# A STUDY OF VOWEL ALTERNATION IN HAUSA

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Thesis submitted to the University of London for the degree of Doctor of Philosophy

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S.O.A.S.

May 1983

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#### CORRIGENDUM

As reduced i: & u: within a closed syllable, I & U respectively are inadvertently referred to as the underlying forms (cf. pp.86 & 94). As already indicated in the table on page 37, they have allophonic status in those circumstances, the underlying forms being /i:/ & /u:/. Any confusion which this may arouse is highly regretted.

#### ABSTRACT

This study aims at finding out the particular phonetic contexts within which the alternation of [I], [i] & [v] in Hausa takes place in an utterance, and where it does not. It also aims at establishing the underlying forms from amongst these vowels as well as identifying the underlying causes for the alternation or non-alternation.

The work is divided into ten chapters:

<u>Chapter One</u> introduces the work. It discusses the Hausa consonants based on the standard dialect, the vowels as shared by both the standard and non-standard dialects, and their phonological status.

<u>Chapter Two</u> is basically divided into two sections, with the first one discussing the 'general' type of vowel alternation (dialectal and non-dialectal), and the second section dealing with the alternation of [I],  $[\frac{1}{2}] \& [v]$  'specific' in the standard dialect.

<u>Chapters 3, 4, 5, 6 & 7</u> look into the [1/i/v] alternation in the Zaria, Bauchi, Daura, Katsina & Sokoto dialects respectively, all relative to the standard.

<u>Chapter Eight</u> is devoted to establishing the underlying forms in the words where a labial and/or coronal precede(s).

#### (ii)

<u>Chapter Nine</u> examines the -ıj- and -uw- sequences in relation to the alternation under consideration.

Finally, Chapter Ten sets out the conclusions reached in the study.

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### DEDICATION

To My Dear Mother, Hajiya Malama Halima

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#### ACKNOWLEDGEMENTS

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#### THE DATA

The data for this thesis is based on five months of fieldwork conducted in the six principal Hausa dialect areas in Northern Nigeria, namely Kano, Zaria, Bauchi, Daura, Katsina and Sokoto. A questionnaire containing lists of words and sentences with their English equivalents was prepared. In each sample utterance one or more vowel slot preceded by a particular consonant was left to be filled in. From each dialect area <u>five</u> speakers, mostly students, were selected for this purpose.

After each speaker had filled in the questionnaire according to what he considered to be his normal pronunciation, an individual interview was carried out. Each one in turn was provided with a fresh questionnaire and requested to say each utterance as naturally as possible into a tape-recorder after the investigator had read out the English equivalent. It was extremely laborious, but that was how it went. The purpose was to compare the vowel he had entered in the questionnaire and the one he had actually uttered, which to a large extent did not correspond, typically on point of the vowel [i] in relation to [I] & [v].

A Hausa native speaker, I, the investigator was born and bred in Zaria before moving to Kano where I have lived for eleven years. So that apart from my home dialect I have had the opportunity to acquaint myself pretty well with the standard. Regarding the other four dialect areas also, I have been to each one on several occasions and made a lot of contact with the people, not to speak of the day-to-day social interaction with friends and colleagues who come from there. Therefore,

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in general all these dialects have been familiar to me even before this work was undertaken. Consequently, the findings from the fieldwork are considered to be accurate.

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#### CHAPTER ONE

#### 1.0 INTRODUCTION

This study seeks to look into the alternation of vowels [I], [‡] & [v] in Hausa, a Chadic language in the Afro-Asiatic family of languages. Its general objective is to make a significant contribution to the study of Hausa phonology by digging deep into this particular aspect which seems to attract little attention amongst Hausaists and linguists. The investigation will therefore cover all the six main dialects spoken in Northern Nigeria: the standard (mostly Kano), Zaria, Bauchi, Daura, Katsina and Sokoto dialects.

As to the scope of the study, it is basically concerned with three things: a) to try to identify the particular phonetic contexts within which the alternation of these three vowels takes place in an utterance and where it does not; b) to try, where possible, to establish the underlying forms from amongst the three; and, c) to identify, where possible, the underlying causes for the alternation or nonalternation.

With regard to the presentation of the material the type of transcription adopted is 'phonetic'. While length of consonant will be indicated by doubling the symbol, vowel length will be shown by adding a colon to the symbol. Similarly, a grave accent (`) will be used over a vowel to indicate low tone, a circumflex (^) to indicate falling tone, whereas high tone will be left unmarked. A prosodic glottal stop (?) marking the end of certain utterances will also be shown.

1

#### 1.1 THE HAUSA CONSONANTS

A 'consonant', in phonetic context, is a speech sound made by a closure or narrowing in the vocal tract, so that the air-flow is either completely blocked, or so restricted that audible friction is produced (Crystal, 1980). This is contrasted with a 'vowel' which is made without a complete closure in the vocal tract or a degree of narrowing which would produce such audible friction. The sounds [b], [k], [ $\Theta$ ], [m] and [z] for instance, found in the English words 'board', 'kid', 'think', 'gum', and 'zone' respectively are all consonants, while [æ], [ $\Lambda$ ], [1], [ $\epsilon$ ] and [v] as in 'cat', 'cut', 'bid', 'bed' and 'full' respectively are vowels.

Standard Hausa<sup>1</sup>, in point of fact, has a total number of thirtyfour (34) different consonant sounds, as follows:

Phonetic	Description	Orthographic
b	voiced bilabial plosive	b
?b	glottalized bilabial plosive	6
t	voiceless alveolar plosive	t
d `	voiced alveolar plosive	d
k	voiceless dorsal plosive	k
g	voiced dorsal plosive	ŝ
с	voiceless palatal plosive	ky
î	voiced palatal plosive	gy
kw	voiceless labialized-dorsal plosive	kw

<sup>&</sup>lt;sup>1</sup> It is largely based on Kano dialect, one of four dialects constituting what Hausa dialectologists term East Hausa, the other three being Zaria, Bauchi and Daura. West Hausa, on the other hand, is composed of Sokoto and Katsina dialects.

 $\mathbf{2}$ 

Phonetic	Description	Orthographic
gw	voiced labialized-dorsal plosive	gw
?	glottal stop	<b>,</b> 2
2j	palatalized glottal stop	'y
Φ	voiceless bilabial fricative	f
Φj	palatalized bilabial fricative	fy
S	voiceless alveolar fricative	S
Z	voiced alveolar fricative	Z
ſ	voiceless palato-alveolar fricative	sh
h	voiceless glottal fricative	h
m	voiced bilabial nasal	m
n	voiced alveolar nasal	n
р	voiced palatal nasal	11
ŋ	voiced dorsal nasal	11
t∫	voiceless palato-alveolar affricate	с
сţ	voiced palato-alveolar affricate	j
s'	voiceless alveolar ejective	ts
c'	voiceless palatal ejective	ƙy
k'	voiceless dorsal ejective	ƙ
kw'	voiceless labialized-dorsal ejective	ƙw
j	voiced palatal approximant	У
W	voiced labio-dorsal approximant	w
1	voiced alveolar lateral	1
r	voiced alveolar trilled	r

.

 $^2\,$  In the standard orthography, this symbol is found in word-medial environment only.

Phonetic	Description	Orthographic
?d	glottalized post-alveolar flapped	ď
r	voiced post-alveolar flapped	r <sup>3</sup>

 $^3$  The orthography does not distinguish the two r's, i.e. the 'trilled' and the 'flapped'.

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#### 1.1.1 ENVIRONMENTAL DISTRIBUTIONS

### 1.1.1.1 Word Initial

With the exception of the voiced palatal nasal [n] and the voiced dorsal nasal [n], all the other consonants occur in this position, as follows:

Transcription	Orthography	Meaning
ba:kw'o:	bako	guest [+ male]
?bauna:	6auna	bush cow
turce:	turke	peg
do:ci:	doki	horse
kàsa:1a:	kasala	weakness
gàri:	gari	town
cauta:	kyauta	prize, present, gift
Ja:ra:	gyara	repair-work
kwa:no:	kwano	pan
gwa:zarma:	gwazarma	white grub of dung hills
?uba:	uba	father
?jantji:	'yanci	freedom
∮arkwo:	farko	beginning
∮jaut∫è	fyauce	swoop on
sani:	sani	knowledge
zu:t∫ija:	zuciya	heart
∫e:k'a:	sheƙa	nest
hannu:	hannu	hand
madara:	madara	milk
na:ma:	nama	meat

Transcription	Orthography	Meaning
t∫a:ra:	cara	cock-crow
duni:	jini:	blood
s'a:ni:	tsani	ladder
c'a:ma:	ƙyama	aversion
k'auje:	ƙauye	village
kw'a:ro:	ƙwaro	insect
ja:ro:	yaro	boy
wa:k'a:	waka	song
lawàji:	lawashi	onion-tops
ro:ba:	roba	rubber
?da:cì:	ɗaki	room
ruwa:	ruwa	water

### 1.1.1.2 Intervocalic

In this position, with the exception of the palatalized bilabial fricative  $[\Phi j]$ , the voiced palatal nasal [n] and the voiced dorsal nasal [n], all the othersoccur:

Transcription	Orthography	Meaning
?abu?	abu	thing
ga?ba:	gaɓa	joint, syllable
bu:ta:	buta	kettle
gado:	gado	bed
baka:	baka	bow
ta:ga:	taga	window
2bacalu?	ɓakyalu	idler

Transcription	Orthography	Meaning
ma:ja:zo:	magyazo	stunted person or animal
takwara:	takwara	namesake
?agwada:	agwada	coney, hyrax
ba?a:	ba'a	mockery
2ja:2ja:	'ya'Ya	children
sa: Фa:	safa	socks
k'asa:	ƙasa	earth, country
to:zo:	tozo	hump
k'à∫i:	ƙashi	bone
bohu:	buhu	sack
kama:	kama	resemblance
bana?	bana	this year
hantji:	hanci	nose
da:dzi:	daji	forest
mo:s'i:	motsi	movement
mac'a:Фі:	maƙyafi	instrument used for drying meat before a fire
sa:k'a:	saka	weaving
lakw'ame	laƙwame	eat up greedily
ka:ja:	kaya	luggage
s'a:wa:	tsawa	thunder
salo:	salo	style
tara?	tara	nine
ba2di?	badi	next year
kw'a:ro:	ƙwaro	insect

### 1.1.1.3 Syllable-Final (Word Medial)

While the consonants [b,  $\Phi$ , s, z, m, n, p, ŋ, l, r and r] can occur freely in this position, the rest cannot, except where they geminate, as shown below in the 'intensive form of the verb' and in the 'participial adjective'. However, here too, with the palatalized glottal stop [?j] this is not possible:

Transcription	Orthography	Meaning
s'abga:	tsabga	whip
?ba?b?bazje?	6a66azge	pull off branch, maize-cob, etc.
ru?ba?b?be:	rubabbe	rotten one [+ male]
tatta: ru?	tattaru	assemble all
øitattu:	fitattu	famous [+ plural]
dòddo:ci3	doddoki	beat severely
gwùdàddu:	gudaddu	fugitive [+ plural]
kakka:ma3	kakkama	arrest
wankakwkwu:	wankakku	washed [+ plural]
gaggama?	gaggama	finish
gwo:gagwgwu:	gogaggu	ironed [+ plural]
caccà:ra?	kyakkyara	pour out much fluid
jajja:raz	gyaggyara	repair, improve
kwakwkwanta:	kwakkwanta	lie down
gwagwgwada?	gwaggwada	measure
2a22à&a2	a''afa	throw into one's mouth, like groundnuts
s'aota:	tsafta	cleanliness
¢ja¢j≬ja:?de}	fyaffyade	flog
kaska:	kaska	tick

Transcription	Orthography	Meaning
t∫àzbi:	cazbi	rosary
∫a∫∫a:re?	shasshare	sweep, clean
bu:sa∫je:	busasshe	dry one [+ male]
huhhu:ra3	huhhura	blow with the mouth
rohwahhu:4	ruhwahhu	covered type, as in shoe [+ plural]
tambaja:	tambaya	question
bındiga:	bindiga	gun
kwonja:	kunya	shyness
kaŋwa:	kanwa	potash
t lot st su: ral	cuccura	knead into balls
?amintat∫t∫ıja:	amintacciya	trusted one [+ female]
dseds ds e: ra?	jejjera	arrange in order
hu:dads ds e:	hudajje	pierced one [+ male]
s'as's'a:gal	tsattsaga	cut open, split
nas'as's'e:	natsattse	disciplined one [+ male]
c'ac'c'a:mule:	ƙyaƙƙyamushe	emaciate
k'ak'k'aurat∫e:	ƙaƙƙaurace	boycott
∳è:k'àkw'kw'u:	feƙaƙƙu	sharpened, as in pencil [+ plural]
kw'akw'kw'a:t∫e?	ƙwaƙƙwace	take by force
jajja:ga}	yayyaga	tear into pieces
ja:jajju:	yayayyu	weaned, as in child [+ plural]
wawwarce:	wawwarke	recover from sickness
salka:	salka	kind of water-bottle
borje:	burge	impress (vb.)

<sup>4</sup> Pronunciation in West Hausa as against  $r\hat{v}\phi\hat{a}\phi\phi$ u: in East Hausa.

Transcription	Orthography	Meaning
?da?d?daure?	daddaure	tie up, imprison
ru:?da?d?d1ja:	ruɗaɗɗiya	confused one [+ female]
turmi:	turmi	mortar

#### 1.1.1.4 Syllable-Final (Word-Final)

In this environment, only [t, k, c,  $\Phi$ , s,  $\int$ , m,  $\eta$ , l and r] occur to the exclusion of the rest. A glottal stop [?] too, can occur here, but not as a consonant. On the contrary, as a prosodic marker at the end of certain categories of lexical units that come in pausal position.<sup>5</sup> Take the following examples:

Transcription	Orthography	Meaning
bʊt	but	ideophone, emphasizing sudden leap
tak	tak	ideophone, emphasizing quantifier 'one'
wac/?ac	waky/aky	interjection, expressing regret or dismay
ka⊅	kaf	ideophone, emphasizing complete- ness

<sup>5</sup> The most noticeable category of lexical units so characterized being % short vowel ending one, such as biyu/[biju?], 'two' - Ya ba ni biyu/[ja:ba:nibiju?], 'He gave me two'; goma/[gwo:ma?], 'ten' - Mun sami goma/[munsa:migwo:ma?], 'We got ten'; Karfi/[k'ar@i?], 'place name' - Ta tafi Karfi/[ta:ta@ik'ar@i?], 'She went to Karfi'; kwalekwale/[kwalɛkwale?], 'canoe' - Na ga kwalekwale/[na:gakwalɛkwale?], 'I saw a canoe'; talotalo/[talotalo?], 'turkey' - Sun yanka talotalo/ [suŋjaŋkatalotalo?], 'They killed a turkey'.

Transcription	Orthography	Meaning
takwas	takwas	eight
ka∫	kash	bother!
∫am	sham	ideophone, emphasizing body stretching
nâŋ	nan	here
kal	kal	ideophone, emphasizing good quality of wash
bijar	biyar	five

#### 1.2 THE HAUSA VOWELS

A 'vowel', as briefly mentioned in 1.1, is a speech sound produced without a closure in the vocal tract or a degree of narrowing that would bring about audible friction. To recapitulate the English examples given, [æ],  $[\Lambda]$ , [1], [ε] and  $[\upsilon]$  as in the words 'cat', 'cut', 'bid', 'bed' and 'full' respectively are all vowel sounds. Now, in view of the non-continuing changing quality of such vowels during production, they are termed 'monophthongs'. They are contrasted with 'diphthongs' which are vowels of continuing changing quality, such as [ai], [au] and [ɔi] in the words 'bite', 'bout' and 'boy' respectively.

Generally speaking, in Hausa, the standard and non-standard alike, the same kind of vowel system operates. Apart from various variants, twelve (12) different vowels are found to be functioning. And, of this number, ten (10) are monophthongs, the remaining two (2) being diphthongs. Similarly, in terms of duration five (5) of the monophthongs are 'short' and five are 'long', as described in 1.2.1 & 1.2.2 below:

#### 1.2.1 THE MONOPHTHONGS

### "long"

Phonetic	Description	Orthographic
i:	close front (with lips spread)	i
u:	close back ( " " rounded)	u
e:	half-close front (with lips spread)	е
o:	half-close back ( " " rounded)	0
a:	open central (with lips neutral)	а

The "short" vowels, when pausal, have the same phonetic quality as their long counterparts. In non-pausal position however, they in most cases differ. So that the non-pausal qualities are described below:

I	front spread (between close & half-close	i
	and slightly centralized)	
ប	back rounded (between close & half-close	u
	and slightly centralized)	
ε	half-open front (with lips neutral)	е
ວ	half-open back (with lips rounded)	0
a	same quality as [a:]	a

### 1.2.2 THE DIPHTHONGS

Phonetic	Descrip	otion	Orthographic
a1 <sup>6</sup>	Begins with an open ce	entral vowel	ai
	position and moves to	vards a close front	
	vowel position. The I	lips go from neutral	
	to spread		
$av^7$	Begins with an open ce	entral vowel	au
	position and moves to	vards a close back	
	rounded vowel. The la	ips go from neutral	
	to close rounded		
Now, take	an example of each voy	wel in a lexical unit	·,
according	ly:		
	ì		
	А		
		ς	
Transcriptio	n Orthography	Meaning	
ci:Фi:	kifi	fish	
tu:ru:	turu	rebellior	1
be:be:	bebe	deaf-mute	e [+ male]
zo:mo:	ZOMO	rabbit	
ta:na:	tana	worm	

<sup>6</sup> The [e1] variant begins from a half-open front position and moves towards a close front position. The lips go from neutral to spread.

<sup>7</sup> The [ou] variant begins from a half-open back position and moves towards a close back position. The lips go from neutral to round.

т		۰.
		 ,
	-	۰.
r		

Transcription	Orthography	Meaning
t∫ıci:	ciki	stomach
tàøi?	tafi	go
tudu:	tudu	hill
Pabu?	abu	thing
<b>Φ</b> εnti:	fenti	paint
ma:je?	mage	cat
zôbba:	zobba	rings
mangwaro?	mangwaro	mango
s'aro:	tsaro	defence
do:sa?	dosa	do repeatedly
	ς.	
	С	
waiga:	waiga	look back
tauna:	tauna	chewing
kâı	kai	head
taba: rau?	tabarau	spectacles

### 1.2.3 THE VOWEL $[\frac{1}{2}]$

The vowel [i] is a 'short' monophthong with the quality 'close central unrounded'. It is a major variant in the Hausa phonological system. However, it has no particular symbol as yet in the orthography. As a variant for the vowel [v] or [1] (or sometimes for both) it is written sometimes as 'u' and sometimes as 'i', as below:

Orthography	Transcription	Meaning
ɗunki/ɗinki	?duŋci:/?diŋci:/?dıŋci:	sewing
fushi/fishi	Φʊʃi:/Φἑʃi:/Φɪʃi:	anger
zube/zibe	zube:/zibe:/zibe:	tribal mark
nufi/nifi	nuqi:/niqi:/nıqi:	intent
turke/tirke	turce: /tirce: /tirce:	peg

Cases are also to be found where 'i' exclusively is used in reference to it:

niƙa	nik'ai	grind
rina	rinaz	dye
ridda	ridda?	apostasy
diga	?digal	drop
dila	dila:	fox
likkafa	likka: øa:	stirrup
tsira	s'ira?	germinate
tinƙaho	tiŋk'a:ho:	putting on airs
siddabaru	siddabaru?	magic
zirnako	zirna:kw'o:	hornet

#### 1.3 THE PHONEMES

A 'phoneme', by definition, is a minimal unit of sound capable of distinguishing words of different meanings (Hyman, 1975). Two phonetically similar sounds are said to be phonemes if they occur in the same phonetic environment in a lexical unit, and if the substitution of one sound for the other brings about a difference in meaning. The consonant sounds [p] and [b] in the English pairs of words 'pin' and 'bin', 'rapid' and 'rabid' and, 'rip' and 'rib' are thus, both Phonemes. Similarly,  $[\varepsilon]$  and  $[\varpi]$  in 'bet' and 'bat' in the case of vowels.

In standard Hausa, all those consonant sounds other than the voiced palatal nasal [n] and the voiced dorsal nasal [n] discussed under 1.1, are 'distinctive' and therefore, phonemes. The two exceptions [n] and [n] are never contrastive, but in simple terms, variants of contrastive 'n' in specific environments.<sup>8</sup> For the vowels, on the other hand, in both the standard and non-standard dialects those twelve (12) presented under 1.2, are likewise 'contrastive' and thus, phonemes. A few examples with minimal pairs can be cited to clarify matters:

<sup>&</sup>lt;sup>8</sup> [n] is found syllable-finally in word medial position before the palatal approximant [j], as in kwopja: and, [n] in this position before a back consonant, as in kanwa: (1.1.1.3) and, word-finally, as in nân (1.1.1.4).

		Φ	&	b	
	¢ari:		11		bari:
	drought		11		leaving out
,	?a∳a:wa:		TT		?aba:wa:
popping into the mouth			11		kind of thread
		t	&	d	
	tavri:		"		davri:
	toughness		**		infant's tonic
	kw'o:ta:	,	n		kw'o:da:
	haft	· · · ·	ŧt		kidney

	l	&	ť	
ʃu:ri:		11		tju:ri:
kicking		11		lump of something
ka:∫ıja:		11		ka:tJ 1ja:
cashier		11		circumcision
	g	&	w	
ga:wa:		11		wa:wa:
corpse		TT		fool
s'a:ga:		11		s'a:wa:
tribal mark		11		thunder

	kw	&	kw'	
kwa:ŗi:		11		kw'a:ŗi:
senior wife		11		strength
	a:	&	a	
s'a:ri:		11		s'ari:
arrangement		11		protection
kwu:ŗa:		* 1		kwu:ra?
hyena				place name
	o:	&	i:	
mo:ta:		11		mi:ta:
motor vehicl	e	11		grumbling
ta:ro:		11		ta:ri:
conference		11		cough

۰,

20



stone, rock, mountain " place name


However, note that where a common noun is turned into a place name by shortening the final vowel to be accompanied by a glottal stop in pause, as in the case of kwu:ra: & kwu:ra?, du:s'e: & du:s'e?, and, ro:gwo: & ro:gwo?, the phonemic contrast in each case is maintained only in 'statement' form, whereas the vowels in question tend to neutralize in the corresponding 'interrogative' form:

s. Ya ga kura Ya tafi Kura & [ja:taoikwu:ra?] [ja:gakwu:ra:] 11 He saw a hyena 11 He went to Kura Q. Ya ga kura? 11 Ya tafi Kura? [ja:taoikwu:ra:?] [ja:gakwu:ra<sup>^</sup>:?] 11 Did he see a hyena?

11

Did he go to Kura?

s.	Sun hau dutse	&	Sun nufi Dutse
	[sʊŋhaʊdu:s'e:]	TT	[sunnu@idu:s'e?]
	They climbed a rock	11	They went in the direction of Dutse
<b>Q</b> .	Sun hau dutse?	11	Sun nufi Dutse?
	[sonhaudu:s'e:?]	11	[sunnutidu:s'ê:?]
	Did they climb a rock?	**	Did they go in the direction of Dutse?
s.	Ta sayi rogo	&	Ta taɓa zuwa Rogo
	[ta:saj170:gwo:]	11	[ta:ta?bàzuwa:ro:gwò?]
	She bought cassava	11	She once went to Rogo
Q.	Ta sayi rogo?	11	Ta taɓa zuwa Rogo?
	[ta:sajıro:gwo??]	11	[ta:ta?bazowa:ro:gwo:?]
	Did she buy cassava?	11	Has she ever been to Rogo?

The few minimal pairs cited as example testify the phonemic status of those consonant and vowel sounds. However, with regard to the consonants  $[\Phi]$  and [h] in the standard dialect there is a further explanation in view of their unique phonological features before a vowel, as follows:

# The bilabial fricative $[\Phi]$

This sound occurs before all vowels:

Before -a (including 'ai' & 'au')

¢a:ta:	skin
¢a∫i:	robbery
roma:	stall
kamφaı?	pants
ΦαυΦαυ ?	never

# Before -i

Φi:?da:	flaying
Φi:Φi:kwo:	preference
ra: •i:	stream
ta øi?	go
¢ìta2 <sup>9</sup>	go out

<sup>9</sup> Under certain circumstances [i] is also substituted for [1] in this dialect. Thus, \$\$\overline{1}\$ is another form of pronunciation for this word

Before --e

、 、	
¢e:saì	spray
¢e:re?	peel with knife
k'arøe:	steel
ta•e?	be in state of coming
rute?	be in state of shutting

# Before --u

Φû:	ideophone, associated with how an angry
	person leaves a place after getting annoyed
Φʊ∫i:	anger
øuska:	face
ruau?	be well shut
Ja: Φu?	be well painted

Фô: (Eng.)	small plastic container on which a child
	is seated to urinate or pass stool
∳o:du2 (Eng.)	Ford brand of motor vehicle
pampo: (Eng.)	pump
nu40:3	walk in this direction towards
tʊ40:4i:	clothes

# The glottal fricative [h]

Like the bilabial fricative  $[\Phi]$ , the glottal fricative [h] is found before all vowels:

Before -a (including 'aı' & 'au')

ha:	what is said to a child to open the mouth
hari:	attack
haihuwa:	child delivery
hauni?	executioner
bahagwo:	lefty [+ male]

Before -i

hi:ra?	chatting
hi:la: (Ar.)	guile
hımma: (Ar.)	diligence
la:hira: (Ar.)	the hereafter
hîl (Eng.)	heel of shoe

Before --e

hê:? exclamation made by a praise-singer's mate during performance to draw the attention of the audience he:luma? (Eng.) headman ŧ

he:dukwata: (Eng.)	headquarters
he:dimasta: (Eng.)	headmaster
?alhe:ri: (Ar.)	good turn, kindness

Before -u

hu:rai	blow
hu: hu:	package of kolanuts
bohu:	sack of something
hokwu:ma: (Ar.)	authority, government
hu?duba: (Ar.)	sermon

Before -o

ho:lo:kw'o:	dust-storm
ho:le:	enjoy oneself
saho:rami:	wastrel [+ male]
tink'a:ho:	putting on airs
?0:h0?	I neither know nor care; it is no concern
	of mine

Now, as seen above, both  $[\Phi]$  and [h] occur independently before 'a/a1/au', 'i', 'e', 'u' and 'o' in pure Hausa words and a few English and Arabic loans. This suggests that the two consonants are different phonemes in this dialect. Another evidence in support of this can be seen in the following minimal pairs:

\		×
<b>⊅ari:</b>	&	hari:
drought	11	attack
¢a?di:	11	ha?di:
saying	11	mixing up
∳anta:	11	hanta:
kind of orange drink	11	liver
sioiri: (Ar.)	11	sihiri: (Ar.)
a zero	11	sorcery, magic

Nevertheless, on the evidence of Bargery (1934), [h] was an allophone of  $/\Phi$ / before -u in words such as hu?du? 'four', hu:?da: 'making ridges on farm' and hu:dxi: 'piercing'. Today, in all dialects these words are pronounced with initial h-. Similarly, in a few English loans, words with initial f- or p- followed by -o in English are pronounced with h-, as in ho:to: 'photo', ho:da: "talcum powder' and ho:li? the phrase 'fall in', as used in military drill exercise. Here, on the grounds that other loans from English with initial f- or pfollowed by other vowels are pronounced with  $\Phi$ - in this dialect, such as  $\Phi$ îm 'film',  $\Phi$ :da: 'pedal',  $\Phi$ ula:wa:<sup>10</sup> 'flour/flower' and  $\Phi$ a:ti: 'a reception/political party', one can regard this [h] to be an allophone of  $/\Phi$ / before -o.

So that as a whole, since all those thirty-two (32) consonant sounds are contrastive in standard Hausa and all the twelve (12) vowels shared by both the standard and non-standard dialects are similarly contrastive, one can right away say that the standard dialect has a

<sup>&</sup>lt;sup>10</sup> The 'v' here however, is never found in the English equivalent. It is employed by Hausa to break the consonant cluster fl- which is otherwise contrary to its phonological system.

total of thirty-two (32) consonantal phonemes and twelve (12) vowel phonemes. Hence, /b, ?b, t, d, k, g, c, j, kw, gw, ?, ?j,  $\Phi$ ,  $\Phi$ j, s, z, ſ, h, m, n, tʃ, dʒ, s', c', k', kw', j, w, l, r, ?d, r, i:, i, u:, v, e:,  $\varepsilon$ , o:, o, a:, a, ai and av/.

### 1.4 THE ALLOPHONES

A phonetic realization of a phoneme in a particular environment is referred to as 'allophone'. The phrase 'particular environment' is of great significance in so far as the particular allophones of a given phoneme in a given language occur under predictable conditions. As Gimson puts it, 'no two realizations of the same phoneme which have a markedly different phonetic quality occurring in the same situation'' (1971: 47). They have a complementary distribution, on the contrary. The so-called 'clear' and 'dark' 1's in English provide a good example. That although the lateral [1] and the 'velarized' lateral [ $\frac{1}{2}$ ] belong to the same phoneme /1/, the former (clear) occurs word-initially and the latter (dark) word-finally, as in the pairs of words 'leaf & feel', lamb & seal', link & zeal'.

There are quite a number of instances of a phoneme having more than one phonetic realization in Hausa, both in the standard and in other dialects. The same allophone is in one case referable to one phoneme, and in another to a different phoneme, according to lexical, granmatical or sometimes historical considerations. For example, the singular noun bu:ta: 'kettle' gives plural bu:to:tfi: and the verb zânta: 'have a chat with' gives verbal noun zantfe: where [tf] is the allophone of /t/ before a front vowel. In the word tfa:tfa? 'gambling' however, [tf] occurs not before a front vowel, and requires one to recognize /tf/ as a phoneme in Hausa, and not merely as an allophone of /t/, even if it could be established that tfa:tfa? is a loan word - which, with a short final vowel followed by a glottal stop, it might be. There are a lot of words in Hausa with tf- followed by -a, but in the

grammatical process of plural formation or, of switching from one form of grade to another in the verbal system for instance, even neologisms or new loans show the 'ta/tfi/tfe' relationship, e.g. ?akanta: 'accountant' / ?akanto;tfi: (pl.) and \$ahinta: 'understand' / \$ahintfe:<sup>11</sup> (same).

On the other hand, we find the words te:kwu? 'ocean', te:la? 'tailor', dgante? 'fever', tî: 'tea', ti:ti: 'street', ti:lo: 'one' and the like, where we might expect tf- if the 'ta/tfi/tfe' relationship was a purely phonological feature of Hausa. Such considerations apply to the other sets given in Figure I. Nevertheless, in the examples cited, the allophones are related to the corresponding phonemes, even if the same articulations are not always to be so related in the language.

<sup>&</sup>lt;sup>11</sup> While \$\overline{a}hinta\$: falls under the category of 'A' form of grade II verb, syntactically used when there is no object following, e.g. ja:\$\overline{a}hinta\$:, 'He understands', \$\overline{a}hint\$: on the other hand, is in the 'B' form of same grade, employed when an object pronoun follows, e.g. ja:\$\overline{a}hint\$::ni\$, 'He understands me'.

$\sim$
Figure
н

12		IJ		Ч		പ.		<b>د</b>		\$		\$	
- Exan NOT		=		=		:		=				=	
ples are, bhasizing ¢îŋ*		ш		ŵ		W		S		N		Ð,	
for i holdi		в		ф		W		Ø		N		þ	
deophon ng some	ш	ц	ቀ	ď	W	ب.	Ø	لعم	N	ጽ	റ്റ	ß	4
es - tindum 'emphasizing fullness of a pi thing tightly' NOT kan*; and, for English	elsewhere	word-final, except in the case of -m ending ideophones and certain English loans <sup>12</sup>	elsewhere	before vow. [+ bk.]	elsewhere	before vow. [+ fr.]	elsewhere	before vow. [+ fr.]	elsewhere	before vow. [+ fr.]	elsewhere	before vow. [+ fr.]	elsewhere
t with wate loans - bâ		ma:làŋ mờtừŋ	ci:Фi: 'f	hưîduî ho:to:	ba:wa:	ba:ji:	k'asa:	k'asa: ʃe:	ka:za:	ka:dgi:	Jida:	jıda:dje:	tu:ta:
r, like a well' <u>NOT</u> t m, 'bomb' <u>NOT</u> bâŋ*, ¢		'teacher, learned' 'human being'	'ish', øe:sa 'spray',	'four' 'photo'	'slave' [+ male]	'slaves'	'country'	'countries'	'hen'	'chickens'	'house'	'houses'	'flag'
:ingin*, kam `îm, 'film'		ma:lam* motom*	k'afa: 'foot'	Φυ?du?* ΦÒ:to:*		ba:wi:*		k'asa:se:*		ka:zi:*		jıda:de:*	

# THE CONSONANTAL ALLOPHONES FOR THE STANDARD DIALECT

¢

۶º

сł

c†

<u>ح</u>ثر

before vow. [+ fr.]

tu:to:tfi:

'flags'

tu:to:ti:\*

.

