

# Sociolinguistic survey of selected Rajasthani speech varieties of Rajasthan, India

Volume 6: Marwari, Merwari, and Godwari

Sajayan Chacko Liahey Ngwazah Juliana Kelsall, Series Editor

## Sociolinguistic survey of selected Rajasthani speech varieties of Rajasthan, India

Volume 6: Marwari, Merwari, and Godwari

Sajayan Chacko and Liahey Ngwazah

Juliana Kelsall, Series Editor

SIL International® 2012

#### **Abstract**

This report describes the findings of a sociolinguistic survey conducted among speakers of Marwari (ISO 639-3: rwr), Merwari (ISO 639-3: wry), and Godwari (ISO 639-3: gdx), spoken in the western region of Rajasthan. The fieldwork was done from January to March 2005. Wordlist comparisons, Recorded Text Testing (RTT), Hindi Sentence Repetition Testing (SRT), and questionnaires have been employed as research methods. Results indicate that Marwari, Merwari, and Godwari speakers would benefit from vernacular language development because the people (especially the uneducated) are probably not sufficiently proficient in Hindi, the mother tongue is used in almost all domains of life, and it is likely that these languages will continue to be viable in the future. The findings suggest that language development in the Jodhpur Marwari speech variety would meet the needs for Merwari and Godwari speakers as well.

#### **Contents**

#### Introduction to the series

- 1 Introduction
  - 1.1 Geography
  - 1.2 People
  - 1.3 Languages
  - 1.4 Previous research
  - 1.5 Purpose and goals
- 2 Dialect areas
  - 2.1 Lexical similarity
    - 2.1.1 Introduction
    - 2.1.2 Procedures
    - 2.1.3 Site selection
    - 2.1.4 Results and analysis
  - 2.2 Dialect intelligibility
    - 2.2.1 Introduction
    - 2.2.2 Procedures
    - 2.2.3 Site selection
    - 2.2.4 Demographic profiles of the RTT sites
    - 2.2.5 Results and analysis
- 3 Language use, attitudes, and vitality
  - 3.1 Introduction
  - 3.2 Questionnaire sample
  - 3.3 Results and analysis
    - 3.3.1 Language use
    - 3.3.2 Language attitudes
    - 3.3.3 Language vitality
- 4 Bilingualism
  - 4.1 Introduction
  - 4.2 Tested levels of bilingualism in Hindi
    - 4.2.1 Sentence Repetition Testing (SRT) procedures
    - 4.2.2 Variables and sampling for SRT
    - 4.2.3 Demographic profiles of the SRT sites
    - 4.2.4 Results and analysis
  - 4.3 Self-reported bilingualism in Hindi
- 5 Summary of findings and recommendations
  - 5.1 Summary of findings
    - 5.1.1 Dialect areas
    - 5.1.2 Language use, attitudes, and vitality
    - 5.1.3 Bilingualism
  - 5.2 Recommendations
    - 5.2.1 For language development
    - 5.2.2 For literacy

Appendix A. Maps

Appendix B. Wordlists References

#### **Introduction to the Series**

According to an old saying, 'The dialect, food, water, and turbans in Rajasthan change every twelve miles.' Indeed, the state of Rajasthan in western India is a region of rich cultural and linguistic diversity. Eight languages from this area are covered in this six-volume series of sociolinguistic surveys. In both the *Linguistic survey of India* (Grierson 1906) and the *Ethnologue* (Lewis 2009), these languages are classified as Indo-European, Indo-Iranian, Indo-Aryan, Central Zone, Rajasthani. At that point, the classification terms diverge, as seen in this table:

#### Classifications and ISO codes for the eight languages covered in this series

Language	Linguistic survey of India (Grierson 1906)	Ethnologue (Lewis 2009)	ISO 639-3 code
Marwari <sup>a</sup>	Western Rajasthani	Marwari	rwr
Godwari	Western Rajasthani	Marwari	gdx
Mewari	Western Rajasthani	Marwari	mtr
Shekhawati	Western Rajasthani	Marwari	SWV
Merwari <sup>b</sup>	Central-eastern Rajasthani	Marwari	wry
Dhundari	Central-eastern Rajasthani	Marwari	dhd
Hadothi	Central-eastern Rajasthani	Unclassified	hoj
Mewati	North-eastern Rajasthani	Unclassified	wtm

<sup>&</sup>lt;sup>a</sup>Grierson also includes Bikeneri under Western Rajasthani. Bikaner (alternatively spelled Bikener) is a district where Marwari is spoken.

'Rajasthani' has long served as a cover term for many of the speech varieties of this region. In spite of significant linguistic divergence, use of this term has continued to this day, sometimes by mother tongue speakers as well as by scholars and those who are seeking official recognition of Rajasthani as a Scheduled Language of India. The definition of 'language' versus 'dialect' presents challenges to researchers. These challenges are compounded by the numerous different terms used by census takers, scholars, and mother tongue speakers themselves.

In the introduction to the print version of the Ethnologue, Lewis (2009:9) notes,

Every language is characterized by variation within the speech community that uses it. Those varieties, in turn, are more or less divergent from one another. These divergent varieties are often referred to as dialects. They may be distinct enough to be considered separate languages or sufficiently similar to be considered merely characteristic of a particular geographic region or social grouping within the speech community. Often speakers may be very aware of dialect variation and be able to label a particular dialect with a name. In other cases, the variation may be largely unnoticed or overlooked.

In these surveys, the researchers used a multi-pronged synchronic approach to describe the current sociolinguistic situation of the eight languages under consideration. Lexical similarity within and between languages was assessed using a 210-item wordlist. The phonetic transcriptions of these wordlists are presented in appendices to the reports. In many instances, intelligibility of selected speech varieties was investigated using recorded oral texts. Orally-administered questionnaires provided insights into language use patterns, language attitudes, perceived similarities and differences among speech varieties,

<sup>&</sup>lt;sup>b</sup>Grierson also includes Ajmeri under Central-eastern Rajasthani, but not Merwari itself. Ajmer is a district where Merwari is spoken.

and self-reported bilingual proficiency. Community levels of bilingualism were investigated using sentence repetition testing. The results make a significant contribution to a broader and deeper understanding of the present-day sociolinguistic complexities in Rajasthan.

The researchers travelled many kilometres by train, bus, motorcycle, and on foot. They interviewed regional scholars, local leaders and teachers, and large numbers of mother tongue speakers, meeting them in large cities as well as in rural villages. It is the researchers' sincere hope that the information presented in these volumes will be useful in motivating and supporting continued development efforts in these languages.

Juliana Kelsall, Series Editor

#### 1 Introduction

#### 1.1 Geography

After the separation of Madhya Pradesh into two states — Madhya Pradesh and Chhattisgarh — in 2000, Rajasthan became the largest state of India. Rajasthan is situated in the western part of India, sharing an international border with Pakistan. Being the largest, this state extends over a distance of 869 kilometres from east to west and 826 kilometres north to south. The state occupies 10.41 per cent of India's total area.

The western region of Rajasthan, where this survey was conducted, is basically the desert region of the state, being in the midst of the Thar Desert or the Great Indian Desert. This desert region is the home of people who speak the Marwari, Merwari, and Godwari languages. The land that the Marwari, Merwari and Godwari speakers live on is so large that it makes up half of the entire state.

The Marwari-speaking<sup>1</sup> people are found in the districts of Jodhpur, Barmer, Jaisalmer, and Bikaner. The Merwari live in the districts of Nagaur and Ajmer. The Godwari are found in Jalore, Pali, and Sirohi districts. (See Map 1 in appendix A.)

Maps 1–5 in appendix A were prepared by report authors.

#### 1.2 People

The population of Rajasthan state is 56.5 million with a density of 165 people per square kilometre (Census of India 2001). The combined population of the Marwari, Merwari, and Godwari regions is 16 million. This is 28 per cent of the state population, while the area covered is 50 per cent of the state's whole area. This demonstrates the low population density in this desert region of the state.

The Marwaris are a group of Indo-Aryan people living in Marwar region. Marwari is believed to be derived from the Sanskrit word *Maruwat*, where Maru means 'desert'. The Marwaris are business people belonging to the Vaishya, the trading caste in the Hindu hierarchical caste system. They are found in both India and in Nepal. They are widespread in India, making it difficult to obtain a clear figure of the population. Gusain (2004:1) estimates the Marwari population in India to be 13 million. The 1991 census gives a population of 3,828,472 mother tongue Marwari speakers in Rajasthan. There was an overall 21.34 per cent increase of the Indian population between the censuses of 1991 and 2001 (http://www.indianchild.com/population\_of\_india.htm). Such an increase would project the 2001 mother tongue Marwari population as approximately 4.6 million. This is close to what we have roughly estimated. According to our estimate, the Marwari people living in the Marwar region alone could be around 5.6 million. This figure was arrived at by combining the populations of the Marwar area (Jodhpur, Barmer, and Jaisalmer districts) from the 2001 census. This totals about 7 million. Assuming that 80 per cent of the people living in the Marwar region speak Marwari as their mother tongue, the population of mother tongue speakers in this area would be around 5.6 million.

As for Marwari, different sources give different population figures for Merwari speakers. *Ethnologue* lists 1,312 (Gordon 2005); it is likely that this figure is so low because Merwari speakers have been subsumed under other language names, most commonly Marwari and Rajasthani. We calculated that the actual population could be 3.9 million (80 per cent of the combined population of Nagaur and Ajmer districts, which was 4.9 million according to the 2001 census). The Merwari language is also called Ajmeri, after one of the districts where it is spoken.

Specific population figures for Godwari are difficult to find, likely for the same reason mentioned for Merwari. According to the 1961 census, Godwari speakers numbered 136 (Mallikarjun 2002). Even with

<sup>&</sup>lt;sup>1</sup>Marwari is variously spelt as Marvari, Marwadi or Marvadi. Marwari is used throughout this report, being the most common spelling.

an estimated increase from 1961 to 2001, this would give a fairly small number for a Rajasthani-related language group living in two districts. In the same way as we did for Marwari and Merwari, we estimated the Godwari population to be three million.

Shekhawati is another Indo-Aryan language group found in Sikar, Jhunjhunu, and Churu districts of Rajasthan. As they live close to the Marwar region, their relationship to Marwari was also investigated on this survey.

#### 1.3 Languages

Marwari, Merwari, Godwari, and Shekhawati are classified as Indo-European, Indo-Iranian, Indo-Aryan, Central Zone, Rajasthani, Marwari (Lewis 2009).

