems as 1 - 25 in the Appendix that do not have an underlying structure with  $\|C\| = \|\emptyset\|$ . Zero ablaut,  $/\emptyset/$ , is characteristic of the others (25 - 77 with  $\|C\| = \|\emptyset\|$ ): e.g., 9  $/sal/$  'ask' has no ablaut as in  $/sal-\gamma/$  'I asked',  $/ur-sal-\gamma/$  'I did not ask'; whereas 70  $/ls/$  (underlying form  $/ls\emptyset/$ ) 'get dressed' is ablauted and thus gives:  $/lsi-\gamma/$  'I got dressed' and  $/ur-lsi-\gamma/$  'I did not get dressed'.

The following examples of verb stems, both in their underlying and surface structures, show the occurrence of  $/\emptyset/$  as the  $\|C\|$  radical of certain sub-classes to which this grammar refers as ablauted. Also included in the examples are unablauted verb stems whose  $\|C\|$  radicals are not  $/\emptyset/$ .

	Underlying Structure		Surface Structure
	ABCD		
3	fa	fa	'yawn'
6	šk:a	šk:a	'doubt'
1	dawa	dawa	'cure'
9	sal	sal	'ask'
18	xɽar	xɽar	'choose'
21	ħudr	ħudr	'bend, be low'
33	fr $\emptyset$ h	frh	'be happy'
34	fs:ør	fs:r	'explain'

52	amøz	amz	'take'
57	Of:ør	f:r	'hide'
62	aŋø	aŋ	'find'
63	aš:øk	aš:k	'be lost'
64	arør	rar	'return'
66	Ogø	g	'be, do'
70	lsø	ls	'get dressed'
71	Od:øu	d:u	'go'
77	irøi	iri	'want'

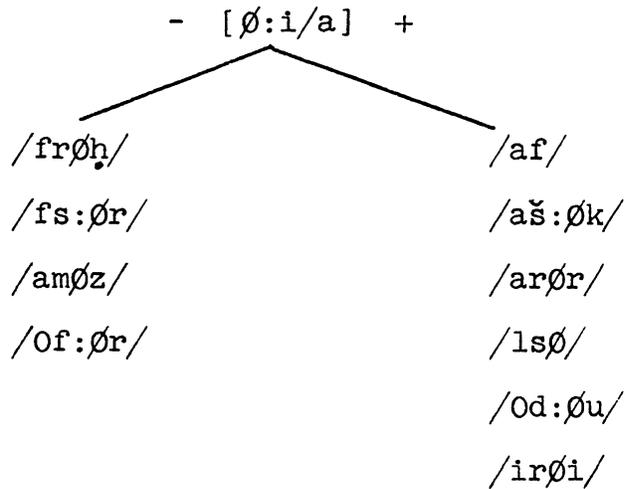
Thus the major distinction is whether the underlying structure of the stem has its  $\|C\|$  radical as  $\|\emptyset\|$  (e.g., 26-77 in the Verb Appendix) or not (e.g., 1-25 in the Verb Appendix). Based on this distinction, Tamazight verb stems are classified into two types:

- A - Unablauted (1-25 in Verb Appendix)
- B - Ablauted (26-77 in Verb Appendix)

#### VI.3.1.2 $[\emptyset:i/a]$ Ablaut

The most distinctive ablaut is the change of  $\emptyset$  referred to in VI.3.1.1 above to  $/i/$  in the Past<sub>[-Negative]</sub> for  $P_1N_sG_{m\&f}$ ,  $P_2N_sG_{m\&f}$  and to  $/a/$  in the Past<sub>[-Negative]</sub> for PNG other than these mentioned here.

Using this feature, the Ablauted Type (26-77) is classified into two classes:



[ø:0] and [ø:i/a] Classes of Ablauted  
Verb Stems

Examples of [ø:i/a] Ablaut: (For complete conjugations of ablauted and unablauted verb stems, see Tables 4,5, and 6)

70	/ls/ (< /lsø/)	
	lsiy	'I got dressed'
	tlsid	'you (s) got dressed'
	ilsa	'he got dressed'
	tlsa	'she got dressed'

Examples of [- ø:i/a] (which will be referred to as [ø:0], i.e. zero: null ablaut):

33	frḥ (< frøḥ)	
	frḥy	'I was happy'
	tfrḥd	'you were happy'
	ifrḥ	'he was happy'
	tfrḥ	'she was happy'

VI.3.1.3 Predictable Ablauts

Two other predictable ablauts are: [ø:i] ablaut and [a:u] ablaut.

VI.3.1.3-a [ø:i] Ablaut

This is a change of /ø/ to /i/ in the past for all PNG. This is, of course, a general ablaut since it occurs with all ablauted stems: e.g., 70 /ls/ (</lsø/): /lsiγ/ 'I got dressed', /urlsiγ/ 'I did not get dressed', /ilsa/ 'he got dressed', /urilsi/ 'he did not get dressed'; 33 /frh/ : /frhγ/ 'I was happy', /urfrihγ/ 'I was not happy', /ifrh/ 'he was happy', /urifrih/ 'he was not happy'.

VI.3.1.3-b [a:u] Ablaut

This is a change of /a/ to /u/ (for ablauted stems). Thus any stem with ||A|| = /a/ and ||C|| = /ø/ undergoes this change of /a/ → /u/ in the Past [ $\pm$ Neg]. This accounts for the fact that such stems as 12 /an:ay/ 'see' and 13 /azum/ 'fast' are classified as unablauted since their ||C|| is not /ø/ : e.g., 62 /af/ ( /afø/ ) 'find': /ufiγ/ 'I found', /urufiγ/ 'I didn't find', /yufa/ 'he found', /uryufi/ 'he did not find'.

VI.3.1.4 Metathesis

The role of metathesis is important in stating the

structure of certain sub-classes of verbs in Tamazight. A look at 9 /sal/ 'ask' and 64 /rar/ 'return' shows that they have identical surface structures. However, their underlying structures are different: 9 /sal/ has /sal/ as underlying structure whereas the underlying structure of 64 /rar/ is /arør/.

A verb base (i.e. the underlying structure of the verb stem) may be marked for [ $\pm$ Metathesis] which affects its  $\parallel AB \parallel$  and/or  $\parallel \emptyset D \parallel$  radicals: e.g., /arør/  $\longrightarrow$  /rarø/; /as:øk/  $\longrightarrow$  /as:kø/; or its  $\parallel B \emptyset \parallel$  radicals: e.g., /grø/  $\longrightarrow$  /gør/. Stems marked for double metathesis (i.e. the /arør/  $\longrightarrow$  /rarø/ structure) are rare in this dialect. Lexicons and dictionaries of Tamazight list three to five verbs with this particular structure. Stems of the /as:øk/  $\longrightarrow$  /as:kø/ and the /grø/  $\longrightarrow$  /gør/ structures are rare also.

#### VI.3.1.5 Predictable Changes in the Sub-class /d:u/ - /iri/

This sub-class is characterized by having  $\parallel D \parallel = \parallel V \parallel$  where  $\parallel V \parallel$  is either /u/ or /i/ but not /a/. A predictable change occurs with the realization of person-number-gender in the Past [ $\pm$ Negative] to the members of this sub-class whose structure (whether /bdu/, /d:u/, /<sup>s</sup>d:u/, or /iri/). This is  $\parallel (A)B\emptyset V \parallel \longrightarrow \parallel (A)B\emptyset \bigg/ \_ V = \left\{ \begin{array}{c} u \\ i \end{array} \right\}$ .

In addition another rule that is necessary for any stem with  $\|A\| = /#i-/$  whether ablauted or not (e.e. 77 or 15) is one that deletes initial  $/#i-/$  before the realization of  $/-PNG-/$  in the Past<sub>[±Negative]</sub>. It will thus operate on unablauted 15  $/izil/$  'be nice' as well as on ablauted 77  $/iri/$  'want'.

Examples of the above-mentioned changes are:

$/šmu/$  (<  $/šmøu/$ ) 'smoke':  $/šmiγ/$  'I smoked',  $/uršmiγ/$  'I did not smoke',  $/išma/$  'he smoked',  $/urišmi/$  'he did not smoke' and 77  $/iri/$  (<  $/irøi/$ ) 'want':  $/riγ/$  'I wanted',  $/ur:iγ/$  'I did not want',  $/ira/$  'he wanted',  $/uriri/$  'he did not want'. (See full paradigms in Tables 5 and 6.)

### VI.3.2 Classes and Sub-classes of the Two Types of Tamazight Verb Stems

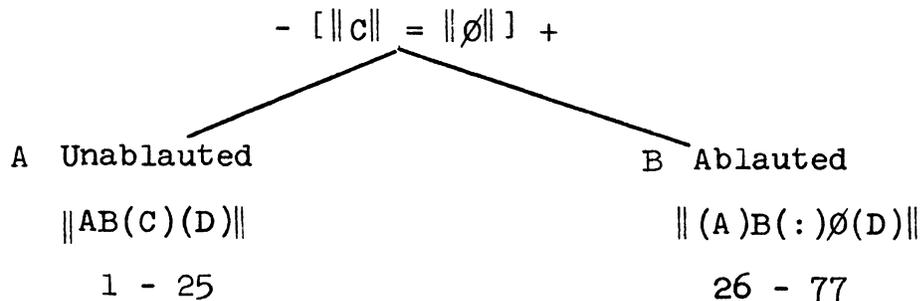
This section discusses the bases of the classification of Tamazight verb stems into two types, four classes and nine sub-classes.

#### VI.3.2.1 Ablauted and Unablauted Types

Based on the occurrence or non-occurrence of a  $\| \emptyset \|$  as the  $\|C\|$  radical of their underlying structures, Tamazight verb stems are classified into two types:

A Ablauted (with  $\|C\| = \|\emptyset\|$  in the underlying structure)  
 B Unablauted (with no  $\|\emptyset\|$  in the underlying structure)

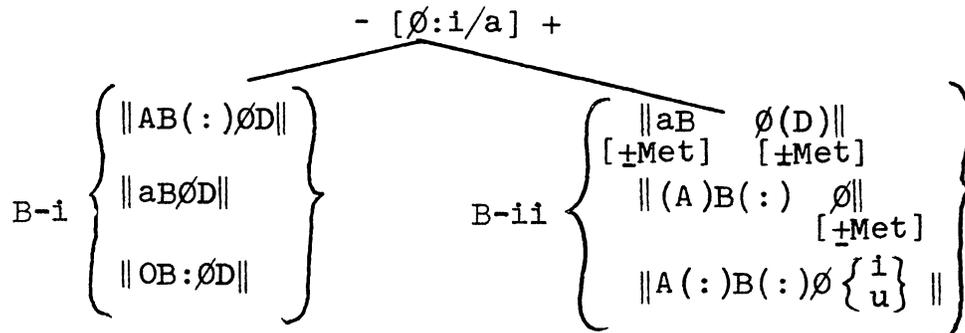
This information is shown here in the following figure:



Ablauted and Unablauted Types of Tamazight Verb Stems

### VI.3.2.2 Classes of the Ablauted Type

Based on the change  $[\emptyset:i/a]$  referred to in VI.3.1.2 ablauted stems (26-77) are classified into two classes: B-i and B-ii. B-i (26-61) is referred to as  $[-\emptyset:i/a]$  (or  $[\emptyset:0]$ ); B-ii (62-77) is referred to as  $[\emptyset:i/a]$ . This is illustrated in the following figure:

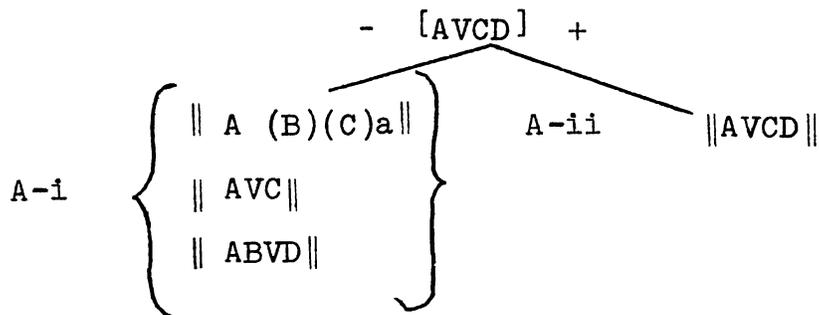


Classes of the Ablauted Type

### VI.3.2.3 Classes of the Unablauted Type

The members of the unablauted type do not undergo any change with the realization of person-number-gender in the past. However, classification into two classes: A-i and A-ii is necessary for the statement of particular derivations. All members of the unablauted type are characterized by a structure that does not have  $\|C\|$  as  $\|\emptyset\|$  and that necessarily has  $\|V\|$  as either radical  $\|B\|$ ,  $\|C\|$  or  $\|D\|$ . The position of  $\|V\|$  is the basis of the classification of unablauted stems into A-i and A-ii. All members of the A-ii class have the structure  $\|AVCD\|$  (referred to as /ħadr, d:irz, ħudr/).

Based on whether the stem has  $\|B\| = \|V\|$  followed by  $\|CD\|$ , the two classes of the unablauted type are shown in the following figure:



Classes of the Unablauted Type

### VI.3.2.4 Sub-classification of Tamazight Verb Stems

This section groups together the information stated in VI.3.2.1 to VI.3.2.3 above showing types A and



operation of the morphophonemic rules. Meanings are only listed for the Affirmative Past.

PNG	Stem		Affirmative Past	Negative Past	
	dawa	'cure'			
1s			dawaγ	'I cured'	urdawaγ
2s			tdawad	'you cured'	urtdawad
3sm			idawa	'he cured'	uridawa
3sf			tdawa	'she cured'	urtdawa
1p			ndawa	'we cured'	urndawa
2pm			tdawam	'you cured'	urtdawam
2pf			tdawant	'you cured'	urtdawant
3pm			dawan	'they cured'	urdawan
3pf			dawant	'they cured'	urdawant
	sal	'ask'			
1s			saly	'I asked'	ursaly
3sf			tsal	'she asked'	urtsal
	xṭar	'choose'			
1s			xṭary	'I chose'	urxṭary
3sf			txṭar	'she chose'	urtxṭar
	ḥaḍr	'be present'			
1s			ḥaḍry	'I was present'	urḥaḍry
3sf			thḥaḍr	'she was present'	urthḥaḍr

TABLE 4 - Person-Number-Gender Paradigms for Unablauted Stems

PNG	Stem		Affirmative Past	Negative Past
	frh 'be happy'			
1s		frhγ	'I was happy'	urfrihγ
2s		tfrhd	'you were happy'	urtfrihd
3sm		ifrḥ	'he was happy'	urifriḥ
3sf		tfrḥ	'she was happy'	urtfriḥ
1p		nfrḥ	'we were happy'	urnfriḥ
2pm		tfrḥm	'you were happy'	urtfriḥm
2pf		tfrḥnt	'you were happy'	urtfriḥnt
3pm		frḥn	'they were happy'	urfriḥn
3pf		frḥnt	'they were happy'	urfriḥnt
	fs:r 'explain'			
1s		fs:rγ	'I explained'	urfs:irγ
3sf		tfs:r	'she explained'	urtfs:ir
	amz 'take'			
1s		umzγ	'I took'	urumizγ
2s		tumzd	'you took'	urtumizd
3sm		yumz	'he took'	uryumiz
3sf		tumz	'she took'	urtumiz
1p		numz	'we took'	urnumiz
2pm		tumzm	'you took'	urtumizm
2pf		tumznt	'you took'	urtumiznt
3pm		umzn	'they took'	urumizn
3pf		umznt	'they took'	urumiznt
	f:r 'hide'			
1s		f:rγ	'I hid'	urf:irγ
3sf		tf:r	'she hid'	urtf:ir

TABLE 5 - Person-Number-Gender Paradigms for [∅:0] Ablauted Stems

PNG	Stem	Affirmative Past		Negative Past
	af 'find'			
1s		ufiy	'I found'	urufiy
2s		tufid	'you found'	urtufid
3sm		yufa	'he found'	uryufi
3sf		tufa	'she found'	urtufi
lp		nufa	'we found'	urnufi
2pm		tufam	'you found'	urtufim
2pf		tufant	'you found'	urtufint
3pm		ufan	'they found'	urufin
3pf		ufant	'they found'	urufint
	as:k 'be lost'			
1s		uš:kiy	'I was lost'	uruš:kiy
3sf		tuš:ka	'she was lost'	urtuš:ki
	rar 'return'			
1s		ruriy	'I returned'	ur:uriy
3sf		trura	'she returned'	urtruri
	ls 'get dressed'			
1s		lsiy	'I got dressed'	urlsiy
2s		tlsid	'you got dressed'	urtslid
3sm		ilsa	'he got dressed'	urilsi
3sf		tlsa	'she got dressed'	urtlsi
lp		nlsa	'we got dressed'	urnlsi
2pm		tlsam	'you got dressed'	urtlsim
2pf		tlsant	'you got dressed'	urtlsint
3pm		lsan	'they got dressed'	urlsin
3pf		lsant	'they got dressed'	urlsint
	bdu 'begin'			
1s		bdiy	'I began'	urbdiy
2s		tbdid	'you began'	urtbdid
3sm		ibda	'he began'	uribdi
3sf		tbda	'she began'	urtbdi
lp		nbdā	'we began'	urnbdi
2pm		tbdam	'you began'	urtbdim
2pf		tbdant	'you began'	urtbdint
3pm		bdan	'they began'	urbdin
3pf		bdant	'they began'	urbdint
	iri 'want'			
1s		riy	'I wanted'	ur:iy
2s		trid	'you wanted'	urtrid
3sm		ira	'he wanted'	uriri
3sf		tra	'she wanted'	urtri
lp		nra	'we wanted'	urnri
2pm		tram	'you wanted'	urtrim
2pf		trant	'you wanted'	urtrint
3pm		ran	'they wanted'	ur:in
3pf		rant	'they wanted'	ur:int

TABLE 6 - Person-Number-Gender Paradigms for [ø:i/a]Ablauted Stems

VI.4 Derivational Processes<sup>10</sup>VI.4.1 Introduction

Derivations are of two kinds: Stem Derivations and Temporal/Modal Derivations. Derived Stems are either Verb Stems or Noun Stems. The Derived Verb Stems include the Causative SV, the Reciprocal MV, the Recipro-Causative MSV, and the Passive TuV as well as their Habitual Stems (SVH, MVH,MSVH,TuVH respectively) and the habitual VH of the unaugmented Verb Stem V. Derived Noun Stems include the stems of such nouns as the ones appearing in positions c), d) and e) in the Sample Appendix(Noun of Action, Agent, Instrument, Place or Occupation also see the Grammar of the Noun.) The following are the main Temporal and Modal derivations of the unaugmented verb stem V and its habitual stem VH: Aorist (Aor.), Affirmative Past (Aff. Past), Negative Past (Neg. Past), Interrogative Past (Interr. Past), Negative-Interrogative Past (Neg-Interr. Past),Affirmative Future (Aff. Fut.), Negative Future (Neg. Fut.), Interrogative Future (Interr. Fut.), Affirmative Present (Aff. Pres.), Negative Present (Neg. Pres.), Interrogative Present (Interr, Pres.), Negative-Interrogative Present (Neg-Interr. Pres.), Imperative (Imp.), Negative Imperative (Neg. Imp.), Past Participle (Past Part.), Present Participle (Pres. Part.), and Future Participle (Fut. Part.). Most of the above-mentioned temporal and

modal structures generated from V and its VH may also be generated from SV, MV, MSV and their habitual stems SVH, MVH, and MSVH. Fewer structures are generated from TuV and its habitual stem TuVH.

The purpose of this chapter is to characterize how a native speaker of Tamazight can generate all the forms referred to here. This is represented in a series of discussions. Section VI.4.2 discusses the derivation of VH i.e. the habitual of the unaugmented stem . Sections VI.4.3 VI.4.4 and VI.4.5 discuss the derivations of the Causative, Reciprocal and Passive stems respectively. The discussion of the derivation of the habitual of a particular derived stem is included with it in the same section: e.g. Section VI.4. discusses SV and SVH derivations. Section VI.4.6 is an informal discussion of derived noun stems and nouns. Section VI.4.7 shows the derivations of the different tenses and their modes as well as the participles with examples shown in Tables 7-29. Rules are formulated for each temporal and modal derivation and a summary of the rules appears in VI.4.7.8.

Throughout Section VI.4 DSR refers to a deep structure rule which generates a form with its morpheme boundary /-/ whereas SSR refers to a surface structure rule that deletes /-/ and realizes other changes stated for the generated structure. SSR's of a particular derivation follow DSR's

of the same derivation except for general SSR's which are grouped in Section VI.5.

#### VI.4.2 Derivation of the Habitual VH of the Unaugmented Stem

VH is the stem used in the derivation of the present tense with its different modes, the progressive and inchoative actions, the negative and the energetic imperatives, and the present and future participles. The VH is derived from unaugmented V; theoretically each V has a VH.

Prefix /t:-/ is used to derive the habitual stem of any V of type A-i (1-73)\* /t:\_\_\_aV-/ derives habitual stems from V's of the type A-ii. (74-115). /-aV-/\*\* is an alpha rule that adds a vowel that is identical to the stem vowel (see examples for A-ii below).

#### Examples

	V	VH
A-i 3	fa 'yawn'	t:fa
37	sal 'ask'	t:sal
46	ɣum 'swim'	t:ɣum
72	zwiY 'be red'	t:zwiY

\* Numerals refer to number of verb stem in Verb List at the end of this chapter. (pp. 262-282)

\*\* For a more elaborate description of the habitual derivational processes see Abdel-Massih, Ernest, Tamazight Verb Structure: A Generative Approach, Indiana University: Bloomington, Indiana, 1971.

A-ii	77	ḥaḍr	'be present'	t:ḥaḍar
	74	d:irz	'step back'	t:diriz
	83	ḥudr	'bend'	t:ḥudur

B.i.1 To derive the habitual of V of type B.i.1. (116-315)

observe the following:

a) All verbs of the /fs:r/ (||AB:ØD||) sub-group derive their habitual stems by prefix /t:-/ and ||Ø|| → /-a-/, i.e.

162 fs:r 'to explain' → t:fs:ar (VH)

b) All V's marked native (i.e. not Arabic) derive their VH's thus: ||B|| → ||B:|| e.g.

225 rḥm 'to open' → rḥ:m (VH)

c) V's marked 'Arabic loan' derive their VH's by prefix /t:-/ and ||-Ø-|| → /a-/ if ||B|| is not /r/ nor /d, t, s, z, s, or z/, e.g.