Example

Environment Found

Allophones

Phoneme

						ת, ק, m " ח			J, gw " g			c',kw'" k'			c, kw & k	Allophones
						n			02			¥،			ч	Phoneme
а				в	ц	ų	ወዓ	gw	9-i	k,	kw'	ç	ч	kw	о О	
elsewhere				utterance-medial before cons. [+ lab.]	word-final and before cons. [+ bk.] word-medial	syllable-final before the palatal approximant 'j' word-medially	elsewhere	before vow. [+ bk.]	before vow. [+ fr.]	elsewhere	before vow. [+ bk.]	before vow. [+ fr.]	elsewhere	before vow. [+ bk.]	before vow. [+ fr.]	Environment Found
na:ma: 'mea	zâmba: ji?	jıdanmu:sa:	sumpita?	sarcimbautji	tân ganga:	ganje:	gari:	gwo:ma?	ma:je?	k'ari:	kw'o: ¢a:	za:c'i:	kara:tu:	tarkwo:	œ:œ:j	
t', hanta: 'liver'	'I will give him'	'Musa's house'	'they've gone out'	? 'Emir of Bauchi'	'there' 'drum'	'leaf'	'town'	'ten'	'cat'	'tumour'	'door'	'sweet'	'reading'	'trap'	'bicycle'	Example
			-		tlân* gànga:*	ganje:*		go:mai *	ma:ge?*		k'o:•a:*	za:k'i:*		tarko:*	ke:ke:*	

With regard to the kinds of allophones found within the vowel system however, let us refer once again to the phonological behaviour of those twelve (12) vowels first, as cited as example in 1.2. It may have been noticed that all the examples in question were centred round open syllable (CV / CV:) both pausally and non-pausally without exception, in the case of those under 'A' and 'C' and, with some exceptions ([e] & [o] never occurring medially) in the case of those under 'B'.

Now, let us consider the situation in other circumstances, namely in a closed syllable (CVC). Here, generally speaking, only  $[1, v, \varepsilon/a/j\varepsilon/ja, o/a/wo/wa]$  and [a] all of which are short, occur to the exclusion of a long vowel or a diphthong which has to be shortened or monophthongized accordingly. Examine the following three categories of examples respectively:

I

I	cırci:	kindness
υ	?bontu:	rice-husks
ε <sup>12</sup>	kàrêŋ	the `dog
a	kàrâŋ	11 11
jε	maີ: ເຼົາ	the cat
ja	mà: jâŋ	11 11

<sup>12</sup> & <sup>13</sup> The palatal prosody of [J] in ma: jɛŋ/ma: jaŋ or the labial prosody of [kw] in tarkwoŋ/tarkwaŋ is shared by both consonant and vowel, being a feature of the whole syllable. It is contrasted with the palatality in [J] as in ja:ra:, 'repairs' or the labiality in [kw'] as in kw'allor, 'ball' which is not so shared, this, being for the consonant entirely.

ſ	o <sup>13</sup>	ຣວ:ຣວີກູ	the sponge
	a	so:sâŋ	11 11
ł	CW	tarkwoŋ	the trap
l	wa	tarkwaŋ	11 11
	a	¢arkwo:	beginning

# II

?da:ci: 'room' + -n > ?da:ciŋ 'the room' ?da:ci:ŋ\* fa:nu: 'cattle' + -n > fa:nu; 'the cattle'∫a:nû:ŋ\* da?be: 'floor' + -n > dà?bɛ̂ŋ/dà?bâŋ 'the floor' dà?bê:ŋ\* bangwo: 'wall' + -n > bangwôn/bangwân 'the wall' baŋgwô:ŋ\* ri:ga: 'gown' + -r > ri:gar 'the gown' ri:ga:r\* . III kâı 'head' + -n > kâŋ 'the head' ka1ŋ\* taba:rau? 'spectacles' -n > taba:rân 'the spectacles' taba: raun\*

However, attention is drawn to the fact that in the examples cited under I, the [I] &  $[\upsilon]$  under those circumstances, i.e., in a closed syllable, are allophones of /i:/ & /u:/ respectively. But, in opensyllable medial position they are not, in so far as [1] & [i:] on the one hand, and [v] & [u:] on the other are found to contrast in this environment, as depicted in the pairs of words & sto: & &i:to:, meaning 'ferrying' & 'whistling' respectively, and bu?der & bu:?der, meaning 'cover, especially with dust' & 'open' respectively. In other words, [1] & [v] are here both different phonemes as /i:/ & /u:/ are. Against this, neither [e] nor  $[\varepsilon]$ , and neither [o] nor [ɔ] are ever found opensyllable-medially. And, for [a], although it has rather same phonetic quality as its long counterpart [a:], the two are contrastive both in this environment and word-final, as respectively exemplified in 1.3 with the pairs of words s'a:ri: & s'ari:, 'arrangement' & 'protection', and kwu:ra: & kwu:ra?, 'hyena' & 'place name'. The vowel allophones are provided in Figure II.

	a " au		a "ai		a " a:		o: " a/wa/wa		ε/a/jε/ja " e:		ช "น:		I & i:	Allophones
	au		ai		р 		<u>.</u>		<u>0</u>		u:		1: ::	Phoneme
au	ф	ai	ຸລ	a ••	р	<u>.</u>	S C R R	е ::	ຍ. ຍ. ຍ ຕ ຍ ຕ	Ë:	с	۲: ••	I	
elsewhere	closed syllable after cons. [+ fr.]	elsewhere	closed syllable after cons. [+ fr.]	elsewhere	closed syllable	elsewhere	closed syllable	Environment Found						
ູດລີບ	câŋ	mâi	mâŋ	hu:la:	hù:1âr	zo:mo:	kwandôŋ kwandâŋ ro:gwòŋ ro:gwaŋ	te:kwu?	za: ?bêŋ zà: ?bâŋ ràkjêŋ ràkjâŋ	kwu:ka:	kwulci:	ma:ʃi:	ma:∫ìŋ	Exan
'beauty'	'the beauty'	'oil'	'the oil'	'cap'	'the cap'	'rabbit'	"the basket" """ "the cassava"	'ocean'	'the election' """"""""""""""""""""""""""""""""""""	'crying, complaint'	'truncheon, club'	'spear'	'the spear'	ple

THE ALLOPHONES OF VOWELS SHARED BY BOTH THE STANDARD AND NON-STANDARD DIALECTS

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(Tri mime TT)







THE VOWEL CHART

### CHAPTER TWO

2.0 VOWEL ALTERNATIONS : General

In Chapter One, the kinds of consonants found to operate in Standard Hausa and the kinds of vowels shared by both the standard and non-standard dialects were introduced. Thirty-two (32) consonants and twelve (12) vowels we said, are phonemes among which a fair number have more than one allophone occurring under predictable conditions. For instance, the phoneme /t/ has an allophone [tf] before a front vowel and [t] elsewhere; /d/ has [dg] before a front vowel and [d] elsewhere; /k/ has [c] before a front vowel, [kw] before a back vowel and [k] elsewhere; /g/ has [g] before a front vowel, [gw] before a back vowel and [g] elsewhere; /i:/ has [1] in a closed syllable and [i:] elsewhere; /u:/ has [v] in a closed syllable and [u:] elsewhere; /aI/ has [a] in a closed syllable and [aI] elsewhere; /au/ has [a] in a closed syllable and [av] elsewhere. Now, in this chapter, instances of some of the vowels 'alternating' with one another will be examined.

Two or more linguistically similar units can be said to alternate if one can be replaced by the other in the same context within an utterance without altering the sense or rendering it meaningless. In other words, under such circumstances one unit precisely serves as an alternative pronunciation of the other. Vowel alternation in Hausa can, in fact, be conveniently classified into two. These are, the type that can be termed 'general', and the alternation of [1],  $[\pm]$  and [v] 'specific'. For the moment however, as the title signals, the discussion will centre round the first type.

In Hausa, the standard and non-standard dialects alike, both monophthongs and diphthongs have a tendency to alternate within certain utterances.<sup>14</sup> Investigation reveals that except in a very few cases it is a 'long' vowel always alternating with another 'long', a 'short' with a 'short' and a 'diphthong' with another 'diphthong'.

The 'general' type of vowel alternation, so to speak, is restricted to certain lexical units alone, in medial and final environments. Besides, the alternation is in the vast majority of cases 'dialectal' whereby one's pronunciation of a particular word with a particular vowel therein can readily reveal the dialect area where that person comes from. This, indeed, implies that there are a few cases where the phenomenon affects the entire language. Thus, we can sub-classify this 'general' type of vowel alternation into: A. Non-Dialectal and B. Dialectal.

 $^{14}$  An 'utterance' here can be a lexical unit or a sentence.

# A. Non-Dialectal

As already indicated, there are only a few cases under this subcategory of 'general' vowel alternation, the non-dialectal. Among the few notable examples are the following:

I Short & Short (Word-Medial)

dy1ha:	~	daha:	direction, state
?ì∫ìriŋ	~	?à∫ìriŋ	twenty
∫ıc'ıjantfi:	~	∫ac'ıjantji:	act of shamelessness
muba:j1?a:	~	moba: ja?a:	a homage paid to a newly
			appointed chief
?bàr?bà∫i:	~	?bùr?bù∫i:	crumb, flake
wala:kantfi:	~	wola:kantfi:	contempt
<u> </u>	~	gwuŋgwurum	ideophone, expressing hugeness

II Short & Short (Word-Final)

?akwa:tu? ~ ?akwa:ti? box

III Long & Long (Word-Medial)

ni:sa: ~ ne:sa: make a sigh

IV Long & Long (Word-Final)

kwide:ri: ~ kwide:ru: chairs

?àgwo:gwo: ~ ?agwagwo: clock
sabo:dà? ~ sabàdà/sabàddà? because
je:dari: ~ jàdari: mat of reeds, grass used for
curtain or sitting

VI Diphthong & Monophthong (Word-Medial)

saiha:ni? ~ saha:ni? kettle

## B. Dialectal

It was mentioned before that the 'dialectal' sub-category of 'general' vowel alternation is much more common in the language than the 'non-dialectal' correlate. Now, below is a list of examples, with the particular dialect area(s) each item is more associated with, abbreviated against it<sup>15</sup>:

I Short & Short (Word-Medial)

za:bija:	~	za:bàja: (KT)	woman who leads singing
tfînje?	~	tjanjèi(KT & SK)	eat up
?ìgwa:	~	?àgwa: (SK)	artillery gun
c'ı∫ıŋc'ı∫i?	~	kw'ʊ∫ıŋkw'ʊʃiʔ (KT)	rumours
la:luba:	~	la:làba:(KT & SK)	grope for
taso:no:	~	tuso:no: (Zr)	dried nose-mucus
sansàna:	~	sonsona: (Zr)	smell at
kwo:kawa:	~	kwo:kwowa: (Zr & SK)	wrestling
?uŋgwulu?	~	?àŋgwùlu? (Zr & SK)	vulture
?ungwowa:	~	?angwowa: (Zr & SK)	ward in a town

II Short & Short (Word-Final)

be:li? ~	be:lu? (Zr)	uvula
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<sup>&</sup>lt;sup>15</sup> The first word in each pair is the form in the standard dialect and, the second being the 'alternative' used elsewhere. Similarly, the abbreviation KT (enclosed in parenthesis) stands for Katsina, Zr for Zaria, SK for Sokoto, Dr for Daura and Bau. for Bauchi.

# III Long & Long (Word-Medial)

dga:dge:	~	dze:dze: (KT)	word, expressing sympathy
			to somebody over a mis-
			fortune other than death
gwu:gwowa:	~	gwo:gwuwa: (Zr)	whirlwind
tu:bali:	~	to:bàli: (Zr)	brick
madu:bi:	~	madi:bi: (SK)	mirror
do:ci?	~	dù:ci? (Zr)	beat

IV Long & Long (Word-Final)

.

je:mu:	~	je:me: (KT & SK)	beard
màkarantu:	~	màkàrànti: (Bau.)	schools
takardu:	~	tàkàrdi: (Bau.)	papers
me:	~	mi: (KT & SK)	the interrogative
			particle 'what'
c1?da:	~	cı?di: (KT, SK & Dr)	drumming
re:ma:	~	re:me: (KT & Dr)	coney, hyrax
lυφa:φa:	~	lu¢a:¢i: (KT)	shroud
zane:	~	zani: (Zr)	wrapper
le:mo:	~	lè:mu: (Zr & KT)	orange
kw'ùlli:	~	kw'ullu: (Zr)	mixture prepared for
			frying or boiling

However, note that in the alternative form for the second and third words sampled from Bauchi, the -i: is a plural suffix, the stems being makarant- and takard- respectively. But, although the dialect in question employs this vowel immediately after alveolars 't' and 'd', the phonetic structure of these consonants is in no way affected by the usual phonological rule that palatalizes such consonants under such circumstances (Fig. I). For, one would have expected those words to have surface realization makarantfi:\* and takardsi:\* respectively in this particular dialect. This is also true of the second open syllable in madi:bi:, the Sokoto pronunciation of the word for 'mirror' exemplified under III above, where the consonantal element 'd' despite being followed by 'i:' is not palatalized either.

V Diphthong & Diphthong (Word-Medial)

rairaja: ~ ravraja: (KT) sift

VI Diphthong & Diphthong (Word-Final)

làm?bau ~ làm?bai (KT) lying comfortably

VII Diphthong & Monophthong (Word-Medial)

saisaja:	~	si:sıja: (Zr)	hair-cut
nau∫i:	~	nu:∫i: (Zr, KT & SK)	punch

Here too, it can be noticed that in the Zaria pronunciation of the word for 'hair-cut' exemplified under VII, despite the fact that the alveolar 's' in the first and second open syllables is followed by a front vowel it is never palatalized to 'j'.

# 2.1 THE ALTERNATION OF [1], [±] & [υ] IN THE STANDARD DIALECT

In the previous section, the kind of vowel alternation termed 'general' with sub-categories 'non-dialectal' and 'dialectal' was discussed. We saw that the alternation in question is confined to vowels in the medial and final positions of certain lexical units. Besides, we noticed that in most cases a long vowel always corresponds to another long, a short one to another short and a diphthong to a diphthong. Now, in this section, vowel alternation of another kind, the one that revolves round [1],  $[\frac{1}{2}] \& [\upsilon]$  'specific' will be examined in the standard dialect.

In Hausa, both the standard and non-standard dialects, the short forms of close front unrounded [1], close central unrounded [ $\pm$ ] and close back rounded [ $\upsilon$ ]<sup>16</sup> that are found exclusively utterance-medially within the phonological system, exhibit a very striking case of alternation. They show a very considerable tendency to alternate with one another under certain circumstances.

Nevertheless, from the point of view of orthography, the close central unrounded [i] as indicated under 1.2.3, has at present, no particular symbol for itself. As a variant for the vowel [u] or [I](or sometimes for both) it is written sometimes as 'u' and sometimes as 'i', e.g. dunki or dinki, 'sewing', fushi or fishi, 'anger'. There are also cases where 'i' exclusively is used in reference to it, e.g. niƙa, 'grind' rina, 'dye', ridda, 'apostasy'. The 'Working Party On Hausa Orthography' in its report mimeographed in 1972, gives reason

<sup>&</sup>lt;sup>1,6</sup> In the case of [1] & [v] the quality of closeness implies a position between close and half-close (see 1.2.1)

for the non-introduction of an additional symbol in reference to [i]. Such attempt, the Party believes, could just lead to confusion with the other alternating vowels that have ever since been adopted.

As a result of the research for this work, all the consonantal phonemes that are found to exist in the standard dialect will be reexamined by grouping them into five, viz. the labials, which include  $/\Phi$ , b, m, ?b and  $\Phi j/$ ; the coronals, which include /n, r, r, t, s, z, s', d, ?d and l/; the palatals, which include /j, t, d, c, j, c' and j/; the dorsals, which include /k, g, k', w, kw, gw and kw'/; and the glottals, which include /?, h and ?j/. This categorization is of great significance as reference will be made all along, to the behaviour of each consonant when it precedes a close vowel, back or front in an utterance, to determine how much effect its place of articulation may possibly have in the process of alternation. Besides, the kind of 'prosody' inherent in both consonant and following vowel (W- backing of the articulation with lip rounding, and Y- fronting of the articulation with lip spreading) will similarly be examined.

However, the 'palatalized bilabial fricative' and the 'palatalized glottal stop' consonantal phonemes  $/\Phi j$  and ?j/ respectively are found in a very limited environment within the phonological system. While  $[\Phi j]$  is exclusively found before the 'open central unrounded' [a] and the diphthong [au], [?j] on the other hand, occurs only before [a], as in the words  $\Phi j a$ :?dix, 'flog' /  $\Phi j aut \beta aut beta automatication of [au], 'swoop on' and 'ja:, 'daughter'$ respectively. We can thus eliminate these two from consideration withregard to the alternation of [1], [i] and [v] since these items never $follow either <math>/\Phi j/$  or /?j/. Similarly, it can be recalled that in Figure I we indicated that the phoneme /k/ has the allophone [c] before a front vowel, [kw] before a back vowel and [k] elsewhere; /k'/ has [c'] before a front vowel, [kw'] before a back vowel and [k'] elsewhere; and the phoneme /g/ has [J] before a front vowel, [gw] before a back vowel and [g] elsewhere. The idea is that the consonant sounds [c, c', J, kw, kw' and gw] have all got a dual role to play, viz. before a front or a back vowel each is an allophone of an underlying phoneme /k, k' or g/ accordingly and a phoneme elsewhere, i.e. before a/ai/au. The phoneme /w/ on the other hand, we said has [j] before a front vowel and [w] elsewhere. This means the consonant [w], like [k, k' and g] before a/ai/au, and unlike them, before a back vowel u/o, is a phoneme in its own right in so far as it occurs independently under those specified conditions:

Before -a/-a1/-au

wa:sa:	play
wata:	the moon
dsiwa:	dizziness
walna:	kind of f $\infty$ d
waota:	foolishness

wok'a:	knife
wuta:	fire
ka:wu?	uncle

sowu: going to sleep of foot or hand ga:worta? attain large size; be important

Before -o

wo:ba:	apprehension	
wo:@i:	useless	
wo`:dyija:	fat	
?bàra:wo:	thief [+ male]	
?ba:wo:	bark, peelings	

Now, turning to the situation where all those ten consonants [k, k', g, c, c', j, kw, kw', gw and w] have a phonemic status, i.e. before a/a1/au, this can, indeed, be substantiated by the following wide range of 'minimal pairs' covering all without exception:

Ι

k & c

11

karma:

carma:

a foot soldier " quivering, shivering

k & kw kari: kwari: 11 rhythm 11 valley k 11 g marka: màrga:

11

the period when rains \*\* kind of herb are at their peak

> k 11 ł

ka?dè? ja?dè3 11

shake off, especially dislodge an upright object so that τt it becomes in danger of falling dust



someone in another

town or village

# k "k'

kaori: "k'aori:

thickness " smell of burning rags, hair, etc.

k " c'

ka:sà? " c'a:sà?

be unable to " admire, especially a lady

k " kw'

ka:ra: " kw'a:ra:

courtesy " cheating





become upset, as in " come to an end, finish case of water

pour out some quantity of "take aim at

c & kw'

ca:re: " kw'a:re:

become upset, as in " choke while eating case of water



ca:re: " wa:re:

(as above) " separate, set apart

III

kw & g

kwari: " gari:

quiver " town

	kw	&	ł	
kwa:rè		* *		ta:rè
unveil, strip		17		repair all of things
	kw	11	gw	
kwâl		11		gwâl
coal		11		gold
	kw	**	k'	
kwari:		11		k'ari:
valley		**		tumour
	kw	11	c'	

kwa:le: " c'a:le:

reveal, of secret " ignore



'n

utensils displayed " repairs in a bride's room



<sup>17</sup> ga:ro: & c'a:ro: are used in Sokoto and Hadejiya (Kano State) respectively.


destitute person



<sup>18</sup> A Sokoto word, as against ja:s'a: in the standard dialect.

60 VI gw & k' gwale: " k'ale: disappoint " of children's game, cross the little finger over the fourth one gw " c' gwa:le: " c'a:le:

bulge, especially " ignore one's eyes

gw '' kw'

gwàða: " kw'àða:

forked stick " tutting

# gwalle: " walle:

vanity; self apprecia- " nakedness tion - all the affectations of one sex to attract the attention of the other



k' & c'

k'a:wa: " c'a:wa:<sup>19</sup>

desire " the name of a bird

k' '' kw'

k'arja: "kw'arja:

falsehood " calabash

<sup>19</sup> This word is used in Kebbi (Sokoto State)

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VIII

c'& kw'

c'auri: " kw'auri:

kind of grasshopper " shin bone

æ

c, 1, M

c'a:di: " wa:di:

a leper " going about

kw'& w

kw'a:ri: " wa:ri:

strength " unpleasant odour

The forty-five (45) minimal pairs provided, clearly testify the phonemic status of /k, k', g, c, c', j, kw, kw', gw & w/. However, since /k, k' & g/ precede only a/a1/au as phonemes, and that when a front vowel follows they have the surface realization of [c, c' & j] respectively or, when a back vowel follows, with the surface realization of [kw, kw' & gw] respectively, i.e. their phonemic status automatically getting lost under those circumstances, they too, can be eliminated from consideration as we have done with / $\phi$ j/ and /?j/. So that we are now left with twenty-seven (27) consonants on the list, twenty-one (21) as phonemes and six (6) as allophones. The possibility or otherwise of  $[1/\frac{1}{2}/\sigma]$  alternations will be examined in examples where these consonants immediately precede.

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IX

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Preceding Consonants To Be Examined For
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The Alternation Of [1],  $[\frac{1}{2}]$  & [v]

Labials: /b, 0, m & ?b/ Coronals: /n, r, r, t, s, z, s', d, ?d & 1/ Palatals: /ʃ, tʃ, dʒ & j/<sup>20</sup> Dorsal: /w/ Glottals: /? & h/

<sup>&</sup>lt;sup>20</sup> While j is a palatal consonant,  $\int$ , f & ds are not pure palatals. They are alveo-palatals to be precise, but the feature value of palatality which they have, has the same significant effect on this type of vowel alternation as the one with j, as we shall see as we go along.

An 'utterance', as indicated before, can be 'short' (lexical unit/ word) or 'long' (sentence). For the present purpose, a capital 'A' will be used in reference to a short utterance and a capital 'B' to a long one. In 'A' three particular cases will be examined:

- 1) the case in a simple word
- 2) the case of the underlying /v/ in the plural morpheme  $\{-vCa:\}$
- 3) the case where i: and u: are reduced

In 'B' four cases will be examined, as follows:

- 1) a labial preceding what is considered as an underlying /I/
- 2) a coronal preceding an underlying /v/
- a labial preceding an underlying /v/ with 'spreading' in the following segment
- a labial/a coronal preceding an underlying /1/ with 'rounding' in the following segment

#### 'A'

### 2.1.1 THE CASE IN A SIMPLE WORD

The alternation of [I], [i] & [v] in a 'simple' word can, generally speaking, best be treated according to whether the segment affected is single or otherwise. In other words, whether the alternation affects one segment only, or more than one in succession. For this reason, therefore, the two possibilities will be looked into separately.

### 2.1.1.1 IN A SINGLE SEGMENT

We will examine first, the situation in a single segment of a word. Here, thirty-five different words are selected as specimen: <u>five</u> with preceding labials, <u>ten</u> with coronals, <u>six</u> with phonemic palatals, <u>two</u> with phonemic dorsal, <u>six</u> with glottals and lastly, <u>three</u> each with allophonic palatals and dorsals respectively in the same position.

## 2.1.1.1.1 Preceding Consonant [+ lab.]

First of all, let us examine the empty vowel slot in each of the following words, where the preceding consonant is a labial:

- 1. b-ci: ceremony
- 2. b-gwu: beating
- 3. ta:?b-ka? manage

- <b>.</b> .	<b>Ψ</b> − <b>Lα Ι</b>	go out
5.	m-lci:	power

In the standard dialect, the kinds of vowels that fill these slots revolve round these three  $(1, \pm \& \upsilon)$ . Below is a table showing which occur in which slot, according to the pronunciation of the words by the five selected speakers of this dialect:

		Α	В	С	D	Ε
1.	b-ci:	I	÷	ŧ	I	÷
2.	b-gwu:	υ	υ	υ	ឋ	υ
3.	ta:?b-ka?	υ	υ	ŧ	υ	υ
4.	<b>∮-ta</b> ?	ŧ	I	I	Ŧ	ŧ
5.	m-lci:	ŧ	ប	Ŧ	ប	ប

The pronunciation of the first word as bici: is favoured by <u>two</u> as against <u>three</u> as bici:, that of the second as bugwu: is maintained by <u>all</u>; that of the third as ta:?bukai is favoured by <u>four</u> and, as ta:?bikai by <u>one</u>; that of the fourth as  $\phi$ itai is favoured by <u>three</u> as against <u>two</u> as  $\phi$ ita; and, finally, the pronunciation of the last word as milci: is favoured by <u>two</u> as against <u>three</u> as mulci:. So that in 1 & 4, [1] and [i] are seen to alternate, [u] and [i] are seen to do in 3 & 5, whereas [u] alternates with neither in 2. 2.1.1.1.2 Preceding Consonant [+ cor.]

A coronal precedes each empty slot in the following:

.

1.	n-s'e:	sink down
2.	r-bu:tu:	writing
з.	r-ga:	Fulani cattle encampment
4.	t-rmi:	mortar
5.	s-øe:to:	police inspector
6.	z-•a:	sweat
7.	s'-ns'u:	bird
8.	?aud-ga:	cotton
9.	?d-mi:	warmth
10.	?da:l-bi:	student [+ male]

The table below represents the vowel(s) for each slot:

		А	В	С	D	Ε
1.	n-s'e:	i	i	i	i	÷
2.	r-bu:tu:	ŧ	ប	ប	υ	ឋ
з.	r-ga:	Ŧ	ŧ	ŧ	ឋ	υ
4.	t-rmi:	ŧ	ŧ	i	÷	ŧ
5.	s-@e:to:	ŧ	i	ŧ	ŧ	÷
6.	z-фa:	ŧ	ប	ŧ	υ	ŧ
7.	s'-ns'u:	ΰ	ŧ	ប	υ	υ
8.	?aud-ga:	ŧ	ŧ	υ	÷	ŧ
9.	?d-mi:	i	i	I	ŧ	ប
10.	?da:l-bi:	ŧ	ŧ	÷	ŧ	ŧ

All five speakers employ  $[\frac{1}{2}]$  in 1, 4, 5 & 10, while  $[\frac{1}{2}]$  alternates with [v] in 2, 3, 6, 7 & 8 and, with both [v] and [I] in example 9.

2.1.1.1.3 Preceding Consonant [+ phon.pal.]

A phonemic palatal precedes each slot in the following:

1.	∫-rwa:	kite
2.	∫-da?	six
3.	t∫-kwo:wa:	overcrowd
4.	t∫–re <b>:</b>	remove
5.	d <del>3</del> -wa:	dizziness
6.	j-ŋwa:	hunger

The vowel table:

		A	В	С	D	E
1.	∫-rwa:	υ	υ	I	ប	υ
2.	∫-da?	I	I	I	I	1
3.	tf-kwo:wa:	υ	I	ប	1	Ծ
4.	tf−re3	I	I	I	I	I
5.	dz-wa:	I	υ	I	σ	ប
6.	j-ŋwa:	I	υ	I	I	I

In these examples, the vowels that fill the slots centre round [1] & [v] only to the exclusion of [i]. In numbers 1, 3, 5 & 6 the

two are found to alternate, while only [1] is seen to occur in 2 & 4.

2.1.1.1.4 Preceding Consonant [+ phon. dor.]

Each slot is preceded by the phonemic dorsal /w/ in the words below:

1.	w-ja:	neck
2.	w-ta:	fire

The vowel table:

.

		А	в	С	D	Е
1.	w-ja:	ប	ប	υ	I	υ
2.	w-ta:	υ	υ	υ	ឋ	υ

It can be seen from the table that just as when a phonemic palatal precedes,  $[\frac{1}{2}]$  never occurs in this situation. In the first word, [v] & [1] are found to alternate, while [v] is maintained by <u>all</u> speakers in the second.

A glottal consonant precedes each slot in the following:

1.	?-ba:	father
2.	?-do:	eye
3.	h-kwu:ma:	authority
4.	h-ka:ja:	narrative

The vowel table:

		A	В	С	D	Ε	
1.	?-ba:	υ	ប	ប	ប	υ	
2.	?-do:	I	I	I	I	I	
3.	h-kwu:ma:	υ	υ	υ	ប	υ	
4.	h-ka:ja:	I	I	I	I	I	

The pronunciation of each word under these circumstances is quite consistent, with [v] in 1 & 3, and [1] in 2 & 4. Again,  $[\frac{1}{2}]$  never occurs.

2.1.1.1.6 Preceding Consonant [+ al. pal.]

An allophonic palatal precedes each slot in the following:

1.	c-s'o:	plaiting of hair
2.	Φıc'–hu?	the science of Islamic law
3.	j-zoj	the mythical spider of fables
4.	c-ra:	calling

The vowel table:

		Α	В	С	D	$\mathbf{E}$	
1.	c-s'o:	I	I	υ	I	υ	
2.	Φıc'-hu?	I	I	I	υ	I	
3.	J-zo3	I	υ	I	I	I	
4.	c-ra:	I	I	I	I	I	

It is noticeable here that while [1] & [v] feature in the pronunciation of the first three words, [1] alone occurs in the fourth word. In other words, while the two alternate in 1 - 3, it is the opposite in 4. [i] never occurs. 2.1.1.1.7 Preceding Consonant [+ al. dor.]

In the following, an allophonic dorsal precedes each slot:

1.	?akw-ja:	goat
2.	huŋkw'-ji?	place name
3.	gwa:gw-ji	gnaw at
4.	kw-sa?	near

The vowel table:

.

		Α	В	С	D	Ε	
1.	?akw-ja:	ប	ប	υ	I	υ	
2.	hunkw'-ji?	υ	σ	ឋ	I	ឋ	
3.	gwa:gw-ji	ប	I	υ	υ	ប	
4.	kw-sa?	υ	ប	υ	υ	υ	

Here too, [i] is not reflected at all, whereas [v] features in all examples and, in three cases [1] alternates with it.

### 2.1.1.2 IN MORE THAN ONE SEGMENT

In 2.1.1.1 various instances where [1],  $[\frac{1}{2}]$  & [v] are found to alternate in a single segment of a simple word were examined. We saw in <u>one</u> case where the three vowels atternate (cf. example 9; 2.1.1.1.2), and in other cases just two. In addition, we witnessed a situation where the alternation does not apply at all (cf.2.1.1.1.5). This section will look into other cases where the alternation occurs in two successive segments.

Generally speaking, for the particular alternating vowels that occur in two successive slots, this is a matter of combination from amongst the three. In theory, there are nine possible combinations:

I	ប	&	υ	
II	υ	*1	ŧ	
III	ប	**	I	
IV	i	11	ŧ	
v	ŧ	11	I	
VI	i	11	ប	
VII	I	11	I	
VIII	I	11	ប	
IX	I	11	ŧ	

Now, let us consider the two successive empty slots in the following words, with the preceding consonant revolving round labials and coronals:

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1.	b-nd-ga:	gun
2.	<b>∮-t-la:</b>	lamp, light
з.	<b>Φ−ΦΦ−ce:</b>	wing
4.	d-dd-je:	heel
5.	t-mb-?di:	regurgitation
6.	s-m-nti:	cement
7.	s-r-ci:	inlaw [+ male]
8.	1-11-?bi:	veiling
9.	r-b-?i:	one-quarter
10.	kwud-dd-@i:	pond

However, as already indicated, the particular vowels for such slots will depend on those nine combinations. So let us examine the pronunciations of these words in this dialect as provided in the corresponding table:

		I	II	III	IV	v	VI	VII	VIII	IX
	WORDS	<b>ʊ</b> –ʊ	υ−i	<b>υ−</b> 1	i-i	i-1	i−υ	1-1	1–U	1-i
1.	b-nd-ga:				4					1
2.	<b>Φ-t-la</b> :				4					1
3.	<b>Φ−ΦΦ−ce</b> :				2	1		2		
4.	d-dd-je:		1		4		-			
5.	t-mb-?di:	1			2	1	1			
6.	s-m-nti:				3	2				
7.	1-11-?bi:	1			4					
8.	s-r-ci:		2		3					
9.	r-b-?i:	1		1	3					
10.	kwud-dd-@i:		2		3					
NUME	BER OF OCCURRENCES	33	5	1	32	4	1	2	0	2

In this table, it is noticeable that the pronunciation of each word varies according to the vowel combination employed in the successive slots by a speaker. Furthermore, all those combinations other than VIII  $(I-\sigma)$  are reflected:

In example 1, pronunciation with combination IV bindiga: is favoured by <u>four</u> speakers and, with combination IX bindiga: by <u>one</u>.

In example 2, the case is the same as the first one. Four favour comb. IV  $\phi$ itila:, while one favours IX  $\phi$ itila:

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In example 3, <u>two</u> speakers favour  $\phi_i\phi_ice$ : comb.IV, <u>one</u> favours  $\phi_i\phi_ice$ : comb.V and two favour  $\phi_i\phi_ice$ : comb.VII.

In example 4, comb.II duddige: and comb.IV diddige: are favoured by one and four speakers respectively.

In example 5, pronunciation with comb.I tumbu?di: is favoured by <u>one</u>, with comb.IV timbi?di: by <u>two</u> and, with combs.V and VI timbi?di: and timbu?di: respectively, by one each.

In example 6, combs. IV and V siminti: and siminti: are respectively favoured by three and two speakers.

In example 7, lullu?bi: comb.I and lilli?bi: comb.IV are favoured by one and four speakers respectively.

In example 8, <u>two</u> favour surici: comb.II and <u>three</u> favour comb.IV sirici:.

In example 9, combs.I and III rubù?i: and rubì?i: respectively are each favoured by one speaker and comb.IV ribì?i: by three.

Finally, in example 10, while comb.II kwududdiai: attracts two speakers, comb.IV kwudiddiai: is favoured by three.