According to various scholars, [one] way to classify the present-day dialects of Rajasthani is to divide them along geographic lines into several major circuits.... [The Marwari circuit] is considered to be ancient Rajputana or the traditional Marwad kingdom. Since ancient times, the area's speech variety has been known as Marwari (alternately spelled as Marvari or Marwadi). During this survey, people reported that within this circuit, there are four major dialects, designated according to four of the district names. Jodhpuri is considered to be the pure and standard form of Marwari; most of the Rajasthani-Marwari literature has been produced in this variety. Jaisalmeri, Barmeri and Bikaneri are the other three reported varieties of Marwari. Marwari has a number of poets and writers, as well as quite a number of language and cultural research centres. There are some institutes that are focused on collecting and preserving old manuscripts. The Rajasthan government archives include thousands of Marwari manuscripts from the 9th century onward. Marwari literature has a strong influence on Rajasthani literature (Samuvel, Joshua, Koshy, and Abraham 2012:21–22).

[The Merwari] circuit covers Ajmer and Nagaur districts, and borders the Marwari circuit. People here consider themselves to be Marwari speakers, though the name Ajmeri (referring to one of the districts of this circuit) has also been used for this speech variety. Although Merwari had its own literature in the past, the present-day situation is not favourable to develop any literature in this dialect (Samuvel, Joshua, Koshy, and Abraham 2012:22).

The name for Godwari circuit was apparently derived from an ancient clan; this is not widely known among the local people today. The Godwari circuit consists of three districts (Jhalor, Pali and Sirohi) located on the Aravalli range. Godwari has four main varieties called Balvi, Khuni, Sirohi and Madahaddi. Many local Rajasthani language experts (Sohanlal 1991:180) believe that from this area, the original Rajasthani language formed and separated from Gujarati. At present, Godwari has few poets and writers and very little literature of its own (Samuvel, Joshua, Koshy, and Abraham 2012:23).

Shekhawati circuit consists of two small districts called Jhunjhunu and Sikar, and also part of Churu. The speech variety here differs from Standard Marwari; the people refer to their mother tongue as Shekhawati-Marwari and identify themselves in general as Marwari speakers. Sikar Shekhawati is reportedly the standard form of this circuit's Rajasthani dialect; the other reported form is Jhunjhunu-Churu Shekhawati. Shekhawati has contributed to the body of Rajasthani

literature and has many poets and writers, even though it has a smaller population compared to the other circuits (Samuvel, Joshua, Koshy, and Abraham 2012:23).

There have been several initiatives to develop the Marwari language using the Jodhpuri variety. It is reported that the language used in Marwari movies, radio broadcasts, and school textbooks is that of Jodhpuri variety. From 2004 onwards, the Rajasthan state government has included a chapter in Marwari within the Hindi subject to be taught to students from first through eighth standard.

Marwari, as a language, does not have official status in educational institutions or in government offices. There have been attempts to have it recognised as one of the Scheduled Languages of India. Author Ram Chandra Bora (1994:53, 57) writes that two of the Rajasthani dialects, Marwari and Shekhawati, dominate the linguistic scene in Rajasthan. He adds that promoters aspire to see Marwari become the official language for the whole state of Rajasthan.

Marwari as a language has distinct characteristics. For example, during the fieldwork for this survey, people told the researchers that there are some phonetic sounds in Marwari that cannot be represented with the Devanagri script. A website (<a href="http://www.theory.tifr.res.in/bombay/history/people/language/marwari.html">http://www.theory.tifr.res.in/bombay/history/people/language/marwari.html</a>) mentioned, 'Marwari contains many words in common with Gujarati as well as Hindi. The rules of grammar differ from Hindi at various points.' In the table below are two rules listed on that website for transforming Hindi words into Marwari words.

Cha	inges	Gloss	Hindi	Marwari
/s/	to /h/	gold	sona	hona
/ch	/ to /s/	spoon	chammach	sammas

#### 1.4 Previous research

Gusain (2004) wrote a grammatical description of Marwari. His book provides a brief sociolinguistic sketch, along with chapters on the phonology, morphology, and syntax of Marwari. He also includes a short Marwari text with interlinear and free translations.

The researchers are aware of two sociolinguistic surveys that have been conducted relating to these languages. Varenkamp (1990) did a short survey on Marwari, Shekhawati, and Dhundari. A few findings from this survey were:

- The Marwari situation is quite complex it could be a pidgin of Hindi or of Bhili languages.
- There seem to be more differences between Marwari and Hindi in grammar than in vocabulary.
- The people in the villages, especially women, do not adequately understand Hindi.
- Marwari as spoken in Jodhpur is considered the standard form.

In the report on their survey of present-day Rajasthani dialects, Samuvel et. al. (2012:13) noted, 'People who speak other dialects but have an awareness of the prestige of Marwari are recognising that they may need to sacrifice their own dialect variations for the sake of restoring Rajasthani as a language. Consequently, it appears that Marwari will continue to serve as the standard form of what people refer to today as the Rajasthani language.' Samuvel et. al. also included some recommendations for further research (2012:47–48):

- There is a need to conduct intelligibility testing of the Jodhpur Marwari dialect among Merwari speakers. (Though intelligibility testing of the Marwari story was carried out in most of the varieties, they were not able to conduct this testing among Merwari speakers.)
- Comprehension testing needs to be done within the Rajasthani dialects.
- Bilingual proficiency in Hindi needs to be determined among speakers of Rajasthani dialects.

#### 1.5 Purpose and goals

The purpose of this survey was to further clarify the needs for language development in the Marwari, Merwari, and Godwari languages. To achieve this purpose, the following goals were set.

Goal 1: To determine the optimal language (or languages) for a language programme (or programmes) among speakers of Marwari, Merwari, and Godwari?

Research questions:

What is the degree of lexical similarity among varieties of Marwari, Merwari and Godwari? Is the Jodhpur variety of Marwari intelligible and acceptable to: (a) Merwari speakers; (b) Godwari speakers; (c) Marwari speakers in other districts of the language area?

Is Shekhawati intelligible and acceptable to Marwari speakers in Jodhpur?

Research tools:

Wordlist comparisons, Recorded Text Testing (RTT), and post-RTT questionnaires.

Goal 2: To assess language use, attitudes, and vitality among Marwari, Merwari, and Godwari speakers. Research questions:

In what domains is the mother tongue used among the (a) Merwari; (b) Godwari; (c) Marwari speakers in other districts of the language area?

What language attitudes are held among the (a) Merwari; (b) Godwari; (c) Marwari speakers in other districts of the language area?

Research tools:

Questionnaires, informal interviews, and observations.

Goal 3: To determine levels of Hindi bilingual proficiency among Marwari, Merwari, and Godwari speakers.

Research questions:

What are tested levels of Hindi proficiency among Marwari, Merwari, and Godwari speakers? What are self-reported Hindi abilities among Marwari, Merwari, and Godwari speakers? Research tools:

Hindi Sentence Repetition Testing (SRT) and questionnaires.

#### 2 Dialect areas

#### 2.1 Lexical similarity

#### 2.1.1 Introduction

A common method of measuring the relationship among speech varieties is to compare the degree of similarity in their vocabularies. This is referred to as lexical similarity. Speech communities that have more terms in common (thus a higher percentage of lexical similarity) are more likely to understand one another than speech communities that have fewer terms in common, though this is not always the case. Since only elicited words and simple verb constructions are analysed by this method, lexical similarity comparisons alone cannot indicate how well certain speech communities understand one other. It can, however, assist in obtaining a broad perspective of the relationships among speech varieties and give support for results using more sophisticated testing methods, such as comprehension studies.

#### 2.1.2 Procedures

The instrument used in determining lexical similarity in this project was a 210-item wordlist, consisting of items of basic vocabulary, which has been standardised and contextualised for use in surveys of this type in South Asia. These wordlists were transcribed using the International Phonetic Alphabet (IPA). Transcriptions are shown in Appendix B.

Using the lexical similarity counting procedures described in Blair (1990:30–33), two speech varieties showing less than 60 per cent similarity are unlikely to be intelligible and may be considered as two different languages, or at least as very different dialects (Blair 1990:20). For speech varieties that have greater than 60 per cent similarity, intelligibility testing should be done to determine their relationship.

#### 2.1.3 Site selection

Twelve wordlists were compared in this study. Eight were collected during the fieldwork for this survey. The three Shekhawati wordlists, originally collected in 2002, were rechecked. A standard Hindi wordlist was also included. Table 1 summarises information about these wordlists. Map 1 in Appendix A shows the locations<sup>2</sup> of these villages.

Language area Village **Tehsil District** Marwari Mukheri Phalodi Jodhpur Pokhran Gomat Jaisalmer Fatehgarh Jaisalmer Jaisalmer Bikaner Bikaner Husangsar Merwari Degana Degana Nagaur Godwari Kherwa Pali Pali Bagra Jalore Jalore Pali Falna Bali Shekhawati Bhagatpura Udaipurwati Sikar Badagaon Jhunjhunu Jhunjhunu Chalkoi Churu Churu Hindi (Standard)

Table 1. Speech varieties and locations of wordlists compared in this study

#### 2.1.4 Results and analysis

According to Blair (1990:24), speech varieties that have less than around 60 per cent lexical similarity (using the counting procedures described in Appendix B) are unlikely to be intelligible and can generally be considered different languages. For speech varieties that have greater than around 60 per cent lexical similarity, there is the possibility that they could be combined under one language development programme; however, intelligibility testing should be done to clarify that possibility.

Table 2 shows the lexical similarity percentages matrix for all speech varieties compared in this study. The wordlists are arranged by language group and then in generally descending order. Village name and district are given for each wordlist except standard Hindi.

<sup>&</sup>lt;sup>2</sup> A *tehsil* is an administrative unit that consists of a city or town that serves as its headquarters, possibly additional towns, and a number of villages. As an entity of local government, it exercises certain fiscal and administrative power over the villages and municipalities within its jurisdiction. It is the ultimate executive agency for land records and related administrative matters. Its chief official is called the *tehsildar* or *talukdar*.

#### Table 2. Lexical similarity percentages matrix

```
Marwari – MukheriĠ Jodhpur

87 Marwari – Gomat, Jaisalmer

80 85 Marwari – Fatehgarh, Jaisalmer

76 74 72 Marwari – Husangsar, Bikaner

76 72 69 76 Merwari – Degana, Nagaur

74 71 70 71 75 Godwari – Kherwa, Pali

70 66 66 65 66 70 Godwari – Bagra, Jalore

63 65 65 62 62 70 71 Godwari – Falna, Pali

69 66 64 77 81 70 62 55 Shekhawati – Bhagatpura, Sikar

62 62 61 76 71 62 53 52 76 Shekhawati – Badagaon, Jhunjhunu

63 63 63 76 69 63 56 54 75 78 Shekhawati – Chalkoi, Churu

54 55 53 64 57 58 54 49 57 68 61 Hindi
```

Most of the wordlists show lexical similarities between approximately 60 and 80 per cent. This signifies few clear-cut language boundaries. Nevertheless, we can observe some patterns in the data. In general, wordlists from locations that are closer geographically show higher percentages of lexical similarity than wordlists from locations that are more distant from one another. Refer to Map 2 in Appendix A to see the geographic relationships among the wordlist locations.