126 bʿd 'be far' → t:bʿad (VH)

144 fhm 'understand' → t:fham (VH)

d) If ||B|| is /r/ we may get VH's as variants of both forms mentioned in b) and c) above, e.g.

149 frḥ 'be happy' → fr:ḥ  
t:fraḥ (VH)

e) If ||B|| is /d, t, s, z, s or z/ VH is formed as in b) above.

271 xdm 'work' → xd:m (VH)

B.i.2 To derive VH's of B.i.2 (316-337) and B.i.3 (338-360) the prefix /t:-/ is used: e.g.,

325 amz 'take' → t:amz (VH)

340 f:r 'hide' → t:f:r (VH)

/t:\_\_\_a#/ is the derivational affix of members of B.ii.1 (361-370), e.g.

362 af 'find' → t:afa (VH)

361 adž 'let' → t:adža (VH)

369 rar 'return, give back'  
back' t:rara (VH)

As for B.ii.2 (371-397), /t:\_\_\_a#/ derives a VH of the structures /Og∅/ → g, bd:∅ → bd: whereas ls∅ → ls derives the VH as ls:a and g∅r → gr∅ → gr derives the VH as g:ar. This means that /∅/ → /a/ and the radical preceding /∅/ → [+tense], e.g.

V		VH	
377	g̣:	'knead'	t:g̣:a
371	bd:	'stand up'	t:bd:a
388	ls	'get dressed'	ls:a
376	gr	'throw away'	g:ar

B.ii.3 (398-450) derive their VH's mainly by the prefix /t:-/. Stems with ||B|| as /n/ derive their VH's by ||B|| → ||B:||. Stems with ||B|| as /m/ derive their VH's by variants of both processes mentioned above, e.g.

401 ḍu 'pray for' → t:ḍu (VH)

400 bnu 'build' → bn:u (VH)

412 ḥmu 'be hot weather' → { ṭḥmu  
ḥm:u } (VH)

### VI.4.3 Causative Stem Derivation

The Verb Appendix shows, where the semantic features of V permit, two causative stems appearing in positions a) and b). The stem in position a) is referred to as SV; i.e. causative stem and the one in position b) is referred to as SVH, i.e. habitual of the causative stem. SV is used for past and future tense derivations, for imperative and past participle derivations. SVH is used for present tense, negative imperative and present and future participle derivations. In general SV corresponds to V (in derivational power) whereas SVH corresponds to VH.

SV is derived from V by the causative prefix  $\left\{ \begin{array}{l} /s-/ \\ /s:-/ \end{array} \right\}$ .

SVH is derived from SV by an infix (/ -V -/), e.g.

	V		SV	SVH
3	fa	'yawn'	sfa	sfa
83	ħudr	'bend'	šħudr	šħudur
173	ħml	'flood'	s:ħml	s:ħmal
426	šfu	'be clean'	š:fu	š:fu

### VI.4.4 Reciprocal Verb Stem Derivation

The Verb Appendix shows, where the semantic features of V permit, two reciprocal stems in positions a) and b). The stem in position a) is referred to as MV, i.e. Reciprocal Verb Stem; whereas the stem-in position b) is referred to as

MVH, i.e. habitual of the reciprocal stem. Stems with reciprocal and causative connotation (Recipro-Causative) appear partly in the Causative and partly in the Reciprocal columns and are referred to as: a) MSV, b) MSVH. This section states the derivation of Recip. and Recipro-Caus. stems. This is done because some V's derive Recipro-Causative stems in spite of the fact that the semantic features of V do not permit the derivation of a causative stem. Such cases are not numerous; e.g. 383 /nɣ/ 'kill' does not derive a causative, however, it derives recipro-causative: MSV /msnɣa/ and MSVH /t:msnɣa/. Some V's derive variants, i.e. reciprocals and recipro-causatives: e.g.

	V		SV	SV		MV
47	bd:l	'change'	sbd:l			mbd:al
			sbd:al			t:mbd:al
				msbd:al		
				t:msbd:al		

where the MV means 'to exchange or change with one another' and the MSV means 'to cause one another to exchange. MV and MVH correspond to V as far as Temporal and Modal derivations are concerned, whereas MVH and MSVH correspond to VH.

\*  
 MV is derived from V by the reciprocal prefix  $\left\{ \begin{array}{l} /m-/ \\ /m:-/ \end{array} \right\}$ ,

\* For a more elaborate description of the phonological rules governing the shape of the causative and/or reciprocal prefix, see Abdel-Massih, Ernest, Tamazight Verb Structure: A Generative Approach, Indiana University: Bloomington, Indiana, 1971.

MSV is derived by prefixing  $\left\{ \begin{array}{l} /-ms-/ \\ /-m:s-/ \end{array} \right\}$  to V. A vowel infix is added if the stem has a consonant cluster as its final two radicals. MVH and MSVH are derived from MV and MSV respectively by prefix /t:-/: e.g.

	V		MV/MSV		MVH/MSVH
37	sal	'ask'	m:sal		t:msal
46	ɣum	'swim'	m:sɣum		t:m:sɣum
95	ɟalb	'demand'	mɟalab		t:mɟalab
144	fhm	'understand'	msfham		t:msfham

#### VI.4.5 Passive Verb Stem Derivation

The Verb Appendix shows two passives: TuV, i.e. passive stem appearing in position a) and TuVH, i.e. the habitual of the passive stem appearing in position b). TuV is derived from V. Stems 149 and 152 in Appendix derive their passives (TuSV) from SV

TuV is the stem that derives past and future tenses and their modes; TuVH is the stem that derives the present tense and its modes. The derivation of TuV from V (most common passive) or SV (very rare passive) is achieved by the passive derivational prefix /t:u-/ and the derivation of TuVH from TuV by an optional infix (/ -V -/ )<sup>\*</sup>, e.g.

\* For a more elaborate description see Abdel-Massih, Ernest, op. cit.

	V		TuV	TuVH
11	ħn:a	'pity'	t:uħn:a	t:uħn:a
37	sal	'ask'	t:usal	t:usal
88	saɔd	'help'	t:usaɔd	t:usaɔad
116	bdr	'mention'	t:ubdr	t:ubdar

#### VI.4.6 Derived Noun Stems and Nouns

##### VI.4.6.1 Introduction

It was stated before that noun stems would be discussed though not fully. This section attempts to show the relation between nouns of action, of agent and other derived nouns and their V's in terms of derivations. The statements are very simple. For more elaborate discussion see the Grammar of the Noun

##### VI.4.6.2 Noun Stem Derivation

Most noun stems are derived from V's; however, few nouns of action may be derived from SV, MV or MSV. Many noun stems are identical with their V's (SV's, MV's or MSV's): e.g.

	V		N-act.	N-agt (m,s)*
84	kašf	'foretell'	a- <u>kašf</u> -	am- <u>kašf</u> -
	V		SV	N-act
7	ħn:a	'be peaceful'	šħn:a	a- <u>šħn:a</u> -

\* Throughout this section, Noun Stems will be underlined.

	V		MV		N-act
81	ħasb	'count'	mħasab		a- <u>mħasab-</u>

In many cases the stem of the noun of action is derived from V by change of  $\|\emptyset\|$  to  $/-a- /$  and the noun of agent stem is derived from that of N-act by change of  $\|B\| \longrightarrow \|B:\|$  ( $[-tense] \longrightarrow [+tense]$ ). This is characteristic of stems with underlying structure  $\|AB\emptyset D\|$ : e.g.

	V		N-act		N-agt (m,s)
167	hdm	'demolish'	a- <u>hdam-</u>		a- <u>hd:am-</u>

Most V's with underlying structures  $\|AB:\emptyset D\|$  derive their N-agt stems by change of  $\|\emptyset\| \longrightarrow /a- /$ . This particular sub-class has (in most cases) identical V's and N-act stems: e.g.

	V		N-act		N-agt (m,s)
123	bš:r	'give good news'	a- <u>bš:r-</u>		a- <u>bš:ar-</u>

The sub-class of verb stems with the underlying structure  $\|OB:\emptyset D\|$  derives its N-act stems by change  $\|\emptyset\| \longrightarrow /-u- /$  and of  $\|B:\| \longrightarrow \|B\|$  ( $[+tense] \longrightarrow [-tense]$ ). This is characteristic of the sub-class with  $\|A\| = \|O\|$  ( $\|O\| \longrightarrow /u- /$ ), e.g.

	V		N-act
338	b:y	'cut'	u- <u>buy-</u>
341	f:γ	'go out'	u- <u>fuγ-</u>

The sub-class of verb stems with the underlying structure  $\|AB\emptyset\|$  derives stems of N-act and N-agt by change of  $\|\emptyset\| \longrightarrow \|V\|$ .

This sub-class of verbs is characterized by deriving most of its N-acts by the affix /m\_\_\_\_t/. If ||V|| is /-i-/ then it → /-iw-/.

	V		N-act	N-agt (m,s)
379	ks	'tend sheep'	ta- <u>ks:a-</u>	am- <u>ksa-</u>
380	ls	'dress'	m- <u>lsiw-t</u>	
381	ns	'spend the night'	m- <u>nsiw-t</u>	
383	ry	'warm oneself'	m- <u>ryiw-t</u>	
385	sy	'buy'	m- <u>syiw-t</u>	
392	zd	'weave'	m- <u>zdiw-t</u>	am- <u>zda-</u>

The sub-class of verbs with the underlying structure ||ABOV|| shows a number of N-act and N-agt which (together with their stems) are derived from V on the pattern of a corresponding Arabic noun. Mention should be made of the fact that when a noun is derived (whether of this sub-class or any other sub-class) on an Arabic noun pattern, the shape of the Berber noun is not easily predictable. Examples given below show noun stems derived from the different classes of V stems that follow an Arabic pattern:

	V		N-act
81	ḥasb	'count'	l- <u>ḥsab-</u>
95	ṭalb	'demand'	ṭ:alab ( l- <u>ṭalab-</u> )
422	ržu	'hope'	r:ža ( l- <u>rža-</u> )
427	ṣḥu	'be healthy'	ṣ:aḥt ( l- <u>ṣaḥt-</u> )

440	ɣfu	'forgive'	l- <u>ɣfu</u> -
265	wq:r	'respect'	l- <u>uq:r</u> -
	V		N-agt (m,s)
400	bnu	'build'	a- <u>bn:ay</u> -
179	ḥšm	'govern'	l- <u>ḥak:m</u> -
264	wk:l	'appoint as representative'	l- <u>ušil</u> -

## VI.4.7 Temporal and Modal Derivation

VI.4.7.1 Introduction

This section discusses the derivation of the different tenses and modes of the verb in Tamazight. The discussion includes the following derivations from unaugmented V: the imperative, the Aorist, the past tense with its different modes: affirmative, interrogative, negative and negative-interrogative; the future tense with its two modes: affirmative and interrogative - "Will" type as well as the derivation of the past participle and a variant of the future participle. From VH the following derivations are discussed: energetic imperative, negative imperative, interrogative future - Q type, negative future, the present tense with its different modes: affirmative, interrogative, negative and negative-interrogative, as well as the present and future participles.

The derivations referred to above are all achieved by using V and VH. Moreover, SV, MV or MSV can generate most of the structures that a V does and SVH, MVH or MSVH can generate most of the structures that a VH does. Fewer structures are generated from the passive stem TuV and its habitual TuVH.

#### VI.4.7.2 Derivation of Imperative Structures

Tamazight has different imperative structures that will be referred to as 2-a, 2-b and 1-a, 1-b, 1-c. Structures 2-a and 2-b are second person imperatives where 2-b is the negative imperative. 1-a, 1-b and 1-c are hortatory or cohortative constructions expressing an exhortation or suggestion for first person. The negative imperative and the energetic imperative are derived from VH. The other imperative structures are derived from V. /-PNG/<sup>\*</sup> of the imperatives are all suffixes (see Tables 1 and 2).

Imperative 2-a is derived simply by affixation of /-PNG/ (suffixes) shown in Table 1 to either V to derive second person imperative or to VH to derive the energetic imperative which for /*rum*/ 'swim' may be translated as either 'get in the habit of swimming' or 'do swim'. Imperative 2-b is derived by prefixation of the negative imperative derivational prefix /*adur-*/ to VH and the realization of imperative /-PNG<sub>2</sub>/ suffixes referred to above. Imperative 1-a is derived by the suffixation of /-PNG<sub>1</sub>/ set shown in Table 2. Imperatives 1-b and 1-c differ from 1-a both in meaning and in structure. All the three structures mean 'let us...', except that 1-b and 1-c have the added feature [+movement]. The difference

\* This study refers to the suffixed PNG of the imperative as /-PNG/ or /-PNG<sub>1</sub>/ where /-PNG<sub>2</sub>/ means second person suffixes and /-PNG<sub>1</sub>/ is hortatory suffixes. It will also refer to the affixed PNG of the different tenses as /-PNG-/.

in structure lies in the fact that /-PNG<sub>1</sub>/ are added to the V to derive 1-a, whereas in deriving 1-b they are added to the V /k:r/ 'get up' and in 1-c /-PNG<sub>1</sub>/ are added to /yal:ah/ a particle meaning 'let us'.

$$\left\{ \begin{array}{l} /k:r/ + /-PNG_1/ \\ /yal:ah/ + /-PNG_1/ \end{array} \right\} \text{ are both followed by the}$$

desired V + /-PNG-/ + future prefix /ad-/: e.g. /ɣum-aɣ / 'let us (both) swim', /k:r-a ad-n-ɣum/ 'let us (both) go and swim' [ /ad-n-ɣum/ (DS) → /an-ɣum/ (SS)]. Another structural difference is that 1-a does not distinguish between G<sub>m</sub> and G<sub>f</sub> in P<sub>d</sub> whereas 1-b and 1-c do.

Imperative structures with the movable affixes /-d-/ of proximity, /-n:-/ of remoteness and the pronominal affixes occur with the affix post-Imperative<sub>[-Negative]</sub> and in the order: Imper<sub>[-Negative]</sub><sup>+</sup> (I.Obj.) + (D.Obj.) + (orientational affix) or pre-Imperative<sub>[+Negative]</sub> and in the order: Neg, Imper. Prefix + (I.Obj.) + (D.Obj.) + (orientational affix) + Imperative.

Causative and Reciprocal Imperatives are derived in the same way the imperatives of a V and its VH are derived; Causative and reciprocal imperative structures with the movable affixes are also derived in the same way referred to in the previous paragraph. Not all imperative constructions with the movable affixes occur with the derived verb stems (Caus. and Recip.).

Rules for the Generation of the Different ImperativeStructures (from V and VH)

Imper-DSR <sub>1</sub>	Imperative $\longrightarrow$ V + /-PNG <sub>2</sub> /
Imper-DSR <sub>2</sub>	Energetic Imper. $\longrightarrow$ VH + /-PNG <sub>2</sub> /
Imper-DSR <sub>3</sub>	Negative Imper. $\rightarrow$ /adur-/ + VH + /-PNG <sub>2</sub> /
Imper-DSR <sub>4</sub>	Hortatory $\longrightarrow$ V + /-PNG <sub>1</sub> /
Imper-DSR <sub>5</sub>	Hortatory <sub>[+Movement]</sub> $\longrightarrow$ $\left\{ \begin{array}{l} /k:r/ \\ /yal:ah/ \end{array} \right\} + /-PNG_1/ + /ad-/ + /-P_1N_p-/ + V$
Imper-DSR <sub>6</sub>	Movable Affix $\longrightarrow$ $\left\{ \begin{array}{l} V + /-PNG_2/ + (I.Obj.) + (D.Obj.) + (Orient.Aff.) \\ /adur-/ + (I.Obj.) + (D.Obj.) + (Orient.Aff.) + \\ VH + /-PNG_2/ \end{array} \right\}$

Note on Imper-DSR<sub>6</sub>: This rule states the position of the movable affixes in relation to the imperative. (This is true of all rules concerning Movable Affixes in the following sections.)

Examples of Imperative structures generated by the above rules are shown in Tables 7-13 in their (SS) form.

	2-a		2-b
PNG	Imperative	Energetic Imperative	Negative Imperative
2smf	ɣum	t:ɣum	adurt:ɣum
2pm	ɣumat	t:ɣumat	adurt:ɣumat
2pf	ɣumnt	t:ɣumnt	adurt:ɣumnt

TABLE 7 - Imperatives 2-a and 2-b of /ɣum/ (SS)

	Hortatory	Hortatory [+Movement]	
PNG	1-a	1-b	1-c
1dm	ɣumay	k:ray anɣum	yal:ahay anɣum
1df	ɣumay	k:ram anɣum	yal:aham anɣum
1pm	ɣumataɣ	k:ratay anɣum	yal:ahataɣ anɣum
1pf	ɣumntay	k:rntay anɣum	yal:ahntay anɣum

TABLE 8 - Imperatives 1-a, 1-b, and 1-c of /ɣum/ (SS)

	2-a		2-b
PNG	Imperative	Energetic Imperative	Negative Imperative
2smf	awid	t:awid	adurt:awy
2pm	awyad:	t:awyad:	adurt:awyat
2pf	awind:	t:awind:	adurdt:awint

TABLE 9 - Imperatives 2-a and 2-b /awy/ in combination with the proximity affix /-d-/ (SS)

	2-a		2-b
PNG	Imperative	Energetic Imperative	Negative Imperative
2smf	sḥudr	sḥudur	adursḥudur
2pm	sḥudrat	sḥudurat	adursḥudurat
2pf	sḥudrnt	sḥudurnt	adursḥudurnt

TABLE 10 - Imperatives 2-a and 2-b of /sḥudr/, causative of /ḥudr/ (SS)

	Hortatory	Hortatory [+Movement]	
PNG	1-a	1-b	1-c
ldm	sḥudray	k:ray ansḥudr	yaḷ:ahay ansḥudr
ldf	sḥudray	k:ram ansḥudr	yaḷ:aham ansḥudr
lpm	sḥudratay	k:ratay ansḥudr	yaḷ:ahatay ansḥudr
lpf	sḥudrntay	k:rntay ansḥudr	yaḷ:ahntay ansḥudr

TABLE 11 - Imperatives 1-a, 1-b, 1-c of /sḥudr/, causative of /ḥudr/ (SS)

	2-a		2-b
PNG	Imperative	Energetic Imperative	Negative Imperative
2smf	ṃawān	t:ṃawān	adurt:ṃawān
2pm	ṃawānat	t:ṃawānat	adurt:ṃawānat
2pf	ṃawāannt	t:ṃawāannt	adurt:ṃawāannt

TABLE 12 - Imperatives 2-a and 2-b of /ṃawān/, reciprocal of /awān/ (SS)

	Hortatory	Hortatory [+Movement]	
PNG	l-a	l-b	l-c
ldm	m <sup>ɛ</sup> awanay	k:ray anm <sup>ɛ</sup> awan	ya.l:ahay anm <sup>ɛ</sup> awan
ldf	m <sup>ɛ</sup> awanay	k:ram anm <sup>ɛ</sup> awan	ya.l:aham anm <sup>ɛ</sup> awan
lpm	m <sup>ɛ</sup> awanatay	k:ratay anm <sup>ɛ</sup> awan	ya.l:ahatay anm <sup>ɛ</sup> awan
lpf	m <sup>ɛ</sup> awanntay	k:rntay anm <sup>ɛ</sup> awan	ya.l:ahntay anm <sup>ɛ</sup> awan

TABLE 13 - Imperatives l-a, l-b, l-c of /m<sup>ɛ</sup>awan/, reciprocal of /<sup>ɛ</sup>awn/ (SS)

#### VI.4.7.3 Derivation of the Past Tense and Its Different Modes

The past tense is derived from V by the realization of /-PNG-/ shown in Table 3. As stated before, /-PNG-/affixes are the same no matter what the temporal (past, present, future) structure is. Its different modes are derived by the modal prefixes discussed in VI.2.2 above. The realization of /-PNG-/ in the past effects a change in the verb stem of certain classes. This was discussed in VI.3 and was referred to as ablaut (Abl) and to the stems as ablauted stems.

#### Rules for the Derivation of the Different Modes of the

##### Past Tense: (from V)

Past-DSR<sub>1</sub>

Affirm. Past → V + /-PNG-/ + (Abl)

Past-DSR<sub>2</sub>

Interrog. Past → /is-/ + Affirm. Past

Past-DSR <sub>3</sub>	Neg. Past → /ur-/ + V + /-PNG-/ + (Abl)
Past-DSR <sub>4</sub>	Neg-Interrog. Past → /is-/ + Neg. Past
Past-DSR <sub>5</sub>	Movable Affix →
	$\left\{ \begin{array}{l} \text{Post-Verbal / Affirm. Past} \underline{\quad} \\ \text{Pre-Verbal / } \underline{\quad} \text{Non-Affirm. Past} \end{array} \right\}$

Examples of the products of the above rules are shown in Tables 14-17. All forms have as subject /-P<sub>3</sub>N<sub>S</sub>G<sub>m</sub>-/ (prefix /i-/). Blank boxes indicate that the form does not occur.

#### Examples of Past Tense Structures

	Past	Past, Prox. Affix	Past, I.Obj., Prox. Affix
Affirm.	iɔawn	iɔawnd	iɔawnasd
Interr.	isiɔawn	isdiɔawn	isasdiɔawn
Neg.	uriɔawn	urdiɔawn	urasdiɔawn
Neg-Int.	isuriɔawn	isurdiɔawn	isurasdiɔawn

TABLE 14 - Structures generated from V /ɔawn/ in the past (SS)

	Past	Past, Prox. Affix	Past, I.Obj. Prox. Affix
Affirm.	isɛawn	isɛawnd	isɛawnasd
Interr.	isisɛawn	isdsɛawn	isasdisɛawn
Neg.	urisɛawn	urdsɛawn	urasdisɛawn
Neg.Int.	isurisɛawn	isurdsɛawn	isurasdisɛawn

TABLE 15 - Structures generated from /sɛawn/, Causative of /ɛawn/ in the past (SS)

	Past	Past, Prox. Affix	Past, I.Obj., Prox. Affix
Affirm.	imɛawan	imɛawand	
Interr.	isimɛawan	isdmɛawan	
Neg.	urimɛawan	urdimɛawan	
Neg.Int.	isurimɛawan	isurdimɛawan	

TABLE 16 - Structures generated from /mɛawan/, Reciprocal of /ɛawn/ in the past (SS)

	Past	Past, Prox. Affix.	Past, I.Obj., Prox. Affix
Affirm.	it:uɛawn	it:uɛawnd	it:uɛawnasd
Interr.	isit:uɛawn	isdit:uɛawn	isasdit:uɛawn
Neg.	urit:uɛawn	urdit:uɛawn	urasdit:uɛawn
Neg.Int.	isurit:uɛawn	isurdit:uɛawn	isurasdit:uɛawn

TABLE 17 - Structures generated from /t:uɛawn/, Passive of /ɛawn/ in the past (SS)

VI.4.7.4 Derivation of the Future Tense and Its Different Modes

The structures generated for the future tense are:  
affirmative future, interrogative future (Will type),  
negative future and interrogative future (Q type).