Thus, on the basis of those ten particular words and their various pronunciations by the five selected speakers of this dialect, it is clear that the number of possible vowel combinations per word ranges from two (cf. 1, 2, 4, 7, 8 & 10) to four (cf. 3 & 5). Similarly, the number of occurrences of those combinations in relation to the whole words ranges from zero (cf. comb.VIII) to thirty-two (cf. comb.IV).

# 2.1.2 THE CASE OF THE UNDERLYING /u/ IN THE PLURAL MORPHEME {-uCa:}

There are very many ways in which singular words are pluralized in Hausa. Among them are the following two:

1) The type that basically requires a suffixation of -una: or -uka: to the stem, at times with the gemination of the stem-final consonant, such as ba:k-of bà:ci:, 'mouth' + -una: > ba:kwunà: (pl.); dam- of dami`:, 'bundle of guinea-corn or millet' > damm- + -una: > dammunà: (pl.); and, zaur- of zaure`:, 'entrance hut leading into a compound' + -uka: > zauruka`: (pl.) or, with both the gemination of the stem-final consonant and reduplication of the suffix, such as bak- of bàka:, 'bow' becoming bakk- then bak-un-k-una:, with the realization bakwunkwuna`: (pl.).

2) The one in which a short 'a' in a penultimate syllable of the singular turns into 'v' before -a: is suffixed to the stem, whose final consonant in addition, geminates in certain cases, such as tamb-r- of tambàri:, 'a royal drum' > tamburà: (pl.) and, jar-?d- of jarà?di:, 'pre-condition' > jaru?d?dà: (pl.).

For the purpose of this work however, these two different ways of plural formation will be collapsed under {-vCa:} plural morpheme, with the C standing for any viable consonant, since the v's with which we are concerned are found to behave similarly, as we will see later. The /v/ in this plural morpheme {-vCa:} is considered here to be the underlying form in so far as it occurs after almost all those consonants being examined for 1/i/v alternations,<sup>21</sup> unlike the two alternants I & i that tend to have some limitations: [I] occurring as an alternant for the /v/ where the preceding consonant is a palatal, and [i] in turn, occurring where the preceding consonant is a labial or a coronal, as we will see in the forthcoming examples.

## 2.1.2.1 Preceding Consonant [+ lab.]

The plural nouns below have each an empty vowel slot preceded by a labial consonant:

1.	kwabb-na:	pennies
2.	ka?b-ka:	calabashes of food for a feast
3.	lao-za:	speeches, pronunciations
4.	ra:m-ka:	pits, holes

<sup>&</sup>lt;sup>21</sup> Only four of the twenty-seven count as exceptions, namely ?, c, c' & j. The last three being allophones conditioned by a following front vowel, naturally one would not expect them to occur under this condition. For the glottal stop ? too, the question of occurrence under this condition does not arise either, in so far as this, as a stem-final consonant does not take the suffix under consideration.

The vowel table:

		А	В	С	D	$\mathbf{E}$	
1.	kwabb-na:	Ծ	_	ប	ŧ	ប	
2.	ka?b-ka:	υ	ប	υ	ឋ	ប	
3.	la∮–za:	ŧ	÷	ប	υ	υ	
4.	ra:m-ka:	υ	ប	ប	ប	ប	

In this pattern while the [v] is retained by all five speakers in examples 2 & 4, [i] on the other hand, is seen to alternate with it once in the first word and <u>twice</u> in the third.

2.1.2.2 Preceding Consonant [+ cor.]

The empty slots in the words below are preceded by a coronal:

1.	s'aon-ka:	hills
2.	ha?dar-rr-ka:	accidents
з.	ta:r-rr-ka:	conferences
4.	ti:t-na:	streets
5.	hars-na:	languages
6.	da:z-zz-ka:	forests
7.	hans'-ka:	forceps, tongs, pincers
8.	kwand-na:	baskets
9.	ha?d-ra:	accidents
LO,	hu:1-na:	caps

The vowel table:

		A	В	С	D	F,
1.	s'aun-ka:	ŧ	ŧ	υ	ŧ	ŧ
2.	ha?dar-rr-ka:	i-i	i−υ	i-i	i-i	-
3.	ta:r-rr-ka:	ឋប	ʊ–ʊ	i-i	ບ–ບ	ບ–ບ
4.	ti:t-na:	ŧ	ប	ŧ	ŧ	i
5.	hars-na:	ប	i	ប	ī	i
6.	da:z-zz-ka:	-	i-i	i-i	<b>ʊ</b> –ʊ	i-i
7.	hans'-ka:	ប	ŧ	i	ឋ	i
8.	kwand-na:	ប	υ	ប	ŧ	ŧ
9.	ha?d-ra:	ŧ	υ	-	ŧ	υ
10.	hu:l-na:	υ	ŧ	ŧ	ŧ	σ

In 1 & 4 as can be seen, the [v] is reflected <u>once</u> each; <u>twice</u> each in 5, 7, 9 & 10; and, <u>three</u> times in 8, while pronunciation with [i] features in the other cases. In 2 & 6, i-i is favoured by <u>three</u> speakers each, while i-v & v-v each attracts <u>one</u> speaker. Similarly, in 3, while v-v is favoured by <u>four</u>, i-i attracts <u>one</u> speaker. 2.1.2.3 Preceding Consonant [+ phon. pal.]

A phonemic palatal precedes each slot in the following:

1.	wa:∫-na: <sup>22</sup>	washers (for nuts)
2.	hant∫-na:	noses
з.	?ındy-na:	engines
4.	k'avj-ka:	villages

The vowel table:

		Α	В	С	D	E	
1.	wa:∫-na:	I	-	-	I	_	
2.	hant∫-na:	I	_	I	I	I	
з.	?ındy-na:	I	I	I	I	I	
4.	k'auj-ka:	Ծ	Ծ	I	I	ប	

The [v] here features only in example 4 with <u>three</u> occurrences, whereas the alternant [I] predominates the pronunciation.

<sup>22</sup> wa: jo: ji and hantuna: are alternative forms of the first and second words respectively. In the first one, {-o:Ci:} plural morpheme is suffixed to the stem wa: j- in place of {-una:}, while the stemfinal consonant tf is depalatalized in the second. 2.1.2.4 Preceding Consonant [+ phon. dor.]

The following have the empty slot preceded by an allophonic dorsal:

1.	?alkaw-ra:	promises

2. ?aka:w-na: clerks

The vowel table:

		Α	В	С	D	$\mathbf{E}$	
1.	?alkaw-ra:	υ	υ	υ	υ	υ	
2.	?aka:w-na:	υ	σ	υ	υ	υ	

All five speakers maintain the [v]. Neither [1] nor  $[\frac{1}{2}]$  alternates with it under these circumstances.

2.1.2.5 Preceding Consonant [+ glot.]

Preceding each slot in the words below is the glottal fricative:<sup>23</sup>

1.	buh-na:	sacks

2. sanh-na: kinds of bag

 $^{23}$  The glottal stop as a stem-final consonant, does not take this suffix.

e

The vowel table:

		A	В	С	D	E	
1.	buh-na:	ប	ប	υ	υ	υ	
2.	saŋh-na:	υ	υ	ប	υ	υ	

The  $[\upsilon]$  is generally maintained in the same way as in the case of /w/ preceding.

2.1.2.6 Preceding Consonant [+ al. dor.]

An allophonic dorsal precedes each slot in the following:

1.	bankw-na:	banks
2.	sa:kw'-na:	corners, recesses
3.	bargw-na:	blankets

The vowel table:

		A	В	С	D	E	
1.	bankw-na:	ប	ឋ	ប	ប	ប	
2.	sa:kw'-na:	ΰ	ប	ប	ប	υ	
3.	bargw-na:	ប	ប	υ	υ	υ	

Again, it is noticeable here that the [v] is maintained by all five speakers.

### 2.1.3 THE CASE WHERE i: & u: ARE REDUCED

We will examine here specifically, instances where 'reduction' is effected on i: and u: to function within a closed syllable, and see what effect this may have on the vowel alternation under consideration. In the first chapter it can be recalled, we said that a 'long' wowel or 'diphthong' is never found in a closed syllable, and that it has to be shortened or monophthongized accordingly. To recapitulate a few examples, ?da:ci`:, 'room' + -n > ?da:ci`n, 'the room' (?da:ci`:n)\* and kâi, 'head' + -n > kân, 'the head' (kâin)\*. For convenience and clarity however, the two vowels i: & u: will be treated separately.

### 2.1.3.1 THE REDUCTION OF i:

We will look into first, the situation where i: is reduced, as in the word rakw'umi:, 'a camel' > rakwumin, 'the camel'. As the vowel when final is i:, the reduced vowel in the closed syllable is referred to as the underlying /1/. 2.1.3.1.1 Preceding Consonant [+ lab.]

The empty slot in each of the following is preceded by a labial and followed by the nasal deictic consonant<sup>24</sup>. The vowel is thus in a closed syllable with low or falling tone:

	1.	takwo:b-ŋ		<	takv	w:bi	1:
		the sword			SV	vord	
	2.	dzı ?b-ŋ		<	dzi ?h	oi:	
		the perspiration	on		pe	erspi	iration
	3.	ra:⊈-ŋ		<	ra:	Þi:	
		the stream			si	trean	n
	4.	ra:m-ŋ		<	ra:r	ni:	
		the hole			ho	ole	
The vowel	table	e:					
			A	в	с	D	E
	1.	takwo:b-ŋ	I	I	i	ŧ	÷
	2.	da ?b-ŋ	I	ŧ	ŧ	÷	÷
	3.	ra: •-ŋ	i	i	ŧ	ŧ	I
	4.	ra:m-ŋ	i	I	i	Ŧ	I

<sup>24</sup> This nasal deictic consonant is otherwise known as the 'referential', associated with masculine object, the corresponding one associated with feminine object being -r, as in hu:la:, 'a cap' + -r > hu:lâr, 'the cap'.

In these examples, the five speakers mostly use [i] as the reduced vowel, speakers C and D employing [i] in all four examples. The other speakers each use the vowel [1] in two of their examples, and each example pronounced with same by one or other of the speakers.

# 2.1.3.1.2 Preceding Consonant [+ cor.]

A coronal precedes each slot in the following:

1.	ra:n-ŋ	<	ra:ni:
	the dry season		dry season
2.	la:ba:r-ŋ	<	la:ba:ri:
	the story		story
3.	bu:r-ŋ	<	bu:ri:
	the ambition		ambition
4.	kant-ŋ	<	kanti:
	the shop		shop
5.	si:s-n	<	si:si:
	the sixpence		sixpence
6	htman	,	hungi
υ.	the seeking for		seeking for God's
	God's protection		protection

7.	sans'-ŋ	<	sans'i:
	the slipperiness		slipperiness
8.	maiga:d-ŋ	<	malga:di:
	the guard		guard
9.	kwu?d-ŋ	<	kwu?di:
	the money		money
10.	?alka:1-ŋ	<	?alka:li:
	the judge		judge

The vowel table:

		A	В	С	D	E
1.	ra:n-ŋ	ŧ	ŧ	i	ŧ	ŧ
2,	la:ba:r-ŋ	ŧ	i	ŧ	ŧ	ŧ
3.	bu: <b>բ–</b> դ	i	i	ŧ	ŧ	i
4.	kant-ŋ	i	ŧ	i	i	ŧ
5.	si:s-ŋ	ŧ	ŧ	ŧ	ŧ	ŧ
6.	hırz-ŋ	ŧ	ŧ	ŧ	ŧ	ŧ
7.	sans'-ŋ	i	ŧ	i	÷	Ŧ
8.	maiga:d-ŋ	i	ŧ	ŧ	i	Ŧ
9.	kwu?d-ŋ	ŧ	÷	÷	÷	ŧ
10.	?alka:1-ŋ	i	i	i	ŧ	ŧ

All speakers pronounce the words with  $[\pm]$ . In other words, under this condition there is no question of vowel alternation, examples

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with long -i: final have [i] for the reduced vowel in the closed syllable here.

2.1.3.1.3 Preceding Consonant [+ phon. pal.]

Each slot in the following is preceded by a phonemic palatal:

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1. ba:∫-ŋ	ba:∫i:		
	the debt	debt	

2. bartj-ŋ		bartji:
	the sleep	sleep

3.	? Indy-1)	?ındşi:
	the engine	engine

4.	∫a:j-ŋ	∫a:ji:
	the tea	tea

The vowel table:

		А	В	С	D	Ε
1.	ba:∫-ŋ	I	I	I	I	I
2.	bart-ŋ	I	I	1	I	I
3,	? 1ntz-ŋ	I	I	I	I	I
4.	∫a:j–ŋ	1	I	I	I	I

The [1] under these circumstances is maintained by all speakers with no alternation.

## 2.1.3.1.4 Preceding Consonant [+ phon. dor.]

In the environment before a front vowel, like /k, k' & g/, we said /w/ is palatalized, having the surface realization [j]. The singular noun ba:wa:, 'slave [+ male]' for instance, has the plural ba:ji: (ba:wi:)\* when the plural suffix -i: is added to the stem ba:w-(see Figure I). However, the exceptional word for 'Indian hemp', wi:wi: in which such palatalization does not apply, provides a good specimen for this purpose:

ABCDE wi:w-ŋ III UI

The [I] has four occurrences here, whereas the alternant [v] features once.

2.1.3.1.5 Preceding Consonant [+ glot,]

A glottal consonant precedes each slot in the following:

1.	nav?-ŋ	<	nav?i:
	the type		type
2.	ru:h–ŋ	<	ru:hi:
	the soul		soul

The vowel table:

		A	в	Ç	D	E
1.	nav?-ŋ	I	I	I	I	I
2.	ru:h-ŋ	1	I	I	I	1

As in the case of palatal preceding under the same condition . where we witnessed [1] in the pronunciation of all speakers, here too, [1] is maintained consistently without alternation.

2.1.3.1.6 Preceding Consonant [+ al. pal.]

Each slot in the following is preceded by an allophonic palatal:

1.	do:c-ŋ	<	do:ci:
	the horse		horse

2.	bac'-ŋ	<	bac'i: [+ male]
	the black one		black one

3.	kwo:J-ŋ	<	kwo:ji:
	the river		river

The vowel table:

		А	В	С	D	Ε
1.	do:c-ŋ	I	Ι	I	I	I
2.	bac'-ŋ	I	I	I	1	I
з.	kwo: J-ŋ	I	I	I	I	I

Here too, there is no case of any vowel alternating with the [1].
#### 2.1.3.2 THE REDUCTION OF u:

We will now focus on the situation where u: is reduced. As the vowel when final is u:, the reduced vowel in the closed syllable will be referred to as underlying /v/.

## 2.1.3.2.1 Preceding Consonant [+ lab.]

In each of the following, the empty slot within the closed syllable is preceded by a labial consonant:

1.	lamb-ŋ	<	làmbu:
	the garden		garden
2.	jım?d—ŋ	<	jım?bu:
	the clay		clay
3.	sa:m-ŋ	<	sa:mu:
	the wealth		wealth

The vowel table:

		А	В	С	$\mathbb{D}$	$\mathbf{E}$
1.	lamb-ŋ	ឋ	υ	ŧ	υ	υ
2.	jım?b-ŋ	υ	υ	ŧ	Ծ	ŧ
3.	sa:m-ŋ	Ծ	ប	ប	ប	ប

The vowel [v] is maintained by <u>four</u> speakers in the first word, by <u>three</u> in the second and, by <u>all</u> speakers in the third word. On the other hand, a case of [i] alternating with it is witnessed <u>once</u> and <u>twice</u> respectively in the first and second words.

## 2.1.3.2.2 Preceding Consonant [+ cor.]

A coronal precedes each slot in the words below:

1.	kwon-ŋ	<	kwonu:
	the gruel		gruel
2.	tattabarŋ the pigeons	<	tàttàbàru: pigeons
3.	∫ır-ŋ the silence	<	∫ıru: silence
4.	kara:t-ŋ the reading	<	kàrà:tu: reading
5.	s-ŋ the fishing	<	sû: fishing
6.	bu:z-ŋ the sheep-skin	<	bu:zu: sheep-skin

7.	ja:s'-ŋ	<	ja:s'u:
	the fingers		fingers
8.	gand-ŋ	<	gandu:
	the farm		farm
9.	ru:?d-ŋ	<	ru:?du:

10.	sa:bʊ1-ŋ		<	sa:bulu:

the confusion

the soap	soap

confusion

The vowel table:

		Α	В	С	D	E
1.	kwon-ŋ	i	ŧ	i	i	υ
2.	tattabar-ŋ	ŧ	i	i	ŧ	Ŧ
3.	∫ւԸ–ŋ	ŧ	υ	i	i	ប
4.	kara:t-ŋ	i	ប	ŧ	i	i
5.	s-ŋ	ŧ	Ŧ	ŧ	ប	ប
6.	bu:z–ŋ	ŧ	υ	υ	ŧ	ŧ
7.	ja:s'-ŋ	ŧ	ឋ	ឋ	ប	υ
8.	gand-ŋ	i	υ	i	Ŧ	i
9.	ru:?d-ŋ	÷	÷	υ	Ŧ	ŧ
10.	sa:bvl-ŋ	i	ŧ	÷	ŧ	υ

Out of fifty (50) utterances, thirty-five (35) are pronounced with  $[\underline{i}]$  and fifteen (15) with  $[\underline{v}]$ . Speaker A consistently use

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alternant [i], and only the second word is consistently pronounced with same. In addition, under the same circumstances if we compare these vowel distributions on the one hand, with the general realization of a reduced [i:] as [i] rather than [I] (see 2.1.3.1.2) on the other, we can notice considerable cases of 'neutralization', i.e. the neutralization of [I] and [v] to [i]. Compare for example, the case of là:ba:rìn, 'the story' and tàttàbàrîn, 'the pigeons'; maiga:dìn, 'the guard' and gandin, 'the farm', to mention just a few.

2.1.3.2.3 Preceding Consonant [+ phon. pal.]

A phonemic palatal precedes each slot in the following:

1.	dgu:dg-ŋ		dar:dar:		
	the evil spirit		evil	spirit	

2. ma:j-ŋ < ma:ju: the witches witches

The vowel table:

		А	В	С	D	Ε
1.	તરા :તર–1	I	I	I	υ	I
2.	ma:j-ŋ	ប	I	υ	υ	ប

The [v] is reflected <u>once</u> in the first word and <u>four</u> times in the second. Conversely, the alternant [1] features <u>four</u> times in the

first word and <u>once</u> in the second. So that the frequency of occurrence between the two is exactly balanced here.

2.1.3.2.4 Preceding Consonant [+ phon. dor.]

The phonemic dorsal /w/ precedes each slot in the following:

1.	ja:w-ŋ	<	ja:wu:
	the saliva		saliva
2.	sa:w-ŋ	<	sa:wu:
	the feet		feet

The vowel table:

		Α	В	С	D	Ε
1.	ja:w-ŋ	ប	ប	ซ	ប	ឋ
2,	sa:w-ŋ	ប	ឋ	ប	ប	υ

In both words, it can be noticed that the [v] is maintained by all speakers consistently without alternation.

2.1.3.2.5 Preceding Consonant [+ glot.]

A glottal consonant precedes each slot in the following:

- 1. rokwu:?-ŋ < rokwu:?u:
   the bending over bending over in devotions
   in devotions</pre>
- 2. bvh-ŋ < bùhu: the sack sack
- 3. hu:h-ŋ < hu:hu: the package of package of kola-nuts kola-nuts

The vowel table:

		Α	В	С	D	$\mathbf{E}$
1.	rokwu:?-ŋ	υ	υ	ប	ប	ប
2.	buh-ŋ	υ	ប	ប	υ	υ
3.	hu:h-ŋ	υ	υ	υ	υ	υ

The [v] here again, is maintained by all speakers without alternation.

2.1.3.2.6 Preceding Consonant [+ al. dor.]

Preceding each slot in the following is an allophonic dorsal:

1.	majankw-n	<	majankwu:
	the abattoirs		abattoirs

2.	masa:kw'-ŋ	<	masa:kw'u:
	the textiles		textiles

3.	kalaŋgw-ŋ	<	kalangwu:
	the kind of drum		kind of drum

、 、

The vowel table:

		А	В	С	D	Ε
1.	majankw-n	υ	ប	ប	υ	ឋ
2.	masa:kw'-ŋ	ប	ប	ប	ប	ប
з.	kalangw-n	Ծ	ប	ឋ	ប	υ

Under these circumstances too, as can be noticed, the [v] features in all the cases without any alternation.

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#### 2.2 ALTERNATION IN A LONG UTTERANCE

In 2.1 we looked into various cases of the alternation of [1],  $[\pm] \& [\upsilon]$  in a short utterance or word. We examined both the situation in a single segment and beyond. In this sub-section we will focus on this alternation in a long utterance or sentence. However, as stated from the beginning, four cases will be examined, namely a labial preceding what is considered as an underlying /1/; a coronal preceding an underlying / $\upsilon$ /; a labial preceding an underlying / $\upsilon$ / with 'spreading' following; and, finally, a labial/coronal preceding an underlying / $\iota$ / with 'rounding' following.

#### 2.2.1 A Labial Preceding Underlying /1/

The following words in pause, have a short -i final vowel followed by a prosodic glottal stop:

- 1. hàrbi? shoot at
- 2. di:bi? the day after tomorrow
   3. za:?bi? elect, choose
   4. kar?bi? receive
- .
- 5. haiqi? give birth
- 6. tàoi? go
- 7. jîrmi? be older by age
- 8. sàllàmi? dismiss

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'B'

When followed by another item, however, the glottal stop disappears and [i] very often alternates with it in this dialect, regardless of the phonology of that following item. Examine the words as used in a long utterance below, along the line of the corresponding table given at the end:

- Ya harb- akun
   [ja:hàrb-?àkwôŋ]
   He shot at the parrot
- 2. Jib- Isa zai komo
  [dzi:b-?i:sa:zaîkwo:mo:?]
  It is the day after tomorrow that Isa will come back
- An za6- Audu
   [?anzà:?b-?audù?]
   Audu is elected/chosen
- 4. Sun kar6- nasu
  [suŋkàr?b-na:sù?]
  They received theirs
- 5. Ta haif- 'ya mace
  [ta:hai Φ-?ja:màtſè?]
  She gave birth to a baby girl

- 6. Mun taf- gida [mmtà•-jida:] We went home
- 7. Ya girm- Isa [ja:jìm-?i:sa:] He's older than Isa
- An sallam- leburori
   [?ansàllàm-le:buro:ri:]
   Labourers are dismissed

The vowel table:

	ł	ł	]	В	(	С	]	D	]	3	
	I	Ŧ	I	i	I	i	I	i	I	i	
г		~	v			v		*		~	
2.		~		~	V		V			~	
3.		$\checkmark$	~			~		V	~		
4.		$\checkmark$	~			~		V		~	
5.		√		√		~		v		~	
6.	1			1	~			V		~	
7.	✓			7	V		V		~		
8.	√		V			V		V		~	
NUMBER OF OCCURRENCES	3	5	4	4	3	5	2	6	2	6	

It is noticeable that the short -i in pause realized as [I] without the glottal stop under these circumstances, and  $[\pm]$  make a lot of alternation. The alternant  $[\pm]$  in relation to the pronunciation of the words by these speakers features twenty-six (26) times (65%) and the [I] fourteen (14) times (35%).

#### 2.2.2 A Coronal Preceding Underlying /u/

In pausal position, the final vowel to each of the following is regularly a short -u accompanied by a glottal stop:

- 1. sanu? be well known
- 2. kamaru? place name
- 3. ¢a:ru? place name
- 4. kwo:tu? court
- 5. gàmsu? be satisfied
- 6. janzu? now
- 7. tà:s'u? be well milked
- 8. gwandu? place name
- 9. hà?du? meet
- 10. ?u:lu? woollen thread

However, when followed by another item,  $[\pm]$  alternates with it irrespective of the phonology of that item:

- Musa bai san- ba
   [mu:sa:bàisàn-ba?]
   Musa is not known
- Kamar- babbar ƙasa ce
   [kàmàr-bàbbark'asa:tʃe`:]
   Cameroun is a large country
- Far- muka tafi
   [Φa:r-mukàtàΦi?]
   It's F. we've been to
- 4. An bude kot- da wuri
  [?ambu:?dekwo:t-dawori?]
  The court has opened early
- 5. Mun gams- da haka [muŋgàms-dàhakà?] We are satisfied with that
- 6. Yanz- za mu tafi
  [jànz-za:motà@i?]
  It's now that we are going
- 7. Saniyar ba za ta tats- ba [sa:nìjârbàza:tàtà:s'-ba?] The cow cannot be milked

8. Gwand- a jihar Sakkwato take
[gwand-?àthàrsakwkwatotacè?]
G. is in Sokoto State

9. Mun had- kan hanya [muŋhà?d-kâŋhaŋjà:] We met on the way

10. Ul- za a saya

[?u:1-za:?àsàja:]

It is woollen thread that will be bought

The vowel table:

	I	Į	I	3	С		D		$\mathbf{E}$	
	ប	ŧ	ប	i	ឋ	i	υ	ŧ	ឋ	ŧ
_				,					J	
1.	1			v		v			•	
2.	√		J		J		V		V	
3.	<b>v</b>			-	_		-		✓	
4.		V	J			~			√	
5.	J			1	1				V	
6.		V	√		√		V			V
7.		√		1	J		J			1
8.		V	J		1		1		1	
9.		1	V		~				√	
10.		√		V	J		V		J	
NUMBER OF OCCURRENCES	4	6	5	4	7	2	5	4	8	2

The pausal -u realized as [v] without the glottal stop under this condition, and [i] alternating with it, is evident. Nevertheless, unlike [I] following a labial consonant where the alternant [i] surfaces more as seen previously, it is the reverse here. While the [v]features twenty-nine (29) times (about 60%), the corresponding alternant [i] has just eighteen (18) occurrences (about 38%).

# 2.2.3 A Labial Preceding Underlying /u/ With 'Spreading' Following

The following in pause regularly end in a short -u accompanied by a glottal stop:

1.	?àbù?	thing
2.	ba:bù?	none
3.	kar?bu?	be welcome
4.	tà?bu?	be crazy
5.	kàøu?	be deep-rooted
6.	ju:sv@ù?	proper name
7.	gàmu?	meet
8.	na:mu?	ours

Nevertheless, when followed by a spread item, [1] occasionally alternates with it:

- 1. Wannan ab- ya ba da mamaki [wannaŋ?ab-ja:ba:dama:ma:ci:] This thing has given surprise
- 2. Bab- inda za a samu [ba:b-?indàza:?àsa:mù:] Nowhere can it be obtained

- 3. Sun kar6- ya ce[suŋkàr?b-jatjê:]They were welcome he said
- 4. Ta tab- ya ce[ta:tà?b-jatfé?]She was crazy he said
- 5. Musulunci ya kaf- ya ce [musuluntfi:ja:kàt-jatfe:] Islam is deep-rooted he said
- 6. Yusuf- ya dawo
  [ju:sut-ja:da:wo:?]
  Y. is back
- 7. Mun gam- yau [muŋgàm-jâu] We met today
- 8. Nam- ya fi[na:m-ja:•i?]Ours is better

The vowel table:

	ł	Į	ł	3	С		D		E	
	υ	I	ឋ	I	υ	I	ឋ	I	υ	I
1.	J			V		V	1		√	
2.	V		√		V		√		✓	
3.	J		✓		J		J		1	
4.	J		1		√		✓		V	
5.	J		V		V		V		1	
6.	1		√		<b></b>	-	J		V	
7.	√		V			√	√		V	
8.	V		1			V	1		√	
NUMBER OF OCCURRENCES	8	0	7	1	4	3	8	0	8	0

It can be noticed that [1] under those circumstances alternates with the [v] in a very few cases. Generally, it has four (4) occurrences (10%), while the [v] features thirty-five (35) times (about 88%), and not at all with three of the speakers.

# 2.2.4 A Labial/Coronal Preceding Underlying /1/ With 'Rounding' Following

The final consonant in each of the words below is either a labial or a coronal and, in pausal position, each is regularly followed by a short -i accompanied by a glottal stop:

1.	hàrbi?	shoot at
2.	za:?bi?	elect, choose
з.	tàqi?	go
4.	da`:mi?	worry
5.	?àni:ni?	3/10 of a penny
6.	bàri?	wait, let
7.	Φa:cītî?	packet
8.	tà:s'i?	milk
9.	la:di:di?	female proper name
10.	bà?di?	next year
11.	kàlli?	have a look at

When followed by a rounded item however, in certain cases [v] and [i] make alternation with it:

Ya harb- Uba
 [ja:hàrb-?uba?]
 He shot at Uba

- 2. An zab- wani[?anza:?b-wani?]Someone is elected/chosen
- Ya taf- wurin
   [ja:tàp-worin]
   He went to the place
- 4. An dam- Uba [?anda:m-?uba?] Uba is disturbed
- 5. Anin- uku ne [?àni:n-?vkwùne:] It was 3/10 of a penny
- Bar-Husaini ya dawo tukuna
  [bar-husainijada:wo:tukwuna]
  Wait until Husaini comes back
- 7. Fakit- hudu muke so
  [\$a:cit-hu?domuce:so?:]
  It's four packets that we want
- 8. Ya tats- guzuma [ja:tà:s'-gwuzuma:] He milked an old cow

- 9. Ladid- Uwa ce ga Musa
  [là:di:d-?owa:tfe:gàmu:sa:]
  L. is a mother to Musa
- 10. Bad- Uba zai komo
  [bà?d-?ubazaîkwo:mo:?]
  It is next year that Uba will return
- 11. Sun kall- wasu daga ciki
  [suŋkàll-wasudàgàtfıci:]
  They had a look at some

The vowel table:

**OCCURRENCES** 

		А			В			С			D			Έ	
	I	i	υ	I	i	ប	I	i	ប	I	i	ប	I	ŧ	ប
1.		V		√				V		V				V	
2.		J		V					V			V			1
3.		1		J				1		V			1		
4.			V	✓			-	-	-		J			V	
5.			V			✓			V			¥			V
6.	-	-	_			V		v			1			J	
7.			V		√			√			V			V	
8.			v		V				V		V			J	
9.			V			v		v				J			v
10.			√			~			√			J		J	
11.			V			V			√			1			J
NUMBER OF	0	3	7	4	2	5	0	5	5	2	4	5	1	6	4

From 1 - 4 (where labial precedes), [i] & [v] both alternate with the [I] in 2 and 4, while [i] exclusively does in 1 and 3; [u] alternates with the surface [i] of the underlying /1/ (where coronal precedes) from 6 - 9; only [v] features in 5 and 11; there are no alternants 1/ $\upsilon$ . As a whole, two speakers, A & C use only [i] &  $[\upsilon]$  but all the five have some alternation from utterance to utterance.

## 2.3 THE MOTIVATION FOR THE ALTERNATION OR NON-ALTERNATION OF THE VOWELS

We discussed in the foregoing section various instances of the alternation of I, i & v in both 'short' and 'long' utterances in the standard dialect. We noticed different sorts of alternations revolving round these vowels under various circumstances, such as alternation of the whole three, 1/i/u, e.g. ?dimi:/?dimi:/?dumi:, 'warmth' (cf. 2.1.1.1.2 & 2.2.4); that of 1/i, e.g. \$ita?/\$ita?, 'go out' (cf. 2.1.1.1.1, 2.1.3.1.1 & 2.2.1); that of u/i, e.g. ta:?buka/ta:?bika, 'manage' (cf. 2.1.1.1.1, 2.1.1.1.2, 2.1.2.1, 2.1.2.2, 2.1.3.2.1, 2.1.3.2.2, 2.2.2 & 2.2.4); and that of 1/U, e.g. [Irwa:/[Urwa:, 'kite' (cf. 2.1.1.1.3, 2.1.1.1.4, 2.1.1.1.6, 2.1.1.1.7, 2.1.2.3, 2.1.3.1.4, 2.1.3.2.3 & 2.2.3). Similarly, we noticed other cases where such alternation never occurs, e.g. ?uba:, 'father', hika:ja:, 'narrative' (cf. 2.1.1.1.5, 2.1.2.4, 2.1.2.5, etc.). Now, in this section, an attempt will be made where possible, to find out what the motivation for the alternation and non-alternation of these vowels could be, and try to see in the case of the alternation in a 'simple' word (2.1.1.1.1 - 2.1.1.2) if the underlying form can be established. For simplicity and clarity however, the two cases will be dealt with separately.

#### 2.3.1 THE NON-ALTERNATION

First, let us consider the case of the underlying /v/ in the plural morpheme  $\{-\nu Ca;\}$ . In 2.1.2 where this was presented, we noticed that the /v/ has the constant pronunciation [v] after con. [+ dor.]and con. [+ glot.] but makes alternation with [1] after con. [+ pal.], and with [i] after con. [+ lab.] and con. [+ cor.]. For the first part, i.e. the case of non-alternation, we witnessed it in words like ?alkawura:, 'promises', bankwuna:, 'banks', sanhuna:, 'kinds of bag'. The question to ask here, what is the motivation for pronouncing such words all with [v]? In fact, there seem to be two contributory factors here: a) all the preceding consonants have the feature value of backness, i.e. they are [+ back]; b) the rounding in the morphologically-fixed back vowel -u- goes right through the whole syllable.<sup>25</sup> These put together would phonetically make it impossible for the /v/to have any other surface realization. Hence, the constant pronunciation. Again, this would cover similar instances with the [v] (as reduced u:) in a closed syllable, such as buhun, 'the sack', majankwun, 'the abattoirs', etc., and the non-alternating [v] in the simple word, such as the one in wuta:, 'fire', hukwu:ma:, 'authority', etc.