Within the Marwari varieties, the similarities are 72 to 87 per cent. Excluding Husangsar, the similarities of Marwari varieties are 80 per cent and above. Husangsar probably showed the lowest similarities because this village is located in the far north of the Marwari region. With one exception, Husangsar showed the highest similarities (76 to 77 per cent) with the Shekhawati varieties, likely because of geographic proximity.

The three Godwari varieties are 70 to 71 per cent similar to each other, and are 62 to 74 per cent similar to the Marwari varieties. From among the Godwari varieties, the Kherwa wordlist is the most similar to the Merwari wordlist (75 per cent) and also to the Marwari wordlists (70 to 74 per cent).

The three Shekhawati varieties are 75 to 78 per cent similar to each other. Excluding Husangsar, the Shekhawati wordlists show 61 to 69 per cent similarities with the other three Marwari wordlists. They show 52 to 70 per cent similarities with the Godwari wordlists. The highest lexical similarity (70 per cent) between Shekhawati and Godwari varieties is found in the wordlists from the two closest villages, Bhagatpura and Kherwa; the remainder range from 52 to 63 per cent.

Hindi stands more distinct from all these varieties, with the following lexical similarity percentages: 53 to 64 per cent with Marwari, 57 per cent with Merwari, 49 to 58 per cent with Godwari, and 57 to 68 per cent with Shekhawati. Hindi has long been considered a separate language, and the people's perceptions also support this.

#### 2.2 Dialect intelligibility

#### 2.2.1 Introduction

It is not easy to define the terms 'language' and 'dialect.' These terms are used in different ways. Common usage often applies the term 'language' to the large, prestigious languages that have an established written literature. The term 'dialect' is then used for all other speech varieties. Some linguists

<sup>&</sup>lt;sup>3</sup>The exception is the 81 per cent similarity between the Degana Merwari wordlist and the Bhagatpura Shekhawati wordlist.

<sup>&</sup>lt;sup>4</sup>The similarities found on the 2012 Rajasthani survey (Samuvel et. al. 2012:23) were 74 to 77 per cent.

use 'language' to refer to speech varieties that share similar vocabularies, phonological and/or grammatical systems. Many times, the sense in which the two terms are used can vary.

The researchers believe that an important factor in determining the distinction between a language and a dialect is how well language speakers can understand one another. Low intelligibility<sup>5</sup> between two speech varieties, even if one has been classified as a dialect of the other, means that at least one group has difficulty in understanding the other (Grimes 2000:vi). Thus comprehension testing, which allows a look into the approximate understanding of natural speech, was an important component of this research.

#### 2.2.2 Procedures

One of the main research questions of this survey was whether the Jodhpur variety of Marwari was intelligible and acceptable to speakers of other Marwari varieties, as well as to Merwari and Godwari speakers. The intelligibility and acceptability of Shekhawati also needed to be established. To determine the answers to these questions, the comprehension of the Jodhpur Marwari story among Merwari and Godwari speakers was tested; comprehension of a Shekhawati story among Marwari speakers was also tested. This study of dialect intelligibility was pursued using Recorded Text Testing (RTT). Four stories were employed, one from each language group. Three of the stories were from the 2012 Rajasthani survey (Samuvel et. al.) and one story-Merwari-was newly developed during this survey. Table 3 provides information about the villages where these stories were recorded.

Language	Name of story	Source village	District
Marwari	Festival story	Manakalav	Jodhpur
Merwari	Ghost story	Degana	Nagaur
Godwari	Travel story	Bagseen	Sirohi
Shekhawati	Snake story	Piprali	Sikar

Table 3. Name, location, and origin of stories utilised in this project

Recorded Text Testing (RTT)<sup>7</sup> is one tool to help assess the degree to which speakers of related linguistic varieties understand one another. In the standard procedures for this test, a three- to five-minute natural, personal experience narrative is recorded from a mother tongue speaker of the speech variety in question. Comprehension questions are developed and interspersed through the text. The test is then evaluated with a group of mother tongue speakers from the same region by a procedure called Hometown Testing (HTT). This ensures that the story is representative of the speech variety in that area and that the questions are suitable to be used for testing in other sites. Thus, a validated HTT<sup>8</sup> produces an RTT that can be used among speakers of other varieties. In each location, subjects must be screened with a control test, usually an HTT developed in their own speech variety.<sup>9</sup> This helps ensure that any

<sup>&</sup>lt;sup>5</sup>'Intelligibility' is a term that has often been used to refer to the level of understanding that exist between speech varieties. O'Leary (1994) argues that results of Recorded Text Testing should be discussed as comprehension scores on texts from different dialects, not as intelligibility scores nor as measures of 'inherent intelligibility'. Thus the term 'intelligibility' has been used sparingly in this report, with the term 'comprehension' used more frequently. <sup>6</sup>During the 2012 Rajasthani survey (Samuvel et. al.), a Jodhpur Marwari text was tested among Godwari speakers in Sirohi district and Shekhawati speakers in Sikar district. The results indicated unlikely intelligibility. Testing was attempted among Merwari speakers but could not be completed. For the sake of clarification and confirmation, we decided to conduct an intelligibility study on this survey that included testing the original Jodhpur Marwari story among Godwari speakers in Pali and Jalore districts as well as among Merwari speakers.

<sup>&</sup>lt;sup>7</sup>For a full description of standard RTT procedures, refer to Casad (1974) and Blair (1990).

<sup>&</sup>lt;sup>8</sup>Because the HTT is in the local mother tongue variety of the subjects, the overall average should ideally be 100 per cent, but an average as low as 90 per cent is acceptable.

<sup>&</sup>lt;sup>9</sup>Ideally, an individual subject should score 100 per cent on the HTT before being allowed to take an RTT, but an individual score as low as 80 per cent is acceptable.

difference between their performance on the control test and an RTT is due to a difference in their comprehension of the speech variety represented on the RTT, rather than due to misunderstanding the testing procedure itself.

Ten people is considered the minimum number to be tested on an RTT to ensure statistical validity. As the questions are asked, the subjects' responses to the story questions are noted down and scored. A person's score is considered a reflection of his comprehension of the text, and the average score of all subjects at a test point is indicative of the community's intelligibility of the speech variety of the story's origin. Included with the test point's average score is a calculation for the variation between individual subjects' scores, or standard deviation, which helps in interpreting how representative those scores are.

In this survey, the researchers used three stories for testing in each site. We began with the preliminary 'cow story' (Blair 1990:78), which is used to help familiarise subjects with the test-taking procedure. This was followed by a control test in the mother tongue of the subjects. The final test was either the Marwari or Shekhawati RTT, The only exception to this story sequence was in the Marwari area. Since we were not able to collect another story for development as an HTT in each location, we extended the four-sentence 'cow story' to eight sentences. This 'extended cow story' was used as the control test for Marwari subjects.

In the RTTs used in this survey, the number of questions ranged from ten to 12. This is because the questions inserted in the stories had to be translated into the local speech variety. Sometimes, we got a wrong translation or inappropriate wordings. In such cases, that particular question was not counted.

After each story, subjects were asked questions such as how different they felt the speech was and how much they could understand. These subjective post-RTT responses give an additional perspective for interpreting the objective test data. If a subject's answers to these questions are comparable with his or her score, it gives more certainty to the results. If, however, the post-RTT responses and test score show some dissimilarity, then this discrepancy may need to be investigated.

#### 2.2.3 Site selection

Table 4 lists the villages where the stories were tested. See Map 3 in Appendix A for the locations of these villages.

Language Village Tehsil **District** Marwari Mukheri Phalodi Jodhpur Pokhran Jaisalmer Gomat Barmer Ranigaon Barmer Husangsar Bikaner Bikaner Merwari Degana Degana Nagaur Badlya Ajmer Ajmer Godwari Jalore Jalore Bagra Bali Pali Falna Kherwa Pali Pali

Table 4. RTT sites in the Marwari, Merwari, and Godwari regions

#### 2.2.4 Demographic profiles of the RTT sites

#### Mukheri

Mukheri is located near a state highway. The transport facilities to the village are comparatively good. The village is situated twelve kilometres from Phalodi in Jodhpur district. The climate of the place is completely dry. There is a temple here that has existed for around 500 years. It is said that the people here migrated from Jaisalmer about 350 to 500 years ago, and they claim linguistic similarity with Jaisalmer more than with other districts. According to the 2001 census, the population of the village is about 4,700.

#### Gomat

This village is around five kilometres from Pokhran, a *tehsil* headquarters that is known as India's nuclear testing site, and also around ten kilometres from the district boundary. Transport facilities to the village are very poor, though the roads are good. Muslims and Hindus live together in this village. The Muslims are the ones who manage most of the businesses.

#### Ranigaon

This village is located around twenty kilometres south of Barmer town. This is the hilly part of the district. The village is well connected with the main road and frequent bus services are available. According to the 2001 census, the population of the village is 6,000, with 600 houses. The village has two government schools: one is up to tenth standard and the other is primary. The women are less educated (30 per cent) compared to men (90 per cent).

#### Husangsar

Husangsar is a rural village located three kilometres from National Highway 11 and fifteen kilometres from Bikaner district headquarters. Transport facilities are very poor. Camel cart is the common mode of transport for the local people. Outsiders can get to the village by hiring an auto rickshaw (a three-wheeler taxi) in the district headquarters. According to the 2001 census, the population is 1,655.

#### Degana

This village is situated five kilometres from Degana *tehsil* headquarters and is near the State Highway. Around five per cent of the total population of this village are outsiders. Among the villagers, some educated men are proficient in English as well. The villagers are suspicious towards visitors. The famous tourist place Pushkar is around fifty kilometres from this village.

#### Badlya

Badlya is a village situated around thirteen kilometres away from Ajmer district headquarters. The village is divided into two parts: old and new. The old part is in the interior, and transport facilities to this part are very poor; only one bus service is available. Transport facilities to the new part are comparatively good They have one government school and a primary health centre. According to the 2001 census, the population of the village is 4,106.

#### Bagra

Bagra is a rural village located around twenty kilometres south of Jalore district headquarters. Since the village is located by the State Highway, transport to the village is good. Jeeps, buses, and autos are the common modes of transport. The village has several schools up to 12<sup>th</sup> standard, and also a primary health centre and other amenities. Most of the men (60 per cent) in the village go out on business. The researchers found it difficult to get uneducated young subjects for administering the RTTs here. According to the 2001 census, the population of the village is 10,000.