Rules for the Generation of the Different Future Modes(from V and VH)

Fut-DSR <sub>1</sub>	Affirm-Fut → /ad-/ + V + /-PNG-/
Fut-DSR <sub>2</sub>	Interr-Fut <sub>will</sub> → /id:-/ + Affirmative Future
Fut-DSR <sub>3</sub>	Negative Fut → /ur-/ + VH + /-PNG-/
Fut-DSR <sub>4</sub>	Interr. Fut <sub>Q</sub> → QW + VH + /-PNG-/
Fut-DSR <sub>5</sub>	Movable Affixes → Pre-Verbal

Most of the above-mentioned structures may be derived for the causative, reciprocal, recipro-causative and passive where SV, MV, MSV, and TuV are used in place of V; and SVH, MVH, MSVH, and TuVH are used in place of VH.

Examples of the results of the above rules are shown in Tables 18-21. All forms are generated with  $-P_3N_SG_m-$  (Prefix /-i/). Blank boxes indicate that the form does not occur.

	Future	Future, Prox. Affix	Future, I.Obj., Prox. Affix
Affirm.	adisawn	ad:isawn	adasdisawn
Interr.	id:adisawn	id:ad:isawn	id:adasdisawn
Neg.	urit:sawan	urit:sawan	urasdit:sawan
Neg.Int.	milmi yt:sawan	milmi dit:sawan	milmi asdit:sawan

TABLE 18 - Structures generated from V /sawn/ and its  
VH /t:sawan/ in the future - (SS)

	Future	Future, Prox. Affix	Future, I.Obj., Prox. Affix
Affirm.	adisawn	ad:isawn	adasdisawn
Interr.	id:adisawn	id:ad:isawn	id:adasdisawn
Neg.	urissawan	urdisawan	urasdisawan
Neg.Int.	milmi yssawan	milmi disawan	milmi asdisawan

TABLE 19 - Structures generated from the causatives  
a) /sawn/ and b) /sawan/ in the future - (SS)

	Future	Future, Prox. Affix	Future, I.Obj., Prox. Affix
Affirm.	adimsawan	ad:imsawan	
Interr.	id:adimsawan	id:ad:imsawan	
Neg.	urit:msawan	urdimswan	
Neg. Int.	milmi yt:msawan	milmi dit:msawan	

TABLE 20 - Structures generated from the reciprocals  
a) /msawan/ and b) /t:msawan/ in the future - (SS)

	Future	Future, Prox. Affix	Future, I.Obj., Prox. Affix
Affirm.	adit:uɣawn		adasdit:uɣawn
Interr.	id:adit:uɣawn		id:adasdit:uɣawn
Neg.	urit:uɣawan		urasdit:uɣawan
Neg.Int.	milmi it:uɣawan		milmi asdit:uɣawan

TABLE 21 - Structures generated from the passives  
a) /t:uɣawn/ and b) /t:uɣawan/ in the future - (SS)

#### VI.4.7.5 Derivation of the Present Tense and Its Different Modes

The present tense with its different modes is derived from VH (or SVH, MVH, MSVH, TuVH).

#### Rules for the Generation of the Present Tense (from VH)

Pres-DSR <sub>1</sub>	Affirm. Pres. → $\left\{ \begin{array}{l} \text{da-} \\ \text{l:a-} \end{array} \right\} + \text{VH} + /-\text{PNG-}/$
Pres-DSR <sub>2</sub>	Interrog. Pres. → /is-/ + Affirm. Pres.
Pres-DSR <sub>3</sub>	Neg. Pres. → /ur-/ + Affirm. Pres.
Pres-DSR <sub>4</sub>	Neg-Interrog. Pres. → /is-/ + Neg. Pres.
Pres-DSR <sub>5</sub>	Movable Affix → Pre-Verbal

Examples of present tense structures generated by the above rules are shown in Tables 22-25. All forms are generated with  $-P_3N_sG_m-$  (prefix /i-/). Blank boxes indicate the form does not occur.

	Present	Pres., Prox. Affix	Pres., I.Obj., Prox. Affix
Affirm.	dayt:ɣawan	dadit:ɣawan	dasdit:ɣawan
Interrog.	isdayt:ɣawan	isdadit:ɣawan	isdasdit:ɣawn
Neg.	urdayt:ɣawan	urdadit:ɣawan	urdasdit:ɣawan
Neg. Int.	isurdayt:ɣawan	isurdadit:ɣawan	isurdadit:ɣawan

TABLE 22 - Structures generated from /t:ɣawan/, VH of /ɣawn/  
in the present (SS)

	Present	Pres., Prox. Affix	Pres., I.Obj., Prox. Affix
Affirm.	daysɣawan	dadisɣawan	dasdisɣawan
Interrog.	isdaysɣawan	isdadisɣawan	isdasdisɣawan
Neg.	urdaysɣawan	urdadisɣawan	urdasdisɣawan
Neg. Int.	isurdaysɣawan	isurdadisɣawan	isurdasdisɣawan

TABLE 23 - Structures generated from /s:ɣawan/, SVH of /ɣawn/  
in the present (SS)

	Present	Pres., Prox. Affix	Pres., I.Obj., Prox. Affix
Affirm.	dayt:mɣawan	dadit:mɣawan	
Interrog.	isdayt:mɣawan	isdadit:mɣawan	
Neg.	urdayt:mɣawan	urdadit:mɣawan	
Neg. Int.	isurdayt:mɣawan	isurdadit:mɣawan	

TABLE 24 - Structures generated from /t:mɣawan/, MVH of /ɣawn/  
in the present (SS)

	Present	Pres., Prox. Affix	Pres., I. Obj., Prox. Affix
Affirm.	dayt:uɣawan		dasdit:uɣawan
Interrog.	isdayt:uɣawan		isdasdit:uɣawan
Neg.	urdayt:uɣawan		urdasdit:uɣawan
Neg. Int.	isurdayt:uɣawan		isurdasdit:uɣawan

TABLE 25 - Structures generated from /t:uɣawan/, TuVH of /ɣawn/ in the present (SS)

#### VI.4.7.6 Derivation of the Aorist

The aorist is a dependent tense that does not occur as sentence initial. It is formed from V (SV or MV) simply by the realization of /-PNG-/.

#### Rules for the Generation of the Aorist (from V):

Aor-DSR<sub>1</sub>                      Aorist → V + /-PNG-/

Aor-DSR<sub>2</sub>                      Movable Affixes → Post-Verbal

Aorist forms are identical with past tense forms of unablauted stems but differ from those of the ablauted stems by the ablaut.

Aorists generated by the above rules are shown in Table 26 for SS forms. All forms are generated with -P<sub>3</sub>N<sub>s</sub>G<sub>m</sub>- (prefix /i-/).

	Aorist	Aorist, Prox. Affix	Aorist, I.Obj., Prox. Aff.
V	iɣawn	iɣawnd	iɣawnasd
SV	issawn	issawnd	issawnasd
MV	imsawan	imsawand	

TABLE 26 - Aorists of /ɣawn/, its SV and MV (SS)

VI.4.7.7 Derivation of the Participles

This section discusses the derivation of past, present, and future participles both affirmative and negative.

The past participle is formed by suffixation of the participle suffix /-n/ to a derived past in  $-P_3N_sG_m-$ . Prefixation of /ur-/ gives the negative participle. Either of these two participles is used with subjects of any number or gender. A plural past participle formed by suffixation of /-in/ to past in  $-P_3N_pG_m-$  is used only with plural (m, f) subjects.

The present participle is formed by suffixation of the participle suffix /-n/ to a derived present structure in  $-P_3N_sG_m-$ . Prefixation of /ur-/ gives its negative participle.

The future participle is derived by suffixation of the participle suffix /-n/ to a VH after the realization of  $-P_3N_sG_m-$ . Prefixation of /ur-/ gives its negative participle. A variant affirmative future participle (which has no negative) may be derived by suffixation of the

participle suffix /-n/ to a derived aorist in  $-P_3N_sG_m^-$ .

### Rules for the Generation of the Participles

- Part-DSR<sub>1</sub> (Neg) Past Part.  $\longrightarrow$  (/ur-/) + Past $[-P_3N_sG_m^-]$  + /-n/
- Part-DSR<sub>2</sub> Plural Past Part.  $\longrightarrow$  Past $[-P_3N_pG_m^-]$  + /-n/
- Part-DSR<sub>3</sub> (Neg) Fut. Part.  $\longrightarrow$  (/ur-/) + Pres $[-P_3N_sG_m^-]$  + /-n/
- Part-DSR<sub>4</sub> (Neg) Fut. Part.  $\longrightarrow$  (/ur-/) + VH $[-P_3N_sG_m^-]$  + /-n/
- Part-DSR<sub>5</sub> Variant Fut. Part.  $\longrightarrow$  Aor $[-P_3N_sG_m^-]$  + /-n/
- Part-DSR<sub>6</sub> Movable Affix  $\longrightarrow$  Pre-Participle

Participles derived by the above rules for the V 25 / $\text{awn}$ / are shown in Tables 27-29 for SS forms.

All participles occur in structures using the relative pronouns /n:a/ 'who, that' or /a $\gamma$ ra/ 'who will, that will': e.g., /n:a y $\text{awn}$ :/ means 'who helped', /n:a dayt: $\text{awn}$ :/ means 'who is helping' and /a $\gamma$ ra yt: $\text{awn}$ :/ means 'who will help'.

	Past. Partic.	Past Part., Prox. Affix	Past Part., I.Obj., Prox. Affix
Affirm.	i $\text{awn}$ :	di $\text{awn}$ :	asdi $\text{awn}$ :
Neg.	uri $\text{awn}$ :	urdi $\text{awn}$ :	urasdi $\text{awn}$ :
Plural	$\text{awn}$ :in	d $\text{awn}$ :in	asd $\text{awn}$ :in

TABLE 27 - Past Participles of / $\text{awn}$ / (SS)

	Pres.Part.	Pres.Part., Prox. Affix	Pres.Part.,I.Obj., Prox. Affix
Affirm	dayt:ɣawan:	dadit:ɣawan:	dasdit:ɣawan:
Neg.	urdayt:ɣawan:	urdadit:ɣawan:	urdasdit:ɣawan:

TABLE 28 - Present Participles of /t:ɣawan/, VH of /ɣawn/ (SS)

	Fut. Part.	Fut. Part., Prox. Affix	Fut.Part.,I.Obj., Prox. Affix
Affirm.	it:ɣawan:	dit:ɣawan:	asdi :ɣawan:
Neg.	urit:ɣawan:	urdit:ɣawan:	urasdit:ɣawan:
Variant Form	iɣawn:	diɣawn:	asdiɣawn:

TABLE 29 - Future Participles of /t:ɣawan/ (SS) /ɣawn/ and its VH

VI.4.7.8 Summary of DSR's for Temporal, Modal and Participle Derivations (T/M-P) <sup>11</sup>

T/M-P-DSR<sub>1</sub> Imperative →  $\left\{ \begin{array}{c} V \\ SV \\ MV \\ MSV \end{array} \right\} + /-PNG_2/$

T/M-P-DSR<sub>2</sub> Energetic Imperative →  $\left\{ \begin{array}{c} VH \\ SVH \\ MVH \\ MSVH \end{array} \right\} + /-PNG_2/$

T/M-P-DSR<sub>3</sub> Neg. Imper. → /adur-/ +  $\left\{ \begin{array}{c} VH \\ SVH \\ MVH \\ MSVH \end{array} \right\} + /-PNG_2/$

T/M-P-DSR<sub>4</sub> Hortatory →  $\left\{ \begin{array}{c} V \\ SV \\ MV \\ MSV \end{array} \right\} + /-PNG_1/$

T/M-P-DSR<sub>5</sub> Hortatory  $\xrightarrow{[+Movement]}$   
 $\left\{ \begin{array}{c} /k:r/ \\ /ya\dot{1}:ah/ \end{array} \right\} + /-PNG_1/ + /ad-/ + /-P_1N_p-/ + \left\{ \begin{array}{c} V \\ SV \\ MV \\ MSV \end{array} \right\}$

T/M-P-DSR <sub>6</sub>	Affirm. Past → $\left. \begin{array}{c} V \\ SV \\ MV \\ MSV \\ TuV \end{array} \right\}$ + /-PNG-/ + (Abl)
T/M-P-DSR <sub>7</sub>	Interrog. Past → /is-/ + Affirm. Past
T/M-P-DSR <sub>8</sub>	Neg. Past → /ur-/ + $\left. \begin{array}{c} V \\ SV \\ MV \\ MSV \\ TuV \end{array} \right\}$ + /-PNG-/ + (Abl)
T/M-P-DSR <sub>9</sub>	Neg-Interrog. Past → /is-/ + Neg. Past
T/M-P-DSR <sub>10</sub>	Affirm. Fut. → /ad-/ + $\left. \begin{array}{c} V \\ SV \\ MV \\ MSV \\ TuV \end{array} \right\}$ + /-PNG-/
T/M-P-DSR <sub>11</sub>	Interrog. Fut. <sup>"will"</sup> → /id:-/ + Affirm. Fut.
T/M-P-DSR <sub>12</sub>	Neg. Fut. → /ur-/ + $\left. \begin{array}{c} VH \\ SVH \\ MVH \\ MSVH \\ TuVH \end{array} \right\}$ + /-PNG-/

- T/M-P-DSR<sub>13</sub> Interrog. Fut. "Q" → Qw +  $\left. \begin{array}{c} \text{VH} \\ \text{SVH} \\ \text{MVH} \\ \text{MSVH} \\ \text{TuVH} \end{array} \right\}$  + /-PNG-/  
 T/M-P-DSR<sub>14</sub> Affirm. Pres. →  $\left\{ \begin{array}{l} /da-/ \\ /l:a-/ \end{array} \right\}$  +  $\left. \begin{array}{c} \text{VH} \\ \text{SVH} \\ \text{MVH} \\ \text{MSVH} \\ \text{TuVH} \end{array} \right\}$  + /-PNG-/  
 T/M-P-DSR<sub>15</sub> Interrog. Pres. → /is-/ + Affirm. Pres.  
 T/M-P-DSR<sub>16</sub> Neg. Present → /ur-/ + Affirm. Pres.  
 T/M-P-DSR<sub>17</sub> Neg-Interr. Pres. → /is-/ + /ur-/ + Affirm. Pres.  
 T/M-P-DSR<sub>18</sub> Aorist →  $\left. \begin{array}{c} \text{V} \\ \text{SV} \\ \text{MV} \\ \text{MSV} \end{array} \right\}$  + /-PNG-/  
 T/M-P-DSR<sub>19</sub> Past Part. →  $\left\{ \begin{array}{l} (/ur-/) + \text{Past}_{[-P_3 N_s G_m^-]} \dagger /-n/ \\ \text{Past}_{[-P N G^-]} \dagger /-in/ \text{ Plural} \end{array} \right\}$   
 T/M-P-DSR<sub>20</sub> Present Part. → (/ur-/) + Pres<sub>[-P\_3 N\_s G\_m^-]</sub> + /-n/

T/M-P-DSR<sub>21</sub>

Fut. Part. → { (/ur-/) + SVH<sub>[P<sub>3</sub>N<sub>s</sub>G<sub>m</sub>-]</sub> + /-n/ }  
 { Aor<sub>[-P<sub>3</sub>N<sub>s</sub>G<sub>m</sub>-]</sub> + /-n/ Affirm. }

T/M-P-DSR<sub>22</sub>

Movable Affix → { Post-Verbal / [-Temporal,  
 Modal prefix  
 or preposition] }  
 { Pre-Verbal / [+Temp/Mod pref.  
 or prep.] }  
 { Pre-Participle }

## VI.5 Morphophonemic Sketch

## VI.5.1 Introduction

The morphophonemic changes which occur in the dialect under consideration, mainly in verb derivations, may be divided into six classes: voicing assimilation, reduction, hiatus, and change of vowel to glide: (V  $\longrightarrow$  G).

This section states the morphophonemic changes in phonemic symbols\* (in VI.5.2) and then (in VI.5.3) gives examples of these changes using verbs from the Verb List and the end of this chapter. Phonemic symbols are written between slashes / /; hyphen /-/ represents morpheme boundary; /#/ word boundary.

VI.5.2 General Rules of Tamazight Verb Morphophonemics<sup>12</sup>

The following rules apply to /-PNG-/ inflection and combination of verb with temporal and modal prefixes. These rules are referred to as General Surface Structure Rules (Gen-SSR's) since they affect the shape of any verbal derivation in contexts specified in the examples given in VI.5.3.

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\* For a more elaborate description of verb morphophonemics see Abdel-Massih, Ernest, Tamazight Verb Structure: A Generative Approach, Indiana University Press: Bloomington, Indiana, 1971.

	Sequence	Voicing Assimilation	Flatness Assimilation	Articulatory Assimilation	Reduction
Gen-SSR <sub>1</sub>	/t-d/	→ dd	→ dd	→ dd	→ d:
Gen-SSR <sub>2</sub>	/t-ḡ/	→ dḡ	→ dḡ	→ dḡ	→ ḡ:
Gen-SSR <sub>3</sub>	/d-t/	→ tt	→ tt	→ tt	→ t:
Gen-SSR <sub>4</sub>	/ḡ-t/	→ tḡ	→ tḡ	→ tḡ	→ tḡ:
Gen-SSR <sub>5</sub>	/ḡ-t:/	→ tḡ:	→ tḡ:	→ tḡ:	→ tḡ:
Gen-SSR <sub>6</sub>	/ḡ-d/	→ dḡ	→ dḡ	→ dḡ	→ ḡ:
Gen-SSR <sub>7</sub>	/t-t:/	→ tt:	→ tt:	→ tt:	→ t:
Gen-SSR <sub>8</sub>	/t:-t/	→ t:	→ t:	→ t:	→ t:
Gen-SSR <sub>9</sub>	/t-t/	→ tt	→ tt	→ tt	→ t:
Gen-SSR <sub>10</sub>	/d-d/	→ dd	→ dd	→ dd	→ d:
Gen-SSR <sub>11</sub>	/t-ṭ/	→ ṭṭ	→ ṭṭ	→ ṭṭ	→ ṭ:
Gen-SSR <sub>12</sub>	/ɣ-t/	→ xt	→ xt	→ xt	
Gen-SSR <sub>13</sub>	/ɣ-ɣ/	→ qq	→ qq	→ qq	→ q:
Gen-SSR <sub>14</sub>	{ /n-n#/ } { /n-n-v-/ }	→	→	→	{ n:# } { n:v- }
Gen-SSR <sub>15</sub>	/m-m#/	→ mm	→ mm	→ mm	→ m:
Gen-SSR <sub>16</sub>	/r-r/	→ rr	→ rr	→ rr	→ r:
Gen-SSR <sub>17</sub>	/r-n#/	→ nn	→ nn	→ nn	→ r:
Gen-SSR <sub>18</sub>	/l-n#/	→ ll	→ ll	→ ll	→ l:
Gen-SSR <sub>19</sub>	/n-m#/	→ mm	→ mm	→ mm	→ m:
Gen-SSR <sub>20</sub>	/d-š/	→ kk	→ kk	→ kk	→ k:
Gen-SSR <sub>21</sub>	/d-k/	→ ḳḳ	→ ḳḳ	→ ḳḳ	→ ḳ:
Gen-SSR <sub>22</sub>	/d-n/	→ n	→ n	→ n	
Gen-SSR <sub>23</sub>	/s-s/	→ ss	→ ss	→ ss	→ s:
Gen-SSR <sub>24</sub>	/s-š/	→ šš	→ šš	→ šš	→ š:

	Sequence	Voicing Assimilation	Flatness Assimilation	Articulatory Assimilation	Reduction
Gen-SSR <sub>25</sub>	/s-ž/	→ zž	→ žž	→ ž:	
Gen-SSR <sub>26</sub>	/s-š/	→ šš	→ š:		
Gen-SSR <sub>27</sub>	/s-z/	→ zz	→ z:		
Gen-SSR <sub>28</sub>	/s-ẓ/	→ zẓ	→ ẓẓ	→ ẓ:	
Gen-SSR <sub>29</sub>	/s-d/	→ zd			
Gen-SSR <sub>30</sub>	/z-t/	→ st			
Gen-SSR <sub>31</sub>	/ẓ-t/	→ ṣt	→ ṣṭ		
Gen-SSR <sub>32</sub>	/t-z/	→ dz			
Gen-SSR <sub>33</sub>	/ṭ-ž/	→ ḍž			

	Sequence	Hiatus	V→G	Reduction
Gen-SSR <sub>34</sub>	/i-i/	→ iyi		
Gen-SSR <sub>35</sub>	/i-a/	→ iya		
Gen-SSR <sub>36</sub>	/u-a/	→ uya		
Gen-SSR <sub>37</sub>	/u-i/	→ uyi		
Gen-SSR <sub>38</sub>	/u-u/	→ uyu		
Gen-SSR <sub>39</sub>	/a/a/	→ a		
Gen-SSR <sub>40</sub>	/#i-i/	→ yi		
Gen-SSR <sub>41</sub>	/#i-a/	→ ya		
Gen-SSR <sub>42</sub>	/#i-u/	→ yu		
Gen-SSR <sub>43</sub>	/-i-i-/	→ iy		
Gen-SSR <sub>44</sub>	/-a-i/	→ ay		

VI.5.3 ExamplesRule 1

129	/t-db:r-d/*	→	/d:b:rd/	'you (s) managed'
129	/t-db:r/	→	/d:b:r/	'she managed'
251	/t-šm:t-d/	→	/tšm:d:/	'you (s) cheated'
251	/i-šm:t-d/	→	/išm:d:/	'he cheated'

Rule 2

138	/t-ḡr:ʕ/	→	/ḡ:r:ʕ/	'she screamed'
136	/t-ḡl:ʕ-d/	→	/ḡ:l:ʕd/	'you (s) flattened bread'

Rule 3

251	/ad-t-šm:t/	→	/at:šm:t/	'she will cheat'
251	/ad-t-šm:t-nt/	→	/at:šm:tnt/	'you (fp) will cheat'

Rule 4

300	/i-ʕrḡ-t/	→	/iʕrt:/	'he invited him'
-----	-----------	---	---------	------------------

Rule 5

300	/i-ʕrḡ-t:/	→	/iʕrt:/	'he invited her'
-----	------------	---	---------	------------------

Rule 6

238	/t-šfḡ-d/	→	/tsfḡ:/	'you (s) wiped'
197	/i-nšḡ-d/	→	/insḡ:/	'he blew his nose' ( + prox.)