Next, the /1/ (as reduced i:) in a closed syllable, we said is the underlying vowel under those circumstances (2.1.3.1). However,

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<sup>&</sup>lt;sup>25</sup> The evidence of [h] sharing the rounding in [v] like other back consonants in the same condition, can be noticed in the pronunciation of a reduced [o:] in a closed syllable with the consonant preceding, where it is very pronounced, e.g. fa:ho:, 'hawk' but fa:hwàŋ/fa:hwàŋ, 'the hawk', màka:ho:, 'blindman' but màka:hwàŋ/ màka:hwàŋ, 'the blindman'.

while it has two possible surface realizations, e.g. when the preceding consonant is [+ lab.], as in takwo`:bîŋ/takwo`:bîŋ, 'the sword', it has only one realization [1] when such consonant is [+ pal.], or [+ glot.], e.g. ba:jìŋ, 'the debt', and do:cìŋ, 'the horse', or nau?ìŋ, 'the type' and ru:hìŋ, 'the soul'. Here, a glottal consonant too, under this condition, has in fact a certain degree of palatality like the other palatal consonants.<sup>26</sup> Besides, phonetically, the features [+ pal.] for consonants and [+ front] for vowels have much in common. So that this close relationship would naturally maintain the surface realization of the underlying vowel as [1] under these circumstances. Likewise this covers similar cases in the simple word, such as in jIdà?, 'six', tjIrè, 'remove', ?Idò`:, 'eye'. Note that the 'rounding' that follows in the latter word does not affect the [1] realization.

#### 2.3.2 THE ALTERNATION

We will examine here, where possible, the motivation for the different sorts of alternations concerning those three vowels, viz. 1/i/v, v/i, 1/i and 1/v, taking each case separately.

<sup>&</sup>lt;sup>26</sup> This can best be exemplified with the pronunciation of the front vowel [ε] in a closed syllable with a glottal consonant preceding. To the proper names da:?e? and ma:he? both ending in short [e] accompanied by a prosodic glottal stop, when the deictic -ŋ is added the final glottal stop disappears and the realization becomes da:?jɛŋ/da:?jâŋ and ma:hjâŋ/ma:hjâŋ respectively.

#### 2.3.2.1 The Case Of 1/U

For convenience we are starting with the final case, 1/v. Let us refer once again to the situation with the underlying /v/ in the plural morpheme {-vCa:}. In 2.1.2.3 where a phonemic palatal precedes, we saw this underlying form having the alternants [v] & [1], in some individuals. Under these circumstances, in this dialect some speakers prefer [1] as was the case with the majority of the five selected speakers for the words wa: $\int Ina$ ; 'washers for nut', hantfIna;, 'noses', ?Imbona;, 'engines'; some maintain the pronunciation with the [v], k'aujuka;, 'villages'; and, indeed some with both, k'aujuka;/k'aujuka;.

Generally speaking, the motivation in phonetic terms, for the alternation [I] under this condition is the feature value [+ pal.] inherent in the preceding consonant. The situation is a sort of struggle one might say, between two forces. On the one hand, there is the morphological force that dictates the vowel as [v], and there is the phonetic force on the other that occasionally changes it to [I]. So that where [I] features in pronunciation of the segment and not the [v] it is the phonetic force does.

Next, in 2.1.3.1.4 where we examined the situation with an underlying /1/ preceded by the phonemic dorsal /w/ and followed by the deictic  $-\eta$ , in wiwiŋ/wi:wuŋ, meaning 'the Indian hemp', [v] is seen to alternate with the [1]. Here, the occasional realization of the /1/ as [v] is brought about by the feature value [+ round] attached to the preceding consonant. In other words, the struggle here involves the rounding of this consonant affecting the surface representation of the

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underlying /I/. In cases where [v] is reflected in the pronunciation the /w/ predominates and, otherwise the [I]. Compare this with other cases under the same circumstances where a non-rounded consonant precedes.

Next, in 2.1.3.2.3 where a phonemic palatal again precedes, and the vowel is followed by the deictic  $-\eta$ , the underlying /v/ has, on average, equal realization amongst [v] and [I]. The situation is the same as the one we witnessed in 2.1.2.3, the feature [+ pal.] in the preceding consonant being the motivation. The segment is pronounced with [v] in line with the morphology, and with [I] where the preceding palatal consonant predominates. Hence, dyl:dyl/dyl:dyl, 'the evil spirit', or ma:jûŋ/ma:jîŋ, 'the witches'.

Lastly, in 2.2.3 we saw a few cases where an underlying /v/ features as [1]. Here, obviously, the motivation for such realization under those circumstances is the immediately following palatal approximant [j], otherwise it would not be possible. Hence, we had [1] alternating with the [v] in, for example, the sentence:

[wannàŋ?àbùja:ba:dàmà:ma:cì:] / [wannàŋ?àbìja:ba:dàmà:ma:cì:] 'This thing has given surprise'

In all these four cases revolving round 1/v alternation exclusively, the underlying form is known, /v/ in 2.1.2.3, 2.1.3.2.3 & 2.2.3 and, /1/ in 2.1.3.1.4. However, another question is, what about the situation in a 'simple' word where the underlying vowel seems to be unknown? The reference here is to the cases presented in 2.1.1.1.3, 2.1.1.1.4, 2.1.1.1.6, 2.1.1.1.7 and 2.1.1.2.

Generally speaking, in 2.1.1.1.3 where the preceding consonant is a phonemic palatal one thing is evident. In all the cases where 1/valternation is seen to occur there is a 'rounding' in the following segment. Compare for instance,  $\int IIWa:/\int UWa:$ , 'kite' on the one hand, and  $\int Ida?$ , 'six' or tfIIPe, 'remove' on the other, which have no alternative pronunciation ( $\int Uda?$ )\* or (tfUIPe)\*. So one can say here that the underlying vowel is /I/, and that it sometimes has the surface realization [v] in view of the said rounding in the following segment.

In 2.1.1.1.4 this alternation occurs in the word for 'neck' wuja:/wija: as opposed to wuta:, the word for 'fire'. Here, in view of the close phonetic affinity between the preceding [w] and [v], both being [+ back, + round], and in view of the presence of [j] in the following segment in the first word, one can conclude that the underlying vowel is /v/ and, that its pronunciation as [1] occasionally noticed is brought about by that [j]. The word wuta: has one possible pronunciation with [v] in this regard as there is nothing to motivate the underlying /v/ to have another realization, [1].

In 2.1.1.1.6 where an allophonic palatal precedes and the vowel is followed by 'rounding', [1] & [v] are seen to alternate. Here, since the preceding consonant is an allophone conditioned by a following front vowel as [1], in this condition, /1/ is the underlying form and that its occasional realization as [v] is motivated by that rounding: cis'o:/cus'o:, 'plaiting of hair',  $\phi_1c'_1hu_2'/\phi_1c'_vhu_3'$ , 'the science of Islamic law'.

In 2.1.1.1.7 [u] & [1] are seen to alternate in the words ?àkwuja:/?àkwuja:, 'goat' and gwa:gwuji/gwa:gwiji, 'gnaw at'. Here too, the preceding consonants kw- and gw- being allophones conditioned by a following back vowel as [v], in this condition, /v/ is the underlying form and that the [I] occasionally featuring in the pronunciation is motivated by the following [j].

Lastly, in 2.1.1.2 where the two vowels alternate in combinations I and III (u-u/u-1) in the trisyllabic word rubu?i:/rubl?i:, 'one quarter', the word itself comes from the Arabic monosyllabic 'rub' with a consonant cluster involving the voiced bilabial stop [b] and the voiced phryngeal fricative [S] respectively at the end. Hausa however, in its phonological system does not allow final consonant clusters<sup>27</sup>, and deals with this by vowel insertion. Similarly, the consonant [S] is never found in Hausa and instead, a glottal stop [?] replaces it. But glottal stop as a consonant never occurs wordfinally, so an i: is here employed to follow it. Now, back to the said vowel insertion. The vowel so inserted between the two consonants under such circumstances is, in most cases, a copy of the one in the immediately preceding syllable: a, v or 1, such as saba?11, 'seventy' from 'sabGi:n'; rukwuni:, 'part of' from 'rukn'; and \$1?ili:, 'verb' from 'fisl'. So it is evident enough that in the case of rubu?i:/ rubì?i: the underlying vowel is /u/, a copy of the one in the preceding syllable ru\$, and its realization as [1] in some pronunciations is motivated by the final -i:.

<sup>&</sup>lt;sup>27</sup> Medially it allows abutting consonants where the first consonant in the sequence marks the end of a preceding closed syllable, and the second consonant signals the beginning of the following syllable, e.g. sar\$ci: in sarci: 'king', sàn\$da: in sanda: 'stick', tàm\$baja: in tambaja: 'question'.

#### 2.3.2.2 The Case Of 1/1

We will consider here the motivation for the alternation of [1] and [ $\pm$ ]. We saw in 2.1.3.1.1 where i: is reduced to function in a closed syllable, with a con. [+ lab.] preceding, that the underlying /I/ has both [1] & [ $\pm$ ] realizations in this dialect, e.g. takwo:bîŋ/ takwo:bîŋ, 'the sword', dgi?bîŋ/dgi?bîŋ, 'the perspiration'. Similarly, we noticed the same kind of situation in 2.2.1 where, within long utterance, with a con. [+ lab.] preceding, the underlying /I/ is realized both as [1] and as [ $\pm$ ], e.g. ja:harb1?akwûŋ/ja:harbi?akwûŋ, 'he shot at the parrot'. Now, what is the motivation for this alternation?

The situation here in fact, is quite different from the previous one. The motivation for /1/ having alternative realization  $[\pm]$  under those circumstances does not seem to be apparent. We noticed that the occurrence in this dialect is so regular that an -i: in immediately following segment does not prevent it, e.g. ja:jìrmi?i:sa:/ ja:jìrmi?i:sa:, 'he is older than Isa'. On the part of the preceding consonant [+ lab.] which is also [+ front] in a way, as [1], it does not seem to have any phonetic quality that would centralize [1] to [ $\pm$ ]. So the reason for the 1/ $\pm$  alternation remains unexplained.

#### 2.3.2.3 The Case Of v/i

We are faced with the same kind of problem here. The underlying /v/ is, in some cases, pronounced as [i]. We saw this in the case with the plural morpheme {-vCa:}, e.g. kwabbuna:/kwabbina:, 'pennies',

s'aunuka:/s'aunika:, 'hills'; in the reduced u:, e.g. jim?bûŋ/jım?biŋ, 'the clay', kwùnûŋ/kwùniŋ, 'the gruel'; and within long utterance, e.g. jànzuza:muta@i?/jànziza:muta@i?, 'it is now that we are going'.

With regard to cases where the preceding consonant is [+ lab.], under normal circumstances one would not expect [i] to serve as alternative pronunciation of  $/\upsilon/$ . For, at least a labial consonant and an  $[\upsilon]$  vowel are more phonetically associated, the articulation of both involving the lips, among other things. However, this labiality does not prevent it occurring. And, for the following segment too, nothing seems in sight as to what motivates this alternation. Similarly, pertaining to cases where the preceding consonant is [+ cor.] the situation remains just that. One might argue that since the realization of [1] when preceded by a coronal is [i] (see 2.1.3.1.2) then  $/\upsilon/$ can have this surface realization. But [1] and  $[\upsilon]$  are never the same. So here again, the motivation for  $/\upsilon/$  having alternative realization [i] under those circumstances remains obscure.

#### 2.3.2.4 The Case Of 1/i/v

The whole three vowels are found to alternate under certain conditions. In 2.2.4 we saw this kind of situation where a con. [+ lab.] precedes and the vowel is followed by a rounded segment, e.g. ?anzà:?biwani?/?anzà:?biwani?/?anzà:?bowani?, 'someone is elected/ chosen'. The underlying vowel here is /1/, then why do  $[\pm]$  & [v] make alternation with [1]? In the case of the realization of the underlying vowel as  $[\pm]$ , in fact we made a similar attempt in 2.3.2.2 to find the motivation but failed. Nevertheless, in regard to the realization as [v] it is obviously brought about by the quality [+ round] in the following [w].

We also noticed this  $1/\frac{1}{2}/v$  alternation in the 'simple' word ?dìmi:/?dìmi:/?dùmi:, 'warmth' in 2.1.1.1.2. Which one could possibly be the underlying form? Here, [i] could certainly not be in view of the fact that it has no phonemic status in the language. It is never found to contrast with either [1] or [v]. Even in such cases where it seems to occur on its own, as in dila:, 'fox', nik'à, 'grind' (see 1.2.3) it is never a phomeme underlyingly. On the contrary, it is an allophone of an underlying /1/. For, the latter as we saw, has this surface realization [i] when a coronal precedes. In fact, the symbol 'i' rather than 'u' reflected in the orthography in such typical cases testifies this claim. Now, turning to the other two vowels, [1] & [v], which could be the underlying form? Here, obviously one would be inclined to posit /v/ and relate the realization [1] to the final -i:.

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#### 2.4 CONCLUSION

We made a survey in 2.1 on the alternation of [1],  $[\frac{1}{2}]$  & [v] in the standard dialect, and discovered that the process occurs in particular ways under particular conditions. It occurs in both 'short' and 'long' utterances. There are cases in short utterances where the alternation affects more than one segment. Four forms of alternations are associated with those three vowels, namely  $1/\frac{1}{2}/v$ ,  $\frac{1}{1}/1$ ,  $\frac{1}{2}/v$  and 1/v. While the motivation for 1/v alternation is explicable by the phonetic context in which it occurs, for the other alternations involving [±], it seems to be obscure. In this dialect, underlying /1/ and /v/ both often have alternative surface realization  $[\frac{1}{2}]$  when a con. [+ lab.] precedes. In other words, [1] and [v] tend to centralize to  $[\frac{1}{2}]$  under this condition. An underlying /1/ is regularly centralized when a con. [+ cor.] precedes. An underlying /v/ is realized both as [v] and [i] when a con. [+ cor.] precedes. The vowel [i] is never an underlying form, i.e. is never a phoneme. On the contrary, it is an allophone of /1/ after a con. [+ cor.] and a variant of [1] and/or [v] elsewhere.

#### CHAPTER THREE

## 3.0 THE [1], [1] & [U] ALTERNATION IN THE ZARIA DIALECT

In Chapter Two, we discussed in the first section the 'general' type of vowel alternation under the headings 'non-dialectal' and 'dialectal', and concentrated throughout the second section on the alternation of [I], [ $\pm$ ] & [ $\upsilon$ ] 'specific' in the standard dialect. We saw that in this dialect the latter alternation occurs almost exclusively in particular ways under particular conditions. It occurs in both short and long utterances and takes four forms, viz. alternation of the three together,  $1/\pm/\upsilon$ , that of  $1/\pm$ , that of  $\pm/\upsilon$  and,  $1/\upsilon$  alternation. We also looked at the conditions governing each of these kinds of alternations.

In this chapter, we will look into the situation in the Zaria dialect. In this dialect as in the standard and in all others, there are particular phonetic sequences which regularly prevent any alternation. The situation in the standard dialect has already been dealt with in the previous chapter. As the case is not different from the other dialects, no further mention will be made of it. Considerable attention, however, will be paid to cases of significant similarities and differences. The items sampled are the same throughout, and the number of selected speakers being also the same, five in each case.

#### 3.1 IN A SINGLE SEGMENT

As in the previous chapter, we are starting with the vowel alternation that affects a single segment of a simple word in this dialect.

3.1.1 Preceding Consonant [+ lab.]

		A	В	С	D	Έ	
1.	b-ci:	σ	υ	I	υ	I	ceremony
2.	b-gwu:	ប	ឋ	Ծ	σ	υ	beating
3.	ta:?b-ka3	ប	σ	υ	υ	ប	manage
4.	⊈-ta?	I	I	I	I	I	go out
5.	m-lci:	υ	υ	ឋ	υ	I	power

The first major difference between this pattern of pronunciation and that of the standard dialect is the absence of the central unrounded [i] in this context. In the first word, <u>three</u> speakers favour [v] while <u>two</u> prefer [i]; [v] is maintained by <u>all</u> in the second as well as in the third word; <u>all</u> employ [i] in the fourth one; and lastly, <u>four</u> speakers favour [v] as against <u>one</u> for [i].

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'A'

# 3.1.2 Preceding Consonant [+ cor.]

	A	В	С	D	Ε	
l. n-s'e:	ŧ	÷	ŧ	ŧ	÷	sink down
2. r-bu:tu:	υ	υ	υ	σ	υ	writing
3. r-ga:	ប	ŧ	ŧ	υ	÷	Fulani cattle encampment
4. t-rmi:	υ	ŧ	ŧ	υ	υ	mortar
5. s-4e:to:	ŧ	ŧ	ŧ	÷	÷	police inspector
6. z-•a:	ប	ŧ	ŧ	ប	ŧ	sweat
7. s'-ns'u:	ប	υ	Ծ	ប	ŧ	bird
8. ?aud-ga:	ŧ	ŧ	υ	÷	ប	cotton
9. ?d-mi:	ប	ŧ	ŧ	ŧ	I	warmth
10. ?da:1-bi:	÷	i	÷	ŧ	i	student [+ male]

The alternation is the same in both dialects even to the case of the ninth word having three pronunciations,  $?d\dot{v}mi:/?d\dot{m}i:/?d\dot{m}i:$ , and the distribution is similar. The chief difference is the pronunciation of the second word consistently with [v] and of the fourth one with both  $[\pm] \& [v]$ . 3.1.3 Preceding Consonant [+ phon. pal.]

		А	В	С	D	Ε	
1.	∫-rwa:	I	I	υ	Ι	I	kite
2.	∫-da?	Ι	I	I	I	I	six
3.	tj-kwo:wa:	υ	I	I	σ	υ	overcrowd
4.	tj-rei	I	I	1	I	I	remove
5.	dy-wa:	I	I	υ	σ	I	dizziness
6.	j-nwa:	σ	I	I	ឋ	υ	hunger

As in the standard dialect, [v] is seen to alternate with the [1] in those words in which 'rounding' follows, i.e. 1, 3, 5 and 6.

3.1.4 Preceding Consonant [+ phon. dor.]

		А	В	С	D	Ε	
1.	w-ja:	Ծ	ប	ឋ	ឋ	υ	neck
2.	w-ta:	υ	υ	ឋ	σ	υ	fire

Although [j] follows the vowel in the first word, all five speakers maintain [u] unlike in the standard dialect where one speaker is found to use [1].
3.1.5 Preceding Consonant [+ al. pal.]

		A	В	С	D	$\mathbf{E}$	
1.	c-s'o:	I	ប	I	I	I	plaiting of hair
2.	Φıc'-hu?	I	I	ប	I	ប	the science of Islamic law
з.	1-zoj	υ	I	I	I	I	the mythical spider of fables
4.	c-ra:	I	I	I	I	I	calling

Here too, as in the standard dialect, [v] alternates with the [1] where 'rounding' follows.

3.1.6 Preceding Consonant [+ al. dor.]

		A	В	С	D	Ε	
1.	?akw-ja:	υ	I	ប	Ծ	I	goat
2.	hunkw'-ji?	υ	I	ឋ	σ	υ	place name
3.	gwa:gw-ji	I	υ	σ	I	υ	gnaw at
4.	kw-sa?	υ	υ	ប	υ	σ	near

Cases of alternation of [1] with the [v] occur in the first three words as in the standard dialect, with none in the fourth word where there is no following [j] consonant.

#### 3.2 IN MORE THAN ONE SEGMENT

The vowel distribution here for those ten words differs to a large extent from the standard dialect. While in the standard dialect all combinations were found except VIII (1-v) here, in addition, combinations III and VII are absent. The pronunciation of the first and second word is consistent with comb.IX bindiga: and  $\phi$ itilla:<sup>28</sup> respectively. Another case of consistent pronunciation is with the ninth word where comb.I is employed, rubù?i:. The total number of occurrences of those combinations likewise show some significant contrast between the two dialects. Comb.I (v-v) occurs twelve (12) times here as against thirty-two (32) in the standard; and comb.IX (1-i) occurs eleven (11) times here as against twice in the standard dialect. (See table)

 $^{28}$  Unlike in the standard dialect, pronunciation of this word in this dialect involves gemination of the stem final consonant -ll-  $\cdot$ 

				10.	.9	•	7.	ი	ហ	4.	÷	∾.	۲ •			TABLE FIVE
н Н	57	а) Г	NUMBET	kwud-d	r-b-2i	s-ŋ-ci	1111	s-m-nt	t-mo-	d-dd-;	₽-₽₽-(	∳-t-1;	b-nd-	WORDS		OF T
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ialect	for ea	umber	(5 5) ∞	(2) 2)	ა	(2) ł	H	4	ł	<b>-</b> £				u-i	II	INATIO
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enthes		the p	1 (1)					}	1) 1					±-υ	VΙ	IATION
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rison		wel cc	11 (2)								ŀ	-1,0	ᆈᆸᅂ	л <mark>І</mark> .	XI	SELECI
		mbination shown		pond	one-quarter	inlaw [+ male]	veiling	cement	regurgitation	heel	wing	lamp/light	gun	EQUIVALENTS	TATCI TOTI	TED WORDS BY THE

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3.3 THE  $/\upsilon$  IN THE { $-\upsilon$ Ca:} MORPHEME

3.3.1 Preceding Consonant [+ lab.]

		A	в	С	D	Ε	
1.	kwabbna:	ប	υ	ប	ឋ	υ	pennies
2.	ka?b-ka:	ប	υ	ប	ឋ	υ	calabashes of food for a feast
3.	l <b>a</b> ∳-za:	ប	σ	ប	ប	υ	speeches, pronunciations
4.	ra:m-ka:	ប	υ	ឋ	σ	υ	holes

In contrast with the standard dialect there is no case of the underlying /v/ having alternative realization [i]. The surface [v] is maintained in all the cases.

3.3.2 Preceding Consonant [+ cor.]

			А	В	С	D	Ε	
•	1.	s'aon-ka:	ប	υ	ប	ប	ŧ	hills
4	2.	ha?dar-rr-ka:	-	<b>ບ</b> –ບ	ช–บ	υ−ŧ	<b>ບ</b> –ບ	accidents
:	3.	ta:r-rr-ka:	i-i	i-i	<del></del> ა–თ	i-i	i-i	conferences
	4.	ti:t-na:	i	÷	υ	Ŧ	ŧ	streets
ł	5.	hars-na:	υ	ប	ŧ	σ	ឋ	languages
(	6.	da:z-zz-ka:	ບ–ບ	ʊ–ʊ	i-i	<b>บ–</b> บ	i-i	forests
	7.	hans'-ka:	ŧ	ŧ	υ	ż	ŧ	forceps, tongs
ł	8.	kwand-na:	ŧ	÷	÷	υ	ŧ	baskets
:	9.	ha?d-ra:	Ŧ	÷	ŧ	ប	ì	accidents
10	0.	hu:l-na:	σ	ប	υ	÷	ប	caps

The vowel [i] makes a lot of alternation with the [v] under these circumstances in this dialect, too.

3.3.3 Preceding Consonant [+ phon. pal.]

		Α	в	С	D	$\mathbf{E}$	
1.	wa:∫-na: <sup>29</sup>	υ	I	-	I	I	washers for nut
2.	hantj-na:	I	υ	_	I	I	noses
3.	?ımk-na:	υ	I	I	I	I	engines
4.	k'auj-ka:	ប	I	υ	σ	υ	villages

As in the standard dialect, [1] predominates here, but there is alternation for each word and for each speaker.

#### 3.4 THE i: REDUCTION

(The words without reduction are given in 2.1.3.1 and will not be repeated here and henceforth.)

<sup>29</sup> For the first and second word speaker C prefers the form wa: jo:ji: & hantuna: respectively.

### 3.4.1 Preceding Consonant [+ lab.]

		А	В	С	D	Ε	
1.	takwo:b-ŋ	I	I	I	I	I	the sword
2.	dyi?b—ŋ	I	I	I	I	I	" perspiration
3.	ra:⊅-ŋ	I	I	I	I	I	" stream
4.	ra:m-ŋ	I	I	I	I	I	" hole

Unlike in the standard dialect where, under such circumstances the five speakers mostly use [i] as the reduced vowel, the vowel [1] is maintained by all five speakers of the Zaria dialect.

3.4.2 Preceding Consonant [+ cor.]

		Α	В	С	D	E		
1.	ra:n-ŋ	i	i	ŧ	ŧ	ŧ	the	dry season
2.	la:ba:r-ŋ	i	÷	i	ŧ	÷	11	story
3.	bu: <b>ը–</b> դ	ŧ	i	i	i	÷	11	ambition
4.	kant-ŋ	i	ŧ	i	Ŧ	Ŧ	11	shop
5.	si:s-ŋ	i	i	ŧ	ŧ	ŧ	11	sixpence
6.	hırz–ŋ	1 <sup>30</sup>	ŧ	i	÷	i	11	seeking for God's protection
7.	sans'-ŋ	ŧ	ŧ	ŧ	Ŧ	ŧ	**	slipperiness
8.	maıga:d-ŋ	i	ŧ	i	i	i	11	guard
9.	kwu?d-ŋ	i	ŧ	ŧ	i	i	11	money
10.	?alka:l-ŋ	i	i	ŧ	ŧ	i	11	judge

<sup>30</sup> Speaker A employs [1] but palatalizes the preceding consonant to [dg] under this condition. Hence, hirthin rather than hirzin.

Here, too, with one exception, the 'reduced' vowel under these circumstances is realized as [1].

3.4.3 Preceding Consonant [+ phon. dor.]

	A	В	С	D	Ε	
wi:w-ŋ	I	I	ឋ	I	I	the Indian hemp

This is exactly comparable to the situation with the five selected speakers of the standard dialect.

#### 3.5 THE U: REDUCTION

(For the reduction of u:, as in the reduction of i:, since the words without reduction are given in 2.1.3.2 they will not be repeated here and henceforth.)

3.5.1 Preceding Consonant [+ lab.]

		А	В	С	D	Ε	
1.	lamb-ŋ	ប	σ	υ	υ	υ	the garden
2.	jım?b-ŋ	υ	υ	υ	υ	υ	" clay
З.	sa:m-ŋ	υ	υ	υ	υ	υ	" wealth

Unlike in the standard dialect where  $[\pm]$  makes alternation with the  $[\upsilon]$  in three cases, the latter here is maintained by <u>all</u> five speakers.

#### 3.5.2 Preceding Consonant [+ cor.]

		A	В	С	D	Е		
1.	kwon-ŋ	ប	υ	υ	ŧ	υ	the	gruel
2.	tantabar-ŋ <sup>31</sup>	ប	υ	ប	ŧ	ŧ	tt	pigeons
3.	∫1 <b>r−ŋ</b>	i	ŧ	ŧ	÷	υ	* *	silence
4.	kara:t-ŋ	ŧ	÷	υ	υ	÷	11	reading
5.	s-ŋ	υ	υ	i	υ	υ	11	fishing
6.	bu:z-ŋ	ប	υ	÷	υ	υ	**	sheep-skin
7.	ja:s'-ŋ	υ	υ	υ	υ	υ	11	fingers
8,	gand-ŋ	ŧ	ŧ	÷	υ	i	*1	farm
9.	ru:?d–ŋ	υ	i	÷	υ	τ	"	confusion
10.	sa:bʊl-ŋ	υ	ŧ	σ	υ	υ		soap

As in the standard dialect, [i] here makes alternation with the  $[\upsilon]$  under this condition. But, unlike in the standard dialect, pronunciation with the  $[\upsilon]$  predominates. Out of the fifty utterances it features thirty-one (31) times, as against nineteen (19) for [i]. (The  $[\upsilon]$  features 15 times, and [i] 35 times in the standard dialect.) The seventh word was pronounced consistently with the  $[\upsilon]$ .

 $<sup>^{31}</sup>$  The first syllable of this word has a final 'n' not 't' in this dialect .

3.5.3 Preceding Consonant [+ phon. pal.]

		Α	В	С	D	$\mathbf{E}$	
1.	dgu:dg-ŋ	υ	I	υ	υ	I	the evil spirit
2.	ma:j-ŋ	I	I	ឋ	υ	I	" witches

.

The [v] is maintained by <u>three</u> speakers in the first word, and the alternant [I] by <u>two</u>. Conversely, the alternant [I] attracts <u>three</u> speakers in the second word, and the [v], <u>two</u> speakers. So that the frequency of occurrence between the two vowels is again balanced. ישי

### 3.6 IN A LONG UTTERANCE

# 3.6.1 Labial Preceding The /1/

- Ya harb- akun
   [ja:hàrb-?akwûŋ]
   He shot at the parrot
- 2. Jib- Isa zai komo [dzi:b-?i:sa:zaîkwo:mo:?] It is the day after tomorrow that Isa will come back
- 3. An za6- Audu[?anzà:?b-?audù?]Audu is elected/chosen
- 4. Sun kar6- nasu
  [suŋkàr?b-na:sù?]
  They received theirs
- 5. Ta haif- 'ya mace
  [ta:hàiφ-?ja:màtfè?]
  She gave birth to a baby girl

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- Mun taf- gida
   [montà•-jida:]
   We went home
- 7. Ya girm- Isa [ja:jìm-?i:sa:] He is older than Isa
- An sallam- leburori
   [?ansàllàm-le:buro:ri:]
   Labourers are dismissed

Below is the vowel table according to the pronunciation of the utterances by the five selected speakers of this dialect:

	ł	Į	I	3	C	2	I	)	I	3
	I	ŧ	I	i	I	i	I	ŧ	I	ŧ
1.	V		√			✓	v		v	
2.	v		1		v		4		J	
3.	V		V		V		√		J	
4.	V		J			V	J		J	
5.	J		V		v		<b>v</b>		J	
6.	V		V		J		V		1	
7.	1		v		1		V		V	
8.	V		1		V		V		J	
NUMBER OF OCCURRENCES	8	0	8	0	6	2	8	0	8	0

In this table, <u>four</u> speakers consistently employ the [I] throughout, while <u>two</u> cases of [ $\pm$ ] alternating with the [I] is witnessed in <u>one</u> speaker. In other words, out of the forty utterances, thirtyeight (38) were all with the [I] (95%) and only two (2) with the alternant [ $\pm$ ] (5%). So in comparison with what we saw in the standard dialect where the alternant attracts 65%, and the [I] 35%, the difference is very striking.

### 3.6.2 Coronal Preceding The /v/

- Musa bai san- ba
   [mu:sa:bàisàn-ba?]
   Musa is not known
- Kamar- babbar ƙasa ce
   [kàmàr-bàbbark'asa:tʃe:]
   Cameroun is a large country
- 3. Far- muka tafi [\$\phi:r-mukata\$\$] It is F. we have been to
- 4. An bude kot- da wuri
  [?ambu:?dèkwo:t-dàwori?]
  The court has opened early

- 5. Mun gams- da haka [muŋgàms-dàhakà?] We are satisfied with that
- 6. Yanz- za mu tafi[jànz-za:mutà@i?]It is now that we are going
- 7. Saniyar ba za ta tats- ba [sa:nìjârbàza:tàtà:s'-ba?]
  The cow cannot be milked
- 8. Gwand- a jihar Sakkwato take
  [gwand-?àtsihàrsakwkwatotacè?]
  G. is in Sokoto State
- 9. Mun had- kan hanya [muŋhà?d-kâŋhaŋjà:] We met on the way
- 10. Ul- za a saya [?u:1-za:?àsàja:]
  - It is woollen thread that will be bought

The vowel table:

	А		ł	В		C		)	$\mathbf{E}$	
	ប	į	υ	ŧ	ប	i	ប	ŧ	ឋ	i
1.		v	J		J			J	v	
2.	1		v		v		V			v
3.		V	J		J		J		V	
4.		1		J	J			J		v
5.	v		J		J		J		J	
6.		~	~		J		J			J
7.		J		V	J		V		J	
8.	v		~		√		J		J	
9.	√		~		v		J		J	
10.	v		✓	•	V		√		J	
NUMBER OF OCCURRENCES	5	5	8	<b>2</b>	10	0	8	2	7	3

Here, the vowel [v] is constantly maintained by speaker C. In the other cases [i] makes alternation with it as in the standard dialect. It features thirty-eight (38) times (76%) and the alternant [i], twelve (12) times (24%). 3.6.3 Labial Preceding The /v/ With 'Spreading' Following

- Wannan ab- ya ba da mamaki
   [wannàŋ?àb-ja:ba:dàmà:ma:cì:]
   This thing has given surprise
- Bab- inda za a samu
   [ba:b-?indàza:?àsa:mù:]
   Nowhere can it be obtained
- 3. Sun kar6- ya ce
  [suŋkàr?b-jatfé?]
  They were welcome he said
- 4. Ta tab- ya ce[ta:tà?b-jatfê:]She was crazy he said
- 5. Musulunci ya kaf- ya ce
  [musuluntfi:ja:kàt-jatfe:]
  Islam is deep-rooted he said
- 6. Yusuf- ya dawo
  [ju:sut-ja:da:wo:?]
  Y. is back

- 7. Mun gam-yau [muŋgàm-jâu] We met today
- 8. Nam- ya fi [na:m-ja:@i?] Ours is better

The vowel table:

	A	Į	ł	3	С		D		I	£
	ប	I	υ	I	σ	I	υ	I	ប	1
1.	V			~	~		J		√	
2.	v		V		v		v		~	
3.	v		~		~		v		~	
4.	~		~		~		•		v	
5.	V		•		~		✓		~	
6.	1		•		-	-	V		_	-
7.	V		J		v		J		v	
8.	1		J		√		V		v	
NUMBER OF OCCURRENCES	8	0	7	1	7	0	8	0	7	0

Out of thirty-eight (38) utterances the alternant [I] features only <u>once</u>. Four speakers consistently maintain the [v] in their pronunciations. In the standard dialect, we saw, out of thirty-nine (39) utterances [1] appears just four times under the same circumstances.