#### Falna

This village is five kilometres from Bali *tehsil* headquarters. Transport facilities to the village are good. The researchers observed that most of the villagers here are bilingual in Hindi. They claim to be Godwari speakers. Most of the people have been outside the village on business.

#### Kherwa

Kherwa is an interior village situated around 22 kilometres from Pali district headquarters. Though it has a population of more than 5,000, the houses are scattered widely throughout the area. The village has one government hospital and two schools.

#### 2.2.5 Results and analysis

Table 5 shows the RTT results. The columns of the table list each story used for testing, and the rows list the language groups among whom testing was done.

Table 5. RTT results among Marwari, Merwari, and Godwari speakers

Stories	tested →		Marwari	Merwari	Godwari	Shekhawati	Extended
<b>↓</b> T	est sites		story	story	story	story	cow story
Marwari	Mukheri	avg				53	96
		sd				23	6
		n				12	12
	Gomat	avg	90				98
		sd	10				10
		n	14				14
	Ranigaon	avg	83				97
		sd	16				6
		n	15				15
	Husangsar	avg	74				79
		sd	14				14
		n	10				10
Merwari	Degana	avg	97	98			
		sd	5	4			
		n	12	12			
	Badlya	avg	82	83			
		sd	9	11			
		n	11	11			
Godwari	Bagra	avg	88		95		
		sd	11		6		
		n	13		13		
	Falna	avg	92		95		
		sd	11		6		
		n	12		12		
	Kherwa	avg	88		86		
		sd	9		10		
		n	13		13		

In interpreting RTT results, three pieces of information are necessary. The first is average percentage (shown as 'avg' in table 5), which is the mean or average of all the participants' individual scores on a particular story at a particular test site. Also necessary is a measure of how much individuals' scores vary from the community average, called standard deviation (shown as 'sd' in table 5). The third important piece of information is the size of the sample, that is, the number of people that were tested (shown as 'n' in table 5). In addition, a sample should include people from significant demographic categories, such as both men and women, younger and older, and educated and uneducated.

Since results of field-administered methods such as Recorded Text Testing cannot be completely isolated from potential biases, O'Leary (1994) recommends that results from RTTs not be interpreted in terms of fixed numerical thresholds, but rather be evaluated in light of other indicators of intelligibility such as lexical similarity, dialect opinions, and reported patterns of contact and communication. In general, however, RTT mean scores of around 80 per cent or higher with accompanying low standard deviations (usually ten and below; high standard deviations are about 15 and above) are usually taken to indicate that representatives of the test point dialect display adequate understanding of the variety represented by the recording. Conversely, RTT means below 60 per cent are interpreted to indicate inadequate comprehension.

The relationship between test averages and their standard deviation has been summarised by Blair (1990:25) and can be seen in table 6.

Table 6. Relationship between test averages and standard deviation

		Standard Deviation			
		High	Low		
	High	Situation 1	Situation 2		
Average Score		Many people understand the story well, but some have difficulty.	Most people understand the story.		
	Low	Situation 3  Many people cannot understand the story, but a few are able to answer	Situation 4 Few people are able to understand the story.		
		correctly.			

#### Comprehension of the Jodhpur Marwari story

The average scores on the Jodhpur Marwari RTT in all test points ranged from 74 to 97 per cent, with standard deviations from five to 16. These results indicate that Jodhpur Marwari may be intelligible enough for speakers of Marwari, Merwari, and Godwari to share materials developed in Jodhpur Marwari.

This conclusion must remain tentative for Marwari, Merwari, and Godwari speakers in Husangsar, Badlya, and Kherwa respectively. Those subjects did not score adequately on their control tests to allow for clear interpretation of their results on the Marwari RTT. In standard procedure, the overall average score on a control test should be 90 per cent or higher; individuals should score at least 80 per cent before taking an RTT from another location. This helps to insure that any differences between scores on the control test and scores on RTTs are due to lack of intelligibility rather than not understanding the test procedure. Since there was an election in Husangsar village on the day (4 February 2005) the RTT testing was done, the disturbance from the loudspeakers and people walking around may also have affected the results in that location.

Excluding the results from Husangsar, Badlya, and Kherwa, average scores on the Marwari RTT ranged from 83 to 97 per cent, with standard deviations of five to 16. The highest average on the Marwari RTT was 97 per cent, with a standard deviation of five, among Merwari subjects in Degana. This indicates that most subjects in Degana understood the story. This was also the case for Godwari subjects in Bagra and Falna, and for Marwari subjects in Gomat.

Ranigaon subjects had a somewhat lower average score of 83 per cent with a higher standard deviation (16). This shows that many subjects understood the story but a few had difficulty. In this site, four subjects got low scores on the RTT, although they had 100 per cent on the HTT. Therefore, this was not a situation in which they did not understand the testing procedure. These subjects were also from different categories of education, age, and gender.

#### Comprehension of the Sikari Shekhawati story

Marwari subjects in Mukheri scored only 53 per cent on the Sikari Shekhawati RTT, with a high standard deviation of 23. This indicates that many people could not understand the story, but a few were able to answer correctly.

#### Post-RTT responses of Marwari subjects to the Shekhawati story

#### Is the storyteller's speech a little different or very different from your speech?

Though they did not know the exact identity of the language in the story, most people reported there is a difference between their speech and that of the story. The differences pointed out were mostly in pronunciation, style of speaking, and words. Every subject felt the greatest difference was in the pronunciation.

#### How much of the story did you understand?

Half of the subjects said they understood the story fully, but their scores contradicted their claims. For instance, one subject who claimed to have understood everything scored only 20 per cent.

## Which story is most easy to understand — the Shekhawati story or the extended cow story? (The extended cow story was used as the control test in the Marwar area.)

With this question, we wanted to identify the perceived comprehension of the speech varieties as represented in the recordings. It was not surprising that almost everyone said that the extended cow story recorded in Jodhpur Marwari was easier to understand. The only exception was one participant who answered 'both'.

The subjects were also asked which language would be preferable for literature or cassettes to be produced in. To this question, everyone answered that they would want such materials in the language of the extended cow story (Jodhpur Marwari).

#### 3 Language use, attitudes, and vitality

#### 3.1 Introduction

A study of language use patterns attempts to describe which languages or speech varieties members of a community use in different social situations, referred to as domains. Domains are social contexts in which the use of one language variety is considered more appropriate than another (Fasold 1984:183). A study of language attitudes tries to describe people's feelings and preferences for their own language and other speech varieties around them. Language vitality refers to the health of a language and the likelihood that it will continue to be spoken by mother tongue speakers in the foreseeable future. These three factors are important in determining the viability of a particular language and of a language development programme.

#### 3.2 Questionnaire sample

Using a Language Use, Attitudes, and Vitality (LUAV) questionnaire, consisting of 22 questions, we interviewed a total of 108 subjects in eight villages. The questionnaire was administered to individual subjects using Hindi with those who understood it and interpreters from Hindi to other languages whenever necessary. Attempts were made, while selecting the sites, to conduct the interviews at least on the fringes and centre of each of the language areas. Table 7 lists the LUAV sites. Map 4 (Appendix A) shows the locations of these sites.

Table 7. LUAV questionnaire sites and the number of subjects in each site

Language	Name of Village	Name of Tehsil	District	No. of subjects
Marwari	Ranigaon	Barmer	Barmer	12
	Husangsar	Bikaner	Bikaner	14
	Gomat	Pokhran	Jaisalmer	18
Merwari	Badlya	Ajmer	Ajmer	12
	Degana	Degana	Nagaur	11
Godwari	Bagra	Jalore	Jalore	16
	Kherwa	Pali	Pali	12
	Falna	Bali	Pali	13
		108		

#### 3.3 Results and analysis

#### 3.3.1 Language use

Table 8 summarises the languages that subjects reported using in various domains. The columns in the table list the languages and the rows list the questions and the responses.

Table 8. Domains of language use

What language do you use (is used)	Mother tongue	Hindi	Mother tongue and Hindi	Other
With your family members?	96%	1%	3%	0%
In the village?	96%	1%	2%	1%
By children while playing?	94%	2%	3%	1%
At the market?	81%	9%	8%	2%
With neighbouring villagers?	91%	2%	4%	3%
With government officials who speak your language?	97%	2%	0%	1%
With government officials who speak Hindi?	29%	70%	0%	1%
For private prayers, religious ceremonies?	79%	11%	2%	8%
For marriage songs?	94%	1%	2%	3%
In school?	14%	81%	4%	1%

Based on these responses, the mother tongue is widely used in many key domains of life, except at school and with government officials who do not speak the mother tongue. This confirms our observations during the field research that hardly anyone, young or old, spoke Hindi, or any language other than the mother tongue, when speaking to people within their language group.

#### 3.3.2 Language attitudes

Although mother tongue language use appears strong, speakers of Marwari, Merwari, and Godwari were also reported to have high regard for Hindi as the official language of government and education. Therefore we assessed language attitudes as well.

#### What language do you want your children to learn first? (106 respondents)

Just over half of the subjects (52 per cent) want their children's first language to be the mother tongue. Of these subjects, most are uneducated. The people who prefer to teach Hindi to their children first make up 37 per cent of the respondents. The educated wanted to teach Hindi to their children more than the uneducated. The English language follows in the list after the mother tongue and Hindi.

## Which language is best when a mother is speaking to her young child? (107 respondents)

Almost all the subjects (91 per cent) think that the mother tongue is best to use when a mother is speaking to a young child. The rest said 'Hindi'. Interestingly, one woman who did not speak Hindi said Hindi is best to use between a mother and her child.

## Would you like your children to learn to read and write in your language? (107 respondents)

Slightly more than two-thirds expressed a preference for their children to learn to read and write in their mother tongue. Among those who said 'yes', the uneducated made up a slightly higher number than the educated. Among those who said 'no', there were more educated than uneducated. Among the three language groups, the preference of Godwari subjects (one-third) for their children to learn to read and write in the mother tongue is lower than the other groups. There were some reasons mentioned why children should not learn to read and write in their mother tongue — the inability to get a job, the language has not been developed (and there is no script), and the mother tongue is not offered at any university.

#### Will you be happy if your children would speak only Hindi? (106 respondents)

A little over two-thirds (69 per cent) of those asked said that they would be happy if their children spoke only Hindi. Some of the people said they will not be happy because they felt their children they should learn several languages. One of the villagers said he is inspired to learn many languages by a former Prime Minister of India, Mr. P.V. Narasimha Rao, who had learned several languages. Moreover, some pointed out, 'Hindi is for work, but English is better than Hindi.'