\*

A numeral preceding an example refers to the number of the simple verb stem in the Verb List from which the form is derived (see Verb List, pp. 262-282).

Rule 7

- 46 /da-t-t:ʕum-d/ → /dat:ʕumd/ 'you (s) swim'  
 113 /da-t-t:ʕawan/ → /dat:ʕawan/ 'she helps'

Rule 8

- 88 /da-t:-t-t:sɑʕad/ → /dat:t:sɑʕad/ 'she helps her'

Rule 9

- 378 /da-t-t-ks:a-d/ → /dat:ks:ad/ 'you tend it (m)'

Rule 10

- 88 /i-sɑʕd-d/ → /isaʕd:/ 'he helped' (+ proximity)  
 113 /ad-d-ʕawn-γ/ → /ad:ʕawnγ/ 'I'll help' (+ proximity)

Rule 11

- 261 /t-tfʕ/ → /t:ʕ/ 'she folded'  
 262 /t-trʕ-d/ → /t:ʕd/ 'you (s) embroidered'

Rule 12

- 104 /zayd-γ-t/ → /zaydxt/ 'I added it'

Rule 13

- 341 /f:γ-γ/ → /f:q:/ 'I went out'  
 157 /da-t:fr:ɑγ-γ/ → /dat:fr:ɑq:/ 'I am pouring'

Rule 14

- 113 /ʕawn-n/ → /ʕawn:/ 'they (m) helped'  
 113 /ʕawn-nt/ → /ʕawnnt/ 'they (f) helped'  
 113 /ʕawn-n-in/ → /ʕawn:in/ plural participle of /ʕawn/

Rule 15

- 311 /t-ɣr̥:m-m/ → /tɣr̥:m:/ 'you (mp) indemnified'  
 311 /t-ɣr̥:m-m-t/ → /tɣr̥:mmt/ 'you (mp) indemnified'

Rule 16

- 450 /ur-riɣ/ → /ur:iɣ/ 'I do not want'

Rule 17

- 296 /ʕm:r̥-n/ → /ʕm:r̥:/ 'they (m) filled'  
 296 /ʕm:r̥-nt/ → /ʕm:r̥nt/ 'they (f) filled'

Rule 18

- 63 /slil-n/ → /slil:/ 'they (m) rinsed'  
 63 /slil-nt/ → /slilnt/ 'they (f) rinsed'

Rule 19

- 375 /ad-t-gn-m/ → /at:gm:/ 'you (mp) will sleep'  
 279 /t-xzn-m-t/ → /txznmt/ 'you (mp) stored it'

Rule 20

37 /ad-š-i-sal/ → /ak:isal/ 'he will ask you (ms)'

Rule 21

37 /ad-kn-i-sal/ → /ak:nisal/ 'he will ask you (mp)'

Rule 22

37 /ad-n-sal/ → /ansal/ 'we will ask'

200 /ad-n-ntl/ → /anntl/ 'we will hide'

200 /ad-ntl-γ/ → /adntlγ/ 'I will hide'

Rule 23

62 /sdid/ 'be thin' : SV /s-sdid/ → /s:did/

232 /is-sl:m-n/ → /is:l:mn/ 'did they (m) greet?'

Rule 24

65 /šmid/ 'be cold' : SV /s-šmid/ → /š:mid/

245 /is-šy:f-n/ → /iš:y:fn/ 'did they harvest the summer crops?'

Rule 25

438 /žru/ 'happen' : SV /s-žru/ → /ž:ru/

289 /is-žbr-n/ → /iž:br:/ 'did they (m) come back?'

Rule 26

- 428 /šdu/ 'smell' : SV /s-šdu/ → /š:du/  
 18 /is-šk:a-n/ → /iš:k:an/ 'did they (m) doubt?'

Rule 27

- 436 /zwu/ 'dry' : SV /s-zwu/ → /z:wu/  
 103 /is-zawg:-n/ → /iz:awg:n/ 'did they (m) ask protection?'

Rule 28

- 106 /is-zawd-n/ → /iz:awdn/ 'did they (m) throw away?'

Rule 29

- 132 /is-dlš-n/ → /izdlšn/ 'did they (m) massage?'  
 113 /is-d-i-ɿawn/ → /izdiɿawn/ 'did he help?' (+ prox.)  
 113 /is-da-t:ɿawan-n/ → /izdat:ɿawan:/ 'are they (m) helping?'

Rule 30

- 79 /i-ħarz-t/ → /iħarst/ 'he forbade him'

Rule 31

- 325 /i-amz-t/ → /yumst/ 'he took it (m)'

Rule 32

- 280 /t-zdm-d/ → /dzdmd/ 'you (s) collected wood'

Rule 33

289 /t-žbr-d/ → /džbrd/ 'you (s) came back'

Rules 34- 39

/i-i/ 449 /ini-i/ → /iniyi/ 'tell me'

/i-a/ 449 /ini-as/ → /iniyas/ 'tell him'

/u-a/ 402 /d:u-at/ → /d:uyat/ 'go (mp)'

/u-i/ 431 /šru-i/ → /šruyi/ 'rent (for) me'

/u-u/ 364 /it:u-us:a/ → /it:uyus:a/ 'it was tied'

/a-a/ → /a/

18 /šk:a-at/ → /šk:at/ 'doubt (mp)!!'

113 /da-as-i-t:awan/ → /dasit:awan/ 'he helps him'

113 /da-aγ-i-t:sal/ → /daγit:sal/ 'he asks us'

Rules 40-43

51 /i-ažum/ → /yazum/ 'he fasted'

57 /i-ižil/ → /yižil/ 'he was nice'

362 /i-ufa/ → /yufa/ 'he found'

Rule 44

89 /t-saʕf-š-d/ → /tsaʕfšid/ 'she was patient with you (s)' (+ prox.)

89 /t-saʕf-t-d/ → /tsaʕftid/ 'she was patient with him' (+ prox.)

89 /t-saʕf-aγ-d/ → /tsaʕfayd/ 'she was patient with us' (+ prox.)

\* \* \*

Notes on the Verb in Ayt Seghrouchen (A.S.)

Only differences from Ayt Ayache (A.A.) grammar are discussed here.

- 1 These are /d:/ and /n:/ in A.S., e.g.,
- |            |               |
|------------|---------------|
| /rah/      | to go         |
| /i-rah-d:/ | he came       |
| /i-rah-n:/ | he went there |
- 2 In A.S. the present tense prefix is only /l:a-/, e.g.,
- |               |                |
|---------------|----------------|
| /l:a-i-t:um:/ | he is swimming |
|---------------|----------------|
- 3 In A.S. the progressive or inchoative prefix is /al-/, e.g.,
- |              |                    |
|--------------|--------------------|
| /al-i-t:um:/ | he started to swim |
|--------------|--------------------|
- 4 In A.S. this morpheme is /is-/ which is the Interrogative particle. In most cases in future construction /is-/ is followed by /-d-/, a particle of emphasis, e.g.,
- |                 |               |
|-----------------|---------------|
| /is-d-ad-i-um:/ | will he swim? |
|-----------------|---------------|
- 5 The particle is /is-/ but it precedes a verb stem in the Habitual form without a present tense prefix; e.g.,
- |              |                               |
|--------------|-------------------------------|
| /is-i-t:um:/ | is he swimming? does he swim? |
|--------------|-------------------------------|
- 6 In A.S. there are two negative particles:
- (a) /ur-/ before V, SV, ... in the past and before VH in the formation of the future negative and (b) /ul:i-/ before VH, SVH, ... (present); e.g.,

/i- <sup>s</sup> um:/	he swam
/ur-i- <sup>s</sup> um:/	he did not swim
/l:a-i-t: <sup>s</sup> um:/	he is swimming
/ul:i-i-t: <sup>s</sup> um:/	he is not swimming
/adi <sup>s</sup> um:/	he will swim
/urit: <sup>s</sup> um:/	he will not swim

7

-PNG	Imper. Suffix
2sm	-∅
2sf	-∅
2pm	-m
2pf	-nt

TABLE 1 - Second Person Imperative Suffixes (A.S.).

-PNG	Imper. Suffix
ldm	-ax
ldf	-ntax
lpm	-max
lpf	-ntax

TABLE 2 - Hortatory Suffixes (A.S.).

8

-PNG-	Inflectional Affix
1s	_____ x
2s	t _____ t
3sm	i _____
3sf	t _____
lp	n _____
2pm	t _____ m
2pf	t _____ nt
3pm	_____ n
3pf	_____ nt

TABLE 3 - Ayt Seghrouchen -PNG- Affixes

9 Ablaut in Ayt Seghrouchen may be summed up as follows:

i. Unablauted stems: show no ablaut (neither in affirmative not negative) and are represented by the verb stems /<sup>s</sup>um:/ 'to swim' of the structure ||AVC|| , /baṛš/ 'to congratulate' of the structure ||AVCD|| , /bd:/ 'to stand up' of the structure ||AB:|| , /dž:/ 'to let', /f:u/ 'to dawn', and /bḍu/ 'to divide' of the structure ||ABV||. For conjugations see Table #4 -11 (A.S.).

ii. Ablauted Stems:

(a) Ø:0 ablaut are stems which have no ablaut in Affirmative past but have /i/ ablaut in the negative. This is represented by /frḥ/ 'to be happy' /bry/ 'to grind' (see Table 16 (A.S.) for changes in /-y#/ of this type), /qr:r/ 'to decide', /bndq/ 'to bow', /l:ɣm/ 'to twist' and /z:s/ 'to dismiss' of the structure ||A(:)B(:)(C)(D)|| . For conjugations see Tables #12 - 23 (A.S.).

(b) i/a ablaut for members of the ||ABa#|| structure represented here by /bda/ 'to start'. This group has /i/ ablaut for first and second person singular and /a/ for the rest of the PNG paradigm. This is the only group that is ablauted in the future. For conjugations see Tables #24 - 27 (A.S.).

(c) i/u ablaut occurs with verbs as /iž/ 'to do', /k:/ 'to pass' /ls/ 'to shear' of the structure ||A(:)|| or ||AB|| . /i/ occurs with PNG: 1s, 2s, 2m,f and 3m,f. /u/ occurs with PNG: 3m,f and lp. For conjugations see Tables #28 - 31 (A.S.).

(d) a - u ablaut refers to change of a to u, e.g., /adf/ 'to enter' or /džal:/ 'to swear' of the structure ||aBC|| or ||(A)BaD|| . For conjugations see Tables #32 - 35 (A.S.).

(e) a - i ablaut refers to change of a to i for only two verbs, namely /awd/ 'to reach', /awy/ 'to take away'. See conjugations in Tables #36 - 39 (A.S.).

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	ɣum:x	urɣum:x	isɣum;x	isurɣum:x
2s	tɣum:t	urtɣum:t	istɣum;t	isurtɣum:t
3sm	iɣum:	uriɣum:	isiɣum:	isuriɣum:
3sf	tɣum:	urtɣum:	istɣum:	isurtɣum:
1p	nɣum:	urnɣum:	isnɣum:	isurnɣum:
2pm	tɣum:m	urtɣum:m	istɣum:m	isurtɣum:m
2pf	tɣum:nt	urtɣum:nt	istɣum:nt	isurtɣum:nt
3pm	ɣum:n	urɣum:n	isɣum:n	isurɣum:n
3pf	ɣum:nt	urɣum:nt	isɣum:nt	isurɣum:nt

TABLE 4 (A.S.) - /-PNG-/ paradigms for unablauted /ɣum:/ 'to swim' in the past.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	adɣum:x	urt:ɣum:x	isad:ɣum:x	isurt:ɣum:x
2s	at:ɣum:t	urt:ɣum:t	isat:ɣum:t	isurt:ɣum:t
3sm	adiɣum:	urit:ɣum:	isadiɣum:	isurit:ɣum:
3sf	at:ɣum:	urt:ɣum:	isat:ɣum:	isurt:ɣum:
1p	an:ɣum:	urnt:ɣum:	isan:ɣum:	isurnt:ɣum:
2pm	at:ɣum:m	urt:ɣum:m	isat:ɣum:m	isurt:ɣum:m
2pf	at:ɣum:nt	urt:ɣum:nt	isat:ɣum:nt	isurt:ɣum:nt
3pm	adɣum:n	urt:ɣum:n	isadɣum:n	isurt:ɣum:n
3pf	adɣum:nt	urt:ɣum:nt	isadɣum:nt	isurt:ɣum:nt

TABLE 5 (A.S.) - /-PNG-/ paradigms for unablauted /ɣum:/ 'to swim' in the future.

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	l:at:ɣum:x	ul:it:ɣum:x	ist:ɣum:x	isul:it:ɣum:x
2s	l:at:ɣum:t	ul:it:ɣum:t	ist:ɣum:t	isul:it:ɣum:t
3sm	l:ayt:ɣum:	ul:iyt:ɣum:	isit:ɣum:	isul:iyt:ɣum:
3sf	l:at:ɣum:	ul:it:ɣum:	ist:ɣum:	isul:it:ɣum:
1p	l:ant:ɣum:	ul:int:ɣum:	isnt:ɣum:	isul:int:ɣum:
2pm	l:at:ɣum:m	ul:it:ɣum:m	ist:ɣum:m	isul:it:ɣum:m
2pf	l:at:ɣum:nt	ul:it:ɣum:nt	ist:ɣum:nt	isul:it:ɣum:nt
3pm	l:at:ɣum:n	ul:it:ɣum:n	ist:ɣum:n	isul:it:ɣum:n
3pf	l:at:ɣum:nt	ul:it:ɣum:nt	ist:ɣum:nt	isul:it:ɣum:nt

TABLE 6 (A.S.) - /-PNG-/ paradigms for unablauted /ɣum/ in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	ɣum:	t:ɣum:	adurt:ɣum:
2pm	ɣum:m	t:ɣum:m	adurt:ɣum:m
2sf	ɣum:nt	t:ɣum:nt	adurt:ɣum:nt

TABLE 7 (A.S.) - Imperative structures for unablauted /ɣum:/

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	bd:x	urbd:x	isbd:x	isurbd:x
2s	tbd:t	urtbd:t	istbd:t	isurtbd:t
3sm	ibd:	uribd:	isibd:	isuribd:
3sf	tbd:	urtbd:	istbd:	isurtbd:
1p	nbd:	urnbd:	isnbd:	isurnbd:
2pm	tbd:m	urtbd:m	istbd:m	isurtbd:m
2pf	tbd:nt	urtbd:nt	ustbd:nt	isurtbd:nt
3pm	bd:n	urbd:n	isbd:n	isurbd:n
3pf	bd:nt	urbd:nt	isbd:nt	isurbd:nt

TABLE 8 (A.S.) - /-PNG-/ paradigms for unablauted /bd:/ 'to stand up' in the past.

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	adbd:x	urt:bid:idx	isadbd:x	isurt:bid:idx
2s	at:bd:t	urt:bid:it:	isatbd:t	isurt:bid:it:
3sm	adibd:	urit:bid:id	isadibd:	isurit:bid:id
3sf	at:bd:	urt:bid:id	isadtbd:	isurt:bid:id
1p	an:bd:	urnt:bid:id	isadnbd:	isurnt:bid:id
2pm	at:bd:m	urt:bid:idm	isadtbd:m	isurt:bid:idm
2pf	at:bd:nt	urt:bid:idnt	isadtbd:nt	isurt:bid:idnt
3pm	adbd:n	urt:bid:idn	isadbd:n	isurt:bid:idn
3pf	adbd:nt	urt:bid:idn	isadbd:nt	isurt:bid:idnt

TABLE 9 (A.S.) - /-PNG-/ paradigms for unablauted /bd:/ 'to stand up' in the future.

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	l:at:bid:idx	ul:it:bid:idx	ist:bid:idx	isul:it:bid:idx
2s	l:at:bid:it:	ul:it:bid:it:	ist:bid:it:	isul:it:bid:it:
3sm	l:ayt:bid:id	ul:iyt:bid:id	isit:bid:id	isul:iyt:bid:id
3sf	l:at:bid:id	ul:it:bid:id	ist:bid:id	isul:it:bid:id
1p	l:ant:bid:id	ul:int:bid:id	isnt:bid:id	isul:int:bid:id
2pm	l:at:bid:idm	ul:it:bid:idm	ist:bid:idm	isul:it:bid:idm
2pf	l:at:bid:idnt	ul:it:bid:idnt	ist:bid:idnt	isul:it:bid:idnt
3pm	l:at:bid:idn	ul:it:bid:idn	ist:bid:idn	isul:it:bid:idn
3pf	l:at:bid:idnt	ul:it:bid:idnt	ist:bid:idnt	isul:it:bid:idnt

TABLE 10 (A.S.) - /-PNG-/ paradigms for unablauted /bd:/  
'to stand up' in the present

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	bd:	t:bid:id	adurt:bid:id
2pm	bd:m	t:bid:idm	adurt:bid:idm
2pf	bd:nt	t:bid:idnt	adurt:bid:idnt

TABLE 11 (A.S.) - Imperative structures for unablauted /bd:/  
'to stand up'.

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	fṛḥx	urfrīhx	isfṛḥx	isurfrīhx
2s	tṛḥnt	urtṛīht	istṛḥnt	isurtṛīht
3pm	ifrḥ	urifrīḥ	isifrḥ	isurifrīḥ
3pf	tṛḥ	urtṛīḥ	istṛḥ	isurtṛīḥ
1p	nṛḥ	un:frīḥ	isan:frḥ	isun:frīḥ
2pm	tṛḥm	urtṛīḥm	istṛḥm	isurtṛīḥm
2pf	tṛḥnt	urtṛīḥnt	istṛḥnt	isurtṛīḥnt
3pm	fṛḥn	urfrīḥn	isfṛḥn	isurfrīḥn
3pf	fṛḥnt	urfrīḥnt	isfṛḥnt	isurfrīḥnt

TABLE 12 (A.S.) - /-PNG-/ paradigms for /fṛḥ/ 'to be happy' of the Ø:0 ablaut in the past

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	adfrḥx	urfr:ḥx	isadfrx	isurfr:ḥx
2s	at:frḥnt	urtfr:ḥnt	isat:frḥnt	isurtfr:ḥnt
3sm	adifrḥ	urifr:ḥ	isadifrḥ	isurifr:ḥ
3sf	at:frḥ	urtfr:ḥ	isat:frḥ	isurtfr:ḥ
1p	an:frḥ	urnfr:ḥ	isan:frḥ	isurnfr:ḥ
2pm	at:frḥm	urtfr:ḥm	isat:frḥm	isurtfr:ḥm
2pf	at:frḥnt	urtfr:ḥnt	isat:frḥnt	isurtfr:ḥnt
3pm	adfrḥn	urfr:ḥn	isadfrḥn	isurfr:ḥn
3pf	adfrḥnt	urfr:ḥnt	isadfrḥnt	isurfr:ḥnt

TABLE 13 (A.S.) - /-PNG-/ paradigms for /fṛḥ/ 'to be happy' in the future

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	l:afr:h <sub>x</sub>	ul:ifr:h <sub>x</sub>	isfr:h <sub>x</sub>	isul:ifr:h <sub>x</sub>
2s	l:atfr:h <sub>t</sub>	ul:it:fr:h <sub>t</sub>	istfr:h <sub>t</sub>	isul:itfr:h <sub>t</sub>
3sm	l:ayfr:h <sub>h</sub>	ul:iyfr:h <sub>h</sub>	isifr:h <sub>h</sub>	isul:iyfr:h <sub>h</sub>
3sf	l:atfr:h <sub>h</sub>	ul:tfr:h <sub>h</sub>	istfr:h <sub>h</sub>	isul:itfr:h <sub>h</sub>
1p	l:anfr:h <sub>h</sub>	ul:infr:h <sub>h</sub>	isnfr:h <sub>h</sub>	isul:infr:h <sub>h</sub>
2pm	l:atfr:h <sub>hm</sub>	ul:itfr:h <sub>hm</sub>	istfr:h <sub>hm</sub>	isul:itfr:h <sub>hm</sub>
2pf	l:atfr:h <sub>hnt</sub>	ul:itfr:h <sub>hnt</sub>	istfr:h <sub>hnt</sub>	isul:itfr:h <sub>hnt</sub>
3pm	l:af <sub>r</sub> :h <sub>hn</sub>	ul:ifr:h <sub>hn</sub>	isfr:h <sub>hn</sub>	isul:ifr:h <sub>hn</sub>
3pf	l:af <sub>r</sub> :h <sub>hnt</sub>	ul:ifr:h <sub>hnt</sub>	isfr:h <sub>hnt</sub>	isul:ifr:h <sub>hnt</sub>

TABLE 14 (A.S.) - /-PNG-/ paradigms for /fr<sub>h</sub>/ 'to be happy' in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	fr <sub>h</sub>	fr:h <sub>h</sub>	adurfr:h <sub>h</sub>
2om	fr <sub>h</sub> m	fr:h <sub>hm</sub>	adurfr:h <sub>hm</sub>
2pf	fr <sub>h</sub> nt	fr:h <sub>hnt</sub>	adurfr:h <sub>hnt</sub>

TABLE 15 (A.S.) - Imperative structures for ablauted /fr<sub>h</sub>/ 'to be happy'.

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	brix	urbrix	isbrix	isurbrix
2sm	tbrit	urtbrit	istbrit	isurtbrit
2sm	ibry	uribriy	isibry	isuribriy
3sf	tbriy	urtbriy	istbry	isurtbriy
1p	nbry	urnbry	isnbry	isurnbry
2pm	tbrim	urtbrim	istbrim	isurtbrim
2pf	tbrint	urtbrint	istbrint	isurtbrint
3pm	brin	urbriya	isbrin	isurbrin
3pf	brint	urbriynt	isbrint	isurbrint

TABLE 16 (A.S.) - /-PNG-/ for /bry/ 'to grind' of the Ø:0 ablaut in the past.