3.6.4 Labial/Coronal Preceding The /1/ With 'Rounding' Following

- 1. Ya harb- Uba [ja:hàrb-?ùba?] He shot at Uba
- An za6- wani
   [?anzà:?b-wani?]
   Someone is elected/chosen
- 3. Ya taf- wurin
  [ja:tào-woriŋ]
  He went to the place
- 4. An dam- Uba [?anda:m-?uba?] Uba is disturbed
- 5. Anin- uku ne [?àni:n-?ukwùne:] It was 3/10 of a penny

- 6. Bar- Husaini ya dawo tukuna
  [bàr-hùsaınìjàda:wo:tùkwùna?]
  Wait until Husaini comes back
- 7. Fakit- hudu muke so
  [\$\phia:cit-hu?dumuce:so:]
  It is four packets that we want
- Ya tats- guzuma
   [ja:tà:s'-gwuzuma:]
   He milked an old cow
- 9. Ladid- uwa ce ga Musa
  [là:di:d-?uwa:tfè:gàmu:sa:]
  L. is a mother to Musa
- 10. Bad- Uba zai komo
  [bà?d-?ubazaîkwo:mo:?]
  It is next year that Uba will return
- 11. Sun kall- wasu daga ciki [suŋkàll-wasudàgàtʃıci:] They had a look at some

The vowel table:

		А			В			С			D			Ε	
	I	ŧ	ប	I	Ŧ	υ	I	i	ប	Ι	÷	ប	I	ŧ	ប
_													J		
1.	V			V				v		v			·		
2.	V			<b>v</b>				V				4			V
3.	J			\$			1					J	V		
4.	1			√					1			V			¥
5.			v			v			V			J			V
6.		√			V				1		V			¥	
7.		√				J		V				J		√	
8.		V			√			1				V		1	
9.			~			ł			1			J			J
10.			√		v			V				V			V
11.			✓			V		V				V			J
NUMBER OF OCCURRENCES	4	3	4	4	3	4	1	6	4	1	1	9	2	3	6

From 1 - 4 (where labial precedes), both  $[\pm] \& [\upsilon]$  make alternation with the [I] in 2,  $[\pm]$  exclusively does in 1, and  $[\upsilon]$  exclusively in 3 and 4;  $[\upsilon]$  alternates with the surface  $[\pm]$  of the underlying /I/ (where coronal precedes) in 6, 7, 8, 10 and 11; in 5 and 9 only  $[\upsilon]$  features; there are alternants  $I/\upsilon$ . Generally, all the three vowels occur in the pronunciation of each speaker, unlike in the standard dialect where this applies to three speakers alone.

#### 3.7 CONCLUSION

The same material was used here as for the standard dialect. With regard to the alternation of [1],  $[\frac{1}{2}]$  & [v], the Zaria dialect shows in general, similarity to the standard, but where there are differences these appear striking. The dialect uses the same three phonetic vowels, [1],  $[\frac{1}{2}]$  & [v] in systems of alternation generally similar to the standard. There are three cases of striking differences. The first major case among them is that there are very few examples of  $[\frac{1}{2}]$  alternating with [1] or with [v] in this dialect when a con.[+ 1ab.]precedes. Of the five selected speakers only speaker C is found to use  $[\frac{1}{2}]$  and in very few utterances in this context (3.6.1 & 3.6.4).

Secondly, in the case of the alternation affecting more than one segment, combinations III (v-1) and VII (1-1) do not occur, as well as combination VIII (1-v) whose non-occurrence is shared with the standard; combinations I (v-v) and IX (1-i) are much more common in the Zaria dialect than in the standard by twelve (12) cases to three (3) and by eleven (11) cases to two (2), respectively; combination IV (i-i) on the other hand, is much less common by fourteen (14) examples to thirty-two (32) in the standard.

Thirdly, the reduced u: in a closed syllable, [v], with a con. [+ cor.] preceding features more than the alternant  $[\underline{i}]$  in this dialect than in the standard where it is the opposite. This may be interpreted as a particular case of a more general application for the standard to exhibit a marked tendency to use the central vowel  $[\underline{i}]$  in wide-spread examples. The other dialects as well as Zaria are much more sparing in the use of this vowel  $[\underline{i}]$ .

#### CHAPTER FOUR

4.0 THE [1], [i] & [v] ALTERNATION IN THE BAUCHI DIALECT

We made a survey in Chapter Three on the alternation of [1],  $[\pm]$ & [v] in the Zaria dialect, and noticed similarities and differences in comparison with the standard dialect. While differences lie in the contexts where a con.[+ lab.] precedes, and where the alternation affects more than one segment as well as the case of reduced u: in a closed syllable with a con.[+ cor.] preceding, similarities on the other hand, are seen in all other cases. We saw that in the Zaria dialect unlike in the standard, there is very little tendency for an [v] or [1] to have another realization  $[\pm]$  when a labial consonant precedes. In other words,  $[\pm]$  very rarely alternates with either vowel in this dialect under this condition. Now, in this chapter we will focus on the situation in the Bauchi dialect.

# 4.1 IN A SINGLE SEGMENT

4.1.1 Preceding Consonant [+ lab.]

		А	в	С	D	$\mathbf{E}$	
1.	b-ci:	I	ŧ	I	I	I	ceremony
2.	b-gwu:	ប	υ	ប	σ	υ	beating
3.	ta:?b-ka?	υ	υ	υ	υ	υ	manage
4.	∳-ta?	I	I	I	I	1	go out
5.	m-lci:	ប	ŧ	÷	I	υ	power

In this dialect as in the standard,  $[\frac{1}{2}]$  appears in this pattern of pronunciation. It features <u>once</u> in the first word and <u>twice</u> in the fifth one; the second and third words are consistently pronounced with [v], and the fourth one consistently with [1]. To be specific,  $[\frac{1}{2}]$  is seen to alternate with [1] in the first word, and both  $[\frac{1}{2}]$  & [1] are seen to do the same with [v] in the last one.

'A'

# 4.1.2 Preceding Consonant [+ cor.]

		A	В	С	D	$\mathbf{E}$	
1.	n-s'e:	ŧ	÷	Ŧ	÷	÷	sink down
2,	r-bu:tu:	υ	υ	ប	ŧ	υ	writing
з.	r-ga:	υ	ŧ	υ	Ŧ	ប	Fulani cattle encampment
4.	t-jmi:	÷	ŧ	Ŧ	υ	υ	mortar
5.	s-@e:to:	÷	ŧ	÷	Ŧ	÷	police inspector
6.	z-¢a:	υ	ΰ	÷	Ŧ	ប	sweat
7.	s'-ns'u:	ŧ	υ	ប	υ	ប	bird
8.	?aud-ga:	ŧ	υ	υ	υ	ប	cotton
9.	?d-mi:	υ	ŧ	ប	I	ŧ	warmth
10.	?da:l-bi:	÷	÷	÷	÷	i	student [+ male]

The situation here is the same as in the standard and Zaria dialects. [i] & [I] make alternation with [v] in the ninth word, ?dumi:/?dimi:,?dimi:, while [i] alone is the alternant in other cases where the alternation is seen to occur. 4.1.3 Preceding Consonant [+ phon. pal.]

		А	В	С	D	Ε	
1.	∫-rwa:	I	υ	υ	I	I	kite
2.	∫-da?	I	I	I	I	I	six
3.	tf-kwo:wa:	ប	I	I	υ	υ	overcrowd
4.	tſ−re3	I	I	I	I	1	remove
5.	dz-wa: <sup>32</sup>	_	_	_	-	ប	dizziness
6.	j-ŋwa:	I	ប	I	ប	ប	hunger

In cases where rounding follows, [v] is seen to alternate with the [1] also in this dialect. There is no alternation in 2 and 4 as there is no such phonetic value in the following segment.

4.1.4 Preceding Consonant [+ phon. dor.]

		Α	В	С	D	E	
1.	w-ja:	υ	ប	υ	I	ប	neck
2.	w-ta:	ប	ប	υ	ប	ប	fire

As in the standard dialect, <u>one</u> speaker is found to pronounce the first word with [1], which may be possible on account of the following [j].

<sup>32</sup> The first four speakers do not use this word. They are more familiar with the synonym dyr:..

# 4.1.5 Preceding Consonant [+ al. pal.]

		A	В	С	D	$\mathbf{E}$	
1.	c-s'o:	I	I	υ	I	I	plaiting of hair
2.	Φıc'-hu?	Ī	υ	υ	I	1	the science of Islamic law
З.	1-zo3	I	I	I	I	υ	the mythical spider of fables
4.	c-ra:	I	I	Ι	I	I	calling

Here also, [v] is seen to make alternation with the [I] in the first three words where 'rounding' exists in the following segment.

4.1.6 Preceding Consonant [+ al. dor.]

		Α	в	С	D	E	
1.	?akw-ja:	υ	υ	υ	I	υ	goat
2.	huŋkw'-ji?	υ		-	υ	I	place name
3.	gwa:gw-ji?	υ	I	υ	I	ឋ	gnaw at
4.	kw-sa?	ប	ប	υ	υ	Ծ	near

On account of the following [j], [1] alternates with the [v] in the first three words in this dialect, too.

#### 4.2 IN MORE THAN ONE SEGMENT

In this dialect, as in the Zaria dialect, the vowel distribution differs considerably from the standard dialect. In addition to combination VIII (1- $\upsilon$ ) which is absent in the standard dialect combination VI (i- $\upsilon$ ) is also absent here. The first two words are consistently pronounced with comb.IX, bundigà: and  $\phi$ ìtila: respectively, and the tenth word consistently with comb.I, kwùduddu $\phi$ i:. Regarding the total number of occurrences also, combinations I, IV and IX show a wide range of difference compared with the standard. Comb.I occurs eighteen (18) times here as against three (3) in the standard dialect; comb.IV eleven (11) times as against thirty-two (32) in the standard; and comb.IX occurs ten (10) times as against twice in the standard dialect. From this point of view, the Bauchi dialect is more like Zaria than the standard. (See table.)

FIVE SPEAKERS FROM BAUCHI	TABLE OF THE ALTERNATING-VC
	WEL COMBINATIONS FO
	R THE PRONUNCIATIO
	IN OF THE TEN S
	SELECTED WORDS
	BY THI

\_

	10.	9	00	7.	6	ហ	4	ω	2	Ч		
NUMBER OF OCCURRENCES	kwud-dd-¢i:	r-b-?i:	s-r-ci:	1-11-?bi:	s-m-nti:	. t-mb-?di:	d-dd-je:	, ⊉–⊉⊉–CG:	a−t−la:	b-nd-ga:	WORDS	
(3) (3)	c	"는 r	ມ	Û,	۵	(1) (1)	<u>م</u> د	<b>ა</b> ხ	ა		บ–บ	Т
(5) 4	(2)	٢	- (2) 2	ა			(1) 1	4			ц-т	II
(1) 2		(1)	<b>_</b>					ŀ	-		1-n	III
(32)	(3)	(3)	(3) (3)	α(4) ω	ာ ကြ ဖ	N (N N	ء (4 c	v (2)	(4)	(4)	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	IV
(4) (4)					(2) (2)	ت ت		(1)			i-f	V
(1) 0						(1)					±-υ	ΛI
22								(2) t	ა		I-I	VII
όο											1-G	VIII
(2) (2)									(1) 1)	ᇧᅌᅮᇰ	л <mark>Г</mark> #	XI
	pond	one quarter	inlaw [+ male	veiling	cement	regurgitation	heel	wing	lamp/light	gun	EQUIVALENTS	ENC: ISH

Figures in parenthesis are for the standard dialect

4.3 THE /U/ IN THE {-UCa:} MORPHEME

4.3.1 Preceding Consonant [+ lab.]

		A	в	С	D	$\mathbf{E}$	
1.	kwabb-na:	ឋ	υ	υ	σ	υ	pennies
2.	ka?b-ka:	ប	υ	σ	υ	ΰ	calabashes of food for a feast
3.	la•-za:	υ	σ	υ	υ	ប	speeches, pronunciations
4.	ra:m-ka:	υ	υ	υ	υ	υ	holes

Unlike the standard dialect (and like the Zaria dialect) the surface [v], under these circumstances is generally maintained without any alternation.

# 4.3.2 Preceding Consonant [+ cor.]

ABCDE

1.	s'avn-ka:	ŧ	υ	ប	υ	ប	hills
2.	ha?dar-rr-ka:	ບ–ບ	ບ–ບ	i-i	ບ–ບ	i-i	accidents
3.	ta:r-rr-ka:	<u></u> ບ–ບ	ບ–ບ	<b>ซ–</b> ช	უუ	i-i	conferences
4.	ti:t-na:	ប	υ	ŧ	υ	÷	streets
5.	hars-na:	ប	υ	Ŧ	υ	υ	languages
6.	da:z-zz-ka:	ប–ប	ʊ–ʊ	<b>ʊ</b> –ʊ	Ծ–Ծ	<b>ʊ</b> –ʊ	forests
7.	hans'-ka:	ŧ	÷	÷	υ	ប	forceps, tongs
8.	kwand-na:	÷	υ	υ	Ծ	ប	baskets
9.	ha?d-ra:	ប	ប	υ	υ	υ	accidents
10.	hu:l-na:	ប	ឋ	ប	υ	υ	caps

.

There are less cases of [i] alternating with the [v] here than in the standard dialect. Pronunciation with the [v] predominates.

4.3.3 Preceding Consonant [+ phon. pal.]

		A	В	С	D	Ε	
1.	wa:∫-na:	I	ប	υ	I	I	washers for nut
2.	hantf-na:	I	I	υ	I	I	noses
3.	?mty-na:	υ	I	I	ឋ	I	engines
4.	k'avj-ka:	ប	υ	I	ប	υ	villages

In this dialect as with both Zaria and the standard, [1] under these circumstances predominantly alternates with the [v].

#### 4.4 THE i: REDUCTION

### 4.4.1 Preceding Consonant [+ lab.]

		A	в	С	D	Ε		
1.	takwo:b-ŋ	1	I	I	I	I	the	sword
2.	d31 ?bŋ	I	I	I	I	I	11	perspiration
3.	ra:∳–ŋ	I	I	I	I	I	11	stream
4.	ra:m-ŋ	I	I	I	I	I	11	hole

Unlike in the standard dialect where [i] under these circumstances predominantly represents the reduced vowel, and like the Zaria dialect, the [1] is here maintained by every speaker.

# 4.4.2 Preceding Consonant [+ cor.]

		Α	В	С	D	Ε		
1.	ra:n-ŋ	÷	÷	÷	÷	i	the	dry season
2.	la:ba:r-ŋ	ŧ	ŧ	ŧ	ŧ	i	"	story
3.	bu:r-ŋ	÷	ŧ	ŧ	ŧ	÷	"	ambition
4.	kant-ŋ	÷	ŧ	÷	ŧ	ŧ	F 1	shop
5.	si:s-ŋ	ŧ	ŧ	ŧ	ŧ	ŧ	••	sixpence
6.	hırz-ŋ <sup>33</sup>		-	i	-	-	11	seeking for God's
								protection
7.	sans'-ŋ	ŧ	÷	ŧ	÷	ŧ	11	slipperiness
8.	maiga:d-ŋ	ŧ	ŧ	÷	÷	÷	**	guard
9.	kwu?d–ŋ	ŧ	÷	ŧ	ŧ	ŧ	*1	money
10.	?alka:1-ŋ	÷	÷	ŧ	ŧ	÷	11	judge

Here in Bauchi, as in the Zaria and standard dialects, the reduced vowel under this condition is regularly realized as [i] without any alternation.

<sup>33</sup> Four speakers are not familiar with this word in this dialect.

4.4.3 Preceding Consonant [+ phon. dor.]

	Α	В	С	D	E			
wi:w-ŋ	I	υ	ប	I	I	the	Indian	hemp

[v] here is seen to alternate with the [1] under these circumstances, as in the standard and Zaria dialects.

### 4.5 THE u: REDUCTION

### 4.5.1 Preceding Consonant [+ lab.]

		А	в	С	D	Ε	
1.	lamb-ŋ	ប	υ	υ	υ	υ	the garden
2.	jım?b—ŋ	υ	υ	υ	υ	υ	" clay
3.	sa:m-ŋ	ប	υ	υ	υ	υ	" wealth

Like the Zaria dialect and unlike the standard all five speakers maintain the [v] in the pronunciation of these words.

# 4.5.2 Preceding Consonant [+ cor.]

		А	В	С	D	$\mathbf{E}$	
1.	kwon-ŋ	υ	Ծ	υ	υ	υ	the gruel
2.	tattabar-ŋ	υ	ប	υ	ŧ	υ	" pigeons
3.	∫ւբ–դ	υ	ប	Ŧ	ŧ	υ	" silence
4.	kara:t-ŋ	ប	ប	ŧ	÷	υ	" reading
5.	s-ŋ	ប	υ	ī	υ	υ	" fishing
6.	bu:z-ŋ	υ	υ	υ	ឋ	υ	" sheep-skin
7.	ja:s'-ŋ	ប	ឋ	ប	υ	υ	" fingers
8.	gand-ŋ	ប	÷	σ	÷	υ	'' farm
9.	<b>ըս∶</b> ?d–դ	i	υ	υ	÷	ŧ	" confusion
10.	sa:bul-ŋ	ប	υ	υ	υ	υ	'' soap

A few cases of [i] alternating with the [v] can be noticed in this dialect. The [v] predominantly features in the pattern, unlike in the standard dialect where the situation under the same condition is the reverse. 4.5.3 Preceding Consonant [+ phon. pal.]

		A	в	С	D	$\mathbf{E}$	
1.	તેશા:તેર–૫	I	I	υ	υ	υ	the evil spirit
2.	ma:j-ŋ	ប	I	ប	υ	ប	" witches

Here, as in the standard and Zaria dialects, [1] alternates with the [v]. It does twice in the first word and once in the second.

'B'

### 4.6 IN A LONG UTTERANCE

# 4.6.1 Labial Preceding The /1/

Ya harb- akun
 [ja:hàrb-?àkwûŋ]
 He shot at the parrot

Jib- Isa zai komo
[dgi:b-?i:sa:zâikwo:mo:?]
It is the day after tomorrow that Isa will come back

An zab- Audu
 [?anzà:?b-?audù?]
 Audu is elected/chosen

- Sun kar6- nasu
  [suŋkàr?b-na:su?]
  They received theirs
- 5. Ta haif- 'ya mace
  [ta:haito-?ja:matfe?]
  She gave birth to a baby girl
6. Mun taf- gida [montà•-jida:] We went home

7. ya girm- Isa
[ja:jìrm-?i:sa:]
He is older than Isa

An sallam- leburori
 [?ansàllàm-le:buro:ri:]
 Labourers are dismissed

The vowel table:

	A	1	E	3	C	2	I	)	F	2
	I	Ŧ	I	ŧ	I	ŧ	I	Ŧ	I	Ŧ
1.	~		V		✓ ,		v			v
2.	~		V		v		v		v	
3.	V		~		v		V		v	
4.	1		✓		V		V			v
5.	1		~		✓		1		V	
6.	✓		1		1		√		✓	
7.	V		V		√		V		√	
8.	1		~		~		✓		V	
NUMBER OF	8	0	8	0	8	0	8	0	6	2

The situation here is exactly comparable with that in the Zaria dialect. The [1] is constantly maintained by four speakers, while  $[\frac{1}{2}]$  is seen to make alternation with it <u>twice</u> in one speaker. In other words, 95% of the total pronunciation is with the [1], and the remaining 5% with the alternant  $[\frac{1}{2}]$ . In the standard dialect, we noticed 35% for the [1] and 65% for the alternant, under the same circumstances.

## 4.6.2 Coronal Preceding The $/\upsilon/$

- Musa bai san- ba [mu:sa:bàisàn-ba?]
   Musa is not known
- Kamar- babbar ƙasa ce
   [kàmàr-bàbbark'asa:tfe`:]
   Cameroun is a large country
- 3. Far- muka tafi [\$\phi:r-mukata\$\$] It is F. we have been to
- 4. An bude kot- da wuri
  [?ambu:?dèkwo:t-dàwori?]
  The court has opened early

- 5. Mun gams- da haka
  [muŋgàms-dàhakà?]
  We are satisfied with that
- 6. Yanz- za mu tafi[jànz-za:mòtà\$i?]It is now that we are going
- 7. Saniyar ba za ta tats-- ba
  [sa:nìjârbàza:tàtà:s'-ba?]
  The cow cannot be milked
- 8. Gwand- a jihar Sakkwato take
  [gwand-?àduhàrsakwkwatotacè?]
  G. is in Sokoto State
- 9. Mun had- kan hanya
  [muŋhà?d-kâŋhaŋjà:]
  We met on the way
- 10. Ul- za a saya
  [?u:1-za:?àsàja:]
  It is woollen thread that will be bought

	A	I	I	3	C	2	I	)	I	C
	υ	i	υ	i	ប	÷	υ	÷	υ	ŧ
1.	V		1		✓		1		v	
2.	V		۷		1		√		~	
3.	¥		1			V	✓		V	
4.	V		1			۷	V		√	
5.	√		✓		~		v		~	
6.	V			V	V		V		√	
7.	V			V	ノ		V		J	
8.	¥		v		v		v		~	
9.	¥		V		V		√		V	
10.	¥		~		√		J		7	
									•	
NUMBER OF OCCURRENCES	10	0	8	2	8	2	10	0	10	0

Speakers A, D and E all maintain the [v] consistently. With B and C on the other hand, as in the standard dialect, [i] alternates with the [v] under this condition. The alternation, however, is very little, with the alternant [i] featuring just four (4) times (8%) and the [v] forty-six (46) times (92%). 4.6.3 Labial Preceding The /v/ With 'Spreading' Following

- Wannan ab- ya ba da mamaki [wannàŋ?àb-ja:ba:dàmà:ma:ci:]
   This thing has given surprise
- 2. Bab- inda za a samu
  [ba:b-?indàza:?àsa:mì:]
  Nowhere can it be obtained
- 3. Sun karb ya ce[suŋkàr?b-jatfe?]They were welcome he said
- 4. Ta ta6- ya ce
  [ta:tà?b-jatfe<sup>2</sup>:]
  She was crazy he said
- 5. Musulunci ya kaf- ya ce
  [musuluntfi:ja:kàt-jatfe;]
  Islam is deep-rooted he said
- 6. Yusuf- ya dawo[ju:sut-ja:da:wo:?]Y. is back

7. Mun gam- yau [moŋgàm-jaû?] We met today

Nam- ya fi
 [na:m-ja: \$\phi\$]
 Ours is better

The vowel table:

	A	А		3	С		D		F	6
	ឋ	I	ប	I	ប	I	υ	I	υ	I
1.	۷		v		v		V		1	
2.	` √		√		~		~		<b>v</b>	
3.	✓			V	~		√		v	
4.	V		v		v		~		v	
5.	1		v		~		~		✓	
6.	V		✓		V		√		√	
7.	√		1		✓			v	~	
8.	~		v		~		v			
NUMBER OF OCCURRENCES	8	0	7	1	8	0	7	1	8	0

As in the standard and Zaria dialects the occurrence of the alternant [1] is very little. It features only twice (5%) as against thirty-eight (38) times (95%) for the [v]. With three speakers the pronunciation is consistent with the [v].

- 4.6.4 Labial/Coronal Preceding The /1/ With 'Rounding' Following
- Ya harb- Uba
   [ja:hàrb-?uba?]
   He shot at Uba
- 2. An za6 wani[?anzà:?b-wani?]Someone is elected/chosen
- Ya taf- wurin
   [ja:tàφ-woriŋ]
   He went to the place
- 4. An dam- Uba
  [?andà:m-?uba?]
  Uba is disturbed
- 5. Anin- uku ne [?ani:n-?ukwone:] It was 3/10 of a penny
- Bar- Husaini ya dawo tukuna
  [bàr-hòsaınìjàda:wo:tòkwòna?]
  Wait until Husaini comes back

- 7. Fakit- hudu muke so
  [\$\pha:cit-hu?dumuce:so:]
  It is four packets that we want
- Ya tats- guzuma
   [ja:tà:s'-gwuzuma:]
   He milked an old cow
- 9. Ladid-uwa ce ga Musa
  [la:di:d-?owa:tfe:gàmu:sa:]
  L. is a mother to Musa
- Bad- Uba zai komo
  [bà?d-?ubazâikwo:mo:?]
  It is next year that Uba will return
- 11. Sun kall- wasu daga ciki [suŋkàll-wasudàgàtſıci:] They had a look at some

		А			В			С			D			Ε		
	I	i	ប	I	ŧ	ប	I	ŧ	ឋ	I	÷	ប	I	÷	ប	
1.	V				v		v			J					J	
2.	V				v		v			v				J		
З.			¥		v		v			V				۷		
4.	1			V			✓			√					J	
5.			~		J				J		J				¥	
6.		v			J			v			J			J		
7.		v			v			v			J			v		
8.		~			v			•			J			J		
9.			v			J			v			J			J	
10.		v			~			v			J				J	
11.			v		v			7			J				ł	
								•								
NUMBER OF OCCURRENCES	3	4	. 4	1	9	1	4	5	2	4	6	1	0	5	6	

Here, from 1-4 (where labial precedes), in 1 and 3  $[\pm]$  &  $[\upsilon]$ alternate with the [I],  $[\pm]$  exclusively in 2, and  $[\upsilon]$  exclusively in 4; in the other cases (where coronal precedes),  $[\upsilon]$  makes alternation with the surface  $[\pm]$  in 5, 10 and 11, pronunciation is consistent with the  $[\pm]$  in 6, 7 and 8, and with  $[\upsilon]$  in 9. As a whole, while each vowel is reflected in the pronunciation of four speakers, speaker E does not have an [I] in this particular situation. In the standard dialect, we saw a similar case with two speakers, where the vowel under the same circumstances does not feature.

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#### 4.7 CONCLUSION

The areas in which the Bauchi dialect differs from the standard regarding the alternation of these three vowels, are basically the same three in which the Zaria dialect too differs from it: a) a less common tendency for [i] to alternate with [i] or with [v] when a con. [+ lab.] precedes, b) alternation in more than one segment and, c) case of reduced u: in a closed syllable with a con. [+ cor.] preceding. For a) speakers B, C & E are found to employ  $[\frac{1}{2}]$  in a few cases (4.1.1, 4.6.1 & 4.6.4). For b) combination I (u-u) occurs eighteen (18) times here as against three (3) in the standard dialect; comb. IV (i-i)eleven (11) times here and thirty-two (32) in the standard; comb.IX (1-i) occurs ten (10) times here and twice in the standard; likewise not only comb.VIII  $(1-\tau)$  is absent here but also VI  $(\pm-\tau)$ . For c) the [v] under this condition is frequently retained in this dialect unlike in the standard where the alternant [i] features more. In addition, however, the /v/ in the {-vCa:} morpheme with coronal preceding exhibits a very similar case. While the alternant  $\begin{bmatrix} i \end{bmatrix}$  features more in the standard dialect, maintenance of the [v] gains predominance here. The alternation pattern in the other cases is the same.

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#### CHAPTER FIVE

5.0 THE [1], [1] & [U] ALTERNATION IN THE DAURA DIALECT

In Chapter Four, we examined the alternation of [1],  $[\frac{1}{2}]$  & [v] in the Bauchi dialect, and discovered that the areas in which it differs from the standard dialect are basically those in which the Zaria dialect too differs from it, i.e. a) a less common tendency for  $[\frac{1}{2}]$  to alternate with an [1] or [v] when preceded by a labial consonant; b) the sort of alternation in more than one segment; and c) the behaviour of reduced u: in a closed syllable where the preceding consonant is a coronal. In addition, however, we noticed in this dialect, another case of contrast in the alternation affecting the /v/ in the  $\{-vCa:\}$ morpheme with a coronal preceding. In this chapter we will turn to consider the situation in the Daura dialect.

# 'A'

#### 5.1 IN A SINGLE SEGMENT

5.1.1 Preceding Consonant [+ lab.]

		А	в	С	D	Ε	
1.	b-ci:	÷	I	Ι	I	I	ceremony
2.	b-gwo: <sup>34</sup>	ប	σ	υ	υ	ΰ	beating
3.	ta:?b-ka <b>?</b>	ប	σ	υ	υ	υ	manage
4.	<b>∮-ta</b> ?	I	I	Ι	I	Ι	go out
5.	m-lci:	υ	σ	÷	σ	I	power

This pattern is similar to that of Bauchi and the standard dialects in that  $[\frac{1}{2}]$  is seen to feature. It alternates with [1] <u>once</u> in the first word, while both  $[\frac{1}{2}]$  & [1] do with [v] in the last word. There are no cases of alternation in 2, 3 and 4.

 $<sup>^{34}</sup>$  Unlike in the other dialects, this word has an -o: final vowel in this dialect.

# 5.1.2 Preceding Consonant [+ cor.]

		А	В	С	D	$\mathbf{E}$	
1.	n-s'e:	ŧ	i	ŧ	i	÷	sink down
2.	r-bu:tu:	υ	υ	ឋ	ŧ	ŧ	writing
з.	r-ga:	υ	i	ŧ	ឋ	i	Fulani cattle encampment
4.	t-rmi:	I	υ	Ŧ	ŧ	I	mortar
5.	s-@e:to:	ŧ	ŧ	÷	÷	ŧ	police inspector
6.	z-•a:	÷	ប	i	i	i	perspiration
7.	s'-ns'u:	υ	Ծ	÷	υ	÷	bird
8.	?aud-ga:	ប	υ	ŧ	÷	i	cotton
9.	?d-mi:	υ	I	÷	Ŧ	ŧ	warmth
10.	?da:l-bi:	÷	ŧ	ŧ	÷	ŧ	student [+ male]

There is no item with [v] exclusively, but three with  $[\pm]$  exclusively and, these have a following front vowel. The other two examples with a following front vowel show an alternation of [I],  $[\pm]$  and [v]. In the previous dialects this occurred with the ninth word only.

5.1.3 Preceding Consonant [+ phon. pal.]

		А	В	С	D	Έ	
1.	∫-rwa:	I	ប	υ	I	ឋ	kite
2.	∫-dda? <sup>35</sup>	I	I	I	-	I	six
3.	t∫-kwo:wa:	υ	σ	υ	ប	I	overcrowd
4.	tj-rez	I	I	r	I	I	remove
5.	dz-wa:	υ	I	I	υ	I	dizziness
6.	j-nwa:	ប	υ	I	υ	I	hunger

As in the previous dialects the only cases of alternation are where 'rounding' follows.

5.1.4 Preceding Consonant [+ phon. dor.]

		A	В	С	D	E	
1.	w-ja:	υ	υ	ប	υ	ប	neck
2.	w-ta:	ប	υ	ប	υ	τ	fire

In the first word, although [j] follows, none of these speakers is found to use [I]. The [v] is consistently maintained. We noticed the same situation with the five speakers from Zaria.

 $^{35}$  In this dialect the stem final consonant of this word is geminated. Speaker D has the initial consonant as 'h', i.e. hıddà?.

# 5.1.5 Preceding Consonant [+ al. pal.]

		A	В	С	D	Ε	
1.	c-s'o:	I	υ	υ	I	I	plaiting of hair
2.	Φıc'-hu?	υ	I	ប	I	I	the science of Islamic law
3.	1-zoj	I	I	I	υ	I	the mythical spider of fables
4.	c-ra:	I	I	I	I	I	calling

There is no alternation with the [I] in the fourth word as there is no 'rounding' following, unlike in the other cases where there is. This is comparable with the previous dialects.

5.1.6 Preceding Consonant [+ al. dor.]

		А	в	С	D	Ε	
1.	?akw-ja:	ប	ឋ	ប	ឋ	υ	goat
2.	hunkw'-ji?	ប	υ	υ	υ	υ	place name
3.	gwa:gw-ji?	I	υ	I	Ծ	υ	gnaw at
4.	kw-sa?	υ	υ	ប	ប	υ	near

There is no case of alternation here in examples 1 and 2. The  $[\upsilon]$  is consistently maintained despite the following [j] in both. In the third word however, [I] alternates with the  $[\upsilon]$  as in the previous dialects.

#### 5.2 IN MORE THAN ONE SEGMENT

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The vowel distribution in this dialect does not differ much from the standard. Like the standard dialect, all combinations other than VIII (1-v) are reflected. For the total number of occurrences too, it is only combination IX (1-i) that shows a considerable difference between the two dialects, by <u>nine</u> cases here against <u>two</u> in the standard. The Daura dialect thus, one can say, is closer to the standard in this particular situation. (See table.)