## Which language do young people in your village like to use the most? (108 respondents)

Close to two-thirds (62 per cent) said that their mother tongue was the language young people liked to use most. Hindi (30 per cent), as expected, was the next preference. A few people also said that the youths prefer both the mother tongue and Hindi simultaneously. There were some additional comments, such as, 'The uneducated prefer the mother tongue and the educated prefer Hindi.'

#### Which language do you like the most? (107 respondents)

A little over half (53 per cent) of the respondents said their mother tongue was their favourite language. Twice as many of the uneducated as educated said that their language is the best. Hindi (36 per cent) was preferred next after the mother tongue, with twice as many educated respondents preferring Hindi. Among the Godwari, the preference for Hindi is greater than for the mother tongue. Twenty-nine out of 41 Godwari subjects, or 71 per cent, said Hindi was their favourite language.

#### 3.3.3 Language vitality

Only one question was directly asked to assess what speakers of Marwari, Merwari, and Godwari think of the future of their languages.

#### Do you think that the coming generations will speak your language?

Two-thirds of the subjects were confident that their language would continue to be used by the coming generations. To confirm their responses, a few people asked the researchers back, 'Will you forget your mother tongue?'

#### 4 Bilingualism

#### 4.1 Introduction

Hindi, the national language of India, has been the language of education as well the official language of Rajasthan. There is ample literature available in Hindi today. If speakers of Marwari, Merwari, and Godwari are not bilingual enough in Hindi to understand the concepts found in written materials, then vernacular literature development would likely prove beneficial.

Bilingualism refers to the knowledge and skills acquired by individuals that enable them to use a language other than their mother tongue. In any community, different individuals or sections of the community are bilingual to different degrees. It is important to avoid characterising an entire community as though such ability were uniformly distributed. It is more accurate to describe how bilingualism is distributed throughout the community (Blair 1990:51–52).

Motivation (the desire to learn the Hindi language, in this case) and opportunity (exposure to Hindi or contact with Hindi speakers) are two of the most important factors that produce bilingualism. Depending on these factors, different individuals or sections of the community are proficient to varying degrees. The motivation may also be economic, religious, altruistic, or for self-preservation. Contact is related to certain demographic factors such as education, age, and gender.

#### 4.2 Tested levels of bilingualism in Hindi

#### 4.2.1 Sentence Repetition Testing (SRT) procedures

The Hindi SRT (developed by Varenkamp in 1991) consists of eighteen carefully selected sentences recorded in Hindi. The first three sentences are for the subjects to get familiar with the testing situation, while the next fifteen sentences are for the actual test — these sentences are scored. The test starts with short, simple sentences in Hindi, and the sentences become progressively longer and more complex in grammar. The test is administered individually with each subject listening through headphones. Each sentence is played once for each subject and the subject is given the opportunity to repeat the sentence exactly the same way. Each sentence is scored according to a four-point scale (0 to 3) for a maximum of 45

points. Each subject is evaluated on his ability to repeat each sentence accurately. Any deviation from the recorded sentences is counted as an error and one point is subtracted for that sentence, down to zero. A subject's ability to accurately repeat the sentences of increasing difficulty is directly correlated with the ability to speak and understand the language: the higher the score, the higher the bilingual proficiency.

The scores of the subjects were compared with the corresponding Reported Proficiency Equivalent (RPE), which rates the speakers from RPE 0+ (very minimal proficiency) to RPE 4+ (approaching the proficiency level of a native speaker). Table 9 shows the relationship between the SRT scores, the RPE levels, and the proficiency descriptions (Varenkamp 1991:9).

	Ŭ	- 0
Hindi SRT score (out of 45)	RPE level	Proficiency description
44 - 45	4+	Near native speaker
38 - 43	4	Excellent proficiency
32 - 37	3+	Very good, general proficiency
26 - 31	3	Good, general proficiency
20 - 25	2+	Good, basic proficiency
14 - 19	2	Adequate, basic proficiency
08 - 13	1+	Limited, basic proficiency
04 - 07	1	Minimal, limited proficiency
00 - 03	0+	Very minimal proficiency

Table 9. Hindi SRT score ranges with corresponding RPE levels

Hatfield et. al. (2007:3) note that, 'Development of a Sentence Repetition Test (SRT) (Radloff 1991) has resulted in wide employment of this efficient technique for estimating the bilingual proficiency profile of an entire community. The accepted standard is the Oral Proficiency Interview as developed by the U.S. Foreign Service Institute. The Second Language Oral Proficiency Evaluation (SLOPE) was adapted from it by SIL (1987) to be used in preliterate societies.'

Although the RPE uses the same numerical system as the Foreign Service Institute (FSI), the Interagency Language Roundtable (ILR), and SLOPE, it is not identical. Reviews of SRT studies (Hatfield et. al. 2007) have shown that there is not a strict correlation between RPE and these measures of bilingual proficiency. This must be remembered when analysing and interpreting SRT results.

#### 4.2.2 Variables and sampling for SRT

The variables deemed most likely to influence bilingualism in this study were education, age, and gender. Focusing on these characteristics, we investigated the variations between subjects from the following subgroups: educated (5<sup>th</sup> standard and above) and uneducated (0 to 4<sup>th</sup> standard), younger (age 18 to 35) and older (age 36 and above), male and female.

#### 4.2.3 Demographic profiles of the SRT sites

The SRT was administered in four locations: two in the Marwari region and one each in the Merwari and Godwari regions. Table 10 shows the test site information. See Map 5 (Appendix A) for the locations of these villages. Refer to section 2.2.4 for additional demographic details on these sites.

Table 10. SRT sites in the Marwari, Merwari, and Godwari regions

Language region	Village	Tehsil	District
Marwari	Mukheri	Phalodi	Jodhpur
	Husangsar	Bikaner	Bikaner
Merwari	Badlya	Ajmer	Ajmer
Godwari	Bagra	Jalore	Jalore

#### 4.2.4 Results and analysis

Tables 11 to 13 present the Hindi SRT results among Marwari, Merwari, and Godwari speakers according to the demographic variables of education, age, and gender. The key for the abbreviations used in these tables is: n = number of subjects, avg = average score, RPE = RPE level, sd = standard deviation.

Table 11. SRT results of Marwari subjects according to education, age, and gender

		Educated	Uneducated	Total
Male	Younger	n = 30	n = 15	n = 66
		avg = 36	avg = 30	avg = 32
		sd = 7	sd = 8	sd = 9
		RPE = 3 +	RPE = 3	RPE = 3 +
	Older	n = 8	n = 13	
		avg = 35	avg = 23	
		sd = 8	sd = 9	
		RPE = 3 +	RPE = 2 +	
Female	Younger	n = 3	n = 11	n = 23
		avg = 40	avg = 16	avg = 19
		sd = 4	sd = 8	sd = 11
		RPE = 4	RPE = 2	RPE = 2
	Older	n = 1	n = 8	
		avg = 35	avg = 12	
		sd = 0	sd = 4	
		RPE = 3 +	RPE = 1 +	
To	otal	n = 42	n = 47	
		avg = 36	avg = 22	
		sd = 7	sd = 10	
		RPE = 3 +	RPE = 2 +	

Table 12. SRT results of Merwari subjects according to education, age, and gender

		Educated	Uneducated	Total
Male	Younger	n = 8	n = 5	n = 23
		avg = 32	avg = 23	avg = 28
		sd = 8	sd = 10	sd = 9
		RPE = 3 +	RPE = 2 +	RPE = 3
	Older	n = 4	n = 6	
		avg = 34	avg = 23	
		sd = 4	sd = 8	
		RPE = 3 +	RPE = 2 +	
Female	Younger	n = 3	n = 3	n = 10
		avg = 39	avg = 13	avg = 21
		sd = 2	sd = 3	sd = 10
		RPE = 4	RPE = 1 +	RPE = 2 +
	Older	n = 0	n = 4	
			avg = 19	
			sd = 9	
			RPE = 2	
To	otal	n = 15	n = 18	
		avg = 34	avg = 19	
		sd = 7	sd = 9	
		RPE =	RPE = 2	

Table 13. SRT results of Godwari subjects according to education, age, and gender

		Educated	Uneducated	Total
Male	Younger	n = 19	n = 0	n = 31
		avg = 34		avg = 30
		sd = 6		sd = 9
		RPE = 3 +		RPE = 3
	Older	n = 4	n = 8	
		avg = 33	avg = 20	
		sd = 10	sd = 7	
		RPE = 3 +	RPE = 2 +	
Female	Younger	n = 6	n = 4	n = 12
		avg = 38	avg = 18	avg = 27
		sd = 6	sd = 9	sd = 10
		RPE = 4	RPE = 2	RPE = 3
	Older	n = 0	n = 2	
			avg = 13	
			sd = 5	
			RPE = 2	
To	otal	n = 29	n = 14	
		avg = 34	avg = 18	
		sd = 6	sd = 7	
		RPE = 3 +	RPE = 2	

The patterns of bilingual proficiency are fairly similar among Marwari, Merwari, and Godwari subjects. The general findings are: educated subgroups, irrespective of age and gender, had average scores that were equivalent to RPE level 3+ or 4; uneducated subgroups had average scores that were equivalent to RPE levels ranging from 1+ to 3, depending on age, gender, and location.

Among the uneducated, the male subgroups had average scores that were one-half to one RPE level higher than the average scores for the corresponding female subgroups. This is probably because women generally have less contact with Hindi speakers since men, more often, conduct business that requires the use of Hindi.

Since the original development of the Hindi SRT, it has generally been assumed that an RPE level of 3 + is the minimum necessary to be able to use complex written materials in Hindi effectively. Based on the Hindi SRT results, it appears likely that a majority of Marwari, Merwari, and Godwari people, especially the uneducated and women, would fall below this minimum proficiency level.

#### 4.3 Self-reported bilingualism in Hindi

To determine self-reported Hindi bilingual ability, bilingualism questions were also included on the Language Use, Attitudes, and Vitality (LUAV) questionnaire. The summarised responses are given below, along with an analysis of these responses.

#### How many languages do you speak?

Two-thirds of the subjects reported speaking more than one language. The language most commonly reported after the mother tongue was Hindi.

#### How did you learn Hindi?

Among those who said they knew Hindi, 70 per cent of the respondents reported learning it at school. The remainder gave a variety of responses, such as: from the workplace, from travelling, from speaking with outsiders. Only two subjects from all the language groups said they learned Hindi at home.

#### What are the occasions on which you use Hindi?

Almost all subjects reported that they use Hindi with outsiders who come to their villages, such as the researchers for this survey, and when they go out of the villages. Very often they mentioned the name of the nearest town where they visit on a regular basis and speak Hindi.

Is there anyone in your village (Marwari, Merwari, or Godwari)) who speaks only Hindi? No Marwari, Merwari, or Godwari at all?

There were no such people reported in the villages where this research was done.