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	adbrix	urbr:ix	isadbrix	isurbr:ix
2s	at:brit	urtbr:it	idat:brit	isurtbr:it
3sm	adibriy	uribr:y	isadibry	isuribr:i
3sf	at:bry	urtbr:y	isat:bry	isurtbr:i
1p	an:bry	urnbr:y	isan:bry	isurnbr:i
2pm	at:brim	urtbr:im	isat:brim	isurtbr:im
2pf	at:brint	urtbr:int	isat:brint	isurtbr:int
3pm	adbrin	urbr:in	isatdbrin	isurbr:in
3pf	adbrint	urbr:int	isadbrint	isurbr:int

TABLE 17 (A.S.) - /-PNG-/ paradigms for /bry/ 'to grind' in the future.

-PNG-	Affirm.	Neg.	Interrog.	Neg. Interr.
1s	l:abr:ix	ul:ibr:ix	isbr:ix	isul:ibr:ix
2s	l:atbr:it	ul:itbr:it	isibr:it	isul:itbr:it
3sm	l:aybr:y	ul:iybr:y	isibr:y	isul:iybr:y
3sf	l:atbr:y	ul:itbr:y	istbr:y	isul:itbr:y
1p	l:anbr:y	ul:ibr:ix	isnbr:i	isul:inbr:im
2pm	l:atbr:im	ul:itbr:it	istbr:im	isul:itbr:im
2pf	l:atbr:int	ul:iybr:iy	istbr:int	isul:itbr:int
3pm	l:abr:in	ul:itbr:y	isbr:in	isul:ibr:in
3pf	l:abr:int	ul:itbr:int	isbr:int	isul:ibr:int

TABLE 18 (A.S.) - /-PNG-/ paradigms for /bry/ 'to grind' in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	bry	br:y	adurbr:y
2pm	brim	br:im	adurbr:im
2pf	brint	br:int	adurbr:int

TABLE 19 (A.S.) - Imperative structures for /bry/ 'to grind'.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	z:ex	urz:ix	isz:ex	isurz:ix
2s	tz:et	urtz:iet	istz:et	isurtz:iet
3sm	iz:e	uriz:ie	isiz:e	isuriz:ie
3sf	tz:e	urtz:ie	istz:e	isurtz:ie
1p	nz:e	urnz:ie	isnz:e	isurnz:ie
2pm	tz:em	urtz:iem	istz:em	isurtz:iem
2pf	tz:ent	urtz:ient	istz:ent	isurtz:ient
3pm	z:en	urz:ien	isz:en	isurz:ien
3pf	z:ent	urz:ient	isz:ent	isurz:ient

TABLE 20 (A.S.) - /-PNG-/ paradigms for /z:e/ 'to chase' of the  $\delta:0$  ablaut in the past.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	adz:ex	urt:z:ex	isz:ex	isurz:ix
2s	at:z:et	urt:z:et	istz:et	isurtz:iet
3sm	adiz:e	urit:z:e	isiz:e	isuriz:ie
3sf	at:z:e	urt:z:e	istz:e	isurtz:ie
1p	an:z:e	urnt:z:e	isnz:e	isurnz:ie
2pm	at:z:em	urt:z:em	istz:em	isurtz:iem
2pf	at:z:ent	urt:z:ent	istz:ent	isurtz:ient
3pm	adz:en	urt:z:en	isz:en	isurz:ien
3pf	adz:ent	urt:z:ent	isz:ent	isurz:ient

TABLE 21 (A.S.) - /-PNG-/ paradigms for /z:e/ 'to chase' in the future.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	l:at:ẓ	ul:it:ẓ:εx	ist:ẓ:εx	isul:it:ẓ:εx
2s	l:at:ẓ:εt	ul:it:ẓ:εt	ist:ẓ:εt	isul:it:ẓ:εt
3sm	l:ayt:ẓ:ε	ul:iyt:ẓ:ε	isit:ẓ:ε	isul:iyt:ẓ:ε
3sf	l:at:ẓ:ε	ul:it:ẓ:ε	ist:ẓ:ε	isul:it:ẓ:ε
1p	l:ant:ẓ:ε	ul:int:ẓ:ε	isnt:ẓ:ε	isul:int:ẓ:ε
2pm	l:at:ẓ:εm	ul:it:ẓ:εm	ist:ẓ:εm	isul:it:ẓ:εm
2pf	l:at:ẓ:εnt	ul:it:ẓ:εnt	ist:ẓ:εnt	isul:it:ẓ:εnt
3pm	l:at:ẓ:εn	ul:it:ẓ:εn	ist:ẓ:εn	isul:it:ẓ:εn
3pf	l:at:ẓ:εnt	ul:it:ẓ:εnt	ist:ẓ:εnt	isul:it:ẓ:εnt

TABLE 22 (A.S.) - /-PNG-/ paradigms for /ẓ:ε/ 'to chase' in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	ẓ:ε	t:ẓ:ε	adurt:ẓ:ε
2pm	ẓ:εm	t:ẓ:εm	adurt:ẓ:εm
2pf	ẓ:εnt	t:ẓ:εnt	adurt:ẓ:εnt

TABLE 23 (A.S.) - Imperative structures for /ẓ:ε/ 'to chase'.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	bdix	urbdix	isbdix	isurbdix
2s	tbdit	urtbdit	istbdit	isurtbdit
3sm	ibda	uribdi	isibda	isuribdi
3sf	tbdā	urtbdi	istbda	isurtbdi
1p	nbdā	un;bdi	isnbdā	isurnbdi
2pm	tbdam	urtbdim	istbdam	isurtbdim
2pf	tbdant	urtbdint	istbdant	isurtbdint
3pm	bdan	urbdin	isbdan	isurbdin
3pf	bdant	urbdint	isbdant	isurbdint

TABLE 24 (A.S.) - /-PNG-/ paradigms for /bda/ 'to begin' of the i/a ablaut in the past.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	adbdix	urbd:ix	isadbdix	isurbd:ix
2s	at:bdit	urtbd:it	isat:bdit	isurtbd:it
3sm	adibda	uribd:a	isadibda	isuribd:a
3sf	at:bda	urtbd:a	isat:bda	isurtbd:a
1p	an:bda	urnbd:a	isan:bda	isurnbd:a
2pm	at:bdam	urtbd:am	isat:bdam	isurtbd:am
2pf	at:bdant	urtbd:ant	isat:bdant	isurtbd:ant
3pm	adbdan	urbd:an	isadbdan	isurbd:an
3pf	adbdant	urbd:ant	isadbdant	isurbd:ant

TABLE 25 (A.S.) - /-PNG-/ paradigms for /bda/ 'to begin' of the i/a (only type ablauted) in the future.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	l:abd:ix	ul:ibd:ix	isbd:ix	isul:ibd:ix
2s	l:atbd:it	ul:itbd:it	istbd:it	isul:itbd:it
3sm	l:aybd:a	ul:iybd:a	isibd:a	isul:iybd:a
3sf	l:atbd:a	ul:itbd:a	istbd:a	isul:itbd:a
1o	l:anbd:a	ul:inbd:a	isnbd:a	isul:inbd:a
2om	l:atbd:am	ul:itbd:am	istbd:am	isul:itbd:am
2of	l:atbd:ant	ul:itbd:ant	istbd:ant	isul:itbd:ant
3om	l:abd:an	ul:ibd:an	isbd:an	isul:ibd:an
3of	l:abd:ant	ul:ibd:ant	isbd:ant	isul:ibd:ant

TABLE 26 (A.S.) - /-PNG-/ paradigms for /bda/ 'to begin' in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	bda	bd:a	adurbd:a
2om	bdam	bd:am	adurbd:am
2of	bdant	bd:ant	adurbd:ant

TABLE 27 (A.S.) - Imperative structures of /bda/ 'to begin'.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	dlix	urdlix	isdlix	isurdlix
2s	tdlit	urdt:lit	isd:lit	isurd:lit
3sm	idlu	uridli	isidlu	isuridli
3sf	tdlu	urd:li	isd:lu	isurd:li
1p	ndlu	urndli	isndlu	isurndli
2pm	d:lim	urd:lim	isd:lim	isurd:lim
2pf	d:lint	urd:lint	isd:lint	isurd:lint
3pm	dlin	urdlin	isdlin	isurdlin
3pf	dlint	urdlint	isdlint	isurdlint

TABLE 28 (A.S.) - /-PNG-/ paradigms for /dl/ 'to cover' of the i/u ablaut in the past.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	ad:lx	urd:alx	isad:lx	isurd:alx
2s	at:dlt	urtd:alt	isat:dlt	isurtd:alt
3sm	adidl	urid:al	isadidl	isurid:al
3sf	at:dl	urtd:al	isat:dl	isurtd:al
1p	an:dl	urnd:al	isan:dl	isurnd:al
2pm	at:dln	urtd:aln	isat:dln	isurtd:aln
2pf	at:dlnt	urtd:alnt	isat:dlnt	isurtd:alnt
3pm	ad:ln	urd:aln	isad:ln	isurd:aln
3pf	ad:ln	urd:alnt	isad:ln	isurd:alnt

TABLE 29 (A.S.) - /-PNG-/ paradigms for /dl/ 'to cover' in the future.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	l:ad:alx	ul:id:alx	isd:alx	isul:id:alx
2s	l:atd:alt	ul:itd:alt	istd:alt	isul:itd:alt
3sm	l:ayd:al	ul:iyd:al	isid:al	isul:iyd:al
3sf	l:atd:al	ul:itd:al	istd:al	isul:itd:al
1p	l:and:al	ul:ind:al	isnd:al	isul:ind:al
2pm	l:atd:alm	ul:itd:alm	istd:alm	isul:itd:alm
2pf	l:atd:alnt	ul:itd:alnt	istd:alnt	isul:itd:alnt
3pm	l:ad:aln	ul:id:aln	isd:aln	isul:id:aln
3pf	l:ad:alnt	ul:id:alnt	isd:alnt	isul:id:alnt

TABLE 30 (A.S.) - /-PNG-/ paradigms for /dl/ 'to cover' in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper
2s	dl	d:al	adurd:al
2pm	dIm	d:alm	adurd:alm
2pf	dlnt	d:alnt	adurd:alnt

TABLE 31 (A.S.) - Imperative structures for /dl/ 'to cover'.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	udfx	urudfx	isudfx	isurudfx
2s	tudft	urtudft	istudft	isurtudft
3sm	yudf	uryudf	isyudf	isuryudf
3sf	tudf	urtudf	istudf	isurtudf
1p	nudf	un:udf	isnudf	isun:udf
2pm	tudfm	urtudfm	istudfm	isurtudfm
2pf	tudfnt	urtudfnt	istudfnt	isurtudfnt
3pm	udfn	urudfn	isudfn	isurudfn
3pf	udfnt	urudfnt	isudfnt	isurudfnt

TABLE 32 (A.S.) - /-PNG-/ paradigms for /adf/ 'to enter' of the a - u ablaut in the past.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	adadfx	urt:adfx	isadadfx	isurt:adfx
2s	at:adft	urt:adft	isat:adft	isurt:adft
3sm	adyadf	urit:adf	isadyadf	isur:t:adf
3sf	at:adf	urt:adf	isat:adf	isurt:adf
1p	an:adf	urmt:adf	isan:adf	isurmt:adf
2pm	at:adfm	urt:adfm	isat:adfm	isurt:adfm
2pf	at:adfnt	urt:adfnt	isat:adfnt	isurt:adfnt
3pm	adadfn	urt:adfn	isadadfn	isurt:adfn
3pf	adadfnt	urt:adfnt	isadadfnt	isurt:adfnt

TABLE 33 (A.S.) - /-PNG-/ paradigms for /adf/ 'to enter' in the future.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	l:at:adfx	ul:it:adfx	ist:adfx	isul:it:adfx
2s	l:at:adft	ul:it:adft	ist:adft	isul:it:adft
3sm	l:ayt:adf	ul:iyt:adf	isit:adf	isul:iyt:adf
3sf	l:at:adf	ul:it:adf	ist:adf	isul:it:adf
1p	l:ant:adf	ul:int:adf	isnt:adf	isul:int:adf
2pm	l:at:adfm	ul:it:adfm	ist:adfm	isul:it:adfm
2pf	l:at:adfnt	ul:it:adfnt	ist:adfnt	isul:it:adfnt
3pm	l:at:adfn	ul:it:adfn	ist:adfn	isul:it:adfn
3pf	l:at:adfnt	ul:it:adfnt	ist:adfnt	isul:it:adfnt

TABLE 34 (A.S.) - /-PNG-/ paradigms for /adf/ 'to enter' in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	adf	t:adf	adurt:adf
2pm	adfm	t:adfm	adurt:adfm
2pf	adfnt	t:adfnt	adurt:adfnt

TABLE 35 (A.S.) - Imperative structures for /adf/ 'to enter'.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	iwḍx	uriwḍx	isiwḍx	isuriwḍx
2s	tiwt:	urtiwt:	istiwt:	isurtiwt:
3sm	yiwd	uryiwd	isyiwd	isuryiwd
3sf	tiwḍ	urtiwḍ	istiwḍ	isurtiwḍ
1p	niwḍ	urniwḍ	isniwḍ	isurniwḍ
2pm	tiwḍm	urtiwḍm	istiwḍm	isurtiwḍm
2pf	tiwḍnt	urtiwḍnt	istiwḍnt	isurtiwḍnt
3pm	iwḍn	uriwḍn	isiwḍn	isuriwḍn
3pf	iwḍnt	uriwḍnt	isiwḍnt	isuriwḍnt

TABLE 36 (A.S.) - /-PNG-/ paradigms of /awḍ/ 'to reach' of the a - i ablaut in the past.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	adawḍx	urt:awḍx	isadawḍx	isurt:awḍx
2s	at:awḍ:	urt:awḍ:	isat:awḍ:	isurt:awḍ:
3sm	adyawḍ	urit:awḍ	isadyawḍ	isurit:awḍ
3sf	at:awḍ	urt:awḍ	isat:awḍ	isurt:awḍ
1p	an:awḍ	urnt:awḍ	isan:awḍ	isurnt:awḍ
2pm	at:awḍm	urt:awḍm	isat:awḍm	isurt:awḍm
2pf	at:awḍnt	urt:awḍnt	isat:awḍnt	isurt:awḍnt
3pm	adawḍn	urt:awḍn	isadawḍn	isurt:awḍn
3pf	adawḍnt	urt:awḍnt	isadawḍnt	isurt:awḍnt

TABLE 37 (A.S.) - /-PNG-/ paradigms of /awḍ/ 'to reach' in the future.

-PNG-	Affirm.	Neg.	Interr.	Neg. Interr.
1s	l:at:awdx	ul:it:awdx	ist:awdx	isul:it:awdx
2s	l:at:awt:	ul:it:awt:	ist:awt:	isul:it:awt:
3sm	l:ayt:awd	ul:iyt:awd	isit:awd	isul:iyt:awd
3sf	l:at:awd	ul:it:awd	ist:awd	isul:it:awd
1p	l:ant:awd	ul:int:awd	isnt:awd	isul:int:awd
2pm	l:at:awdm	ul:it:awdm	ist:awdm	isul:it:awdm
2pf	l:at:awdnt	ul:it:awdnt	ist:awdnt	isul:it:awdnt
3pm	l:at:awdn	ul:it:awdn	ist:awdn	isul:it:awdn
3pf	l:at:awdnt	ul:it:awdnt	ist:awdnt	isul:it:awdnt

TABLE 38 (A.S.) - /-PNG-/ paradigms for /awd/ 'to reach' in the present.

-PNG#	Imper.	Energetic Imper.	Neg. Imper.
2s	awd	t:awd	adurt:awd
2pm	awdm	t:awdm	adurt:awdm
2pf	awdnt	t:awdnt	adurt:awdnt

TABLE 39 (A.S.) - Imperative paradigms of /awd/ 'to reach'.

10 Stem derivations in Ayt Seghrouchen differ slightly in their realization from those in Ayt Ayache. (See Sample Appendix B.)

11 Rules for Temporal Modal and Participle derivations in A.S. are identical with those of A.A. except for the difference in Temp-Mod Affixes mentioned in #2 - 6 above.

12 Differences in Verb Morphophonemics are here listed for A.S.:

Rule 5	/d-t:/	→	dt:	
	/i- <sup>ε</sup> ard-t:/	→	i <sup>ε</sup> ardt:	he invited her
Rule 10	/-d-d#/	→	dd:	
	/-d-d-/	→	d:	
	/i-wa <sup>ε</sup> d-d/	→	iwa <sup>ε</sup> dd:	he came (+ proximity)
	/ad-d- <sup>ε</sup> awn-γ/	→	ad: <sup>ε</sup> awnγ	I'll help (+ proximity)
Rule 13	/-γ-x#/	→	/x:/	
	/f:γ-x/	→	f:x:	I went out
Rule 17	/r-n#/	→	/rn#/	
	<sup>ε</sup> m:r-n/	→	<sup>ε</sup> m:rn	they (m) filled
Rule 18	/l-n#/	→	/-ln#/	
	/s:lil-n/	→	s:liln	they (m) rinsed
Rule 19	/-n-m#/	→	/-nm#/	
	/ad-t- <sup>ř</sup> n-m/	→	at <sup>ř</sup> nm	
Rule 20	/d-š/	→	/š:/	
	/ad-š-i-sal	→	aš:isal	he will ask you (ms)

Rule 22     /d-n/      $\longrightarrow$      n:  
               /ad-n-sal/  $\longrightarrow$      an:sal     we will ask

Rule 25     /-s-ž-/  $\longrightarrow$      /-sž-/  
               /s-žru/  $\longrightarrow$      /sžru/     SV of /žru/

Similarly, 26. 27 :     /s-š/  $\longrightarrow$      /sš/  
                               /s-z/  $\longrightarrow$      /sz/

## Verb Sample Appendices and List

## Introduction to Appendix A (from Ayt Ayache)

Appendix A contains 77 unaugmented verb stems and their derivatives arranged alphabetically according to the class or sub-class to which V belongs (see Chapter 4 for classification of verb stems). The alphabetical order for classes and sub-classes both in the Appendix and the verb list is:

a b b: d d: ḍ ḍ: f f: g g: g̣ g̣: h ḥ ḥ: i k k: ḳ ḳ:  
 l l: ḷ ḷ: m m: n n: q q: q̣ q̣: r r: ṛ ṛ: s s: ṣ ṣ:  
 š š: t t: ṭ ṭ: u w w: x x: x̣ y y: z z: ẓ ẓ: ž ž:  
 ° γ γ: γ

Each of the numbers 1-77 in Appendix A and 1-450 in the verb list refers to an unaugmented verb stem and its derivatives.

The 450 verb stems represent the verbs of the corpus of the research on the Ayt Ayache dialect. As they appear in the verb list, they are grouped into two types: A - unablauted (1-115), B - ablauted (116-450). Each type has two classes, A and B, which in turn are grouped into sub-classes with an Arabic numeral preceding each sub-class. At the beginning of each class in the Appendix appears the general underlying structure of its sub-classes; at the beginning of each sub-class appear the maximum possibilities for its underlying structure with an illustrative example or examples used to name the sub-class: e.g., in the Appendix Class I of type A appears as

## Unablauted

1. A(B)(C)a
2. AVC
3. ABVC

and sub-class I appears as

- |    |        |             |
|----|--------|-------------|
| 1. | Aa     | fa          |
|    | AB(C)a | šk:a, štkā  |
|    | AVCa   | dawa, fuk:a |

Sometimes more examples are shown listed in the Appendix.

There are two major sets for any listing (V and its derivatives) in the Appendix. One set is that of unaugmented forms, the other of augmented forms. A maximum of five listings a) to e) appears, in most cases, for each set.

For the unaugmented set:

- a) lists V followed by an English translation as infinitive without 'to'. Next to the meaning the symbol 'ar' means Arabic loan, 'ma' Moroccan Arabic loan; no symbol means native or Tamazight. \* Finally "t" means transitive, "i" intransitive, "n" (i.e. neutral) both transitive and intransitive.
- b) lists the habitual form of the simple stem VH
- c) lists a noun of action derived from the simple stem: N-act. Parenthesis show a plural if it exists: e.g. 5 c) afuk:a (ifuk:atn)\*\*; or a plural suffix 9 c) s:wal (-at)
- d) lists a noun of agent. If no further information follows, this means that the noun under consideration is a "Sound" masculine singular (ms) noun which follows a regular pattern in deriving a masculine plural (mp), a feminine singular (fs) and a feminine plural (fp): e.g. 22 d) /amkašf/ 'fortune-teller' (ms) derives: /imkašfn/ (mp), /tamkašft/ (fs), /timkašfin/ (fp). If the derivations do not follow the above pattern, they are listed with plurals (or plural prefixes) in parenthesis: e.g.

\* This information is, of course, debatable. However, the author's native knowledge of Arabic, the discussion of these verb stems and their derivatives with the informant and the consultation of various dictionaries, such as Wehr's and Harrell's lead the author to the conclusions shown in this Appendix.

\*\* Numbers refer to the place of V in Appendix A.

36 d) bulḥm:am (id-)  
 m:lḥm:am (ist-)

Some nouns are followed by \*f which means that mp is a possible derivation whereas fs and fp are not:  
 e.g. 28 d) abr:aḥ ; \*f

- e) lists a noun (ms or fs) followed by (instr.) if it is a noun of instrument, (loc.) if it is a noun of place, or (occup.) if it is a noun of occupation:  
 e.g.

36 e) lḥm:am (loc.)  
 46 e) lɔbra (instr.)

Plurals appear in parenthesis if they exist.

Augmented stems appear in this order: Causative, Reciprocal, and Passive. The maximum number of forms that any augmented stem can show is three a) to c) where

- a) lists causative SV, reciprocal MV, passive TuV which are all derived from unaugmented V  
 b) lists habitual forms of causative SVH, of reciprocal MVH, of passive TuVH.  
 c) lists a N-act derived from the causative SV or the reciprocal MV (rather than from V): e.g.

25 c) amɔawan

a) and b) of the recipro-causative forms appear partly in the causative and partly in the reciprocal columns. These are:

- a) MSV  
 b) MSVH

e.g. 4 a) msfafa  
 b) t:msfafa

Appendix A is compiled on the basis of derivation and

occurrence.\* That is, V is the starting formative from which the other forms are derived by rules of generative grammar.

The justification of the horizontal order,

a) V SV MSV MV TuV

is based on derivation of all augmented forms from V.

Note that some MSV's can occur without corresponding SV's which shows they are derived from V's: e.g.

43 a) msl:am

b) t:msl:am

The order SV MSV MV is justified by the derivation of MSV from SV. The Passive is the form with the least occurrence and the one the least used even when it occurs. The informant said that it is preferable to use the active rather than the passive as much as possible. Its main occurrence is with the third person, however it may occur with other persons. Sometimes a passive is derived from SV; e.g. 33 TuSV (t:usfrḥ); for these reasons, the passive form is put last.