Figures
in
parenthesis
are
for
the
standard
dialect

	10.	9	•	7.	с. •	თ •	4.	ω	20	اسا •		
NUMBER OF OCCURRENCES	kwud-dd-¢i:	r-b-li:	s-r-ci:	1-11-?bi:	s-m-nti:	t-mb-?di:	d-dd-je:	÷-0-4	∳-t-la:	b-nd-ga:	WORDS	
6 (3)	N	۰Û۲	Ŀ	(1) 1)	L	(L) r	-	۲	-		ປ <del>-</del> ປ	н
(5) 2	(2) -	L	(2)	F	L		(1)				с ⊥	II
(1) 1		Ē	ч								u–1	III
22 (32)	<ul><li>(3) <sup>∠</sup></li></ul>	ာက္လက	ာက္ ။	ں <u>4</u> «	៰៝៲៸	- (2) c	υ <u>4</u> α	<sup>n</sup> (2)	(4)	(4)	۲۰ ۴۰	VI
4 (4)			-		(2) 2)	2) 2		(1)			Ť	V
1 (1)					۲	1					±-υ	ΓV
(2) 5						۲	L	(2)	2		I-1	VII
<u></u> 00											IU	VIII
9 (2)									Ĺ,	<sup>7</sup> 1, t	↓ 1 – <del>1</del>	XI
	pond	one quarter	inlaw [+ male]	veiling	cement	regurgitation	heel	wing	lamp/light	gun	EQUIVALENTS	

TABLE OF THE ALTERNATING-VOWEL COMBINATIONS FOR THE PRONUNCIATION OF THE TEN SELECTED WORDS BY THE FIVE SPEAKERS FROM DAURA

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5.3 THE  $/\upsilon$  IN THE  $\{-\upsilon Ca:\}$  MORPHEME

5.3.1 Preceding Consonant [+ lab.]

		Α	В	С	D	Ε	
1.	kwabb-na:	υ	υ	ប	σ	ឋ	pennies
2.	ka?b-ka:	υ	υ	υ	υ	υ	calabashes of food for a feast
3.	lao-za:	υ	ប	÷	υ	ឋ	speeches, pronunciations
4.	ra:m-ka:	υ	υ	ប	υ	÷	holes

Two cases of [i] alternating with the [v] can be seen in 3 and 4. We noticed a similar situation in the standard dialect where the alternation features in 1 and 3. 5.3.2 Preceding Consonant [+ cor.]

А	в	С	D	E	

1.	s'avn-ka:	υ	Ŧ	i	Ŧ	÷	hills
2.	ha?dar-rr-ka:	ʊ–ʊ	i-i	i-i	i-i	i-i	accidents
3.	ta:r-rr-ka:	i-i	ឋ–ប	i-i	ʊ–ʊ	i-i	conferences
4.	ti:t-na:	υ	i	ŧ	υ	ŧ	streets
5.	hars-na:	υ	ប	÷	÷	ប	languages
6.	da:z-zz-ka:	<del>ა–</del> თ	<b>ʊ</b> –ʊ	<b>უ–</b> უ	ບ–ບ	i-i	forests
7.	hans'-ka:	ប	υ	÷	÷	ឋ	forceps, tongs
8.	kwand-na:	ប	ប	υ	Ծ	÷	baskets
9.	ha?d-ra:	÷	ប	ប	Ծ	ŧ	accidents
10.	hu:1-na:	υ	υ	÷	υ	÷	caps

The alternation of [i] with the [v] here as in the standard as well as Zaria dialect, is considerable. The case in Bauchi we saw, is not as pronounced.

5.3.3 Preceding Consonant [+ phon. pal.]

		А	в	С	D	$\mathbf{E}$	
1.	wa:∫-na <sup>36</sup>	_		-	ប	I	washers for nut
2.	hantj-na:	I	υ	I	I	I	noses
3.	?ımlz-na:	I	I	I	I	υ	engines
4.	k'avj-ka:	υ	ប	υ	ប	I	villages

As with the previous dialects, pronunciation with the alternant [1] under this condition predominates here. Maintenance of the [v] is less.

<sup>36</sup> The first three speakers are more used to the alternative form, wa: jo: ji: •

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#### 5.4 THE i: REDUCTION

# 5.4.1 Preceding Consonant [+ lab.]

		А	В	С	D	Ε	
1.	takwo:b-ŋ	I	I	I	1	I	the sword
2.	dgi?b—ŋ	-	I	-	I	I	" perspiration
з.	ra:⊅–ŋ	I	I	I	I	I	" stream
4.	ra:m-ŋ	I	I	I	I	I	" hole

In this pattern, there is no case of any alternation with the [1]. We saw in the standard dialect that  $[\pm]$  predominantly represents the reduced vowel, under these circumstances.

## 5.4.2 Preceding Consonant [+ cor.]

		A	В	С	D	Ε		
1.	ra:n-ŋ	÷	ŧ	ż	ŧ	i	the	dry season
2.	la:ba:r-ŋ	ŧ	ŧ	ŧ	ŧ	ŧ	* *	story
3.	bu: բ–դ	ŧ	÷	ŧ	ŧ	÷	11	ambition
4.	kant-ŋ	÷	÷	÷	i	ŧ	* *	shop
5.	si:s-ŋ	ŧ	ŧ	ŧ	i	ŧ	11	sixpence
6.	h1rz-ŋ <sup>37</sup>		-	_		-	* *	seeking for God's
								protection
7.	sans'-ŋ	÷	ŧ	i	ŧ	Ŧ	**	slipperiness
8.	maiga:d-ŋ	ŧ	ŧ	ŧ	i	i	11	guard
.9.	kwu?d-ŋ	Ŧ	÷	Ŧ	÷	ŧ	11	money
10.	?alka:1-ŋ	÷	÷	÷	i	÷	11	judge

As in the previous dialects, the realization here of the reduced vowel is [i] under these circumstances, without any alternation.

5.4.3 Preceding Consonant [+ phon. dor.]

A B C D E wi:w-ŋ 1 U I I the Indian hemp

As in the standard dialect, a case of  $[\upsilon]$  alternating with the [1] under this condition is evident.

 $^{37}$  All the five speakers are not familiar with this word in this dialect.

#### 5.5 THE u: REDUCTION

## 5.5.1 Preceding Consonant [+ lab.]

		A	В	С	D	Ε	
1.	lamb-ŋ	υ	ឋ	υ	υ	ប	the garden
2.	jım?b-ŋ	ប	ឋ	υ	υ	υ	" clay
3.	sa:m-ŋ	υ	υ	υ	σ	υ	" wealth

While there are a few cases in the standard dialect where  $[\pm]$  alternates with the  $[\upsilon]$ , the latter is consistently maintained by every speaker here. This is, however, comparable with the situation in Zaria and Bauchi.

# 5.5.2 Preceding Consonant [+ cor.]

		А	В	С	D	Έ		
1.	kwon-ŋ	ŧ	ប	Ŧ	υ	υ	the	gruel
2.	tantabar-ŋ <sup>38</sup>	υ	ŧ	ŧ	÷	υ	11	pigeons
3.	∫ւր–դ	ŧ	υ	ŧ	υ	÷	11	silence
4.	kara:t-ŋ	ŧ	ŧ	ឋ	÷	÷	"	reading
5.	s-ŋ	ŧ	υ	ប	υ	÷	11	fishing
6.	bu:z-ŋ	ប	υ	ឋ	υ	υ	11	sheep-skin
7.	ja:s'-ŋ	ŧ	υ	ឋ	ប	ឋ	Ħ	fingers
8.	gand-ŋ	υ	υ	σ	υ	ŧ	11	farm
9.	ru:?d–ŋ	ŧ	÷	÷	ŧ	÷	11	confusion
10.	sa:bʊl-ŋ	÷	ŧ	÷	ប	i	11	soap

1

The distribution of the [v] and the alternant [i] here seems to be even. In the standard dialect we noticed that the occurrence of [i] is more frequent, and in the other two dialects, the [v].

 $^{38}$  The first syllable of this word as in the Zaria dialect has a final 'n'.

5.5.3 Preceding Consonant [+ phon. pal.]

		А	В	С	D	$\mathbf{E}$	
1.	d <b>յս:</b> dy-ŋ	I	υ	I	υ	I	the evil spirit
2.	ma:j-ŋ	I	I	ប	I	υ	" witches

•

As in the previous dialects, [I] is seen to alternate with the  $[\upsilon]$  in each word above.

'B'

## 5.6 IN A LONG UTTERANCE

5.6.1 Labial Preceding The /1/

1. Ya harb- akun

[ja:hàrb:?àkwûŋ] He shot at the parrot

2. Jib- Isa zai komo
[dgi:b-?i:sa:zaîkwo:mo:]
It is the day after tomorrow that Isa will come back

- 3. An zab- Audu[?anzà:?b-?audù?]Audu is elected/chosen
- 4. Sun kar6- nasu
  [suŋkàr?b-na:sù?]
  They received theirs
- 5. Ta haif- 'ya mace
  [ta:hài∳-?ja:màtjè?]
  She gave birth to a baby girl

- 6. Mun taf- gida [muntà•-jida:] We went home
- 7. Ya girm- Isa
  [ja:jìrm-?i:sa:]
  He is older than Isa
- 8. An sallam-leburori [?ansàllàm-le:buro:ri:] Labourers are dismissed

	I	Ŧ	I	3	(	2	Ι	)	I	2
	I	i	I	i	I	ŧ	I	÷	I	ŧ
1.		√		√	~			~		~
2.	V		J		v			~	✓	
3.		V		v	v			J		✓
4.		v		~	v			~		1
5.	*		~		V		v		\$	
6.		v		~	v		V		1	
7.	1			1	1		√		~	
8.	•		¥		V		V		~	
NUMBER OF OCCURRENCES	4	4	3	5	8	0	4	4	5	3

Here, while speaker C consistently maintains pronunciation with the [1], the others all have a fairly even alternation of [1] and [i]. However, maintenance of the [1] in general predominates by twenty-four (24) cases (60%) to sixteen (40%) for the alternant [i]. This is unlike in the standard dialect where the alternant attracts 65% and the [1] 35%.

5.6.2 Coronal Preceding The /v/

- Musa bai san- ba
   [mu:sa:bàisàn-ba?]
   Musa is not known
- 2. Kamar- babbar ƙasa ce
  [kàmàr-bàbbark'asa:tʃe:]
  Cameroun is a large country
- Far- muka tafi
   [Φa:r-mukàtàΦi?]

It is F. we have been to

4. An bude kot- da wuri
[?ambu:?dèkwo:t-dàwori?]
The court has opened early

- 5. Mun gams- da haka [mungams-dahaka?] We are satisfied with that
- 6. Yanz- za mu tafi[jànz-za:mòtà@i?]It is now that we are going
- 7. Saniyar ba za ta tats- ba
  [sa:nìjârbàza:tàtà:s'-ba?]
  The cow cannot be milked
- 8. Gwand- a jihar Sakkwato take
  [gwand-?àkihàrsakwkwatotacè?]
  G. is in Sokoto State
- 9. Mun had- kan hanya [muŋhà?d-kâŋhaŋjà:] We met on the way
- 10. Ul- za a saya
  [?u:l-za:?àsàja:]
  It is woollen thread that will be bought

.

	1	1	ł	3	(	2	I	)	I	3
	υ	÷	Ծ	÷	ប	÷	ឋ	÷	υ	÷
1	.1			J	,			J		J
2.	v	J	v	v	v	ł	V		v	
3.	۷			v	J		V		J	
4.		V	v		v		v		V	
5.	V		1		v		J		V	
6.	~		√		✓		1		V	
7.		V	1		1			4	¥	
8.	√		4		✓		1		1	
9.	<b>√</b>		1			V		V	1	
10.	1		1		1		J		4	
NUMBER OF OCCURRENCES	7	3	8	2	8	2	7	3	9	l

As in the standard dialect, all the five speakers here have some alternation of  $[\pm]$  with the [v]. The alternant occurs eleven (11) times (22%) as against thirty-nine (78%) for the [v].

5.6.3 Labial Preceding The /v/ With 'Spreading' Following

- Wannan ab- ya ba da mamaki
   [wannàŋ?àb-ja:ba:dàmà:ma:ci`:]
   This thing has given surprise
- 2. Bab- inda za a samu
  [ba:b-?indàza:?àsa:mì:]
  Nowhere can it be obtained
- 3. Sun kar6- ya ce[suŋkàr?b-jatjê:]They were welcome he said
- 4. Ta taô- ya ce
  [ta:tà?b-jatʃê:]
  She was crazy he said
- 5. Musulunci ya kaf- ya ce
  [musuluntfi:ja:kà@-jatfe:]
  Islam is deep-rooted he said
- 6. Yusuf- ya dawo[ju:sut-ja:da:wo:?]Y. is back

- 7. Mun gam- yau [muŋgàm-jaû?] We met today
- 8. Nam- ya fi [na:m-ja:Фi?] Ours is better

	A	1	Ε	3	C	2	Ι	)	F	2
	υ	I	ប	I	υ	I	υ	I	υ	I
1.	4		1		J		v		¥	
2.	¥		v		v			4	J	
3.	1		¥		v		v		J	
4.	v		s		v		J		¥	
5.	4		¥		J		¥		J	
6.	1		¥		1		4		1	
7.	1			¥	J		√		¥	
8.	¥		v		v		V		v	
NUMBER OF OCCURRENCES	8	0	7	1	8	0	7	1	8	0

In this dialect as in the previous ones, while two speakers have alternation, the others have pronunciation consistently with the [v]. The alternant [1] occurs just <u>twice</u> (5%) and the [v] thirty-eight (38) times (95%).

- 5.6.4 Labial/Coronal Preceding The /1/ With 'Rounding' Following
- Ya harb- Uba
   [ja:hàrb-?ùba?]
   He shot at Uba
- 2. An za6- wani [?anzà:?b-wani?] Someone is elected/chosen
- 3. Ya taf- wurin [ja:tào-woriŋ] He went to the place
- 4. An dam- Uba
  [?andà:m-?ùba?]
  Uba is disturbed
- 5. Anin- uku ne [?àni:n-?vkwòne:] It was 3/10 of a penny
- Bar-Husaini ya dawo tukuna
  [bàr-husainijàda:wo:tukuna?]
  Wait until Husaini comes back

- 7. Fakit- hudu muke so
  [\$\pha:cit-hu?dumuce:so:]
  It is four packets that we want
- Ya tats- guzuma
   [ja:tà:s'-gwozoma:]
   He milked an old cow
- 9. Ladid- uwa ce ga Musa
  [là:di:d-?owa:tfè:gàmu:sa:]
  L. is a mother to Musa
- Bad- Uba zai komo
  [bà?d-?ubazaîkwo:mo:?]
  It is next year that Uba will return
- 11. Sun kall- wasu daga ciki [suŋkàll-wasudàgàtfici:] They had a look at some

**OCCURRENCES** 

		А			В			С			D			$\mathbf{E}$		
	I	ŧ	ប	I	ŧ	υ	I	÷	ប	I	ŧ	υ	I	ŧ	ប	
1.		4			1		V				4		V			
2.		√			¥		1			¥			V			
3.	v				✓				V		v		V			
4.	V					4			V	J					1	
5.			1			1		J			4			1		
6.		V			1			√			V			V		
7.		V			V			1			V			J		
8.		v			1			v			1			¥		
9.			V		V			V			V			J		
10,		v				4			v		1			V		
11.		V				V			1		V			V		
NUMBER OF	ŋ	7	0	0	7	1	0	Б	٨	0	0	0	0	7	7	

In this dialect, from 1-4 (where labial precedes),  $[\pm]$  alternates with the [I] in 1 and 2, [v] exclusively does in 4, and both  $[\pm]$  & [v] in 3; in the other cases (where coronal precedes), [v] is seen to alternate with the surface  $[\pm]$  in 5, 9, 10 and 11, while pronunciation is consistently maintained with the  $[\pm]$  in 6, 7 and 8. Generally, one speaker does not have an [I], and another one does not have an [v] in this particular pattern. We noticed two speakers in the standard dialect not having an [I].
#### 5.7 CONCLUSION

Compared with the general shape of [1],  $[\frac{1}{2}]$  & [v] alternation in the Zaria and Bauchi dialects relative to the standard, there seems to be some contrast in the Daura dialect. Cases of [i] alternating with [I] or [v] where a labial precedes are here more frequent than in either of the other dialects (see 5.1.1, 5.3.1, 5.6.1 & 5.6.4). Turning to the alternation in more than one segment, the situation in this dialect does not differ much from the standard. In both dialects all combinations other than VIII  $(1-\sigma)$  are reflected. Furthermore, even in the total number of occurrences combination IX (1-i) only, tends to show significant contrast by nine cases here to two in the standard. Regarding reduced u: in a closed syllable while a coronal precedes, however, the distribution of the [v] and the alternant [i] is fairly even in this dialect as against the standard, where the alternant is more frequent. So as a whole, it is clear that the Daura dialect is closer to the standard than Zaria and Bauchi are. The alternation pattern in the other cases remains the same as in the other dialects.

#### CHAPTER SIX

6.0 THE [1], [1] & [U] ALTERNATION IN THE KATSINA DIALECT

In Chapter Five, we looked into the alternation of [1],  $[\frac{1}{2}]$  &  $[\upsilon]$ in the Daura dialect and found that the dialect in question is closer to the standard than are Zaria and Bauchi. For, cases of  $[\frac{1}{2}]$  alternating with [1] or  $[\upsilon]$  where a labial precedes are more frequent than in either of these dialects. Furthermore, in the sort of alternation affecting more than one segment in both this dialect and the standard all vowel combinations other than VIII (1- $\upsilon$ ) are reflected in the pronunciation. We will dwell, in this chapter, on the situation in the Katsina dialect.

However, in this dialect as well as Sokoto,  $/\Phi$ / has the realization [hw] before -a (including 'ai') and [h] before other vowels:

#### Before -a

hwari:	as ag	ainst	<b></b> ∮ari:	white one [+ masc.]				
hwarkwo:	11	11	∮arkwo:	beginning				
kàti:hwa:	11	11	kàti: ¢à:	mattress				
hwaihwa:	11	11	Фа1Фа:	paper, bank note				
kaŋhwa1?	11	11	kam4a1?	pants				

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## Before -i

hi:li:	as ag	ainst	φi:li:	field
ci:hi:	tt	11	ci:Фi:	fish
hi:?da:	11	*1	¢i:?da:	flaying

#### Before -e

he:dà: (Eng.)	as against	Φe:da:	pedal
k'arhe:	11 11	k'ar∳è:	steel
tahe?	11 11	tà•e?	be in state of coming

## Before --u

hulo:tì?	(Eng.)	as	against	ovlo:tì?	plot of land
kati:hu:		**	11	kati: ou:	mattresses
rohu?		TT	11	rvdu?	be well shut

#### Before -o

ho:du?	as against		₽0:dù?	Ford brand of motor			
				vehicle			
kwurho:?	* *	11	kwur‡0:?	military policeman			
nuho:2		"	nuto:?	walk towards this			
				direction			

But, this does not mean that the selected speakers of these dialects all substitute [hw] and [h] for  $[\Phi]$  under those specified conditions in their pronunciation of the particular sample utterances. On the contrary, the substitution is manifested in certain cases only, which will be indicated in the footnote.

# 6.1 IN A SINGLE SEGMENT

6.1.1 Preceding Consonant [+ lab.]

		А	·B	С	D	E	
1.	b-ci:	I	I	I	÷	I	ceremony
2.	b-gwu:	υ	σ	υ	υ	υ	beating
3.	ta:?b-ka?	υ	υ	υ	υ	υ	manage
4.	∳-ta? <sup>39</sup>	I	I	-	I		go out
5.	m-lci:	÷	÷	÷	υ	÷	power

While there is no alternation in 2, 3 and 4 here, [i] is seen to alternate with [1] <u>once</u> in the first word and with [v] <u>four</u> times in the last one. As in the standard dialect, [1] does not feature in the pronunciation of this last word.

<sup>39</sup> For speakers C & E the initial consonant of the word is 'h' (followed by an [1]), hence, hita?.

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'A'

## 6.1.2 Preceding Consonant [+ cor.]

		Α	в	С	D	Ε	
1.	n-s'e:	I	÷	ŧ	i	÷	sink down
2.	r-bu:tu:	υ	ប	ប	υ	υ	writing
3.	r-ga:	÷	÷	υ	υ	ŧ	Fulani cattle encampment
4.	t-mi:	÷	÷	ប	ប	÷	mortar
5.	s-@e:to:	÷	ប	Ŧ	÷	÷	police inspector
6.	z-•a:	ប	Ŧ	ប	Ŧ	±40	perspiration
7.	s'-ns'u:	υ	υ	υ	υ	υ	bird
8.	?aud-ga:	υ·	÷	Ŧ	÷	υ	cotton
9.	?d-mi:	I	I	Ŧ	σ	υ	warmth
10.	?da:l-bi:	÷	I	÷	÷	÷	student [+ male]

The second and seventh words are consistently pronounced with [v] by each speaker. There is none exclusively pronounced with [i]. In the ninth word [i] & [1] alternate with the [v] as in the previous dialects. On the other hand, unlike them, [i] & [1] are found to alternate in the first and last words.

 $<sup>^{40}</sup>$  Speaker E substitutes 'hw' for the stem-final consonant ' $\Phi$ ', hence, zihwa:.

6.1.3 Preceding Consonant [+ phon. pal.]

		Α	в	С	D	Έ	
1.	∫-rwa:	I	υ	I	υ	I	kite
2.	∫-dda? <sup>41</sup>	I	I	I	I	I	six
3.	t <b>⊱kwo:</b> wa:	ΰ	υ	I	I	I	overcrowd
4.	tf-re:	I	I	I	I	I	remove
5.	dz-wa:	υ	υ	υ	ប	I	dizziness
6.	j-ŋwa:	I	υ	I	υ	ប	hunger

Cases of alternation are found exclusively where 'rounding' follows, as in the previous dialects.

6.1.4 Preceding Consonant [+ phon. dor.]

		A	В	С	D	Е	
1.	w-ja:	υ	υ	ប	I	υ	neck
2.	w-ta:	ប	υ	υ	ប	υ	fire

As in the standard and Bauchi dialects, case of [1] alternating with the [v] where [j] follows is noticed.

<sup>41</sup> As in the Daura dialect, the stem-final consonant is geminated.

## 6.1.5 Preceding Consonant [+ al. pal.]

		А	в	С	D	E	
1.	c-s'o:	I	I	I	ប	I	plaiting of hair
2.	Φıc'-hu?	υ	I	ប	υ	1	the science of Islamic law
3.	J-zo?	I	υ	I	I	I	the mythical spider of fables
4.	c-ra:	I	I	I	I	I	calling

As in the previous dialects, cases of alternation are restricted to the items in which 'rounding' follows.

6.1.6 Preceding Consonant [+ al. dor.]

		А	В	С	D	Έ	
1.	?akw-ja:	I	υ	υ	I	υ	goat
2.	huŋkw'-ji?	υ	υ	υ	ប	ប	place name
3.	gwa:gw-ji?	υ	I	υ	υ	I	gnaw at
4.	kw-sa?	υ	υ	ប	υ	σ	near

In the first three examples where [j] follows, [I] is seen to alternate with the  $[\upsilon]$  as in the standard as well as in Zaria and Bauchi dialects.

#### 6.2 IN MORE THAN ONE SEGMENT

In this dialect, the vowel distribution exhibits some contrast with that in the standard. While combination VIII  $(1-\upsilon)$  is the only one absent in the standard, combination VI  $(i-\upsilon)$  in addition, is also absent in this dialect. This is exactly the same as the situation in Bauchi. Similarly, regarding the total number of occurrences, there are ten (10) cases for combination I  $(\upsilon-\upsilon)$  in this dialect as against three (3) in the standard; fourteen (14) for combination IV (i-i) here against thirty-two (32) in the standard; and, eight (8) for combination IX (I-i) here against two (2) in the standard. These three particular combinations, it can be recalled, are also those in which the Zaria and Bauchi dialects show a major contrast with the standard. (See table.)

huut	10.		00	7.	с, С	Сл	4	.ω •	2.2	1.			TABLE FIVE
NUMBER OF OCCURRENCES	kwud-dd-øi:	r-b-?i:	s-r-ci:	1-11-?bi:	s-m-nti:	t-mb-?di:	d-dd-je:	ф−фф-се:	∳-t-la:	b-nd-ga	WORDS		OF THE ALTERNATING-VOWEL SPEAKERS FROM KATSINA
3 9 6	ł	-1-1-1	.) t	»È,	ы С	(1)	}	<b>_</b>			<u>ช–ช</u>	н	COMBI
ာ် ယ	(2)		2	0		ł	۲) ۲				с т	II	NATIO
ω	ł		0								บ-1	III	NS FOR
14	(3) (3)	ဆ်	(3) (3)	- (4)	် မ	-22	2 <sup>2</sup> 4	4 <sup>(2)</sup>	(4)	(4)	ዝ.   ነት	IV	THE PI
(4) (4)					(2)	4		(1)			÷-I	V	RONUNC
ĴΟ						(1)					<del>i</del>	VI	IATION
(2)		}						(2)	J.S		١٠I	VII	OF TH
<u> </u>											I−ʊ	VIII	E TEN 1
2) 8										ωÊ.	л I #.	XI	SELECT
	pond	one quarter	inlaw [+ male]	veiling	cement	regurgitation	heel	wing	lamp/light	gun	EQUIVALENTS	FNCI ICH	ED WORDS BY THE

a) Figures in parenthesis are for the standard dialect

ł

b) Speakers C & E consistently substitute 'h' for '&' in

2, 3 and 10, and use 'I' as the following vowel in 2 and 3

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6.3 THE /v/ IN THE {-vCa:} MORPHEME
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6.3.1 Preceding Consonant [+ lab.]

		А	В	С	D	E	
1.	kwabb-na:	ប	σ	υ	Ŧ	ប	pennies
2.	ka?b-ka:	ប	ប	ប	υ	υ	calabashes of food for a
							feast
3.	la•-za:	÷	ប	υ	υ	υ	speeches, pronunciations
4.	ra:m-ka:	ប	υ	υ	υ	ប	holes

,

As in the standard dialect,  $[\underline{i}]$  is seen to alternate with the  $[\upsilon]$  in 1 and 3.

## 6.3.2 Preceding Consonant [+ cor.]

		А	В	С	D	Έ	
1.	s'avn-ka:	ប	÷	υ	÷	ប	hills
2.	ha?dar-rr-ka:	i-i	i–i	<b>υ–</b> υ	<u>ឋ–</u> ប	<b>ʊ</b> –ʊ	accidents
з.	ta:r-rr-ka:	i-i	1-1	<del>υ-</del> υ	ប–ប	i-i	conferences
4.	ti:t-na:	ŧ	ប	ប	ŧ	ŧ	streets
5.	hars-na:	υ	÷	υ	υ	υ	languages
6.	da:z-zz-ka:	-	i-i	บบ	ប–ប	i-i	forests
7.	hans'-ka:	į	υ	υ	υ	υ	forceps, tongs
8.	kwand-na:	υ	υ	υ	υ	υ	baskets
9.	ha?d-ra:	υ	ប	ប	υ	ប	accidents
10.	hu:l-na:	Ŧ	ប	÷	ប	i	caps

Like the Bauchi dialect and unlike the standard, pronunciation of these words with the [v] predominates.

## 6.3.3 Preceding Consonant [+ phon. pal.]

		Α	в	С	D	Ε	
1.	wa:∫-na:	I	υ	I	υ	ឋ	washers for nut
2.	hantj-na: <sup>42</sup>	I	I	σ	υ	-	noses
3.	?mb-na:	ប	I	υ	υ	I	engines
4.	k'avj-ka:	I	ប	ឋ	υ	υ	villages

Here, pronunciation with the  $[\upsilon]$  is more frequent than the alternant [I] compared with the situation in the previous dialects where it is the reverse.

<sup>42</sup> Speaker E depalatalizes the stem-final consonant and follows it with 'u', hantuna:.

#### 6.4 THE i: REDUCTION

## 6.4.1 Preceding Consonant [+ lab.]

		А	В	С	D	$\mathbf{E}$	
1.	takwo:bŋ	1	1	1	I	I	the sword
2.	dyi ?b—ŋ	I	I	I	Ι	I	" perspiration
3.	ra:∳ŋ <sup>43</sup>	I	I	-	I	I	" stream
4.	ra:m-ŋ	I	I	I	I	I	" hole

Unlike the standard dialect where, under these circumstances, the alternation of  $[\pm]$  with the [I] is very frequent, there is no such alternation here.

 $^{\rm 43}$  Speaker C has 'h' as the stem-final consonant.

# 6.4.2 Preceding Consonant [+ cor.]

		A	В	С	D	E		
1.	ra:n-ŋ	ŧ	ŧ	ŧ	i	÷	the	dry season
2.	la:ba:r-ŋ	i	Ŧ	i	ŧ	÷	11	story
3.	bu:r-ŋ	i	ŧ	ŧ	÷	÷	**	ambition
4.	kant-ŋ	i	ŧ	i	÷	Ŧ	11	shop
5.	si:s-ŋ	Ŧ	i	÷	ŧ	÷	TT	sixpence
6.	hırz-ŋ <sup>44</sup>	Ŧ	ŧ	÷	_	_	11	seeking for God's
								protection
7.	sans'-ŋ	÷	ŧ	÷	ŧ	i	11	slipperiness
8.	ma ga:d-ŋ	ż	÷	÷	÷	ŧ	"	guard
9.	kwu?d–ŋ	÷	ŧ	÷	ŧ	i	"	money
10.	?alka:1–ŋ	÷	÷	÷	i	ž	11	judge

The realization of the reduced vowel as [i] under this condition is also reflected here as is the case with the previous dialects.

 $^{44}$  Speakers D & E have 'ı', but palatalize the stem-final consonant, hındgiŋ .

6.4.3 Preceding Consonant [+ phon. dor.]

	А	в	С	D	$\mathbf{E}$	
wi:w-ŋ	υ	1	I	I	I	the Indian hemp

One speaker is found to pronounce the word with  $[\upsilon]$  here as in the standard dialect.

#### 6.5 THE U: REDUCTION

## 6.5.1 Preceding Consonant [+ lab.]

		Α	В	С	D	$\mathbf{E}$	
1.	lamb-ŋ	υ	υ	υ	ឋ	ប	the garden
2.	jım?b-ŋ	υ	υ	υ	υ	υ	" clay
3.	sa:m-ŋ	ប	ប	υ	υ	υ	" wealth

Pronunciation with the [v] is consistently maintained without any alternation here, unlike in the standard dialect where we witnessed a few cases of [i] alternating with it.

## 6.5.2 Preceding Consonant [+ cor.]

		A	в	С	D	Ε		
1.	kwon–ŋ	ប	÷	υ	υ	υ	the	gruel
2.	tantabar-ŋ <sup>45</sup>	ŧ	÷	÷	υ	ប		pigeons
3.	∫ւը-դ	ŧ	ប	ŧ	υ	Ŧ	**	silence
4.	kara:t-ŋ	ប	i	υ	÷	÷	**	reading
5.	s–ŋ	υ	ប	υ	υ	υ	11	fishing
6.	bu:z–ŋ	ŧ	ប	ប	ŧ	υ	11	sheep-skin
7.	ja:s'-ŋ	υ	ប	σ	υ	υ	TT	fingers
8.	gand-ŋ	ŧ	÷	÷	υ	÷	TT	farm
9.	ru:?d–ŋ	i	ŧ	ŧ	÷	υ	11	confusion
10.	sa:bul-ŋ	i	÷	÷	÷	÷	11	soap

As in the Daura dialect, the distribution of the  $[\upsilon]$  with the alternant  $[\pm]$  is seemingly even. In the standard, we noticed the alternant having a more frequent occurrence.

 $^{45}$  'n' <u>not</u> 't' is the stem-final consonant of this word.

6.5.3	Preceding	Consonant	[+	phon.	pal.]	Ì
-------	-----------	-----------	----	-------	-------	---

		А	В	С	D	E	
1.	d <b>31:</b> d3-1)	I	I	Ι	I	υ	the evil spirit
2.	ma:j-ŋ	I	ប	ឋ	υ	I	" witches

The alternation of [I] with the  $[\upsilon]$  is still reflected here as in the previous dialects.

'B'

6.6 IN A LONG UTTERANCE

6.6.1 Labial Preceding The /1/

Ya harb- akun
 [ja:hàrb-?àkwôŋ]
 He shot at the parrot

2. Jib- Isa zai komo [dgi:b-?i:sa:zâikwo:mo:?] It is the day after tomorrow that Isa will come back

An zab- Audu
 [?anzà:?b-?audù?]
 Audu is elected/chosen

- Sun kar6- nasu
   [suŋkàr?b-na:sù?]
   They received theirs
- 5. Ta haif- 'ya mace
  [ta:haito-?ja:matje?]
  She gave birth to a baby girl

- 6. Mun taf- gida [montà•-jida:] We went home
- 7. Ya girm- Isa
  [ja:jìrm-?i:sa:]
  He is older than Isa
- An sallam- leburori
   [?ansàllàm-le:buro:ri:]
   Labourers are dismissed

1

The vowel table:

	I	Ι.	F	3	(	346	Ι	)	I	2
	I	ŧ	I	ŧ	I	i	I	÷	I	÷
1.	v			J	V			ł	v	
2.	V		√		v			J	V	
3.	√			v	¥			~	~	
4.	1		√		v			√	V	
5.	v		~		-		1		v	
6.	√		√			-	V		v	
7.	√		v		V		V		V	
8.	∢		v		¥		√		V	
NUMBER OF	8	0	6	2	6	0	4	4	8	0
UUURRENCES										-

Speakers A, C & E consistently maintain pronunciation with the [1], while D has an even distribution between this vowel and the alternant  $[\pm]$ . The [1] generally predominates by thirty-two (32) cases (84.2%) to six (15.8%) for the alternant  $[\pm]$ . In the standard dialect we noticed the alternant being more frequent, attracting 65%, and the [1], 35%.

<sup>46</sup> This speaker has 'h' as stem-final consonant (followed by the [1]) in 5 and 6.