## Are you able fully to understand the news in Hindi when you listen to the radio or watch television?

	Yes	Other responses
Merwari	80%	Half, and no
Godwari	67%	Half, little bit, no, and not at all
Marwari	53%	Half, little bit, no, and not at all

#### Are there any situations in which you could not answer in Hindi?

	No	Yes	Sometimes
Merwari	65%	35%	0%
Godwari	54%	46%	0%
Marwari	54%	43%	3%

Half or more of the subjects from all three language groups reported that they could fully understand Hindi broadcasts and that there were no situations in which they could not respond in Hindi. A higher percentage of Merwari subjects gave these responses.

#### 5 Summary of findings and recommendations

#### 5.1 Summary of findings

#### 5.1.1 Dialect areas

Twelve different wordlists were compared from the Marwari, Merwari, Godwari, Shekhawati, and Hindi languages. The lexical similarity percentages among varieties of Marwari, Merwari, Godwari, and Shekhawati were nearly all above 60 per cent, indicating potential intelligibility. The lexical similarities of these varieties with Hindi were nearly all below this threshold.

Within and among the Marwari, Merwari, and Godwari varieties, lexical similarity percentages tended to be somewhat higher than the percentages between these wordlists and those from Shekhawati varieties. Geographic proximity seemed to have an influence; wordlists from locations that are closer to each other tend to show greater similarity. The wordlists from all four language areas appear to be distinct from Hindi. Dialect intelligibility testing was necessary to further clarify the linguistic relationship among Marwari, Merwari, Godwari, and Shekhawati.

A Jodhpur Marwari story was tested among speakers of other varieties of Marwari, and among Merwari speakers and Godwari speakers, in a total of nine locations. Some modifications to standard testing procedures had to be made. Nevertheless, the results indicate that Jodhpur Marwari, as represented by the recorded text, was generally well understood by speakers of other Marwari varieties, as well as by Merwari and Godwari speakers, in the test sites.

A Shekhawati story from Sikar district that was tested among Marwari speakers in Mukheri (Jodhpur district) resulted in a low average score (53 per cent) with a high standard deviation (23), signifying that only a few subjects could understand the story adequately. In response to the post-RTT questions, most subjects identified differences in pronunciation and only half of the subjects claimed to have understood the story fully. They also said that they would like to see materials such as books and audio recordings developed in their own speech variety rather than in the Shekhawati variety represented in the story.

#### 5.1.2 Language use, attitudes, and vitality

Marwari, Merwari, and Godwari subjects reported wide use of the mother tongue in many domains: in the family, in the village, at the market, by the children when they play, when speaking to neighbouring villagers, for prayers, and in social gatherings such as marriages. Hindi is used more at schools and at government offices where the officials do not speak the mother tongue.

Attitudes towards the mother tongue were generally positive. However, about half of the subjects also expressed some preferences for Hindi. There is a desire to see the coming generation continue to use the

mother tongue, although Hindi is valued for educational purposes, especially among educated subjects. There is also a fairly strong belief that the mother tongue will indeed continue to be spoken by future generations.

#### 5.1.3 Bilingualism

Community-wide proficiency in Hindi was tested among the Marwari, Merwari, and Godwari people using the Hindi SRT. In each group, the educated subjects had average scores equivalent to RPE level 3+ and above, irrespective of gender, age, and location (near to or far from towns). The educated generally scored higher than the uneducated. Among the uneducated, the average scores and corresponding RPE levels of male subjects were generally higher than those of female subjects. Based on the Hindi SRT results, it appears likely that a majority of Marwari, Merwari, and Godwari people, especially the uneducated and women, would be unable to use Hindi materials effectively.

In response to self-reported bilingualism questions, many subjects felt they could handle Hindi to at least some degree, including understanding radio and television programmes. Merwari subjects expressed somewhat greater confidence in their Hindi proficiency than Marwari and Godwari subjects. Almost all subjects reported learning Hindi in school and using it mainly with outsiders.

#### 5.2 Recommendations

#### 5.2.1 For language development

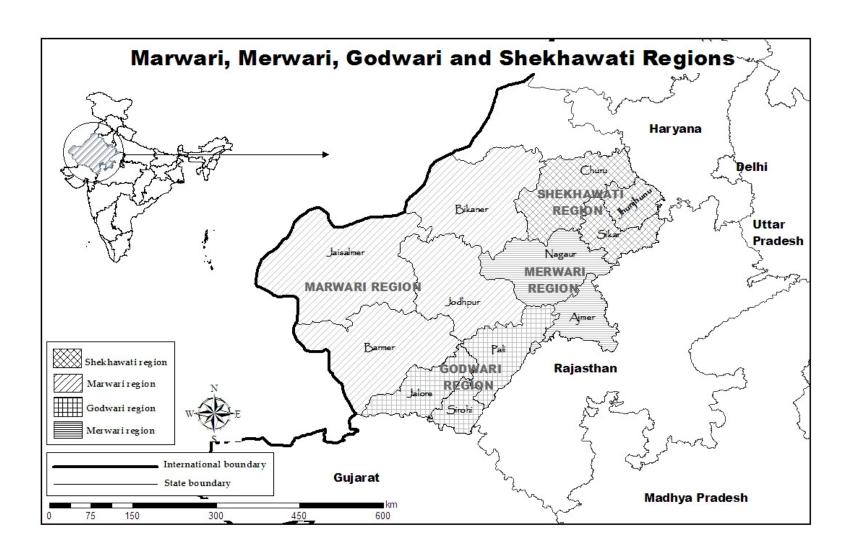
We conclude that the people who speak Marwari, Merwari, and Godwari will be benefited by vernacular language development because the people are probably not sufficiently proficient in Hindi, the mother tongue is used in almost all domains of life, and it is likely that these languages will continue to be viable in the future. Language materials such as books, films, and songs are already being produced in Jodhpur Marwari. It appears that additional materials developed in Jodhpur Marwari should be acceptable and beneficial to Marwari speakers in other regions of Rajasthan, and to Merwari and Godwari speakers as well. Merwari and Godwari speakers do not generally distinguish their languages from Marwari. They like to identify themselves as Marwari speakers.

#### 5.2.2 For literacy

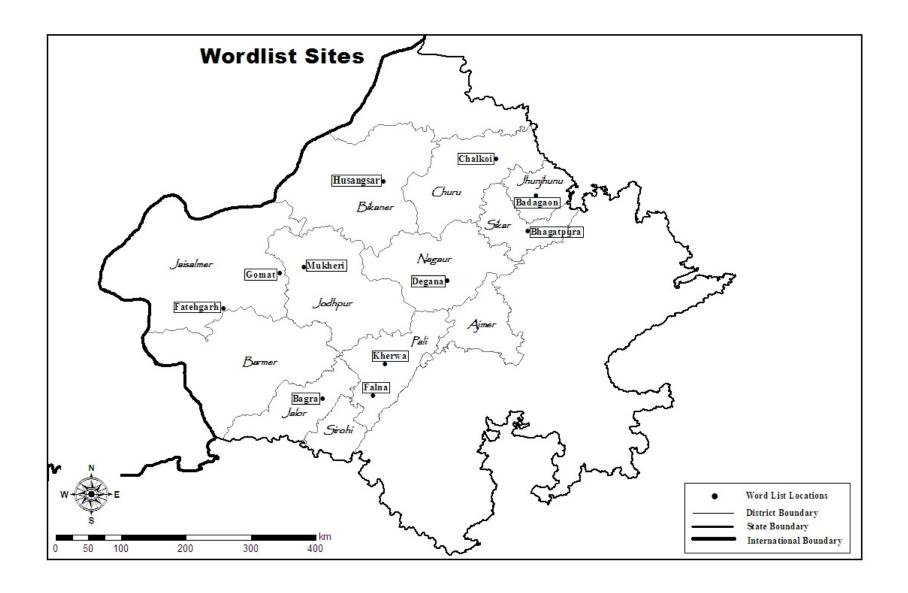
Although Marwari, Merwari, and Godwari people expressed positive attitudes towards Hindi medium education, it is likely that a vernacular literacy programme would be beneficial, especially among the uneducated and those living in more interior villages. Promotion would be an important part of such a programme.

#### Appendix A. Maps

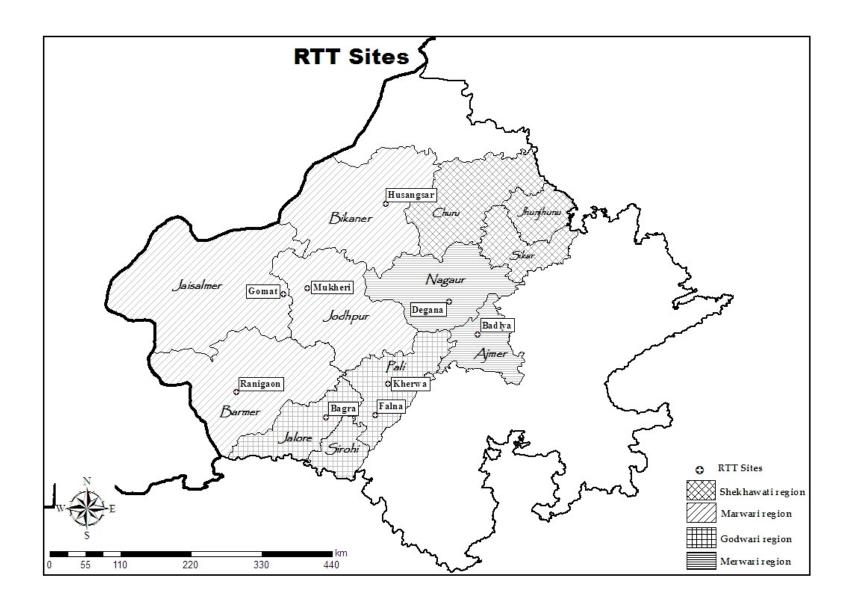
Map 1. Marwari, Merwari, Godwari, and Shekhawati regions