The justification of the vertical order is that all forms on lines b) and c) are derived from a). Forms on line d) are derived (in many instances) from c): e.g.

29 a) bš:r

b) t:bš:ar

c) abš:r

d) abš:ar

Frequency of occurrence is also an important factor (see footnote).

---

\* For percentages of occurrence, see Abdel-Massih, Ernest, Tamazight Verb Structure: A Generative Approach, University of Indiana:Bloomington, 1971, Table 97. The total number of the unaugmented verb stems (450) comprises the 100% shown in the table; the other percentages listed are based on the total number of the unaugmented verb stems (450 = 100%). The percentage of SV is 35.11, MV 31.11, MSV 13.55, TuV 31.77, N-act 78.22, N-agt 19.33 and N-instr, loc, occup 3.33.

The system shown in Appendix A is an open system. Thus, for example, 20 /ḥaḍr/ 'be present' has /šḥaḍr/ - SV, /šḥaḍar/ - SVH whereas 78 /kašf/ 'foretell' has no causative stems. The causative of /kašf/ is left blank, however, if a native speaker of Tamazight supplies a causative for this stem it will be one that the generative rules for causative derivation have stated in VI.4.3. The same is true for other derivations.

Throughout the Appendix transitivity is marked only for V and VH. SV's (and SVH's) are necessarily transitive whether or not the underlying V is transitive. TuV's are mainly derived from transitive V's; however, TuV's (and TuVH's) are intransitive and have as their subject the direct object of V's.

All the above information applies to Appendix B (from Ayt Seghrouchen), except that Appendix B is not followed by a Verb List as is Appendix A.

## Verb Sample Appendix A (Ayt Ayache)

A. Unablauted

1. 1. || A(B)(C)a ||  
 2. || AVC ||  
 3. || ABVD ||

1. { || Aa ||  
 || AB(C)a ||  
 || AVCa || }

fa  
 šk:a , štkā  
 dawa , fuk:a

	Unaugmented	Augmented		
		Causative	Reciprocal	Passive
1	a) dawa 'cure' ar t b) t:dawa c) adawa (idawatn)	sdawa sdawa		t:udawa t:udawa
2	a) ḍr:a 'do harm' ar t b) t:ḍr:a c) ḍ:arar (id-)			t:uḍr:a t:uḍr:a
3	a) fa 'yawn' i b) t:fa	sfa sfa		

4	a) fafa 'wake up'	i	sfafa		
	b) t:fafa		sfafa		
			a) msfafa		
			b) t:msfafa		
5	a) fuk:a 'undo, get someone out of trouble'	ar t	sfuk:a		
	b) t:fuk:a		sfuk:a		
	c) afuk:a (ifuk:atn)				
			a) msfuk:a		
			b) t:msfuk:a		
6	a) šk:a 'doubt'	ar i		mšk:a	t:ušk:a
	b) t:šk:a			t:mšk:a	t:ušk:a
	c) š:k:				
7	a) štk'a 'complain'	ar i			t:uštka
	b) t:štk'a				t:uštka
	c) aštka (ištkatn)				

2. ||AVC||                      sal,    šib,    ɣum

8	a) q:is 'tell stories' b) t:q:is	ar t		m:q:is t:mq:is	
9	a) sal 'ask' b) t:sal c) s:wal (-at)	ar t		m:sal t:msal	t:usal t:usal
10	a) šib 'become white-haired' b) t:šib c) š:ib d) ašiban; * fp	ar i			
11	a) ɣum 'swim' b) t:ɣum c) taɣumt d) aɣw:am	ar i	sɣum sɣum̄		
				a) m:sɣum * b) t:m:sɣum	

\* 'bathe'

## 3. ||ABVD|| xṭar, slil, gzul

12	a) an:ay 'see'	t		myan:ay	t:uyan:ay
	b) t:an:ay			t:myan:ay	t:uyan:ay
13	a) aḏum 'fast'	ar t			
	b) t:aḏum				
14	a) gzul 'be short'	i	s:gzul		
	b) t:gzul		s:gzul		
	c) tagzli				
15	a) iḏil 'be nice'	i	s:iḏil		
	b) t:iḏil		s:iḏil		
	c) t:aḏ:lt				
16	a) slil 'rinse'	t			t:uslil
	b) t:slil				t:uslil
	c) aslil				
17	a) ṭšar 'make dirty'	t			t:uṭšar
	b) t:ṭšar				t:uṭšar
18	a) xṭar 'choose'	ar t	s:xṭar		t:uxṭar
	b) t:xṭar		s:xṭar		t:uxṭar

ii. ||AVCD||                      ḥaḍr,      d:irz,      ḥuḍr

19	a) d:irz 'step back'	i	sd:irz	
	b) t:diriz		sd:iriz	
20	a) ḥaḍr 'be present'	ar i	ṣḥaḍr	
	b) t:ḥaḍar		ṣḥaḍar	
	c) aḥaḍr			
21	a) ḥuḍr 'bend, be low'	i	ṣḥuḍr	
	b) t:ḥuḍur		ṣḥuḍur	
	c) aḥuḍr			
22	a) kašf 'foretell'	ar i		t:ukašf
	b) t:kašaf			t:ukašaf
	c) akašf			
	d) amkašf			
23	a) safr 'travel'	ar i		
	b) t:safar			
	c) s:fr			
	d) amsafr			

24	a) žawr 'be neighbor' ar t			mžawar	
	b) t:žawar			t:mžawar	
	c) ažawr				
	d) ad:žar				
25	a) əawn 'help' ar n	səawn	məawan	t:uəawn	
	b) t:əawan	səawan	t:məawan	t:uəawan	
	c) aəawn		aməawan		
	d) aməawn				

B. Ablauted

i. [ ∅ : 0 ]

1. ||AB(:)∅D||

2. ||aB∅D||

3. ||OB:∅D||

1. ||AB(:)∅D||      fr∅h → frh ,      fs:∅r → fs:r

	Unaugmented	Augmented		
		Causative	Reciprocal	Passive
26	a) bdr 'mention' t	s:bdr		t:ubdr
	b) bd:r	s:bdar		t:ubdar

27	a) bd:l 'change' ar t	sbd:l	mbd:al	t:ubd:l
	b) t:bd:al	sbd:al	t:mbd:al	t:ubd:al
	c) abd:l			
		a) msbd:al		
		b) t:msbd:al		
28	a) br:h 'announce' ma i			
	b) t:br:ah			
	c) abr:h			
	d) abr:ah ; * f			
29	a) bš:r 'give good news' ar i	sbđ:r	mbš:ar	t:ubš:r
	b) t:bš:ar	sbš:ar	t:mbš:ar	t:ubš:ar
	c) abš:r			
	d) abš:ar			
30	a) bəd 'be far' ar i	s:bəd		
	b) t:bəad	s:bəad		
	c) abəad (~lbəd)			
		a) msbəd		
		b) t:msbəd		

31	a) dhn 'rub ointment' ar t		m:dhan	t:udhn
	b) t:dhan		t:m:dhan	t:udhan
	c) adhan			
32	a) fḍr 'take lunch' ar i	s:fḍr		
	b) fḍ:r	s:fḍar		
	c) lfḍur		a) msfḍar b) t:msfḍar	
33	a) frḥ 'be happy' ar i	s:frḥ		t:ufrḥ
	b) t:frāḥ ~ fr:ḥ	s:frāḥ		t:ufrāḥ
	c) afrāḥ		a) msfrāḥ b) t:msfrāḥ	t:usfrḥ* t:usfrāḥ
34	a) fs:r 'explain' ar t		mfs:ar	t:ufs:r
	b) t:fs:ar		t:mfs:ar	t:ufs:ar
	c) afs:r			

\* this passive is derived from the causative rather than from the unaugmented verb stem

35	a) ḥbs 'imprison' ar t		t:uḥbs
	b) t:ḥbas		t:uḥbas
	c)		
	d) aḥb:as		
	e) lḥbs (loc.)		
36	a) ḥm:m 'bathe' ar i	sḥm:m	
	b) t:ḥm:am	sḥm;am	
	c) aḥm:m		
	d) bulḥm:am (id-) m:lḥm:am (ist-)		
	e) lḥm:am (id-) (loc.)		
37	a) ḥšm 'govern, judge' ar i		t:uḥšm
	b) t:ḥšam		t:uḥšam
	c) lḥšam		
	d) lḥak:m (lḥk:am)		
38	a) ḥz:m 'wear a belt' ar i	mḥz:am	
	b) t:ḥz:am	t:mḥz:am	
	c) aḥz:m		
	d) lḥzam (id-) (instr.)		

39	a) nṣb 'make stew' ma i		
	b) t:nṣab		
	c) anṣab		
40	a) nšr 'saw' ar t		t:unšr
	b) nš:r		t:unšar
	c) anšar		
	d)		
	e) lmnšar (id-) (instr.)		
41	a) rgm 'insult' ar t	m:rgam	t:urgm
	b) rg:m	t:mrgam	t:urgam
	c) argam		
42	a) sl:k 'give a reasonable price' ar t		
	b) t:sl:ak		
	c) asl:k		
	d) amsl:k		
		a) msl:ak*	
		b) t:msl:ak	
43	a) sl:m 'greet' ar i	msl:am	
	b) t:sl:am	t:msl:am	
	c) sl:am		

\* 'be tolerant'

44	a) xdm 'work' ar n	s:xdm	t:uxdm
	b) xd:m	s:xdam	t:uxdam
	c) lxdmt		
	d) axd:am		
		a) msxdam	
		b) t:msxdam	
45	a)zdm 'collect wood' t		
	b) zd:m		
	c) azdam		
	d) azd:am		
46	a)ϙbr 'measure, weigh' ar t		t:uϙbr
	b) t:ϙbar		t:uϙbar
	c) lϙbar		
	d) aϙb:ar ; * f		
	e) lϙbra (-t) (instr.)		
47	a)ϙm:r 'fill' ar t	mϙm:ar	
	b) t:ϙm:ar	t:mϙm:ar	
	c) aϙm:r		

48	a) $\gamma$ l:f 'wrap' ar t		t:u $\gamma$ l:f
	b) t: $\gamma$ l:af		t:u $\gamma$ l:af
	c) a $\gamma$ l:f		

2. || aBØD||                      amØz → amz

49	a) agm 'bring water from a well' t			
	b) t:agm			
50	a) amn 'believe' ar n		myaman	
	b) t:amn		t:myaman	
51	a) amr 'order' ar i			
	b) t:amr			
	c) lamr (lamur)			
52	a) amz 'take' t		myamaz	t:uyumz
	b) t:amz		t:myamaz	t:uyamaz
	c) umuz ~ umz ~ imz			
53	a) asy 'carry' t	s:isy	myasay	t:uyusy
	b) t:asy	s:asay	t:myasay	t:uyasay
	c) isy			

54	a) awḍ 'reach'	n	s:iwḍ	myawḍ
	b) t:awḍ		s:awḍ	t:myawḍ
55	a) awy 'take away'	t	s:iwy	myaway
	b) t:awy		s:away	t:myaway

3. ||OB:ØD ||

Of:Ør → f:r

56	a) b:y 'cut'	t		myab:ay
	b) t:b:y			t:myab:ay
	c) ubuy			
57	a) f:r 'hide'	t		myaf:ar
	b) t:f:r			t:myaf:ar
	c) tufra			
58	a) f:γ 'go out'	i	s:ufγ	
	b) t:f:γ		s:ufuy	
	c) ufuy			
59	a) k:r 'get up'	i		
	b) t:k:r			

60	a) z:y 'milk'	t		
	b) t:z:y			
61	a) z:ε 'dismiss'	t	myaz:aε	t:uz:ε
	b) t:z:ε		t:myaz:aε	t:uyaz:aε

## ii. ∅:1/a

1.  $\begin{matrix} \|aB \ \emptyset(D)\| \\ [+Met] \quad [+Met] \end{matrix}$
2.  $\begin{matrix} \|(A)B(:)\emptyset\| \\ [+Met] \end{matrix}$
3.  $\begin{matrix} \|(A(:) )B(:)\emptyset V\| \\ [+diff] \end{matrix}$

$$1. \left\{ \begin{array}{l} \|aB \ \emptyset\| \\ [-Met] \quad [-Met] \\ \|aB \ \emptyset D\| \\ [-Met] \quad [+Met] \\ \|aB \ \emptyset D\| \\ [+Met] \quad [+Met] \end{array} \right.$$

af∅ → af

aš:Ok → aš:k∅ → aš:k

ar∅r → rar∅ → rar

62	a) af 'find'	t	myafa	t:uyufa
	b) t:afa		t:myafa	t:uyafa
63	a) aš:k 'be lost'	i	myaš:ka	
	b) t:aš:ka		t:myaš:ka	
	c) uš:ki			

64	a) rar 'return, give back'	n	mrara	
	b) t:rara		t:mrara	
	c) tararit:			

2.	$\left\{ \begin{array}{l} \parallel \text{OB}(:) \emptyset \parallel \\ \quad \quad \quad [-\text{Met}] \\ \parallel \text{AB}(:) \emptyset \parallel \\ \quad \quad \quad [-\text{Met}] \\ \parallel \text{AB} \emptyset \parallel \\ \quad \quad \quad [+ \text{Met}] \end{array} \right\}$	$\text{Og}\emptyset \longrightarrow \text{g}$ , $\text{Og}:\emptyset \longrightarrow \text{g}:\emptyset$
		$\text{ls}\emptyset \longrightarrow \text{ls}$ , $\text{bd}:\emptyset \longrightarrow \text{bd}:$
		$\text{g}\emptyset\text{r} \longrightarrow \text{gr}$

65	a) bd: 'stand up'	i	sbd:	
	b) t:bd:a		sbd:a	
	c) ibd:i			
66	a) g 'be, do'	n	myag:a	
	b) t:g:a		t:myag:a	
67	a) gr 'throw away'	t	m:gar	
	b) g:ar		t:m:gar	
	c) ta <sub>g</sub> uri			
68	a) g: 'knead'	t		
	b) t:g:a			
	c) tig:it			

69	a) k: 'pass, visit' t	s:ik:		
	b) t:k:a	s:ak:a		
	c) tik:it		a) msak:a	
			b) t:msak:a	
70	a) ls 'get dressed' t	s:ls		t:ulsa
	b) ls:a	s:lsa		t:ulsa
	c) mlsiwt			

3. { || OB:Øu ||  
|| A(:)BØu ||  
|| AB:Øu ||  
|| iBØi || }

Od:Øu → d:u

g:rØu → g:ru, šmØu → šmu

ɛd:Øu → ɛd:u

irØi → iri

71	a) d:u 'go' i	s:udu		
	b) t:d:u	s:udu		
	c) tawada (tiwadiwin)			

72	a) g:ru 'be last' i	sg:ru	
	b) t:g:ru	sg:ru	
	c)		
	d) ang:aru (ing:ura) tang:arut: (ting:ura)		a) msg:ru* b) t:msg:ru
73	a) šmu 'smoke' ma t	š:mu	
	b) t:šm:u ~ šm:u	š:mu	
	c) lšmiyt		
	d) ašm:ay ; * f		
74	a) ṣd:u 'abound' ar i	ṣd:u	
	b) t:ṣd:u	ṣd:u	
75	a) ili 'exist, be' i		
	b) t:ili		
76	a) ini 'say' t		myini
	b) t:ini		t:myini
77	a) iri 'want' n		myiri
	b) t:iri		t:myiri
	c) tayri		

\* 'agree'

List of Verbs (Ayt Ayache)A. Unablauted

A.i.1. fa, šk:a, štk:a, dawa, fuk:a

1.	dawa	'cure'	ar	t
2.	ḍr:a	'do harm'	ar	t
3.	fa	'yawn'		i
4.	fafa	'wake up'		i
5.	fḍ:a	'finish'	ar	t
6.	fuk:a	'undo, get someone out of trouble'	ar	t
7.	hn:a	'be peaceful'	ar	i
8.	hr:a	'tickle'	ma	t
9.	ḥada	'touch'		t
10.	ḥd:a	'end'	ar	i
11.	ḥn:a	'pity'	ar	i
12.	ḥš:a	'cut grass'	ar	t
13.	q:la	'fry'	ar	t
14.	qr:a	'confess'	ar	i
15.	raṣa	'look at'	ar	t
16.	rḥ:a	'educate'	ar	t
17.	sqsa	'ask'	ar	t
18.	šk:a	'doubt'	ar	i
19.	štk:a	'complain'	ar	i
20.	šq:a	'disturb'		t

21.	wala	'be near'	t
22.	warya	'dream'	t
23.	wš:a	'advise'	ar t
24.	xš:a	'be necessary'	ar i
25.	ƣf:a	'be disgusted'	ar t
26.	ƣl:a	'ascend'	ar t
27.	ƣz:a	'console'	ar t
28.	ƣr:a	'tempt'	ar t
29.	ƣš:a	'cheat'	ar t

## A.i.2           sal, šib, ƣum

30.	ƣur	'turn'	ar i
31.	ħuf	'jump on'	i
32.	k:us	'inherit'	t
33.	lum	'blame'	ar t
34.	mun	'accompany'	i
35.	n:ar	'fight'	i
36.	q:is	'tell stories'	ar t
37.	sal	'ask'	ar t
38.	sul	'remain'	i
39.	sus	'shake off'	t
40.	šud	'blow'	t
41.	šal	'buy grain'	ar t
42.	šib	'become white-haired'	ar i

43.	š:ar	'share'	t
44.	zur	'be fat'	i
45.	zur	'visit holy places'	ar t
46.	sum	'swim'	ar i
47.	ʔal	'think'	i
48.	ʔus	'be burnt'	i

A.1.3. xtar, slil, gzul

49.	an:ay	'see'	t
50.	arid	'be washed'	i
51.	ažum	'fast'	ar t
52.	aʔul	'go back'	i
53.	bxin	'be black'	i
54.	drus	'be little in quantity'	i
55.	fsus	'be light'	i
56.	gzul	'be short'	i
57.	izil	'be nice'	i
58.	iʔiy	'be able'	i
59.	lwiʔ	'be tender'	i
60.	mziy	'be small'	i
61.	mʔur	'grow up'	i
62.	sdid	'be thin'	i
63.	slil	'rinse'	t

64.	smun	'collect'	t
65.	smid	'be cold'	i
66.	šdin	'be short'	i
67.	ṭšar	'make dirty'	t
68.	wraγ	'be yellow'	i
69.	wsir	'be old'	i
70.	xṭar	'choose'	ar t
71.	zwar	'to precede'	t
72.	zwiγ	'be red'	i
73.	γzif	'be tall'	i

## A.ii.           hadr, d:irz, hudr

74.	d:irz	'step back'	i
75.	d:uk:l	'make friends'	t
76.	d:iqs	'burst out'	i
77.	ḥadr	'be present'	ar i
78.	ḥafḍ	'keep'	ar i
79.	ḥarḷ	'forbid'	t
80.	ḥarṣ	'prevent'	ar t
81.	ḥasb	'count'	ar t
82.	ḥawl	'take one's time doing something'	ma i
83.	ḥudr	'bend, be low'	i

84.	kašf	'foretell'	ar	i
85.	q:abl	'take care of'		t
86.	safr	'travel'	ar	i
87.	samḥ	'forgive'	ar	i
88.	saʕd	'help'	ar	t
89.	saʕf	'be patient'	ma	t
90.	s:udm	'kiss'		t
91.	s:ufs	'spit'		n
92.	s:uk:f	'uproot'		t
93.	s:urf	'stride over'		t
94.	šawr	'consult'	ar	t
95.	ṭalb	'demand, apply'	ar	t
96.	walf	'get accustomed'	ar	t
97.	wažb	'answer'	ar	n
98.	xabr	'inform'	ar	t
99.	xadr	'risk'	ar	i
100.	xašm	'quarrel'	ar	i
101.	xatr	'be old'		i
102.	xulf	'differ'	ar	i
103.	zawg:	'ask protection'	ma	i
104.	zayd	'add'	ar	t
105.	zuz:r	'winnow'		t
106.	ṣawḍ	'throw away'		t
107.	ṣ:uʔr	'drag'		t

108.	žahd	'compete with'	ma	t
109.	žawb	'answer'	ar	n
110.	žawr	'be neighbor'	ar	t
111.	ʿaḍ:r	'meet'		i
112.	ʿawd	'repeat'	ar	n
113.	ʿawn	'help'	ar	n
114.	ʿayd	'go back'	ar	i
115.	γawl	'hurry up'		i

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B. Ablauted

B.i.1. frh, fs:r

116.	bdr	'mention'		t
117.	bd:l	'change'	ar	t
118.	bḥ:t	'investigate'	ar	t
119.	bl:γ	'deliver'	ar	t
120.	bry	'grind'		t
121.	br:h	'announce'	ma	i
122.	br:m	'turn'	ar	t
123.	bš:r	'give good news'	ar	i
124.	bx:r	'burn incense, do harm'	ar	i
125.	bzy	'be wet, proud'		i
126.	bʿd	'be far'	ar	i

127.	bṛḍ	'hate'	ar	i
128.	dbṛ	'dye'	ar	t
129.	db:r	'manage'	ar	i
130.	dhn	'rub ointment'	ar	t
131.	dhš	'faint, become dizzy'	ar	i
132.	dlš	'massage'	ar	t
133.	dw:x	'become dizzy'	ar	t
134.	ḍhr	'appear'	ar	i
135.	ḍlm	'oppress'	ar	t
136.	ḍl:ʕ	'flatten bread'		t
137.	ḍmn	'guarantee'	ar	t
138.	ḍr:ʕ	'scream'		i
139.	ḍʕf	'be weak'	ar	i
140.	ḍʕn	'stab'	ar	t
141.	ḍʕṣ	'lie down'		t
142.	fḍh	'reveal a secret'	ar	t
143.	fḍr	'take lunch'	ar	i
144.	fhm	'understand'	ar	t
145.	flḥ	'succeed'	ar	i
146.	fly	'tear'		t
147.	fl:h	'to live on agriculture'	ar	i
148.	frḍ	'sweep'		t
149.	frḥ	'be happy'	ar	i