- Musa bai san- ba
   [mu:sa:bàisàn-ba?]
   Musa is not known
- Kamar- babbar ƙasa ce
   [kàmàr-bàbbark'asa:tʃe`:]
   Cameroun is a large country
- Far- muka tafi
  [\$\phia:\$\begin{array}{c} -muk\$ ata\$\$\phi\$\$]
  It is F. we have been to
- 4. An bude kot- da wuri
  [?ambu:?dèkwo:t-dàwori?]
  The court has opened early
- 5. Mun gams- da haka [muŋgàms-dàhakà?] We are satisfied with that
- 6. Yanz- za mu tafi[jànz-za:mòtà\$i?]It is now that we are going

8. Gwand- a jihar Sakkwato take
[gwand-?àduhàrsakwkwatotacè?]
G. is in Sokoto State

9. Mun haɗ- kan hanya [muŋhà?d-kâŋhaŋjà:] We met on the way

10. Ul- za a saya [?u:l-za:?àsàja:]

It is woollen thread that will be bought

The vowel table:

	A	L	H	3	(	2	I	)	Ε	2
	υ	÷	υ	i	ឋ	ŧ	ប	ŧ	ប	÷
1.	V		v		J		V			v
2.	V		v			J		v	¥	
3.	V		v		v		v		¥	
4.	V			J	~			v	v	
5.	¥		v		v		J		V	
6.	V			V	v		v		v	
7.	1		4		~		V		J	
8.	1		v		v		v		v	
9.	√		1		v		v		✓	
10.	V		~		v		v		v	
NUMBER OF OCCURRENCES	10	0	8	2	9	1	8	2	9	1

Here, speaker A consistently maintains pronunciation with the [v], while the rest have a few alternations. The alternant [i] in general has six occurrences (12%) and the [v] forty-four (88%). In the standard dialect as we saw, the alternant attracts 38%, whereas about 60% represents the occurrence of the [v].

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- Wannan ab- ya ba da mamaki
   [wannàŋ?àb-ja:ba:dàma:ma:ci`:]
   This thing has given surprise
- 2. Bab- inda za a samu
  [ba:b-?indàza:?àsa:mì:]
  Nowhere can it be obtained
- 3. Sun kar6- ya ce[suŋkàr?b-jatje:]They were welcome he said
- 4. Ta taô- ya ce
  [ta:tà?b-jatſê:]
  She was crazy he said
- 5. Musulunci ya kaf- ya ce
  [musuluntfi:ja:kàt-jatfe:]
  Islam is deep-rooted he said
- 6. Yusuf- ya dawo[ju:su4-ja:da:wo:?]Y. is back

- 7. Mun gam- yau [muŋgàm-jaû?] We met today
- Nam- ya fi
   [na:m-ja:\$]
   Ours is better

The vowel table:

	l	A	]	В	(	0	]	C	]	Ξ
	ប	I	υ	I	ប	I	ប	I	υ	1
1.	v		J		v			J	v	
2.	v		1		v		J		J	
3.		J	•			4	v		J	
4.		v	v		J		\$		•	
5.	v		√		J		~		~	
6.	V		v		v		v		•	
7.	v		1		v			J	V	
8.	1		v		v		~		v	
NUMBER OF OCCURRENCES	6	2	8	0	7	1	6	2	8	0

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Here, while pronunciation with the [v] is consistently maintained by speakers B & E, the rest have a few alternations. The alternant [1] features five times (12.5%) against the [v] that has thirty-five (35) occurrences (87.5%). In the previous dialects we saw two speakers having similar alternation and three having a consistent pronunciation with the [v].

> 6.6.4 Labial/Coronal Preceding The /1/ With 'Rounding' Following

- Ya harb- Uba
   [ja:hàrb-?ùba?]
   He shot at Uba
- An za6- wani
   [?anzà:?b-wani?]
   Someone is elected/chosen
- 3. Ya taf- wurin
   [ja:tàt-worin]
   He went to the place
- An dam- Uba
  [?andà:m-?uba?]
  Uba is disturbed

- 5. Anin- uku ne [?àni:n-?ukwòne:] It was 3/10 of a penny
- Bar- Husaini ya dawo tukuna
  [bàr-hòsaınìjàda:wo:tòkwòna?]
  Wait until Husaini comes back
- 7. Fakit- hudu muke so
  [\$a:cit-hu?dumuce:so:]
  It is four packets that we want
- Ya tats- guzuma
   [ja:tà:s'-gwuzuma:]
   He milked an old cow
- 9. Ladid- uwa ce ga Musa
  [là:di:d-?uwa:tfè:gàmu:sa:]
  L. is a mother to Musa
- Bad- Uba zai komo
  [bà?d-?ubazaîkwo:mo:?]
  It is next year that Uba will return
- 11. Sun kall- wasu daga ciki [suŋkàll-wasudàgàtʃıci:] They had a look at some

The vowel table:

		А			В			С			D			Ε	
	I	ŧ	ប	I	i	ប	I	i	ឋ	I	÷	ប	I	ŧ	ប
1.	1				J		J					Ļ	v		
2.			۷			∢	J					J	J		
3.		4		J			¥					1	v		
4.			Ą			v			¥			1	v		
5.			¥		J			J				J		v	
6.		v			~			V			v			v	
7.		v			v			J				V		¥	
8.			v		•			v			V				¥
9.			1		v				ł		J				J
10.		v				¥			¥			v		v	
11.		¥				v		¥				J		v	
NUMBER OF OCCURRENCES	1	5	5	1	6	4	3	5	3	0	3	8	4	5	2

Here, from 1 - 4 (where labial precedes) speaker D consistently uses alternant [u] while E maintains the [1]; [±] alternates with [1] & [u] in 1 and 3, and [u] does with the [1] exclusively in 2 and 4. On the other hand, in the other cases (where coronal precedes), [u] is found to alternate with the surface [±] in 5, 7, 8, 9, 10 and 11, while in 6, pronunciation is consistent with this surface [±]. So that as a whole, [1] does not feature in the pronunciation of one speaker in this particular situation. In the standard dialect we witnessed two similar cases.

#### 6.7 CONCLUSION

The [1], [i] & [v] alternation in the Katsina dialect exhibits some major contrast with the standard, and a considerable degree of comparison with the other three dialects. Like Zaria, Bauchi and, to a lesser extent, Daura, there is a less common tendency for  $[\frac{1}{2}]$  to alternate with an [1] or [v] when a labial precedes (cf. 6.1.1, 6.3.1, 6.6.1 & 6.6.4). In the sort of alternation in more than one segment, like the Bauchi dialect, combinations VI (i-v) and VIII (1-v) are absent here; combination I (v-v) occurs ten (10) times here against three (3) in the standard, combination IV (i-i) fourteen (14) times against thirty-two (32) in the standard, and combination IX (1-i)occurs eight (8) times here against two (2) in the standard. With reduced u: in a closed syllable while a coronal precedes, realization both as [v] and [i] is even as was the case in the Daura dialect. Similarly, as in the Bauchi dialect, the realization of the /v/ in the  $\{-uCa:\}$  morpheme as [u] when a coronal precedes predominates over  $[\pm]$ . Therefore, one can deduce that the Katsina dialect is by far less like the standard in this direction. The alternation pattern in the other cases, however, is the same.

#### CHAPTER SEVEN

7.0 THE [1],  $[\frac{1}{2}]$  &  $[\upsilon]$  ALTERNATION IN THE SOKOTO DIALECT

We examined in Chapter Six the alternation of [1],  $[\pm]$  &  $[\upsilon]$  in the Katsina dialect, and consequently realized that it is by far less like the standard than the other dialects. First, there is a less common tendency for  $[\pm]$  to alternate with an [1] or  $[\upsilon]$  when a labial precedes, a situation similar to the other three dialects. Secondly, in the sort of alternation affecting more than one segment, not only combination VIII (1- $\upsilon$ ) is absent as in the standard, but also VI ( $\pm$ - $\upsilon$ ), a case similar to Bauchi. Thirdly, as in the Daura dialect, reduced u: in a closed syllable with a coronal preceding has an even realization between  $[\upsilon]$  and  $[\pm]$ . And lastly, the realization of the  $/\upsilon/$  in the {- $\upsilon$ Ca:} morpheme as  $[\upsilon]$  when a coronal precedes, has predominance over  $[\pm]$ , again, a case similar to Bauchi. Now, we will finally focus in this chapter on the situation in the Sokoto dialect.

This dialect, nevertheless, apart from the realization of  $/\Phi/$  as [hw] before -a, and as [h] before other vowels, a feature it shares with Katsina, differs from the others (including Katsina) in a number of ways among which are the following:

- 1. Absence of the trilled [r]
- 2. Intensive use of gemination
- 3. Different form of 'Near Demonstrative'
- 4. Large vocabulary not shared with the other dialects

### 1. The Trilled [r]

This consonant does not exist in this dialect. On the contrary, there is just the flapped [r]. The latter, however, does not always replace the trilled [r], this depending on the phonetic context. In word-initial and intervocalic environments the 'flapped' always replaces the 'trilled', as exemplified below:

#### Word-Initial

ri:bà: (Ar.)	as a	gainst	ri:bà:	profit
ro:ba: (Eng.)	11	11	ro:bà:	rubber
re:zà: (Eng.)	11	11	re:zà:	razor-blade
rahama: (Ar.)	11	11	rahama:	mercy

#### Intervocalic

tara?	as against	tarà?	nine
kara:tu: (Ar.)	11 11	kàra:tu:	reading
darrabai (Ar.)	EI IT	dzarrabas	test

#### Syllable-Final (Word-Medial)

In this environment, [r] and [1] are found to replace [r]. Nevertheless, the former two are not in free variation. In other words, the choice between the two just depends on the item:

harka: (Ar.)	as ag	ainst	harka:	business
tarkwo:	11	11	tarkwo:	trap
burci:(Eng.)	11	**	burci:	brake
∫arhi: (Ar.)	**	*1	∫arhi:	comment
?àbàrba: (Yor.)	11	11	?àbàrba:	pineapple
gàlma:	11	**	gàrma:	large hoe
hal∫è:	"	11	har∫e:	tongue
salga:	11	TI	sarga:	cesspit
dalma:	tt	11	darma:	lead (metal)

#### Word-Final (Utterance-Final)

Here, [t], [s] & [r] make the replacement. However, unlike in the previous case, the condition for the replacement is predictable: a) [t] replaces the referential feminine suffix -r (including the final 'r' in the word for 'five'); b) [s] replaces the final 'r' in the so-called causative verb; and, c) [r] replaces the final 'r' in ideophone, exclamation, proper name and some loan words, as below:

			a)	
ri:gât	as ag	ainst	ri:gâr	the gown
kw'arjat	11	11	kw'arjâr	" calabash
bu:tat	11	11	bu:tàr	" kettle
bìjat	11	* *	bìjar	five
			b)	
∫Igas	as ag	ainst	∫ıgar	cause to enter
majas		**	majar	take back
zubas	**	11	zubar	throw away
			<u>c</u> )	·
∫ar	as ag	ainst	∫ar	ideophone emphasizing greenness
tir	11	11	tir	exclamation of annoyance
4	.,		<u> </u>	or exasperation
		••	tukwur	proper name for male
mur (Ar.)	11		mor	myrrh

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#### Word-Final (Within a Phrase)

In this environment assimilation applies:

ri:gabbello?	as against		ri:garbellò?	Bello's gown	
gwo:nazzi:bù?	11	11	gwo:narzi:bù?	Zibu's farm	
mà:tattaŋkwò?	11	11	mà:tartaŋkwò?	Tanko's wife	
kabi:lakwkwu?	11	11	kabi:larkwu?	your (Pl.) tribe	
bu:tassu?	tt	11	bu:tarsu?	their kettle	

#### 2. Gemination

While gemination in a lexical unit is found in all dialects (as in hannu:, 'hand'; kwûnne:, 'ear'; kàlli, 'look at'; fakkà:, 'doubt'; hanmà:, 'yawning'), it is more pronounced here, where in addition, the process affects a longer utterance, chiefly a clause:

#### Within a Lexical Unit

In certain lexical units,  $C_1VC_2 \ \ C_2V...$  syllable sequence features in this dialect as against  $C_1V$ :  $\ \ C_2V...$  in the others, as follows:

hulla:	as ag	ainst	hu:la:	cap
kassuwa:	11	11	ka:suwa:	market

gwo:nakka1	as ag	ainst	gwo:naka1	farms
hadissai	11	tt	hadi:sa1	Moslem traditions
wacillai	11	11	waci:lai	representatives

#### Within a Clause

The clause under consideration is the one that is formed in the 'Relative Past Tense' with the pre-verbal pronoun na (1st pers.), ka (2nd masc.), ja (3rd masc.) or, ta (3rd fem.), the syllable sequence featuring being the same as the one above:

danidda:wo:? <sup>47</sup>	as ag	ainst	dànada:wo:?	when I returned
dakabbıja:	11	**	dàkabıja:	when/which you paid
dajazzo:?	11	н	dàjazo:?	when he came/who came
dàtaggamà:	11	11	dàtagamà:	when/which she finished

#### 3. The Demonstrative

While the same form of 'far' demonstrative (both long and short) is used in the Sokoto and other dialects, the corresponding 'near' form (both long and short) slightly differs in the two categories of dialects:

 $^{47}$  Note the realization of /a/ as [i] after the [n] in the Sokoto form.
#### Far Long

In both, wantfan [+ masc.], watftfan [+ fem.] and wa?dantfan [+ pl.], meaning 'that one' are used:

wantfando:ci:	that	horse
watffangwo:?dìja:	11	mare
wa?dàntfândawa:ci:	those	e horses

### Far Short

For this form, -ntfàn [+ masc.], -rtfàn/-tftfàn [+ fem.] and -ntfàn [+ pl.] suffixes are used in both:

do:cìntfâŋ that horse gwo:?dìjartfâŋ/gwo:?dìjatftfâŋ " mare dawa:cintfâŋ those horses

#### Near Long

In this dialect while wangar [+ masc.], waggar [+ fem.] and wardangar [+ pl.], meaning 'this one' are used, wannan [+ masc./fem.] and wardannan [+ pl.] are employed in the other dialects:

wangado:ci:	as against	wannando:ci:		
	this horse			
wâggagwo:?dìja:	as against	wannangwo:?dija:		
	this mare			
wa?dangadawa:ci:	as against	wa?dannandawa:ci:		
	these horses			

#### Near Short

The suffixes -nga [+ masc.], -gga [+ fem.] and -nga [+ pl.] are used in this dialect, while -nnan [+ masc.], -rnan/-nnan [+ fem.] and -nnan [+ pl.] are correspondingly used in the other dialects:

do:cìnga?	as against	do:cìnnâŋ
	this horse	
gwo:?dìjâgga?	as against	gwo:?dìjarnàŋ/gwo:?dìjannàŋ
	this mare	
dawa:cîŋga?	as against	dawa:cinnàŋ
	these horses	

### 4. Vocabulary

There are a considerable number of words in this dialect that are not common or not found at all in the other dialects. Below are a few of them:

tàrmàni:	as ag	ainst	tfinna:ka:	black ant
rè:di3	11	11	nik'a?	grind
kâŋwori:	* 1	* 1	∮a:dà?	palace
?dwa:?dà3	**	**	wa:sài	sharpen
hab?di:	11	"	to:ka:	ash
10:10:	11	11	kwumburi:	swelling
lalu:s'a?	"	11	∫1là:	young pigeon
maba:katfi:	11	11	masaci:	large calabash
c'a:ja:	11	11	kw'ârkw'atà:	louse
haŋwa:wa:	11	11	hàwaınija:	chameleon

The purpose of bringing these points is to draw attention to their impact on the pronunciation of the majority of the sample utterances by the selected speakers of this dialect. So that in this chapter there are no examples of vowel alternation with the trilled r- preceding, while cases of gemination as well as certain uncommon lexical units are largely reflected. Earlier, in the introductory part of Chapter Six, we already said where the realization of  $/\Phi/$  as [hw] before -a and as [h] before other vowels is manifested, it will be indicated in the footnote.

### 7.1 IN A SINGLE SEGMENT

7.1.1 Preceding Consonant [+ lab.]

		А	В	С	D	$\mathbf{E}$	
1.	b-ci:	ប	ប	υ	υ	υ	ceremony
2.	b-gwu:	ប	υ	ឋ	τ	υ	beating
3.	ta:?b-ka	ប	ប	σ	υ	υ	manage
4.	<b>∳</b> -ta? <sup>48</sup>	-	_	1	Ι	-	go out
5.	m-lci:	υ	I	ប	ប	ប	power

In this pattern,  $[\frac{1}{2}]$  does not feature at all. The first three words are consistently pronounced with [v], and the fourth one with [I]. In the final word, on the other hand, [I] is seen to alternate with [v] <u>once</u>. This is unlike the standard dialect where we witnessed  $[\frac{1}{2}]$  alternating in all except the second word.

<sup>48</sup> Speakers A, B & E all have 'h' (followed by an 'I') as the wordinitial consonant.

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'A'

# 7.1.2 Preceding Consonant [+ cor.]

		А	В	С	D	Е	
1.	n-s'e:	ŧ	υ	ឋ	ŧ	υ	sink down
2.	r-bu:tu: <sup>49</sup>	-	-	-	-	-	writing
3.	r-gga:	ប	υ	÷	ប	υ	Fulani cattle encampment
4.	t-rmi:	ŧ	υ	υ	σ	ឋ	mortar
5.	s-Фe:to:	ŧ	i	Ŧ	÷	-	police inspector
6.	z- <b>a:</b> <sup>50</sup>	ŧ	ប	υ	υ	÷	perspiration
7.	s'-ns'u:	ប	ប	÷	υ	υ	bird
8.	?aud-ga:	ប	υ	υ	ឋ	ŧ	cotton
9.	?d-mi:	ប	τ	i	ឋ	I	warmth
10.	?da:1-bi:	ŧ	ŧ	÷	÷	÷	student [+ male]

The vowels [i] & [1] are found to alternate with the [v] in example 9, a case similar to all the previous dialects. Pronunciation is consistently maintained with [i] by each speaker in 10, and there is no example consistently pronounced with [v].

<sup>49</sup> The trilled 'r' precedes

 $<sup>^{50}</sup>$  Speakers B, C & D substitute 'hw' for the stem final consonant, zuhwà:.

7.1.3 Preceding Consonant [+ phon. pal.]

		А	в	С	D	Ε	
1.	∫-rwa:	I	I	I	υ	I	kite
2.	∫-dda?	I	I	I	I	I	six
3.	tj-kwo:wa:	I	I	I	I	I	overcrowd
4.	t-re?	I	I	I	I	I	remove
5.	dz-wa:	I	υ	I	I	ប	dizziness
6.	j-ŋwa:	υ	I	I	υ	I	hunger

The confinement of alternation to words in which 'rounding' follows is again manifested here as in all the previous dialects.

7.1.4 Preceding Consonant [+ phon. dor.]

		А	в	С	D	$\mathbf{E}$	
1.	w-ja:	ប	ប	ប	υ	ប	neck
2.	w-ta:	ប	υ	υ	σ	υ	fire

Pronunciation with the [v] is consistent in the first word, the following [j] notwithstanding, a case comparable to Zaria and Daura.

# 7.1.5 Preceding Consonant [+ al. pal.]

		А	в	С	D	E	
1.	c-s'o:	I	I	I	Ι	υ	plaiting of hair
2.	Φıc'-hu?	I	I	υ	I	I	the science of Islamic law
3.	J-zo?	I	I	I	ប	I	the mythical spider of fables
4.	c-ra:	I	I	I	I	1	calling

Cases of alternation as in all the previous dialects appear in the words in which a feature value of 'rounding' exists in the following segment.

7.1.6 Preceding Consonant [+ al. dor.]

		Α	В	С	D	Ε	
1.	?akw-ja:	υ	ឋ	ប	υ	υ	goat
2.	huŋkw'-ji?	ឋ	•	ឋ	_	υ	place name
3.	gwa:gw-ji	I	1	ប	υ	υ	gnaw at
4.	kw-sa?	ប	ឋ	υ	υ	υ	near

While the third word exhibits cases of alternation on account of the [j], the corresponding first two do not. We noticed a similar situation in Daura and Katsina.

### 7.2 IN MORE THAN ONE SEGMENT

In the thirty-three (33) responses recorded in this dialect, the vowel distribution manifests significant cases of comparison as well as contrast with the standard. For the former, all combinations other than VIII (1- $\upsilon$ ) are reflected; combinations II ( $\upsilon$ - $\pm$ ), V ( $\pm$ -1), VI ( $\pm$ - $\upsilon$ ) and VII (1-1) all have equal number of occurrences in the two dialects. On the other hand, where they differ considerably lies on combination I ( $\upsilon$ - $\upsilon$ ) for which there are nine (9) occurrences here against three (3) in the standard, combination IV ( $\pm$ - $\pm$ ) three (3) occurrences against thirty-two (32) in the standard, and combination IX (1- $\pm$ ) seven (7) occurrences here against two (2) in the standard. Zaria, Bauchi and Katsina too, differ considerably from the standard dialect in respect of these combinations. (See table.)

NUI	10. kw	9. r-]	8.	7. 1-	6. S-J	5. t-	4. d-	သ •	22. •	1. b-	WO		TABLE C FIVE SP
MBER OF OCCURRENCES	ud-dd-‡i:	b-?i:	r-ci:	11-7bi:	m-nti:	mb-?di:	dd-je:	<b>∳∮−Ce</b> :	t-1a:	nd-ga:	SCH		EAKERS FROM SOKOTO
9 (3)	۲	- 1		(1) •	4	(1) 1)	c	ω			<u>и</u> –и	н	
ົງ ບ		I	(2)	רט			(1)				с-і	ΊĽ	INATIO
2 (1)	D	31									и-1	III	NS FOR
3 (32)		I	(3)	(4)	(3) 3)	1(2)	(4)	2)	(4)	(4)	ዙ፡   ዞ፡	ΛI	THE PI
$^{4}_{(4)}$		ł			(2) *	(1) ₄		(1)			÷	V	NONUNCI
1 (1)		1		۲		(1)					±–υ	VI	ATION
22		I						(2) 2)	৩		I-1	VII	OF THE
<u></u> 00		I									I-U	VIII	I TEN D
7 (2)		I							(1)	s)É (	л <mark>1</mark> #•	IX	SELECTE
	pond	one quarter	inlaw [+ male]	veiling	cement	regurgitation	heel	wing	lamp/light	gun	EQUIVALENTS	ENICI I CH	ED WORDS BY THE

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a) Figures in parenthesis are for the standard dialect
b) Speakers A, B & E consistently substitute 'h' for 'a' in 2 and 3
c) Speakers B, C, D & E are not familiar with the fifth word. Instead they use 'bulbuli:'
d) In example 9 the initial segment has the trilled 'r' preceding
e) Speakers B & C are not familiar with the last word. Instead they use 'tabci:'

.

7.3 THE /v/ IN THE {-vCa:} MORPHEME

7.3.1 Preceding Consonant [+ 1ab.]

		А	В	С	D	Ε	
1.	kwabb-na:	υ	υ	ប	υ	υ	pennies
2.	ka?b-kka:	ប	υ	σ	ប	υ	calabashes of food for a
							feast
з.	la•-zza:	υ	υ	υ	ប	υ	speeches, pronunciations
4.	ra:m-kka:	υ	υ	υ	υ	υ	holes

Unlike in the standard, there are no cases of  $[\frac{1}{2}]$  alternating with the [v]. Pronunciation with the latter is consistently maintained by each speaker.

7.3.2 Preceding Consonant [+ cor.]

		Α	в	С	D	$\mathbf{E}$	
1.	s'aun-kka:	υ	ប	Ŧ	σ	÷	hills
2.	ha?dar-rr-ka: <sup>51</sup>	L _	_	-	-	-	accidents
3.	ta:r-rr-kka:	ប–ប	ບ–ບ	±−σ	i-i	ช–ช	conferences
4.	ti:t-na:	÷	υ	υ	÷	υ	stræts
5.	hars-na:	ប	υ	÷	ឋ	υ	languages
6.	da:z-zz-kka:	i-v	±−υ	ບ−ບ	ບບ	i-v	forests
7.	hans'-kka:	ប	υ	υ	÷	υ	forceps, tongs
8.	kwand-na:	ŧ	υ	σ	υ	÷	baskets
9.	ha?d-rra:	υ	÷	ប	σ	υ	accidents
10.	hull-na:	ŧ	÷	÷	ឋ	ប	caps

Predominance of the occurrence of the 1031 over [1] is again manifested here .

<sup>51</sup> The trilled 'r' precedes.

7.3.3 Preceding Consonant [+ phon. pal.]

		A	В	С	D	E	
1.	wa:∫-na: <sup>52</sup>	-	-	ឋ	-	_	washers for nut
2.	hantf-na:53	-	υ	-	I	υ	noses
3.	?mt-na:	I	υ	σ	υ	I	engines
4.	k'avj-kka:	ប	υ	υ	υ	I	villages

The alternant [1] here has fewer occurrences than the [v]. This is unlike in the previous dialects where the situation is the opposite.

<sup>52</sup> Speakers A, B, D & E are not familiar with this form, but rather, wa: jo: ji:.

 $^{53}$  Speakers A & C depalatalize the stem-final consonant and follow it with 'v', hantuna:.

7.4 THE i: REDUCTION

7.4.1 Preceding Consonant [+ lab.]

		A	В	С	D	Ε	
1.	takwo:b-ŋ	I	I	I	I	I	
2.	dşı?b—ŋ	I	I	I	I	I	
3.	ra:φ-ŋ <sup>54</sup>	I		I	_	-	
4.	ra:m-ŋ <sup>55</sup>	_	_	_	_	_	

There are no cases of [i] alternating with the [1] in this dialect under this condition. In the standard, we noticed such alternation having a very frequent occurrence.

 $^{54}$  Speakers B, D & E have 'h' (followed by 'ı') as the stem-final consonant.

 $^{55}$  The word in this dialect has 'e:' as the unreduced vowel and ' $\epsilon$ ' as the reduced correlate, ra:me: and ra:men respectively.

# 7.4.2 Preceding Consonant [+ cor.]

		Α	в	С	D	Е		
1.	ra:n-ŋ	÷	÷	÷	÷	÷	the	dry season
2.	la:ba:r-ŋ <sup>56</sup>	_	-	-	-	-	11	story
3.	bu:r-ŋ	÷	÷	ŧ	÷	ŧ	11	ambition
4.	kant-ŋ	ŧ	ŧ	÷	ŧ	÷	**	shop
5.	si:s-ŋ	Ŧ	Ŧ	ŧ	÷	÷	"	sixpence
6.	հւլշ–դ <sup>57</sup>	÷	÷	÷	-	-	11	seeking for God's
								protection
7.	sans'-ŋ	÷	ŧ	ŧ	ŧ	÷	11	slipperiness
8.	maiga:d-ŋ	ŧ	Ŧ	÷	Ŧ	÷	11	guard
9.	kwʊ?d—ŋ	ŧ	÷	ŧ	÷	÷	11	money
10.	?alka:1-ŋ	ŧ	÷	i	ż	÷	11	judge

The reduced vowel under these circumstances is again realized as [i] here, as in all the previous dialects.

<sup>56</sup> The trilled 'r' precedes.

 $<sup>^{57}</sup>$  Speakers D & E have the stem-final consonant palatalized and followed by an 'ı'.

7.4.3 Preceding Consonant [+ p	bon.	dor.
--------------------------------	------	------

	А	В	С	D	E	
wi:w-ŋ	I	I	I	I	ប	the Indian hemp

As in the standard dialect, a single case of  $[\upsilon]$  alternating with the [1] is depicted here.

# 7.5 THE u: REDUCTION

7.5.1 Preceding Consonant [+ lab.]

		Α	в	С	D	$\mathbf{E}$	
1,	lamb-ŋ	ប	ប	υ	σ	υ	the garden
2.	jım?b—ŋ	ប	υ	υ	ឋ	υ	" clay
3.	sa:m-ŋ	ช	ប	υ	υ	υ	" wealth

While the standard dialect manifests a few cases of [i] alternating with the [v], there is no such manifestation here.

7.5.2 Preceding Consonant [+ cor.]

		А	в	С	D	Έ	
1.	kwon-ŋ	÷	÷	υ	υ	ឋ	the gruel
2.	tantabar-ŋ <sup>58</sup>	-	-	_		-	" pigeons
З.	∫ır−ŋ	ប	ឋ	ŧ	υ	ប	" silence
4.	kara:t-ŋ	ប	ប	ł	ប	ŧ	" reading
5.	s-ŋ	υ	σ	υ	υ	ប	" fishing
6.	bu:z-ŋ	σ	ឋ	τ	÷	ប	'' sheep-skin
7.	ja:s'-ŋ	σ	ŧ	σ	υ	ប	" fingers
8.	gand–ŋ	υ	ŧ	υ	ŧ	υ	'' farm
9.	<b>ru:</b> ?dŋ	ΰ	υ	÷	υ	ŧ	" confusion
10.	sa:bul-ŋ	ប	σ	υ	ŧ	÷	" soap

Pronunciation with the [v] here predominates over that with the alternant [i], a precisely similar situation with Zaria and Bauchi. In Daura and Katsina we noticed even occurrences between the two vowels, while the alternant features more than the [v] in the standard.

<sup>58</sup> The trilled 'r' precedes.

# 7.5.3 Preceding Consonant [+ phon. pal.]

		A	В	С	D	$\mathbf{E}$	
1.	તેવા :તેરુ–ગ	υ	ប	ឋ	I	υ	the evil spirit
2.	ma:j-ŋ	υ	ប	υ	ប	ប	" witches

This pattern shows a single case of [I] alternating with the  $[\upsilon]$  and only in the first word, unlike in the previous dialects where the alternation is manifested in both items.

'B'

## 7.6 IN A LONG UITERANCE

## 7.6.1 Labial Preceding The /1/

Ya harb- akun
 [ja:hàrb-?àkwôŋ]
 He shot at the parrot

Jib- Isa zai komo
[dgi:b-?i:sa:zâikwo:mo:]
It is the day after tomorrow that Isa will come back

3. An zab- Audu[?anzà:?b-?audù?]Audu is elected/chosen

- Sun kar6- nasu
   [suŋkàr?b-na:sù?]
   They received theirs
- 5. Ta haif- 'ya mace
  [ta:hàit-?ja:màtftfe?]
  She gave birth to a baby girl

- 6. Mun taf- gida [montà•-jida:] We went home
- 7. Ya girm- Isa
  [ja:jìrm-?i:sa:]
  He is older than Isa
- 8. An sallam-leburori [?ansàllàm-le:buro:ri:] Labourers are dismissed

The vowel table:

	A	Į	E	359	C	2	I	59	F	3
	I	÷	I	Ŧ	I	ŧ	I	Ŧ	I	ŧ
1.	V		J		v		v		v	
2.	v		v		~		v		v	
3.	4		v		v		√		v	
4.	4		v		V		v		v	
5.	¥		_	-	۷		-	-	J	
6.	V		-	-	1		_	-	v	
7.	v		4		1		v		v	
8.	v		4		۷		V		v	
NUMBER OF OCCURRENCES	8	0	6.	0	8	0	6	0	8	0

None of the five speakers in this dialect is found to use  $[\frac{1}{2}]$  here. Pronunciation is quite consistent with the [1]. This is a sharp line of contrast with the previous dialects where we found cases of the two vowels alternating in varying degrees.

 $^{59}$  Speakers B & D have as stem-final consonant in 5 and 6, 'h' followed by the 'I'.

- Musa bai san- ba
   [mu:sa:bàisàn-ba?]
   Musa is not known
- Kamar- babbar ƙasa ce
   [kàmàr-bàbbark'asa:tfè:]
   Cameroun is a large country
- Far- muka tafi
  [Φa:r-mukàtàΦi?]
  It is F. we have been to
- 4. An bude kot- da wuri
  [?ambu:?dèkwo:t-dàwori?]
  The court has opened early
- 5. Mun gams- da haka[mungàms-dàhakà?]We are satisfied with that
- 6. Yanz- za mu tafi[jànz-za:mòtà@i?]It is now that we are going

7. Saniyar ba za ta tats- ba
[sa:nìjâbbaza:tàtà:s'-ba?]
The cow cannot be milked

8. Gwand- a jihar Sakkwato take[gwand-?àdyihàssakwkwatotacè?]G. is in Sokoto State

9. Mun had- kan hanya [muŋhà?d-kâŋhaŋjà:] We met on the way

10. Ul- za a saya [?u:1-za:?àsàja:]

It is woollen thread that will be bought

The vowel table:

	I	Į	F	3	C	2	I	)	Ι	5
	υ	ŧ	ប	÷	υ	÷	ឋ	ŧ	ប	÷
1.	v		V		J		V		J	
2.	_	_					-	-		_
3.	1		v		~		J		~	
4.	v			V	v		v		J	
5.	V			v	✓			✓	v	
6.	۷		J		1			v	v	
7.	v		v		1		v		√	
8.	V		v		√		v		v	
9.	v		V			v	v		4	
10.	v		V		V		~		4	
NUMBER OF OCCURRENCES	9	0	7	2	8	1	7	2	9	0

With speakers A & E pronunciation is quite consistent with the  $[\upsilon]$ , while a few cases of alternation are noticed with the others. There is no response at all in the second example, the preceding consonant being the trilled 'r'. Generally, the  $[\upsilon]$  has forty (40) occurrences (80%), and the [i] alternant just five, (10%). Compared with the situation in the standard, the contrast is considerable, the  $[\upsilon]$  attracting 60% there and the alternant 38%. 7.6.3 Labial Preceding The /v/ With 'Spreading' Following

- Wannan ab- ya ba da mamaki [wannaŋ?àb-ja:ba:dàma:ma:ci:] This thing has given surprise
- 2. Bab- inda za a samu
  [ba:b-?indàza:?àsa:mì:]
  Nowhere can it be obtained
- 3. Sun kar6- ya ce
  [suŋkàr?b-jatftjê:]
  They were welcome he said
- 4. Ta tab- ya ce
  [ta:tà?b-jatttfê:]
  She was crazy he said
- 5. Musulunci ya kaf- ya ce [musuluntfi:ja:kàt-jatftfe:] Islam is deep-rooted he said
- 6. Yusuf- ya dawo
  [ju:sut-ja:da:wo:?]
  Y. is back

- 7. Mun gam- yau [muŋgam-jau?] We met today
- 8. Nam- ya fi [na:m-ja:@i?] Ours is better

The vowel table:

	A	l	I	B <sup>60</sup>		С		D <sub>e 0</sub>		<u>5</u> 60
	ບ	I	ប	1	υ	1	υ	I	υ	1
1.	٧		v		4		L		J	
2.	v		v		V		v		v	
3.	¥		Ŷ		J		J		¥	
4.	V		v		J		4		v	
5.	¥		++	_	ł		_	-	_	-
6.	V			_	J		-	-		-
7.	¥		۲			J	J		V	
8.	٧		√		v		v			V
NUMBER OF OCCURRENCES	8	0	6	0	7	1	6	0	5	1

 $^{60}$  Speakers B, D & E have 'h' as stem-final consonant followed by the 'v' in 5 and 6.