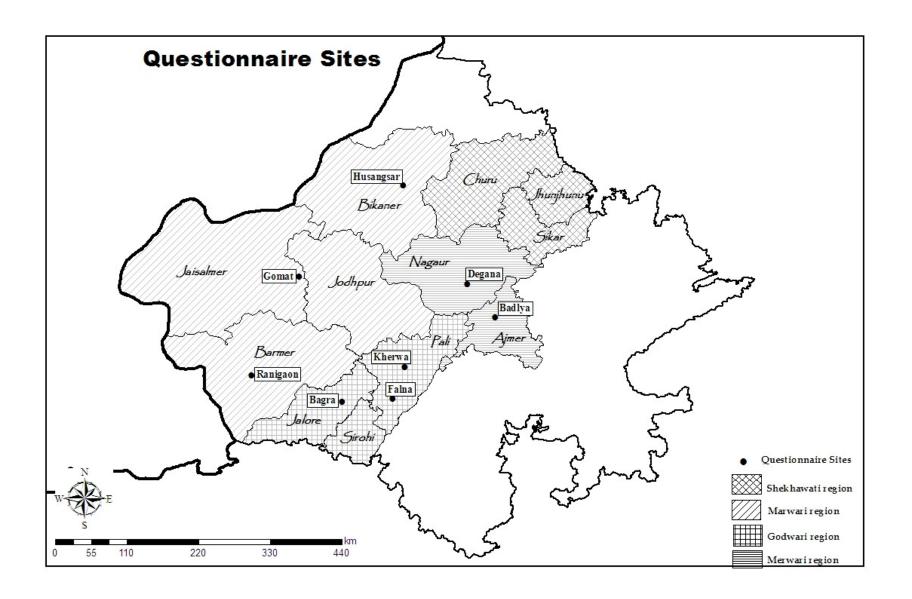
Map 2. Wordlist sites



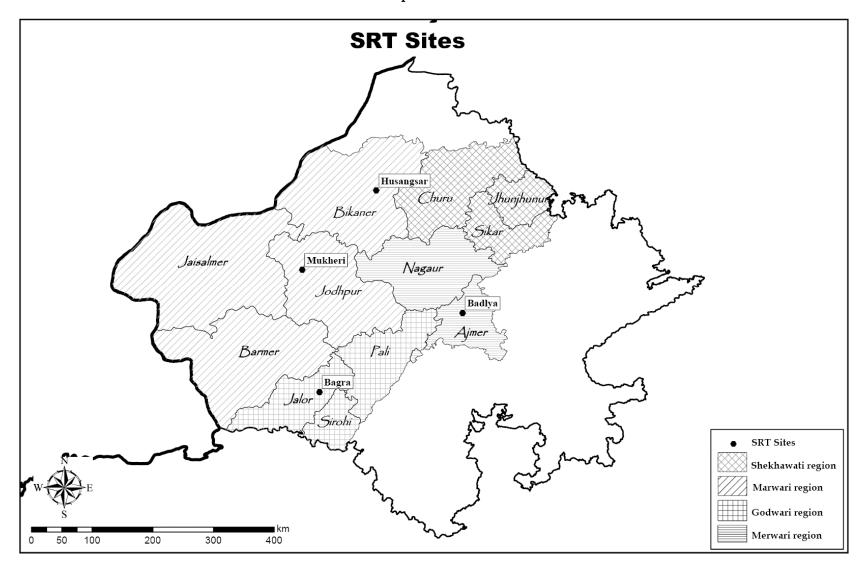
Map 3. RTT sites



Map 4. LUAV questionnaire sites



Map 5. SRT sites



#### Appendix B. Wordlists

#### Lexical similarity counting procedures<sup>10</sup>

A standardised list of 210 vocabulary items was collected from speakers at key locations for each of the language varieties studied in this survey. In standard procedure, the 210 words are elicited from a person who has grown up in the target locality. Ideally, the list is then collected a second time from another speaker. Any differences in responses are examined in order to identify (1) inaccurate responses due to misunderstanding of the elicitation cue, (2) loan words offered in response to the language of elicitation when indigenous terms are actually still in use, and (3) terms that are simply at different places along the generic-specific lexical scale. Normally, a single term is recorded for each item of the wordlist. However, more than one term is recorded for a single item when synonymous terms are apparently in general use or when more than one specific term occupies the semantic area of a more generic item on the wordlist. Some speech varieties, for example distinguished between a small and a large stone, or a holy river from an ordinary river. In these cases, both terms were recorded.

Wordlists were compared using the 'inspection' method in determining whether items with similar meaning were similar phonetically. The comparative method, used to identify genuine cognates based on a network of sound correspondences, was not applied, since the purpose of this study was synchronic in nature.

Various methods have been proposed for deciding whether two forms are similar. The following guidelines outlined by Blair (1990:31–32) were used. Two forms are judged to be phonetically similar if at least half of the segments compared are the same (category 1), and of the remaining segments at least half are rather similar (category 2). For example, if two items of eight segments in length are compared, these words are judged to be similar if at least four segments are virtually the same and at least two more are rather similar. The criteria applied are as follows:

#### Category 1

Contoid (consonant-like) segments that match exactly

Vocoid (vowel-like) segments that match exactly or differ by only one articulatory feature Phonetically similar segments (of the sort that are frequently found as allophones) that are seen to correspond in at least three pairs of words

#### Category 2

All other phonetically similar non-vocalic pairs of segments that are not supported by at least three pairs of words

Vowels that differ by two or more articulatory features

#### Category 3

Pairs of segments that are not phonetically similar

A segment that is matched by no segment in the corresponding item and position

Blair (1990:32) writes, 'In contextualizing these rules to specific surveys in South Asia, the following differences between two items are ignored: (a) interconsonantal [ə], (b) word initial, word final, or intervocalic [h, fi], (c) any deletion which is shown to be the result of a regularly occurring process in a specific environment.'

The following table summarises lower threshold limits for considering words of a specified length (number of segments or phones) as phonetically similar:

<sup>&</sup>lt;sup>10</sup>This description of lexical similarity counting procedures is partially adapted from that found in Appendix A of O'Leary (1992).

Word length	Category 1	Category 2	Category 3
2	2	0	0
3	2	1	0
4	2	1	1
5	3	1	1
6	3	2	1
7	4	2	1
8	4	2	2
9	5	2	2
10	5	3	2
11	6	3	2
12	6	3	3

After pairs of items on two wordlists had been determined to be phonetically similar or dissimilar according to the criteria stated above, the percentage of items judged similar was calculated. This procedure was repeated for all linguistic varieties under consideration in the survey. The pair by pair counting procedure was greatly facilitated by use of the *WordSurv* computer program. It should noted that the wordlist entries are field transcriptions and have not undergone through phonological and grammatical analysis.

Two glosses (number 23 'urine' and number 24 'faeces') were disqualified and removed from the wordlist transcriptions that follow. These words were considered inappropriate in most elicitation situations. One potentially inappropriate gloss (number 11 'breast') was replaced with the word 'chest'.

Symbols used for wordlists in the wordlist transcriptions

Symbol	Language	Village	Tehsil	District
w	Marwari	Mukheri	Phalodi	Jodhpur
g	Marwari	Gomat	Pokhran	Jaisalmer
D	Marwari	Fatehgarh	Jaisalmer	Jaisalmer
E	Marwari	Husangsar	Bikaner	Bikaner
d	Merwari	Degana	Degana	Nagaur
k	Godwari	Kherwa	Pali	Pali
N	Godwari	Bagra	Jalore	Jalore
F	Godwari	Falna	Bali	Pali
В	Shekhawati	Bhagatpura	Udaipurwati	Sikar
A	Shekhawati	Badagaon	Jhunjhunu	Jhunjhunu
P	Shekhawati	Chalkoi	Churu	Churu
h	Hindi (Standard)			

## Wordlist transcriptions

1. body		5. eye	
dil	[ABNPdkw]	eŋk <sup>h</sup>	[Dg]
di:l	[Dg]	ak <sup>h</sup>	[A]
herir	[g]	ak <sup>h</sup> ıjɔ	[F]
Jerir Jerir	[DEg]	aŋk <sup>h</sup>	[E]
∫ərir	[hw]	ãk <sup>h</sup>	[Bgh]
eng	[FP]	ãk <sup>h</sup> ja	[k]
6136	[11]	ãŋkja	[d]
		əŋkja əŋk <sup>h</sup>	[w]
2. head		ogja	[k]
SIC	[AEh]	ok <sup>h</sup>	
cţsm	[DEg]	muk <sup>h</sup>	[N]
maţʰa	[N]		[h]
maţʰɐ	[B]	nen	[P]
maţ <sup>h</sup> ɔ	[FNgw]		
maţɔ	[dk]	6. ear	
k <sup>h</sup> ɔpədi	[A]	kan	[ABEPgh]
kəpdi	[P]	kən	[DFNw]
nopqi	[-]	kanəda	[d]
		kənəda	[k]
3. hair		клича	[K]
Jad	[Dg]		
bal	[hk]	7. nose	
bal	[AEFPdw]	nak	[BDEFNPdghkw]
bali	[BN]	$nak^{\mathtt{h}}$	[A]
dzintv	[D]		
rungițe	[B]	.1	
runţa	[w]	8. mouth	5m3
kes	[P]	mu	[P]
ke∫	[Ed]	mũ	[A]
рлціја	[D]	mũh	[Egh]
dzeta	[B]	mudɔ	[FN]
ajola	[5]	muղզշ	[BDgk]
		mundə	[dw]
4. face		ţ <sup>h</sup> obdi	[P]
$mvk^h$	[h]	əţ	[E]
mũ	[A]		
mũh	[h]	O tooth	
աււղվբ	[g]	9. tooth	[DED]
mu:ndɔ	[Dg]	dant	[DEPw]
mυηdο	[B]	dãţ	[ABdgh]
тлудо	[D]	dot 1~.	[FN]
mudo	[FN]	₫õţ	[k]
munda	[E]		
mundə	[dkw]	10. tongue	
mu:ndɔ	[D]	dʒib	[AEFNPdkw]
muηdo	[B]	dʒib <sup>fi</sup>	[Bgh]
тлогдо	[D]	dʒiban	[D]
munda	[E]	uSibali	נטן
mundə	[dkw]	11. chest	
t∫3həra thabda	[h]	çina	[A]
thopada	[B]	saţ:i	[N]
thopada	[d]	t∫eţi	[d]
ţ <sup>h</sup> obdi	[P]	t∫ati	[EFghw]
∫ikəl	[D]	t∫ <sup>h</sup> aţi	[ABPk]
		<i>y</i> "	