150.	frs	'attack'	ar	t
151.	fry	'build a fence'		t
152.	fṛy	'be crooked'	ar	i
153.	fr:d	'change money'	ar	t
154.	fr:n	'weed'		t
155.	fr:z	'clarify'	ar	t
156.	fr:ž	'look at'	ar	i
157.	fr:γ	'pour'	ar	i
158.	fṛ	'break open'		t
159.	fsd	'be spoiled'	ar	i
160.	fsr	'spread'		t
161.	fsy	'melt'		t
162.	fs:r	'explain'	ar	t
163.	ftl	'roll'	ar	t
164.	gmr	'hunt'		i
165.	gz:r	'butcher'	ar	t
166.	hbl	'become silly'	ar	i
167.	hdm	'demolish'	ar	t
168.	hw:l	'trouble'	ar	t
169.	hžm	'attack'	ar	i
170.	ḥbs	'imprison'	ar	t
171.	ḥl:q	'dress up'	ma	t
172.	ḥl:s	'saddle'		t
173.	ḥml	'flood'	ma	i

174.	ħm:m	'bathe'	ar	i
175.	ħr:f	'carry'		t
176.	ħr:š	'shake, move something'	ar	t
177.	ħrm	'be forbidden'	ar	i
178.	ħrš	'be sharp'	ar	i
179.	ħšm	'govern, judge'	ar	i
180.	ħš:m	'be polite'	ar	i
181.	ħz:m	'wear a belt'	ar	i
182.	kmz	'scratch'		t
183.	krz	'plough'		t
184.	lšb	'play'	ar	t
185.	mdy	'set a trap'		t
186.	mgr	'harvest'		t
187.	mry	'rub'		t
188.	ndm	'regret'	ar	i
189.	ndr	'moan'		i
190.	nđl	'bury'		t
191.	nfd	'throw'	ar	t
192.	nfh	'sniff tobacco'	ar	t
193.	nq:l	'transplant'	ar	t
194.	nq:r	'shake off'	ar	t
195.	nq:z	'jump'	ma	i
196.	nšb	'make stew'	ma	i

197.	nṣḍ	'blow one's nose		t
198.	nšr	'saw'	ar	t
199.	ntf	'depilate'	ar	t
200.	ntl	'hide'		i
201.	nzl	'spur'		t
202.	nzy	'pull'	ar	t
203.	nžm	'escape'	ar	i
204.	nžr	'sharpen'	ar	t
205.	nɿl	'curse'	ar	t
206.	qdr	'be able'	ar	i
207.	qḍɿ	'register a marriage'	ar	i
208.	ql:b	'check'	ar	t
209.	ql:q	'be worried'	ar	i
210.	qr:b	'be near'	ar	i
211.	qr:r	'decide'	ar	i
212.	qr:š	'bite'	ar	t
213.	qsh	'be solid, strong'	ma	i
214.	qṣd	'intend, go toward'	ar	t
215.	qm:r	'gamble'	ar	i
216.	rbh	'succeed, gain'	ar	t
217.	rdm	'demolish'	ar	t
218.	rdl	'loan'		t

219.	rgl	'close,lock'	t
220.	rgm	'insult'	ar t
221.	rh1	'move'	ar i
222.	rh <sub>h</sub> m	'have mercy on'	ar t
223.	rkm	'boil'	i
224.	rkz	'tread'	i
225.	rzm	'open'	t
226.	rzn	'be patient'	ar i
227.	rzm	'throw stones at'	ar t
228.	r <sub>h</sub> b	'be amazed at'	ar i
229.	sb:b	'trade'	ma i
230.	sh:r	'perform magic'	ar i
231.	sl:k	'give a reasonable price'	ar t
232.	sl:m	'greet'	ar i
233.	sn:d	'lean against'	ar i
234.	srn	'peel, have diarrhea'	t
235.	sr:h	'liberate'	ar t
236.	sty	'filter'	t
237.	sh <sub>h</sub> r	'be patient, wait'	ar i
238.	sh <sub>h</sub> d	'wipe'	t
239.	sm:r	'nail'	ar t

240.	šrf	'spend money'	ar	t
241.	šr:f	'change money'	ar	t
242.	šrd	'swallow'		t
243.	šxd	'curse'	ar	i
244.	šy:d	'hunt'	ar	t
245.	šy:f	'harvest summer crops'	ar	i
246.	šb:r	'cling to'		i
247.	šf:r	'steal'	ma	t
248.	šk:m	'denounce'	ma	i
249.	škr	'praise'	ar	t
250.	šm:l	'finish'	ar	t
251.	šm:t	'cheat'		t
252.	šnf	'roast'		t
253.	šnʿ	'be prevalent'	ma	i
254.	šrf	'tie'		t
255.	šrm	'shrivel up'		i
256.	šrd	'comb, stipulate'	ar	t
257.	šrh	'envy'	ar	t
258.	šty	'recall'		t
259.	šth	'dance'	ma	i
260.	št:b	'sweep'	ma	t
261.	tfš	'fold'		t
262.	trz	'embroider'	ar	t

263.	whl	'get tired'	ar	i
264.	wk:l	'appoint as representative'	ar	t
265.	wq:r	'respect'	ar	t
266.	ws:x	'make dirty'	ar	t
267.	wx:r	'go back'	ar	i
268.	wzn	'weigh'	ar	t
269.	wžd	'be ready'	ar	i
270.	wɛr	'be hard'	ar	i
271.	xdm	'work'	ar	n
272.	xds	'deceive'	ar	t
273.	xl:s	'pay for'	ar	t
274.	xmž	'smell bad'	ma	i
275.	xm:m	'think, worry'	ar	i
276.	xr:f	'harvest fall crops'	ma	t
277.	xsr	'fail, be spoilt'	ar	i
278.	xw:n	'steal'	ar	t
279.	xzn	'store,hide'	ar	t
280.	zdm	'collect wood'		t
281.	zdr	'sink'		i
282.	zdy	'dwell'		t
283.	zgl	'miss'		t
284.	zrb	'hurry'		i
285.	zry	'leave,pass'		t

286.	zrɔ	'sow'	ar	t
287.	zw:q	'color'	ar	t
288.	zɔf	'get mad'	ma	i
289.	žbr	'come back'	ar	i
290.	žhd	'be strong'	ar	i
291.	žrh	'injure'	ar	t
292.	ɔbd	'worship, adore'	ar	t
293.	ɔbr	'measure, weigh'	ar	t
294.	ɔdl	'repair'	ar	t
295.	ɔd:b	'torture'	ar	t
296.	ɔm:r	'fill'	ar	t
297.	ɔnq	'try hard without success'	ma	t
298.	ɔq:d	'tie, start a fire'	ar	t
299.	ɔq:l	'remember'	ar	t
300.	ɔrd	'invite'		t
301.	ɔrm	'know of something'		i
302.	ɔs:s	'guard'	ar	n
303.	ɔšq	'love'	ar	t
304.	ɔt:r	'be late'	ar	i
305.	ɣly	'pass over'		i
306.	ɣml	'become rotten'	ma	i
307.	ɣms	'cover'		i

Reference Grammar	Tamazight	The Verb
308. yns	'wear'	t
309. yrd	'stretch leg'	t
310. yrf	'to flatten bread'	t
311. yrm	'indemnify'	ar t
312. yrs	'slaughter'	i
313. yry	'abort'	i
314. yfr	'forgive'	ar t
315. yl:f	'wrap'	ar t

B.i.2. amz

316. adr	'bury'	i
317. afd	'be sent'	i
318. agl	'hang'	t
319. agm	'bring water from a well'	t
320. akz	'recognize'	t
321. aly	'climb'	t
322. amn	'believe'	ar n
323. amr	'order'	ar i
324. ams	'paint'	t
325. amz	'take'	t
326. anf	'open'	t
327. arf	'pop popcorn'	t
328. arm	'taste'	t

329.	arw	'give birth'	t
330.	asy	'carry'	t
331.	ašr	'steal'	t
332.	ašy	'be aware'	i
333.	awḍ	'reach'	n
334.	awl	'get married'	t
335.	awy	'take away'	t
336.	azn	'send'	t
337.	azḍ	'stretch hand'	t

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**B.1.3.**      f:r

338.	b:y	'cut'	t
339.	ḍ:ḍ	'suckle'	t
340.	f:r	'hide'	t
341.	f:γ	'go out'	i
342.	g:d	'be frightened'	i
343.	g:z	'descend'	t
344.	k:r	'get up'	i
345.	k:s	'take out'	t
346.	l:m	'spin'	t
347.	l:γ	'lick'	t
348.	m:γ	'get wet'	i
349.	n:ḍ	'stick'	i
350.	q:d	'burn'	t

351.	q:l	'wait'	i
352.	q:n	'shut'	t
353.	q:s	'prick'	t
354.	t:l	'roll'	t
355.	t:r	'ask'	t
356.	ṭ:f	'keep'	t
357.	z:r	'depilate'	t
358.	z:y	'milk'	t
359.	z:ʕ	'dismiss'	t
360.	ž:y	'recover from an illness'	t

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B.ii.1.      af, aš:k, rar

361.	adž	'let'	t
362.	af	'find'	t
363.	ar	'be empty, empty'	i
364.	as:	'tie, bind'	t
365.	aš:k	'be lost'	i
366.	az:l	'run'	i
367.	g:al:	'swear'	i
368.	lal	'be born'	i
369.	rar	'return, give back'	n
370.	z:al:	'pray'	ar    t

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## B.ii.2. g, g:, ls, bd:, gr

371.	bd:	'stand up'	i
372.	fz:	'chew'	t
373.	g	'be, do'	n
374.	gm	'grow'	i
375.	gn	'sleep'	i
376.	gr	'throw away'	t
377.	g:	'knead'	t
378.	ks	'tend sheep or cattle'	t
379.	k:	'pass, visit'	t
380.	ls	'get dressed'	t
381.	ns	'spend the night'	i
382.	nz	'be for sale'	i
383.	ny	'kill'	t
384.	rz	'break'	t
385.	ry	'warm oneself'	i
386.	sl:	'hear'	i
387.	sy	'buy'	t
388.	š	'give'	i
389.	šl	'spend a day'	i
390.	ts	'laugh'	i
391.	zl	'lose'	t
392.	zd	'grind'	t

393.	ẓḍ	'weave'		t
394.	ʕz:	'be dear'	ar	i
395.	ʕṛ	'read, call out'		n
396.	ʕz	'dig'		t
397.	ʕz:	'crunch'		t

B.ii.3      d:u, g:ru, bdu, ʕd:u, iri

398.	bdu	'begin'	ar	t
399.	ḅdu	'cut, share'		t
400.	bnu	'build'	ar	t
401.	ḍʕu	'pray for, prosecute'	ar	i
402.	d:u	'go'		i
403.	fru	'pay debts'		t
404.	ftu	'dictate'	ar	t
405.	f:u	'dawn'		i
406.	gnu	'sew'		t
407.	g:ru	'be last'		i
408.	hdu	'give a present'	ar	t
409.	ḥdu	'watch over'		t
410.	ḥfu	'be, become dull'	ma	i
411.	ḥlu	'be nice'	ar	i

412.	ħmu	'be hot weather'	ar	i
413.	ħr:u	'be hot (food)'	ar	i
414.	k:u	'cut grass'		t
415.	mħu	'erase'	ar	t
416.	qđu	'accomplish'	ar	t
417.	qwu	'be fat'	ar	i
418.	rđu	'bless'	ar	i
419.	rşu	'be quiet'	ar	i
420.	rřu	'be dirty'	ma	i
421.	rzu	'look for'		t
422.	ržu	'hope'	ar	t
423.	r:u	'win'		t
424.	sxu	'be generous'	ar	i
425.	s:u	'make the bed'		t
426.	şfu	'be clean, clear'	ar	i
427.	şħu	'be healthy'	ar	i
428.	şđu	'smell'		t
429.	řmu	'smoke'	ma	t
430.	řnu	'kneel'	ar	i
431.	řru	'rent'	ar	t
432.	řwu	'be sharp'		i
433.	xlu	'ruin'	ar	n
434.	xwu	'be empty'	ar	n

435.	x:u	'be mean'		i
436.	zwu	'be dry'	ar	i
437.	ẓ:u	'plant'		t
438.	žru	'happen'	ar	i
439.	ʕd:u	'abound'	ar	i
440.	ʕfu	'forgive'	ar	i
441.	ʕmu	'be blind'	ar	n
442.	ʕnu	'undergo'	ar	t
443.	ʕṣu	'disobey'	ar	t
444.	ɣbu	'be deep'		i
445.	ɣlu	'be expensive'	ar	i
446.	ɣmu	'paint'		t
447.	ɣnu	'be rich'	ar	i
448.	ili	'exist, be'		i
449.	ini	'say'		t
450.	iri	'want'		n

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## Verb Sample Appendix B (Ayt Seghrouchen)

	Unaugmented	Augmented		
		Causative	Reciprocal	Passive
1	a) safr 'travel' ar i b) t:safar c) s:frt d) amsafr			
2	a) sal 'ask' ar n b) t:sal		m:sal t:m:sal	t:usal t:usal
3	a) samḥ 'forgive' ar i b) t:samaḥ c) lmu samaḥa		msamaḥ t:msamaḥ	
4	a) sawm 'ask for ar t the price' b) t:sawan			
5	a) tṛžm 'translate ar t b) t:tṛžam c) atṛžm	s:tṛžm s:tṛžam		

6	a)	t:u	'forget'	i	s:t:u	
	b)	t:t:u			s:t:u	
7	a)	wǝd	'be ready'	ar i	s:uǝd	
	b)	t:uǝid			s:uǝid	
	c)					
	d)	muǝud				
8	a)	zrbš	'scratch'	ar i	s:xrbš	
	b)	t:xrbaš			s:xrbaš	
9	a)	z:ⵝ	'chase'	t		t:waz:ⵝ
	b)	t:z:ⵝ				t:waz:ⵝ
10	a)	žn	'sleep'	i	s:žn	
	b)	džan			s:žan	
11	a)	ⵝfu	'forgive'	ar i		
	b)	ⵝf:u				
	c)	lⵝfu				
12	a)	ⵝma	'be blind or blind'	ar n		m:ⵝma
	b)	t:iⵝma				t:mⵝma
	c)	lⵝma				
13	a)	γba	'lie deep'	ar i	s:γba	
	b)	t:iγba			s:γba	

14	a) γm	'dye'	t		
	b) γm:				
15	a) γz:	'crunch'	t	m:γz:	t:uγz:
	b) t:γz:			t:mγz:a	t:uγz:a

## Sentences

This section lists examples of the different structures of Tamazight. The examples consist of 157 pairs of sentences. When a certain structure or sub-structure is discussed, it is usually followed by one or more pairs of sentences to exemplify the occurrence of such structure. The first member of each pair of sentences is from Ayt Ayache, the second from Ayt Seghrouchen.

## Sentences

## Introduction

The discussion of sentences in Tamazight includes

- A. The Verbless Sentence
- B. The Verbal Sentence.

Each of these two types of structure can have any of the following modes:

- 1. Affirmative
- 2. Interrogative
- 3. Negative
- 4. Negative-Interrogative

The structures mentioned above (A.1 - A.4 and B.1 - B.4) as well as Imperative structures which are grouped under C, will be found in the following examples. The examples include 157 pairs of sentences from the two dialects (i.e. 157 from Ayt Ayache and 157 from Ayt Seghrouchen). When examples of a certain structure or sub-structure are cited, usually one or more pairs of sentences follow a short discussion. The first sentence in each given pair is in the dialect of Ayt Ayache, the second is in the Ayt Seghrouchen dialect.

A.1 Verbless: Affirmative

Examples of such sentences are:

- 1. (A.A.) isminw muḥa .
- (A.S.) isminw muḥa .

My name is Mohamed.

2. (A.A.) ləm<sup>ɾ</sup>rinw tlatin ɛam .  
 (A.S.) ləm<sup>ɾ</sup>rinw tlatin ɛam .

I am 30 years old.

A Verbless Affirmative structure may occur with /ɣur/ A.A. or /ɣr/ A.S. 'particle of possession.' Examples:

3. (A.A.) ɣur<sup>s</sup> yut trbat: .  
 (A.S.) ɣrs išt ntrbat: .

He has a girl.

4. (A.A.) ɣur<sup>i</sup> r̄bɛa ntfunasin .  
 (A.S.) ɣri r̄bɛa ntfunasin .

I have four cows.

or structures having the 'presentational particles' /ha/, /han/ A.A., /ha/, /han:/ A.S. Examples:

5. (A.A.) ha n:ɛnaɛ .  
 (A.S.) ha n:ɛnaɛ .

Here is the mint.

6. (A.A.) han ataynš .  
 (A.S.) han: at:ayn:š .

Here is your tea.

or with the help of /d/, 'particle of assertion.' Examples:

7. (A.A.) muḥa dargaz nimru waḥd .  
 (A.S.) muḥa daryaz n:imirwaḥd .

Mohamed is in fact an excellent man.

8. (A.A.) lhusayn dargaz .  
 (A.S.) lhusayn daryaz .

Lahoucine is indeed a man.

or as a greeting or a response to a greeting. Examples:

9. (A.A.) s:alamuḥlik:um .  
 (A.S.) s:alamuḥlik:um .

Hello. (to a man by a man)

10. (A.A.) ṣbah lxir amuḥa .  
 (A.S.) ṣbah lxir amuḥa .

Good morning, Mohamed.

#### A.2 Verbless: Interrogative

Such sentences may occur in structures similar to the above with an interrogative tone to them. Examples:

11. (A.A.) lwaṣun labas ?  
 (A.S.) lwaṣun labas ?

How is the family?

12. (A.A.)  $\gamma$ urs sbca iřir:an ?

(A.S.)  $\gamma$ rs sbca l:wařun ?

Does he have seven children?

13. (A.A.) řg: dmi ?

(A.S.) wak:d řk: ?

You (ms) and who else?

or with the interrogative particle /is/ before such structures as the following:

14. (A.A.) is  $\gamma$ urř řal lwařun ?

(A.S.) is  $\gamma$ rř řal lwařun ?

Do you have children?

They also occur with question words. Examples:

15. (A.A.) mismř ?

(A.S.) mism:ř ?

What is your name (ms) ?

16. (A.A.) řhal  $\gamma$ l $\circ$ mrnř ?

(A.S.) mřhal il $\circ$ mrn:ř ?

How old are you (ms) ?

17. (A.A.) šhal taqb:ut:a ?  
 (A.S.) mšhal itqb:ut:u ? ~ mšhal taqb:ut:u ?

How much is this djellaba?

18. (A.A.) mani muha ?  
 (A.S.) mani muha ?

Where is Mohamed?

### A.3 Verbless: Negative

These structures occur with /ur-/ 'negative particle' in A.A. and A.S. or /urid:-/ 'It's not' in A.A. and A.S. Examples:

19. (A.A.) urɣuri lflus .  
 (A.S.) urɣri lflus .

I have no money.

20. (A.A.) urid: am: wa .  
 (A.S.) ulid: am wu .

It is not like this (ms).

21. (A.A.) urid: hm:u .  
 (A.S.) ulid: hm:u .

It's not Hammou.

22. (A.A.) urid: nt:a .

(A.S.) ulid: nt:a .

It's not him.

23. (A.A.) urid: šg: .

(A.S.) ulid: šk: .

It's not you.

#### A.4 Verbless: Negative - Interrogative

Such structures are achieved with the use of /isur-/  
Negative - Interrogative particle in both dialects. Examples:

24. (A.A.) isur γurs lflus ?

(A.S.) is urγrs lflus ?

Doesn't he have money?

25. (A.A.) isurid: ḥšuma γifš ?

(A.S.) isulid: ḥšuma xš ?

Aren't you (ms) ashamed?

26. (A.A.) isurid: nt:a ?

(A.S.) isulid: nt:a ?

Isn't that he?

27. (A.A.) isurid: taqduhtns ayn:a ?  
 (A.S.) isulid: taq:nuštɛn:s adin ?

Isn't it his pot over there?

B.1 Verbal: Affirmative

B.1.1 Sentences having one verb. Examples:

28. (A.A.) tl:a da .  
 (A.S.) tl:a da .

She is here.

29. (A.A.) tl:a ytxamt .  
 (A.S.) tl:a ytxant .

It (f) is in the tent.

30. (A.A.) td:u ɣr txamt .  
 (A.S.) traḥ ɣr txamt .

She went to the tent.

31. (A.A.) q:imm yfas .  
 (A.S.) q:imm dy fas

They stayed in Fez.

32. (A.A.) dayxd:m muḥa yr:baḍ .

(A.S.) l:ayxd:m muḥa yr:baḍ .

Mohamed works in Rabat.

33. (A.A.) ha muḥa id:ad .

(A.S.) ha muḥa irahd: .

Here comes Mohamed.

34. (A.A.) išas ʿli lflus imuḥa .

(A.S.) yušas ʿli lflus imuḥa .

Aly gave Muha money.

35. (A.A.) iwḍnn: ʿari axatar .

(A.S.) iwḍnn: lʿri amq:ran .

They reached (there) the high mountain.

36. (A.A.) dat:lʿabn lwašun k:u sbaḥ .

(A.S.) l:at:lʿ:abn lwašun kul: s:baḥ .

The kids play every morning.

37. (A.A.) imun muḥa dfaḍma saḥidus .

(A.S.) imun muḥa dfaḍma yruḥidus .

Mohamed and Fatma went to the dance.

38. (A.A.) adid:u γr tad:artns .  
 (A.S.) adirah γr tad:artn:s .

He will go home.

Notice that the word order of sentences consisting only of a verb and its subject is preferably:

Verb + Subject [in Construct State]

but sometimes can be:

Subject [in Free State] + Verb

Compare members of the following pairs:

39. (A.A.) if:γ umaziγ .  
 (A.S.) if:γ umaziγ .

The Berber went out.

and

40. (A.A.) amaziγ if:γ .  
 (A.S.) amaziγ if:γ .

The Berber went out.

41. (A.A.) iswa urgaz atay .  
 (A.S.) iswu uryaz at:ay .

The man drank tea.

and

42. (A.A.) argaz iswa atay .  
 (A.S.) aryaz iswu at:ay .

The man drank tea.

43. (A.A.) zriγ argaz t:md:ut: .  
 (A.S.) zrix aryaz t:mt:ut: .

I saw the man and the woman.

and

44. (A.A.) zriγ tamd:uṭ: durgaz .  
 (A.S.) zrix tamṭ:ut: duryaz .

I saw the woman and the man.

45. (A.A.) ttša tafunast duyyul .  
 (A.S.) ttšu tafunast duyyul .

It (f) ate the cow and the donkey.

and

46. (A.A.) itša uyyul t:funast .  
 (A.S.) itšu uyyul t:funast .

The donkey and the cow ate.