While speakers A, B & D have pronunciation consistently with the  $[\upsilon]$ , each of the other two has an alternation with [1]. The occurrence of the  $[\upsilon]$  represents 94.1% against 5.9% for the alternant. In the Bauchi and Daura dialects it can be recalled, we witnessed a similar case.

7.6.4 Labial/Coronal Preceding The /1/ With 'Rounding' Following

Ya harb- Uba
 [ja:hàrb-?ùba?]
 He shot at Uba

An za6- wani
[?anza:?b-wani?]
Someone is elected/chosen

- Ya taf- wurin
   [ja:tào-woriŋ]
   He went to the place
- 4. An dam- Uba
  [?andà:m-?ùba?]
  Uba is disturbed

- 5. Anin- uku ne [?àni:n-?vkwone:] It was 3/10 of a penny
- 6. Bar- Husaini ya dawo tukuna
  [bàr-hùsaınìjàda:wo:tùkwùna?]
  Wait until Husaini comes back
- 7. Fakit- huch muke so
  [\$\phi:cit-hu?domuce:so?:]
  It is four packets that we want
- 8. Ya tats- guzuma
  [ja:tà:s'-gwuzuma:]
  He milked an old cow
- 9. Ladid- uwa ce ga Musa
  [là:di:d-?uwa:tfe:gàmu:sa:]
  L. is a mother to Musa
- Bad- Uba zai komo
  [bà?d-?ubazaîkwo:mo:?]
  It is next year that Uba will return
- 11. Sun kall- wasu daga ciki [suŋkàll-wassudàgàtʃıci:] They had a look at some

The vowel table:

		А			$B^{61}$			С			D			$\mathrm{E}^{61}$		
	I	÷	ប	I	i	ប	I	i	ប	I	÷	υ	I	ŧ	U	
		•														
1.	٧			J			V			V			v			
2.	~			v			J			J			v			
3.	v						v			v			-			
4.	v			¥			v			V			v			
5.		V				1		v			マ			v		
6.		1			J			J			v			v		
7.		¥			J			¥			J			v		
8.		¥			v			1			•			v		
9.		v				v		v			v				~	
10.		¥			v			✓			¥			J		
11.		v				v			v		v				¥	
NUMBER OF OCCURRENCES	4	7	0	3	4	3	4	6	1	4	7	0	3	5	2	

Here, unlike in the previous dialects, from 1 - 4 (where labial precedes) all speakers maintain pronunciation with the [1] without any alternation. In the other cases (where coronal precedes) however, speakers B, C & E have [v] alternating with the surface [ $\pm$ ]. Speakers A & D do not have pronunciation with [v] at all in this particular pattern. We witnessed in Daura one speaker not having this vowel, too.

 $<sup>^{61}</sup>$  Speakers B & E have 'h' as stem-final consonant followed by the 'ı' in example 3.

### 7.7 CONCLUSION

A typical characteristic of the Sokoto dialect regarding the alternation of [I], [i] & [v] is the 'lack' of the tendency for [i]to alternate with either vowel where a labial precedes. In the other dialects we witnessed such alternation occurring in varying degrees, with the highest in the standard and the lowest in Zaria. However, in the sort of alternation in more than one segment, even though thirtythree responses (not fifty) were recorded in this dialect, the figure still shows some similarities and contrast with the standard. All combinations other than VIII (1-v) occur here as in the standard; combinations II (u-i), V (i-1), VI (i-u) & VII (1-1) all have equal number of occurrences in the two dialects; but like Zaria, Bauchi and Katsina, this dialect differs considerably from the standard in combinations I (u-u), IV (i-i) & IX (i-i). Besides, the /u/ in the {-uCa:} morpheme with a preceding coronal has predominant realization [v] over [i] in this dialect, a case similar to Bauchi and Katsina. And, finally for reduced u: in a closed syllable with a preceding coronal too, realization [u] again, predominates over [i], a case similar to Zaria and Bauchi. So, weighing all these together, it is evident that the Sokoto dialect is again very different from the standard.

### CHAPTER EICHT

# 8.0 ESTABLISHING THE UNDERLYING FORMS IN THE WORDS WHERE LABIAL AND/OR CORONAL PRECEDE(S)

In section 2.3 (Chapter Two), it can be recalled, we made an attempt to find the motivation for the alternation and non-alternation of [1],  $[\frac{1}{2}]$  & [v] in the standard dialect. That attempt also enabled us to establish the underlying forms in some of the words termed 'simple'. For instance, the non-alternation of the [v] in ?alkawurà:, 'promises' we said is attributed to two factors, viz. the feature value [+ back] of the preceding consonant on the one hand, coupled with the feature value [+ round] in the morphologically-fixed back vowel -u- which goes right through the whole syllable. And, we extended this to cover similar cases with reduced u: in a closed syllable, such as bùhûŋ, 'the sack', and with the simple word, such as wuta:, 'fire'. Consequently we concluded that the [v] in the latter case comes from an underlying /v/.

Similarly, regarding the alternation of [1] & [v] in the simple word where the preceding consonant is [+ phon. pal.], such as [1]wa:/[v]wa:, 'kite' we saw that the process is motivated by the featurevalue [+ round] in the following segment, and we thus concluded theunderlying vowel to be /1/; or where the preceding consonant is[+ phon. dor.], such as wuja:/wija:, 'neck', we realized that theunderlying vowel is /v/ and that the realization [1] is brought aboutby the following [j].

Now, having examined the 1/i/v alternation in the other dialects, we will turn in this chapter to seek the underlying form in the simple word where a labial and/or coronal precede(s). However, the two categories of simple word (the one where the alternation affects just one segment, and the one where it goes beyond) will be treated separately to safeguard against confusion:

# 8.1 Those Involving Alternation In One Segment

b-ci:, meaning 'ceremony'

We noticed in our investigation that this word has three possible pronunciations with [1],  $[\pm]$  or [v]. In other words, all the three vowels are found to alternate. Now, which among them could possibly be the underlying form? The vowel  $[\pm]$  is certainly not, as it never has such phonological status in the language (see 2.4). If we posit [1] on the other hand, there wouldn't seem to be a plausible explanation to offer for the realization [v]. One might argue that the feature value [+ lab.] in the preceding consonant is the motivation. But against this, the said consonant is [- round], an important phonetic feature that should not be overlooked. In fact, it is more realistic to consider [v] where one can be able to attribute the realization [1]to the final 'i:'. Again, this is possibly supported by the nonalternating plural form, bukwu:kwuwa`:. So that /v/ is the underlying form for this word.

b-gwu:, 'beating'

In all these dialects the pronunciation of this word remains consistent with [v]. Neither  $[\pm]$  nor [1] alternates with it. Generally speaking, such consistent pronunciation is maintained by the feature value [+ round] in the following segment. This is buttressed

up by the alternative pronunciation sometimes noticed in the verbal form buje:/bije:/bije:, or bujii/biji/biji, as in ja:buje:ji?/ ja:bije:ji?/ja:bije:ji?, 'he beat him', or ja:buji?audu?/ja:biji?audu?/ ja:biji?audu?, 'he beat Audu', where the following segment has an 'e' or 'i'; or the one noticed in the -a ending corresponding form, buga:/ biga:, ja:buga:/ja:biga:, 'he beat'. Therefore, it goes without saying the [u] in bugwu: comes from an underlying /u/.

#### ta:?b-ka?,'manage'

Among the two alternating vowels [v] & [i] in the pronunciation of this word, /v/ by implication is the underlying form.

## Φ-ta?, 'go out'

The alternation revolves round  $[1] \& [\frac{1}{2}]$  here, in which case the underlying form is /1/.

# m-lci:, 'power'

Like the first word, the pronunciation of this involves any of the three vowels. However, the word itself comes from the Arabic 'mulk', with an 'i:' added to the final consonant. So that /v/ is the underlying form. The realization [1] is obviously motivated by the said added 'i:'.

# n-s'e:, 'sink down'

The three vowels also are found to alternate here. However, the fact that the word ends in an 'e:' means that one can associate the realization [1] with it. The underlying form is therefore /v/.

# r-bu:tu:, 'writing'

The pronunciation of this word involves either of the vowels [v] & [i]. Hence, /v/ is the underlying form.

## r-ga:, 'Fulani cattle encampment'

The situation here is precisely the same as the one immediately above.

## t-rmi:, 'mortar'

The pronunciation of this word with any of the three vowels is manifested. We can easily posit /v/ to be the underlying form, and the realization [1] to be motivated by the 'i:' in the following segment.

s-øe:to:, 'police inspector'

The alternating vowels for this word are  $[v] \& [\pm]$ . The word by implication comes from the English 'inspector' [inspekte], where the initial in- is dropped, a vowel inserted between the consonant cluster sp-, the half-open [ $\varepsilon$ ] lengthened to a half-close [e:] and the following [k] dropped. However, by comparison with other examples, /v/ should be posited as the underlying form. This may be accounted for by the 'dark' quality of the English cluster sp-, rather than 'clear', as in 'speak' [spi:k], together with the half-open quality of the following vowel [ $\varepsilon$ ]. When the latter is lengthened in the Hausa pronunciation, it has to take a half-close quality [e:], but the preceding inserted vowel retains a 'dark' or rounded quality [v], or centralized [ $\pm$ ], rather than a clear front quality [ $\tau$ ]. This is supported by the pronunciation of the nick-name sitoi:cin/sitoi:cin, of the famous Hausa poet 'Mudi', where [v] does not occur.

 $z-\phi a$ :, 'perspiration'

For this word [v] & [i] are seen to alternate, suggesting /v/ to be the underlying form.

(Same as above)

?aud-ga:, 'cotton'

(Same as above)

?d-mi:, 'warmth'

Pronounceable with any of the three vowels, the underlying form for this word is /u/, the realization [1] being motivated by the final 'i:' (see 2.3.2.4).

?da:l-bi:, 'student [+ male]'

Like  $\phi ita?/\phi ita?$  already discussed, the alternating vowels for this word are [1] & [i]. The word, however, is from the Arabic 'ta:lib', where '?d' is substituted for the initial consonant and an 'i:' added to the final one. Therefore it is evident that /1/ is the underlying form.
# 8.2 Those Involving Alternation In More Than One Segment

Combinations IV (i-i) & IX (I-i) are found to alternate for the pronunciation of this word. The word, however, comes from the Arabic 'bunduqijja:' through Kanuri<sup>62</sup>. In the latter language it is pronounced as 'bindige:', where the final 'e:' is replaced by 'a:' in Hausa. It follows that /I/ is the underlying vowel in both segments.

## Φ-t-la:, 'light'

Like the first word, there are combinations IV & IX in alternation for this. Similarly, the word is from the Arabic 'fati:la:', 'wick', where the 'f' is replaced by ' $\Phi$ ', the following 'a' by 'I', the 'i:' following 't' shortened and centralized, and the meaning extended. So that /a/ and /i:/ are respectively the underlying forms for the vowels in the first and second segments. As for the realization [I] for the one in the first segment, this could well be attributed to the following [I] notwithstanding the centralization.

<sup>&</sup>lt;sup>62</sup> I must acknowledge Mohammed El-Shazli, a colleague working on Arabic loan words in Hausa, for providing this information over the telephone, 21/7/82.

# $\Phi - \Phi \Phi - c \hat{e}$ :, 'wing'

Six possible combinations are found to alternate here: I  $(\upsilon-\upsilon)$ , III  $(\upsilon-I)$ , IV (i-i), V (i-I), VII (I-I) & IX (I-i). It is reasonable to posit the underlying form for the vowel in both segments as  $/\upsilon/$ , and the realization [I] as being motivated by the 'e:' in the final segment. It should, however, be noticed that while the feature [+ spread] in this latter vowel affects the realization in the first segment in combination IX (I-i), it has no apparent impact on the realization in the second segment. In other words, the said 'spreading' here jumps across the second segment to affect the first one.

## d-dd-je:, 'heel'

Combinations I (u-u), II (u-i) & IV (i-i) are seen to alternate. Like the word immediately above, it is plausible to regard /u/ as the underlying form for the vowel in both segments. Nevertheless, pronunciation of any of the segments with an [1] is not manifested in the responses of the selected speakers in spite of the 'e:' in the final segment, a case otherwise possible with others, including the writer.

#### t-mb-?di:, 'regurgitation'

Like the word for 'wing', up to six combinations count as the alternants for this word. They are: I (v-v), II (v-i), IV (i-i),

V (i-1), VI (i-v) & VII (1-1). Again, the underlying form for the vowel in both segments is /v/, while the realization [1] is brought about by the 'i:' in the final segment.

# s-m-nti:, 'cement'

The alternating vowel combinations for this centre round IV (i-i), V (i-i) & VI (i-v). However, the word comes from the English 'cement' [siment], with substitution of 'I' for the ' $\varepsilon$ ' and addition of an 'i:' to the final consonant. So that we can say /i/ and / $\varepsilon$ / are respectively the underlying forms for the vowels in the first and second segments. The realization [v] nevertheless, doesn't seem to be accountable for, in so far as the preceding 'm' in the second segment is [- round]. Alternatively, we can disregard these vowels, posit /v/ for both segments and associate the realization [I] with the final 'i:'.

#### 1-11-?bi:, 'veiling'

For this word, combinations I  $(\upsilon-\upsilon)$ , II  $(\upsilon-i)$ , IV (i-i) & VI (i- $\upsilon$ ) are found to alternate. The underlying form for the vowel in both segments can well be regarded as  $/\upsilon/$ . Realization [1] is not reflected in the pronunciation of those selected speakers, which, on account of the final 'i:' is otherwise possible with others, including the writer.

The alternant combinations here are: I  $(\upsilon - \upsilon)$ , II  $(\upsilon - i)$ , IV (i-i)& V (i-1). The underlying form for the vowel in both segments is undoubtedly  $/\upsilon/$ , and pronunciation with [1] motivated by the final 'i:'.

#### r-b-?i:, 'one quarter'

The alternants for this are combinations I  $(\upsilon-\upsilon)$ , II  $(\upsilon-i)$ , III  $(\upsilon-i)$ , III  $(\upsilon-i)$ , IV (i-i) & VII (1-1). However, as described in 2.3.2.1, the word comes from the Arabic 'rub', with vowel epenthesis ' $\upsilon$ ' (a copy of the one in the preceding segment), substitution of '?' for the '' and addition of an 'i:' finally. So the underlying form for the vowel in both segments is  $/\upsilon/$ , while pronunciation with [1] is motivated by the final 'i:'.

Combinations I ( $\upsilon$ - $\upsilon$ ), II ( $\upsilon$ -i), III ( $\upsilon$ -i) & IV (i-i) are seen to play the role as alternants for the pronunciation of this. Like all other similar cases,  $/\upsilon/$  is the underlying form for the vowel in both segments, while the realization [1] is associated with the final 'i:'.

#### 8.3 CONCLUSION

#### CHAPTER NINE

9.0 EXAMINING THE -1j- & -uw- SEQUENCES

We devoted Chapter Eight to establishing the underlying forms in the words where labial and/or coronal precede(s). In the word for 'ceremony', for instance, where the pronunciation of the first segment is possible with any of the three vowels, bùci:/bici:/bici:, we posited /v/ as the underlying form and associated the realization [1] with the feature value [+ spread] in the following segment; /1/ in the case of the alternating [1] & [ $\pm$ ] in  $\phi$ ita?/ $\phi$ ita?, 'go out'; or /v/ in both segments of the word for 'wing',  $\phi u \phi \Phi v c c$ : where, again, we related the realization [1] to the following [+ spread]; /I/ in both segments of bindiga`:, 'gun', the word which we said came from the Kanuri 'bindije:' and, which in turn, originated from the Arabic 'bunduqijja:'. In this chapter we will examine the -1j- and -uwsequences relative to the alternation under consideration.

Generally speaking, each of the two sequences -1j- & -uw- can be classified into morphological and phonological sub-categories. We will now focus on each sequence separately along these lines and see how the vowel behaves:

## 9.1 The -1j- Sequence

9.1.1 Morphological

An example of the -ij-morphological sequence is the one in the -ija: suffix marking femininity in various categories of words, such as noun and adjective, including 'participial' and 'ideophonic':

Feminine	Masculine	Meaning
be:bija:	be:be:	deaf-mute
∫ar?be:?bìja:	∫ar?be:?be:	tall/long and huge
dadaadaija:	davao ve:	cooked one
ra:mammıja:	ra:mamme:	emaciated one
sanannıja:	sananne:	famous
bàtu:rìja:	bàtu:rè:	European
ba?arija:	bà?are`:	one who comes from extreme
		north
kawa:lija:	kawa:li:	pimp
mò:s'as's'ıja:	mo:s'as's'e:	mad
mò:s'as's'ıja: Ju:?dìja:	mo:s'as's'e: ju:?di:	mad blue one
mò:s'as's'ıja: ∫u:?dìja: bàhau∫ìja:	mo`:s'as's'e: ʃu:?di`: bàhauʃe`:	mad blue one a Hausa
mò:s'as's'ıja: ʃu:?dìja: bàhauʃìja: ?àmintatʃtʃıja:	mo`:s'as's'e: ju:?di`: bàhauje`: ?àmintatftje:	mad blue one a Hausa faithful
mò:s'as's'ıja: ʃu:?dìja: bàhauʃìja: ?àmintatʃtʃıja: matʃi:dʒija:	mo`:s'as's'e: ju:?di`: bàhauje`: ?àmìntatftje: matji`:dsi:	mad blue one a Hausa faithful snake

<sup>63</sup> Pronunciation in West Hausa as against bani¢ìja:/bani¢è: in East Hausa.

Feminine	Masculine	Meaning
wa:jajjıja:	wa:jajje:	wise
wankaccıja:	waŋkacce:	washed one
gwo:gajjija:	gwo:gajje:	ironed one
ti:c'e:c'ìja:	ti:c'e:c'è:	huge

However, note that there are no examples with the coronals t-, d-, s- and z-; or the glottal stop ?-; or the dorsals w-, kw-, kw'and gw- preceding. With regard to the coronals what blocks the chances is obviously the palatalization rule. For, they all tend to be palatalized under such circumstances. Take the following feminine forms of the 'participial adjective' where the reduplicated consonants [+ pal.] come from underlying /t, d, s & z/ respectively:

màtatftīīja:	dead one
gwudadadau ja:	fugitive
bu:sa∬1ja:	dry one
bazadzdzija:	spread one

For the glottal stop ?, this as stem-final consonant of a word hardly goes with the suffix -1ja:. On the contrary, it is more associated with the -o:Ci: plural suffix (where the C is identical with the stem-final consonant), as in sana:?- + -o:?i: > sana:?o:?i:, 'occupations', sa?- + -o:?i: > sa?o:?i:, 'contemporary age mates'.

Turning to the dorsals, phonemic /w/ as stem-final consonant followed by a suffix -i: is normally affected by the palatalization rule, as in the following plural form:

ba:ji:	<	ba:wa:	slaves
tjìja:ji:	<	tfija:wa:	grasses
?bàra`:ji:	<	?bàra:wo:	thieves

So naturally it would be hard to find the morphological sequence -w + -1ja: in Hausa. For the other three dorsals kw, kw' and gw also, as allophones conditioned by a following back vowel the question of them going with -1ja: does not arise. In other words, an underlying /1/ never follows allophonic dorsal.

Now, the fundamental question is, can  $[\pm]$  and/or  $[\upsilon]$  alternate with the [I] in this particular -Ij- sequence? Broadly speaking the answer is 'no'. In none of the eighteen examples cited for instance, would one ever hear pronunciation with  $[\pm]$  or  $[\upsilon]$  in place of the [I]. This is in fact attributed to two factors: a) the morphology has firmly fixed the sequence as I + j (+ a:) and, b) both [I] and [j]have a close phonetic affinity, the articulation of each involving the 'front of the tongue' and the 'hard palate'. So taking these together there is a 'mutual expectancy' of [I] with [j], and this would not permit  $[\pm]$  or  $[\upsilon]$  to alternate with the [I].

## 9.1.2 Phonological

The -ij- sequence in this sub-category can be seen in a variety of nouns, including loans, as follows:

.

bijar	five
la:Фıjà: (Ar.)	health
mija:	soup
hàni:nija:	neighing
rìjaî (Ar.)	acting only to create impression
da:rija:	laughter
lìja:⊉à: (Ar.)	entertainment
tìja:tà: (Eng.)	medical operation <sup>64</sup>
sìja:sà: (Ar.)	politics
zija:rà: (Ar.)	visit
dījja: (Ar.)	blood money
s'ins'ıja:	broom
ha?dıja:	swallow
ka:∫ıja: (Eng.)	cashier
tjija:wa:	grass
ri:djija:	well
?ıja:ka:	limit
na:hıja: (Ar.)	district
cıja:∫i:	kind of small ant
JIJA:	beer
c'ìja:si: (Ar.)	analogy

<sup>64</sup> From 'theatre', where the operation is performed.

Note that there are no examples with preceding 7b-, j-, w-, kw-, kw'- or gw-. Example with preceding 7b- and j- under this particular category of sequence actually proves hard to lay hands on. Similarly, for the other four, as already explained in 9.1.1 one would never expect to find an underlying /1/ following any of them.

Turning to the question whether  $[\pm]$  and/or  $[\upsilon]$  can alternate with the [I] in this sequence, what applies to morphological sequences also applies here. That is, the alternation is impossible in view of the said close affinity between [I] and [j].

## 9.2 The -uw- Sequence

9.2.1 Morphological

The morphologically-fixed -uw- sequence can be identified in three categories of words: a) the weak verbal noun of the -u ending intransitive verb or, say, the sixth grade of verb, such as jà:ruwa:, 'sweepability', dà:muwa:, 'distress', the verb being jà:ru and dà:mu respectively; b) the feminine noun or adjective marked by the suffix -uwa:, such as bà:kw'uwa:, 'guest', do:gwuwa:, 'tall', the masculine form being bà:kw'o: and do:gwo: respectively; c) the noun plural marked by the suffix -uwa: with reduplication or sometimes gemination of the stem-final consonant, such as zaru:ruwà:, 'threads', zannuwà:, 'wrappers', the corresponding singular being zàre: and zanè: respectively. Now, take example of these with the set of individual preceding consonants:

rabuwa:	parting with	
ga:?buwa:	fool [+ fem.]	
k'aoa:ouwa:	legs	
sa:nowa:	availability	
bàkanòwa:	Kano Hausa woman	
garuwa:	something that can be rolled	
?daru:rowa:	hundreds	
?ballowa:	breakability	
batu:towa:	conversations	
rasuwa:	death	

?azu:zuwa:	classrooms	
s'uns'uwa:	bird [+ fem.]	
sa:duwa:	getting in touch	
ka?duwa:	shock	
s'o:huwa:	old one [+ fem.]	
ra: juwa:	life	
sa:wuwa:	something that can be worn	
hakwu: kwowa:	grasses	
∫a:kw'uwa:	intimacy	
gworgwuwa:	cripple [+ fem.]	

Nevertheless, there are no examples with preceding ?-, j-, tf-, ds-, c-, c'- and j-. The glottal stop [?] as stem-final consonant as we said before, is more associated with the plural suffix -o:Ci:. It can hardly be found with this particular -uw- sequence. For the other six too, the fact that they are all [+ pal.] one would not possibly expect an underlying /u/ to follow them.

Now, coming to the question of alternation, how possible is  $[\ddagger]$ and/or [1] to alternate with the [ $\upsilon$ ] in this sequence? Generally speaking, from the twenty examples cited above, alternation applies in only one case, namely the word for 'life' where the preceding consonant is j-. Even here the process is restricted to [1] alone. In other words, [1] to the exclusion of [ $\ddagger$ ] alternates with the [ $\upsilon$ ] under these circumstances. Pronunciation as  $r\hat{a}$ : j1wa: is hence possible. In fact, this is attributed to the feature value [+ pal.] inherent in the preceding consonant.

## 9.2.2 Phonological

This sub-category of -uw- sequence can be exemplified with different sorts of nouns, including certain loans and verbs:

buwa: ja?	be impossible
?a∮uwa: (Ar.)	pardoning
muwa: @ak'a: (Ar.)	luck
ga:nuwa:	city wall
ka:rowa?	prostitute
rowa:	water
ka:lu:lowa:	groin
tuwo:	the food 'tuwo'
ka:suwa:	market
k'azuwa:	scabies
s'uwa:	the hiss of a snake
?aduwa:	desert-date
?duwa:wu:	buttocks
?uwa:	mother
huwa:tfe:	have power from God to possess
	or control
garkwowa:	shield
∫akw'uwa:	hiccough
?ungwowa:	ward in a town

Here, example with preceding 2b-, j- and w- proves hard to find. Besides, from the point of view of alternation, neither [1] nor [ $\frac{1}{2}$ ]

#### 9.3 CONCLUSION

In view of the close phonetic affinity between [I] and [j] one would not possibly expect [i] and/or [v] to alternate with the [I]regardless of the sequence being a morphological or phonological one. This also applies to that affinity between [v] and [w]. Nevertheless, an exception here is manifested in a morphological sequence with preceding j-, where [I] is found to alternate with the [v] on account of the palatality inherent in the consonant (cf.  $r\hat{a}:juwa:/r\hat{a}:jiwa:$ ). Generally, in a phonetic context there is mutual expectancy of [I]with [j] and [v] with [w].

#### CHAPTER TEN

#### CONCLUDING REMARKS

We set out in this study basically to: a) try to identify the particular phonetic contexts within which the alternation of [I],  $[\pm]$  &  $[\upsilon]$  takes place in an utterance and where it does not, b) try, where possible, to establish the underlying forms from amongst the three vowels, and c) to identify, where possible, the underlying causes for the alternation or non-alternation.

With regard to a), identification of the phonetic contexts for the alternation and non-alternation, the first thing to state is that since Hausa does not permit vowel-initial utterances, this alternation occurs only medially in a word or sentence, in one or more successive segments. It contrasts with other vowel alternations that are restricted to word alone, occurring in both medial and final positions (cf. 2.0).

Similarly, one should consider the phonetic nature of the preceding consonant on the one hand, and the feature value of the following segment on the other. For the first part, of the twenty-seven 'phonemic' and 'allophonic' consonants which may be followed by a close vowel, back or front, [?] and [h] tend not to permit any alternation, e.g. ?uba:, 'father', ?ido:, 'eye', hukwu:mà:, 'authority', hika:jà:, 'narrative' (see 2.1.1.1.5), buhuna:, 'sacks' (2.1.2.5), nau?iŋ, 'the type', ru:hiŋ, 'the soul' (2.1.3.1.5), buhuŋ, 'the sack', pronunciation is quite consistent with the particular vowel therein without alternation. For the second part, a particular feature value of the following segment in some cases, helps in promoting the alternation or non-alternation. In  $\exists 1 \forall \forall a i$ ; 'kite', or the sentence muŋgàmujâu?, 'we met today', for instance, the feature [+ round] in the former or [+ spread] in the latter contributes to the alternation of [u] with the [1],  $\exists u \forall a i$ : or, [1] with the [u], muŋgàmıjâu?. In  $\exists 1da?$ , 'six' or wuta:, 'fire' on the other hand, there is no alternation at all as there are no such feature values following. However, in  $\forall i ta?$ , 'go out' or  $zu \forall a i$ , 'perspiration' for example, where [ $\pm$ ] alternates in both cases,  $\forall i ta?$  and  $z \pm \diamond a i$ , such alternation is in no way associated with the feature value [- round, -spread] in so far as the alternant occurs also where a rounded or spread segment follows, s'uns'u:/s'ins'u:, 'bird', bùci:/bìci:, 'ceremony'.

In general, four different forms of alternations are associated with [1], [±] & [v], occurring under various circumstances. These are, alternation of the whole three, 1/±/v as in bùci:/bṫci:/bṫci: above, ?dòmi:/?dṫmi:/?dìmi:, 'warmth'; that of 1/± as in Φìta?/Φṫta?, 'go out'; that of v/± as in ta:?bùka/ta:?bɨka, 'manage', kàrà:tŷŋ/ kàrà:tɨŋ, 'the reading'; and that of 1/v as in tjìkwo:wà:/tjùkwo:wà:, 'overcrowd'. While alternation with [±] is limited to the situation where the preceding consonant is a labial or coronal, with [1] and [v] on the other hand, it goes beyond.

From the point of view of b), establishing the underlying forms from amongst the three vowels, [i] is eliminated from consideration since it is never found to play a phonemic role in the language (see 2.4). Thus, the choice is between [1] and [v]. In fact, the underlying form is sometimes /1/ and sometimes /v/ depending on the utterance. For instance, where the whole three are found to alternate, the

following segment most likely has the feature value [+ spread] with which the realization [1] is associable and /u/ consequently realizable as the underlying form, as in bùci:/bìci:/bìci:, 'ceremony', duddugè:/ diddige:/diddige:, 'heel'. Similarly, where [1] and [u] alternate to the exclusion of [ $\pm$ ], the underlying form can be /I/ as in cis'ô:/ cus'ô:, 'plaiting of hair', or /u/ as in ?àkwujà:/?àkwijà:, 'goat'. In the plural morpheme {-uCa:} /u/ is the underlying form, /I/ in the case of reduced i:, and /u/ of reduced u: within a closed syllable. In case of short -i accompanied by glottal prosody in pause which, when used utterance-medially before a pause the glottal element disappears, /I/ is considered to be the underlying form. This also applies to short -u under the same circumstances where /u/ is regarded as the underlying form.

Turning to c), identification of the underlying causes for the alternation or non-alternation, this is again largely a question of the phonetic quality of the preceding consonant and that of the following segment. If we take the non-alternation first, we saw that with preceding glottals ?- and h-, which are [+ back], alternation is not possible, as in ?Idô:, 'eye', bubunà:, 'sacks', whose pronunciation is always with [I] and [ $\upsilon$ ] respectively. Here, since when a back consonant precedes a front vowel which [I] is, it tends to be palatalized (see 2.3.1) the palatal element in the affected segment in ?Idô: or the labial element in the affected segment in ?Idô: or the labial element in the affected segment in ?Idô: despite the 'rounding' in the following segment alternation is not manifested at all.

For the alternation on the other hand, while the distribution of [±] is predictable, it does not seem possible to account for why it occurs at all. But the alternations involving the other two are explicable by the phonetic environment: [1] alternates with [v] at times on account of the feature value of the following segment, and at times on account of that of the preceding consonant itself, as in wujà:/wujà:, 'neck', and ?unigmà:/?uniguaà:, 'engines', respectively. Conversely, [v] alternates with [1] in a similar way, as in cus'ò:/ cus'ò:, 'plaiting of hair', and rà:juwa:/rà:juwa:, 'life'.

Besides, we generally examined these forms of alternations in the standard as well as in the other five dialects, Zaria, Bauchi, Daura, Katsina and Sokoto. The standard dialect, we noticed, tends to have the vowel [i] more than the others, most especially where the preceding consonant is a labial. In this latter situation while Zaria, Bauchi, Daura and Katsina show some little tendency, Sokoto on the other hand does not have the tendency at all. Similarly, in the sort of alternation in more than one segment with labial and/or coronal preceding, combination IV (i-i) is found to be the commonest in all dialects other than Sokoto. However, with all the six dialects including Sokoto, combination VIII (1-u) never occurs. In addition, reduced i: in a closed syllable preceded by a coronal has the realization [i] in all the dialects. So that [i] under these circumstances is an allophone of /1/. This also applies to the situation where the same kind of consonant precedes and the vowel (which is  $[\pm]$  exclusively) regardless of the kind of syllable, is followed by a segment which has neither 'rounding' nor 'spreading', e.g. nik'a, 'grind', rina, 'dye' (see 1.2.3). Elsewhere it is a variant.

On the whole, since [±] is not a phoneme in Hausa, the present system in the standard orthography whereby no symbol for this vowel is represented should, to my mind, continue to operate. Although the particular phonetic contexts for its occurrence seem to be predictable, and although the orthography itself is based on the standard dialect where such occurrence is most frequent, still there is a danger in introducing an additional symbol. The confusion which is feared by the 'Working Party On Hausa Orthography' in this connection, would automatically result. It will take ages to familiarize the people with the new symbol. Furthermore, this would mean introducing a similar symbol as well into the 'Ajami', i.e. the other form of writing in Arabic script. Hence, such introduction would have practical difficulties and would be theoretically undesirable.



MAP OF NIGERIA SHOWING THE SIX PRINCIPAL HAUSA DIALECT AREAS

APPENDIX B

## SYMBOLS & ABBREVIATIONS

s.

[+

>	gives
<	derived from
~	alternates with
\$	syllable boundary
*	utterance whose pronunciation is not so
[]	phonetic bracket
…] / []	feature value bracket
/ /	phonemic slashes
{ }	morphophonemic braces
Ar.	Arabic
Eng.	English
Yor.	Yoruba

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