If any of the moveable affixes (i.e. object pronominal affixes or particles of proximity, /d/ in A.A. and /d:/ in A.S., and remoteness, /n/ in A.A. and /n:/ in A.S.) occur, they are post verbal if the sentence does not have any temporal or modal prefixes, prepositions or conjunctions, and pre-verbal if any of the above elements does occur in the sentence. (See Pronominal Systems III.3.)

Examples:

47. (A.A.) iṣat:id .  
 (A.S.) yuṣast:d: .

He gave it (f) to him (nearer).

48. (A.A.) iṣastid .  
 (A.S.) yuṣastid .

He gave it (m) to him (nearer).

49. (A.A.) iṣṣfastid .  
 (A.S.) iṣṣfastid .

He threw it (m) at him (nearer).

50. (A.A.) dastidit:awy .  
 (A.S.) l:astidit:awy .

He is bringing it (m) (nearer) to him.

51. (A.A.) yiwyastid .

(A.S.) yiwyastid .

He brought it (m) to him (nearer).

52. (A.A.) isɣad muħa xmsṭačš ntfunast .

(A.S.) isɣud: muħa xmsṭačš: ntfunast .

Mohamed bought fifteen cows (nearer).

53. (A.A.) tsɣad faɖma r̥bca yful:usn .

(A.S.) tsɣud: faɖma r̥bca y:aɣiɖn .

Fatma bought four chickens (nearer).

54. (A.A.) argaz n:a disɣan irdn aya .

(A.S.) aryaz din d:isɣin irdn ayu .

This is the man who bought wheat (nearer).

(Also see #73, 75, 81, 105, 106, 107, 108, and many others.)

The verb 'to be', /g/ in A.A. and /iž/ in A.S., occurs in many structures preceded by /ay/ 'who, which, what'.

Examples:

55. (A.A.) taxamt urgaz ay tga

(A.S.) taxant uryaz aytžu .

This is the man's tent.

56. (A.A.) iy:is ntslit ag:a .  
 (A.S.) yis ntslit: ag:ž u .

This is the bride's horse.

57. (A.A.) šg: bulhm:am ay tgid .  
 (A.S.) šk: bulhm:am ay tžit .

You are the public bath attendant.

58. (A.A.) ayt sy:aš taq:bilt taxatart ay tga .  
 (A.S.) ayt sy:aš taq:bilt tamq:rant ay tžu .

Ayt Ayache is a big tribe.

59. (A.A.) nk:ni inslm ay nga .  
 (A.S.) ntšni imslm ay nžu .

We are Moslems.

60. (A.A.) nk:ni tarwa nmulay dris ay nga .  
 (A.S.) ntšni dar:a nm:ulay dris ay nžu .

We are the offspring of Mulay Dris.

61. (A.A.) muha argaz izil: ag:a .  
 (A.S.) muha aryaz iɛdlɛn ag:ž u .

Mohamed is a nice man.

62. (A.A.) t:lawt izil: ayt tga .  
 (A.S.) t:lawt iɔdln ay tžu .

This is a nice song.

### B.1.2 Sentences having two verbs.

Expressing English 'to, in order to' is achieved by the use of two verbs where the second is in the future form.

Examples:

63. (A.A.) id:a adixdm .  
 (A.S.) irah adixdm .

He went to work.

64. (A.A.) id:a adign .  
 (A.S.) irah adižn .

He went to sleep.

65. (A.A.) d:an lahl l:ɣil ad:s:utr: tarbat: ilahlns .  
 (A.S.) rahh lahl w:rba ads:utrn tarbat: ilahlns: .

The boy's parents went to ask for the girl's hand from her parents.

66. (A.A.) ikžmd adisl:m xf ɣm:is .  
 (A.S.) yudfd: adisl:m xunuži .

He came in to greet his uncle (paternal).

67. (A.A.) riγ add: uγ γr s:uq: .  
 (A.S.) byix adrahx γr s:uq: .

I want to go to the market.

68. (A.A.) riγ aditrard γr tmazirtinw .  
 (A.S.) byix aditr:t γr tmurtinw .

I want you to take me back to my country.

69. (A.A.) tra at:d:u γr st:is .  
 (A.S.) tbya at:rah γr st:is .

She wants to go visit her aunt (paternal).

The use of conjunctions necessitates two verbs. Examples:

70. (A.A.) sd:an win:a days:an lq:hwa imalik:an .  
 (A.S.) g:utn idin is:n lq:hwa imarikan .

There are a lot of people who drink coffee in America.

71. (A.A.) nk:ni tarwa nmulay dris n:a yndln  
 yfas ay nga .  
 (A.S.) ntšni dar:a m:ulay dris udin indln  
 di fas aynžu .

We are the offspring of Mulay Dris who is buried  
 in Fez.

72. (A.A.) imyu:sən muħa dɔli yr:baɖ n:a  
yʒmɛn .

(A.S.) imyus:an muħa dɔli ir:baɖ dindi  
ʒmɛn .

Muha and Aly got acquainted in Rabat where they met.

73. (A.A.) art:mšawar: mimš ašt:g:an  
at:nɣin .

(A.S.) alt:mšawar:n mism asyažn  
at:nɣn .

They were consulting how to manage to kill him.

74. (A.A.) ad:ay nra ang atay dans:naw aman  
bɔda .

(A.S.) ad:ay nbɣa an:ž at:ay l:ans:naw aman  
bɔda .

When we want to make tea, we boil water first.

75. (A.A.) ad:ay yawɖ lɔil xf yiwl , dast:xt  
ayt uxams tarbat: n:as it:iʒibn .

(A.S.) ad:ay yawɖ urba ɣyiway , l:ast:xtarn  
ayt uxam:s tarbat: din asit:iʒibn .

When the boy reaches the age of marriage, his family chooses the girl he likes.

76. (A.A.) art:waryay am:i l:an sbca itran .  
 (A.S.) l:at:iržitx am:ani l:an sbca ytran .

I dreamt of seven stars.

77. (A.A.) art:waryay is l:an sbca yiyun .  
 (A.S.) l:at:iržitx is l:an sbca yfunasn .

I dreamt that there were seven oxen.

78. (A.A.) iyal is tga tamq:ut: iżil: .  
 (A.S.) in:a is tžu tamq:ut: iɛdln .

He thought that she was a nice woman.

79. (A.A.) l:iy t:isal xf immdi tn:as ur yuri  
 l:in .  
 (A.S.) zg:a t:isal ximmdi , tn:as uryri l:in .

When he asked her about wheat, she told him that she has none.

80. (A.A.) iq:im al:iy iwɥl .  
 (A.S.) iq:im azg:a yuɥl .

He stayed until he got tired.

81. (A.A.) d:an al:iy n:iwɥn ɛari axatar .  
 (A.S.) raɥn azg:a n:iwɥn lɛri amq:ran .

They went until they reached (far) the high mountain.

Conditional sentences have two verbs also and occur with the conditional particles:

mš (A.A., A.S.)	if (possible, probable)
mr (A.A., A.S.)	if (impossible, contrary to fact)
mšur (A.A., A.S.)	if not (possible)
mrid: (A.A.)	if not (impossible, contrary to fact)
mlid: (A.S.)	if not (impossible, contrary to fact)

Examples:

82. (A.A.) mš iwta wnzar urt:f:q: .  
 (A.S.) mš iwtu wnzar urt:f:x: .

If it rains I will not go out.

83. (A.A.) mš qbl: , dat:d:un adqḍen .  
 (A.S.) mš qbln , l:ag:um adqḍen .

If they agree, they go register the marriage.

84. (A.A.) mš trid at:g:anid al: ask:a .  
 (A.S.) mš tbyit at:ržit , al:utša\* .

If you want to wait, let it be tomorrow.

85. (A.A.) mš ḍhr: isignaw , adiwt unzar .  
 (A.S.) mš ḍhrn isinaw , adiwt unzar .

If clouds appear, it will rain.

\* al + dutša

86. (A.A.) mš šyaγ ša , td:ut at:an:ayt  
 adbib .  
 (A.S.) mš šyuy ša , traht at:zrt adbib.

If you are sick, go and see the doctor.

87. (A.A.) mš qbl: , dat:dun l'il t:rbat:  
 dlahlnsn γl lbiru adqđn .  
 (A.S.) mš qbln , l:ayg:ur urba t:rbat:  
 dlahln:sn γl lbiru adqđn .

If they agree, the boy and the girl and their parents go to register.

88. (A.A.) mšur astidiši adastis:utr .  
 (A.S.) mšur astidiwši adastis:utr .

If he does not give it (m) to him (nearer), he will ask him for it (m).

89. (A.A.) mšur did:i ask:a add:uy γr midlt .  
 (A.S.) mšur d:irah dutša adwaxdx midlt .

If he does not come tomorrow, I will go to Midelt.

90. (A.A.) mšur dtd:i fađma as:a , and:u  
 ad:γifsnk: ask:a imidlt .  
 (A.S.) mšurd:trah fađma iđu , an:rah  
 ad:xsnk: dutša imidlt .

If Fatma does not come (here) today, then we go and visit her (together) in Midelt tomorrow.

91. (A.A.) mr ɣuri l:in lflus idl:i , l:asɣiɣ  
igran nɛli .  
(A.S.) mr ɣri l:in lflus idn:at: , l:asɣix  
ižran nɛli .

If I had the money yesterday, I would have bought  
Aly's fields.

92. (A.A.) mr it:n:id adasiniɣ aditntidiš .  
(A.S.) mr it:n:it l:anixas aditntid:iwš .

Had you told me, I would have asked him to give them (f)  
to me.

93. (A.A.) mrid: isuridawa d:alb lɛil l:aym:ut .  
(A.S.) mlid: isuridawa t:alb arba l:aym:ut .

Had the Sheikh not cured the boy, he would have died.

94. (A.A.) mrid: istzɣriɣ idl:i , l:ašiyas lhžab .  
(A.S.) mlid: is tzɣrix idn:at: l:awšixas lhžab .

If I had seen him yesterday, I would have given him  
the amulet.

95. (A.A.) mrid: isurɣhim isignaw idl:i urik:at  
unzar as:a .  
(A.S.) mlid: isurɣhim isinaw idn:at: uritšat  
unzar iɗu .

Had clouds not appeared yesterday, rain would not  
have fallen today.

96. (A.A.) mrid: isurastidiši , adastis:utr .  
 (A.S.) mlid: isurastidiwši , adastis:utr .

Had he not given it (m) to him (nearer), he would have asked him for it (m).

97. (A.A.) mrid: ša yaḍn urt:it:awy sql: m  
 st:my:at ryal .  
 (A.S.) mlid: ḥd: ḍnin , urt:it:awy sql:  
 m st:my:at ryal .

If it were somebody else, I would not have sold it (f) for less than 600 Rials.

The use of Aorist in narration to denote a perfective, imperfective or future action (i.e. past, present or future) is exemplified in the following sentences.

98. (A.A.) iḍl:i id:a muḥa γr s:uq: isγ sk:r  
 day iṣayd: γr tad:art .  
 (A.S.) iḍn:at: irah muḥa γr s:uq: isγ sk:ar  
 day iṣid γr tad:art .

Yesterday, Moha went to the market, bought sugar, then came back home.

99. (A.A.) k:u s:bah ad:ay tk:r g:its dats:aya  
 lṣafit day ts:nw aman day tṣm:r atay  
 day tls iṣban: l:xdmt day td:u sigran .

(A.S.) kul: s:bah ad:ay tk:r zg:nud:m , l:at:saya  
 l'afit , day ts:nw aman , day t'm:r at:ay ,  
 day tird i'ban: l:xdnt day twa'd ižran .

Every morning when she wakes up, she makes a fire and boils water, then makes tea, then puts on work clothes and then goes to the fields.

100. (A.A.) ask:a adid:u γr s:uq adiz:nz immdi ,  
 isγ yut tqb:ut: , i'dl iduša day  
 i'ayd: γr tad:art .

(A.S.) dutša adirah γr s:uq: adiz:nz immdi  
 isγ išt ntqb:ut: , i'dl iduša day  
 i'sidd: γr tad:art .

Tomorrow he will go to the market to sell wheat, buy a djellaba, repair shoes, and then go back home.

## B.2 Verbal: Interrogative

This is achieved by the use of this interrogative particle /is-/ prefixed to a verb in the past (A.A. and A.S.) or the interrogative particle /id:-/ (A.A.) or /isd-/ (A.S.) prefixed to a verb in the future. Examples:

101. (A.A.) is ifrḥ muḥa ?  
 (A.S.) is ifrḥ muḥa ?

Is Mohamed happy?

102. (A.A.) is i'm:r s:uq: maduhu ?  
 (A.S.) is i'm:r s:uq:u mad ihi ?

Is the market full or not?

103. (A.A.) isdats:am atay ytmazirtn:un mad uhu ?  
 (A.S.) ists:m at:ay itmirtn:un mad ihi ?

Do you (mp) drink tea in your country or not?

104. (A.A.) id:adimɣawan muha dɣli ?  
 (A.S.) isdadimɣawan muha dɣli ?

Will Mohamed and Aly help each other?

Notice that the use of the particles mentioned above causes the moveable particles to be pre-verbal. Examples:

105. (A.A.) isastiγrf ?  
 (A.S.) isastiγrf ?

Did he throw it (m) at him?

106. (A.A.) isastidiša ?  
 (A.S.) isastidyušu ?

Did he give it (m) to him (nearer)?

107. (A.A.) isast:iša ?  
 (A.S.) isast:yušu ?

Did he give it (f) to him (nearer)?

108. (A.A.) isastidit:awy ?  
 (A.S.) isastidit:awy ?

Is he bringing it (m) to him (nearer)?

Two verbs might occur in such constructions. Examples:

109. (A.A.) *istrid at:dud γr s:uq: ?*  
 (A.S.) *is tbyit at:raht γr s:uq: ?*

Do you want to go to the market?

110. (A.A.) *isaš in:a adid:u ?*  
 (A.S.) *isaš in:a dad:irah ?*

Did he tell you that he will go?

111. (A.A.) *isd:an adq̄q̄n ?*  
 (A.S.) *israh̄n adq̄q̄n ?*

Did they go to register the marriage?

112. (A.A.) *id:ad:d:un adγifn̄k:n ?*  
 (A.S.) *isdad:rah̄n adix̄n̄k:n ?*

Will they come to visit us (nearer)?

The use of question words in interrogative sentences is exemplified by the following.

113. (A.A.) *maγr id:a ʿli ?*  
 (A.S.) *maniγr irah̄ ʿli ?*

Where did Aly go?

114. (A.A.) mag:a s:uq: as:a ?

(A.S.) mag:žu s:uq: iḍu ?

How is the market today?

115. (A.A.) may ɣurun did:an ?

(A.S.) wid: ɣrun iraḥ ?

Who came to your (mp) house?

Sentence #116 below shows that the moveable particle /-aš-/ 'to you' is preverbal in the environment of the question word /ma/ 'what':

116. (A.A.) maš tga s:aḥt ?

(A.S.) maš tžu s:aḥt ?

How are you (ms) ?

### B.3 Verbal: Negative

This is achieved by the negative prefix /ur-/ in A.A. and A.S. before verbs in the past or /ur-/ in A.A. and /ul:i-/ in A.S. before habitual stems. Examples:

117. (A.A.) uryan:ay ag:d yun bnadm .

(A.S.) urizri ulad idž nbnadm .

He did not see a single person.

118. (A.A.) urtyan:ay ag:d yun bnadm .  
 (A.S.) urtizri ulad idž nbnadm .

Not even a single person saw him.

119. (A.A.) urdžin: an:ayγ am: wa .  
 (A.S.) urγmri zrix am wu .

I never saw some  $\left\{ \begin{array}{l} \text{one} \\ \text{thing} \end{array} \right\}$  like this.

120. (A.A.) urdžin: d:iγ γr s:uq: nmidlt .  
 (A.S.) ur γmri raxx γr s:uq: nmidlt .

I never went to the Midelt market.

121. (A.A.) ur:iγ ad:uγ γr s:uq: .  
 (A.S.) urbyix adraxx γr s:uq: .

I  $\left\{ \begin{array}{l} \text{do} \\ \text{did} \end{array} \right\}$  not want to go to the market.

122. (A.A.) urdayit:ičžib t:f:ah .  
 (A.S.) ul:iyyt:ičžib t:f:ah .

I don't like apples.

123. (A.A.) urdat:d:uγ γr s:uq: nmidlt .  
 (A.S.) ul:ig:urx γr s:uq: nmidlt .

I never go to the Midelt market.

The occurrence of the negative particles /ur-/ or /ul:i-/ causes the moveable particles to be preverbal. Examples:

124. (A.A.) urtḍ:i ɣr s:uq: as:a .  
 (A.S.) urd:traḥ ɣr s:uq: idu .

She did not come to market today.

125. (A.A.) urn:t:d:u ɣr s:uq: ask:a .  
 (A.S.) urn:tg:ur ɣr s:uq: dutša .

She will not go (far) to the market tomorrow.

126. (A.A.) urtidniwy .  
 (A.S.) urtidniwy .

We did not bring it (m) (nearer).

127. (A.A.) urn:id:i ɣr s:uq: , urixdim g:granns .  
 (A.S.) urn:iraḥ ɣr s:uq: , urixdim g:žrann:s .

He neither went (far) to the market nor worked in his fields.

128. (A.A.) urastidiši .  
 (A.S.) urastidyuši .

He did not give it (m) to him (nearer).

B.4 Verbal: Negative-Interrogative

This structure is achieved by the prefixation of /isur-/ to a verb. /isur-/ also causes the moveable particles to be preverbal. Examples:

129. (A.A.) isurastiši ?

(A.S.) isurastiwši ?

Didn't he give it (m) to him?

130. (A.A.) isurast:idiši ?

(A.S.) isurast:d:yuši ?

Didn't he give it (f) to him (nearer)?

131. (A.A.) isurast:idit:awy ?

(A.S.) isurast:d:it:awy ?

Isn't he bringing it (f) to him (nearer)?

132. (A.A.) isurixdim muha as:a ?

(A.S.) isurixdim muha iḍu ?

Didn't Mohamed cook today?

C. Imperative Structures

An imperative structure can occur without a verb, e.g. (A.A.) the use of the particle /awra/ 'Come! '

133. (A.A.) awra .

(A.S.) awru .

Come!

Other than that, all imperative structures include a verb. Imperative structures directed to second person may contain one or more verbs. Examples of such imperatives with one verb are

134. (A.A.) xdm !

(A.S.) xdm !

Work!

135. (A.A.) xdm amuḥa !

(A.S.) xdm amuḥa !

Work, Mohamed!

136. (A.A.) xd:m asidi !

(A.S.) xd:m asidi !

Do work, Mister! or Get in the habit of working, Mister!

137. (A.A.) ns ylman .

(A.A.) ns ylman .

Good night.

138. (A.A.) ini ncam imayš .

(A.S.) ini ncam iym:aš .

Answer your mother.

Notice that habitual stems can occur to express an energetic Imperative. Example:

139. (A.A.) xd:m .

(A.S.) xd:m .

Do work! Or Get in the habit of working.

Examples of Imperatives having two verbs in the imperative:

140. (A.A.) d:u xdm !

(A.S.) sir xdm !

Go work!

141. (A.A.) d:ut munat .

(A.S.) sirm munm .

Go together.

Examples of sentences having one verb in the imperative and another verb in the future to express such ideas as "go in order to work" are

142. (A.A.) q:is ša yzlan imuḥa adis:γd .  
 (A.S.) q:is ša yzlan imuḥa adis:γd .

Sing some songs to Muha so that he can hear you.

143. (A.A.) ad:ud atsl:md xf unbyi .  
 (A.S.) awru at:sl:mt xunuži .

Come greet the guest.

144. (A.A.) d:uyat at:z:nzm irdn .  
 (A.S.) sirm at:z:nzm irdn .

Go (mp) to sell the wheat.

145. (A.A.) d:uyat at:sl:mm xf muḥa .  
 (A.S.) sirm at:sl:mm xmuḥa .

Go (mp) and say hello to the young man.

Second person Imperative structures could be expressed without the use of an imperative form. Examples here use /ixs:a/ 'It's necessary, you have to' followed by a verb in the future form.

146. (A.A.) ixs:a aditinid lḥq: .  
 (A.S.) ixs: adinit lḥq: .

You have to tell me the truth.

147. (A.A.) ix̣s:a aditidtawid adan:ayy .  
 (A.S.) ix̣s: aditit:awit at:zrx̣ .

Bring him here so that I see him.

148. (A.A.) ix̣s:a aditṛẓmd tawaryit:a .  
 (A.S.) ix̣s: aditṛẓmt tiṛžit:u .

You must explain that dream for me.

Negative Imperative (second person) structures are realized by the use of /adur-/ before a habitual stem. Notice /adur-/ causes the moveable affixes to be preverbal.

149. (A.A.) adurḍt:ḷab da .  
 (A.S.) adurḍ:t:ḷab da .

Don't play (nearer) here.

150. (A.A.) adurastidt:awy .  
 (A.S.) adurastidt:awy .

Don't bring it (m) nearer.

151. (A.A.) adurastidtak:at dyi .  
 (A.S.) adurastidtṭšiṭšṭ durṭ:x̣

Don't give it (m) to him (nearer) now.

First person imperatives (i.e. hortatory or cohortative constructions expressing an exhortation or suggestion for first person) occur with verb /k:r/ 'to get up' or the particle /yaḷ:ah/ 'let us'. Examples:

152. (A.A.) yaḷ:ah answ atay .  
 (A.S.) yaḷ:ah answ at:ay .

Let us (go and) have (drink) tea.

153. (A.A.) yaḷ:ah and:u answ:q: .  
 (A.S.) yaḷ:ah an:raḥ an:sw:q .

Let us go and shop.

154. (A.A.) k:raγ and:u γr s:uq: .  
 (A.S.) k:rax an:raḥ γr s:uq: .

Let us (mp) go to the market.

155. (A.A.) k:raγ and:u t:afad an:awḍ zik: answ:q: .  
 (A.S.) k:rax an:raḥ t:af an:awḍ ziš an:sw:q .

Let us (mp) go so we will be there early and stop.

156. (A.A.) k:rntay and:u γr tad:art .  
 (A.S.) k:rntax an:raḥ γr tad:art .

Let us (fp) go home.

The Aorist may be used after an imperative form to express second person imperative. Example:

157. (A.A.) d:u γr ɛari tzdmd: šay sɣar: tgd  
lɛafit tssnud aksum iwabyi .

(A.S.) sir γl lɛri tzdntd: šay sɣarɲ , tžt  
lɛafit , ts:nut aysum iwmuži .

Go to the mountain, collect (nearer) some wood, make a fire and cook meat for the guest.

\* \* \*

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