t∫ʰʌt̪i hivud̞ɐ	[D] [B]	nek <sup>h</sup> un nak <sup>h</sup> un nu	[h] [A] [BP]
12. belly			
pεţ	[DEhk]	18. leg	
pet	[ABFNPdgw]	tangədə	[d]
	-	tãg	[h]
19		tong	[N]
<b>13. arm</b> bãh	[h]	ţɔŋgədɔ	[w]
bãn bõ	[h] [D]	peg	[ABEFPdgkw]
		pejr	[h]
haţ haţʰ	[BFNw]	pəir	[h]
kenda	[dgh]	ρλνλ[	[D]
budza	[A]	aŋgḍɔ	[B]
buk <sup>h</sup> ja	[P] [E]	khʊldɔ	[B]
bak ja bavda	[k]		
bãvlje	[B]	19. skin	
Davije	[0]	k <sup>h</sup> al	[A]
		k <sup>h</sup> aledi	[B]
14. elbow		k aleqi k <sup>h</sup> alə	[P]
irkı	[D]	k <sup>h</sup> alədi	[d]
ırk <sup>h</sup> əni	[D]	savudo	[u] [N]
ırkəni	[g]	sobdi	[F]
irkuni	[w]	t∫emədɔ	[d]
akũŋi	[E]	t∫amdi	[E]
k <sup>h</sup> əni	[F]	t∫aməqi	[DEw]
k <sup>h</sup> uղi	[F]	t∫əməda	[b]
k <sup>h</sup> ũηi	[k]	t∫əmbəqi	[g]
kohəni	[h]	t∫əmədi	[k]
koni	[AP]	tjonroqr	[11]
kuni	[BNd]		
		20. bone	5-7
15. palm		ha:d	[E]
eţʰeli	[F]	hadi	[B]
eţţeli	[N]	haddi	[AD]
hetali	[Ew]	hadə	[P]
het <sup>h</sup> eli	[Dg]	həddi	[h]
hɐt̪ʰel̞i	[ANPdk]	hedəki	[g]
hɐt̪ʰeli	[Bh]	hadəka	[dk]
haṫ̀ <sup>h</sup> ali	[F]	hadki	[DFw]
ţ <sup>h</sup> ap	[Ew]	hʌdəku b . dlr .	[N]
·· -		hʌdkʌ	[F]
16 finger			
16. finger	[h]	21. heart	
eguli angali	[A]	dıl	[AEg]
aŋgəli aŋgli	[BEW]	ḍil	[w]
aŋguli	[P]	hɾid̞əi	[h]
ãŋgli	[d]	vưďvi	[N]
əŋgəli	[g]	kɐledʒa	[P]
əŋgəti əŋglijə	[k]	kald35	[Fdk]
õŋgli	[FN]	kʌ[dʒɔ	[D]
ληgli	[D]	dam	[E]
-JOC		hivdə	[B]
17 6			
17. fingernail	[DEFNI - Ll]		
nek <sup>h</sup>	[DEFNdghkw]		
n∧k	[F]		

22. blood		kũadə	[A]
ləi	[DEFNk]	kwiad	[ADw]
lohi	[P]	срия	[E]
loi	[Bdgw]	muŋgedɔ	[g]
loji	[B]	mangedo	191
loji	[A]		
k <sup>h</sup> un		29. firewood	
	[gh]	lekdi	[Pg]
rsktrə	[h]	lakʌdɔ	[N]
		ləkədi	[h]
25. village		t∫εĮdıjã	[d]
gam	[Ad]	t∫ <sup>h</sup> edi	[A]
gamə	[P]	t∫ʰɐ[d̞i	[B]
gom	[F]	kanţi	[A]
gomə	[D]	cjilaq	[Dg]
•	[FN]	belita	[w]
gom gaũ	[Eh]		
		belițe	[B]
gão	[Bk]	kerpa	[F]
gõ	[Dg]	got∫o	[E]
gõu	[w]	gotsa	[k]
		kət∫∧r∧	[D]
26. house		ketpad	[B]
g <sub>v</sub> er	[ADEFPghw]		
g <sub>e</sub> ste	[N]	30. broom	
mekan	[d]	bari	[B]
məkan	[h]	b <sup>fi</sup> ari	[P]
eveli	[A]	buari	[dk]
		buhari	
dzubro	[k]		[A]
helli	[B]	haυληηi	[F]
		savarəni	[N]
27. roof		dʒarɔ	[g]
saţţi	[N]	dz <sup>6</sup> adu	[h]
t∫aţ	[E]	bãŋgri	[E]
t∫ <sup>h</sup> eţ	[g]	bəŋgri	[w]
t∫ʰat̪	[P]	boŋgɾi	[Dg]
tʃʰhət̪	[hk]	ţʌmakku	[F]
•			
dzəpədi	[d]	21	
dagel	[w]	31. mortar	[P]
dagli	[A]	$\mathfrak{d}_{\mathbf{k}}$	[F]
daglo	[DEk]	ok <sup>h</sup> əli	[h]
malje	[A]	ບŋkʰli	[g]
dʒɔpədi	[d]	uk <sup>h</sup> ɐ[ə	[F]
medi	[F]	uk <sup>h</sup> eli	[Dw]
mekən	[k]	ukʰɐ[ɔ	[N]
t∫an	[B]	uŋgli	[E]
dʒupa	[B]	ũk <sup>h</sup> el	[Pk]
		ũkʰal̞ɨ	[B]
20 4004		ũk <sup>h</sup> li	[AE]
28. door	[D]	ũŋgəli	[d]
barəna	[P]	k <sup>h</sup> ərəl	[h]
barno	[B]	u:gi	[F]
dərvaza	[h]	J	
kemad	[FN]		
с:ря	[DE]	32. pestle	
аф	[d]	musel	[EPdkw]
kıwãd	[Edk]	musɐ[ə	[B]
kĩed	[g]	musel	[A]
kivad	[w]	musel	[EPdkw]

muselə musəi lõd <sup>h</sup> a həbilə hobela k <sup>h</sup> əna k <sup>h</sup> əranə məha:i  33. hammer het <sup>h</sup> ədə het <sup>h</sup> oda het <sup>h</sup> odi	[B] [h] [h] [N] [F] [w] [D] [g]  [BNdkw] [F] [ADPg]	37. thread  danaga tagga tagga taga dana dona dona dona dona dona dona don	[h] [P] [A] [Dw] [FNgh] [d] [Eg] [F] [B] [D] [k]
həthodi hathodki ghən tekhni  34. knife sek:u t∫ekku t∫aku	[h] [E] [h] [w]  [F] [ABDENPdgk] [h]	38. needle hui hũi soi soi sui sui ʃeυηi	[Dg] [FNk] [w] [h] [ABP] [d] [E] [d]
tsuri tsurio tsurio tsuri tshuld  35. axe kuwadijo kuwai kwedijo kuadi	[h] [Ew] [w] [g] [E]  [Fd] [g] [Nkw] [P]	39. cloth kepeda kepeda kepeda betka geb:a geb:e gaba gabe gabo	[Pg] [A] [h] [Dw] [B] [Dgkw] [d] [F] [EN]
kuwāi kuwāi kūadi kūadi kulhadi kwādki  36. rope ra rəssi rəssi	[D] [g] [A] [B] [h] [E]	pur  40. ring tʃʰap binti binti viti ĕgutʰi mῦd̞əri mund̞ədi	[A] [DEd] [gw] [FNk] [h] [h]
rahədi rahdi roudu rouduri beri dzevda dzevdi dzevdo bendəno	[g] [w] [N] [D] [A] [B] [APd] [E]	muṇṇedi tʃʰʌlo  41. sun huredʒ huredʒi surdʒi suredʒ suredʒ suredʒ dʌn	[P] [E] [Dgkw] [N] [B] [EPdg] [h] [A] [F]

42. moon		48. cloud	
t∫end	[Dg]	bedel	[g]
t∫and	[ABPdkw]	peďeľ	[DE]
t∫ãď	[h]	badel	[A]
evuquvwv	[N]	badele	[B]
t∫əndrəma	[h]	badəl	[b]
t∫vuďtvmv	[EF]	badəla	[d]
ιյλιιαιλιιιλ	[Er]		
		badli	[P]
43. sky		vadələ	[k]
eke∫	[B]	vadlo	[N]
akaç	[B]	vadla .	[F]
aka∫	[APhk]	un:nen <del>i</del>	[B]
лŋkə∫	[D]		
a:b <sup>6</sup> a	[g]	49. lightning	
cids	[DFw]	bidzəli	[gh]
cqa	[E]	bidzeli	[E]
abu	[Ng]	bidzəli	[w]
		bidʒli	[ABP]
bedel	[g]		
badla	[d]	bidʒ[ijã	[d]
vadələ	[k]	bindzeli	[D]
badla	[d]	vidzəli	[k]
cnpsd	[k]	vidʒli	[F]
vadələ	[k]	bidʒli	[ABP]
		vid3 <del>i</del>	[N]
44. star		vidʒəĮi	[k]
tara	[EFPdhkw]	vidʒĮi	[F]
tare	[B]	gΛttΛ	[E]
	[Ag]		
<b>ř</b> ařs			
toco	[DENG]	En mainbarer	
ţatɔ	[DFNg]	50. rainbow	Γ1 <sub>z</sub> 1
tato	[DFNg]	ď₀suo∫	[k]
taro 45. rain	[DFNg]	ındı.ad <sub>y</sub> ənns q <sub>u</sub> suol	[h]
	[DFNg] [BDEFNdkw]	ındıaq <sub>y</sub> bandı Snue <sub>y</sub> panığ İndayanığ	[h] [APdw]
45. rain	[BDEFNdkw]	inquidsnoc indusquenol indusquenos indusquenos indusquenos indusquenos indusquenos indusquenos indusquenos indusquenos indusquenos	[h] [APdw] [B]
45. rain	[BDEFNdkw] [gk]	dəngga dəngganuş mdrad <sup>6</sup> ənuş indridenuç dəngda	[h] [APdw] [B] [g]
<b>45. rain</b> me mẽ mεj	[BDEFNdkw] [gk] [w]	denol mdradenus mdradenus indridenus dongda dongdo	[h] [APdw] [B] [g] [Dw]
<b>45. rain</b> me me me berk <sup>h</sup> e	[BDEFNdkw] [gk] [w] [B]	denol mdradenus mdradenus mdredenus dongda dongdo dangda	[h] [APdw] [B] [g] [Dw] [E]
<b>45. rain</b> me mẽ mɛj bɛɾkʰɐ bɪɾkʰɐ	[BDEFNdkw] [gk] [w] [B] [BDP]	denol mdradenus mdradenus mdredenus indridenus dongda dongdo dangda tambu tonijo	[h] [APdw] [B] [g] [Dw] [E] [N]
45. rain  me  me  mej  bεrk <sup>h</sup> e  bursat	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad]	denol mdradenus mdradenus mdredenus dongda dongdo dangda	[h] [APdw] [B] [g] [Dw] [E]
45. rain  me  me  mej  berkhe  birkhe  bersat  beros	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h]	denol mdradenus mdradenus mdredenus indridenus dongda dongdo dangda tambu tonijo	[h] [APdw] [B] [g] [Dw] [E] [N]
45. rain  me  me  mej  bεrk <sup>h</sup> e  bursat	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad]	dgenol mdradgenos mdradgenos indridenos dongda dongda dangda twpn touijo dgenadgenos	[h] [APdw] [B] [g] [Dw] [E] [N]
45. rain  me  me  mej  berkhe  birkhe  berjaţ  bərəş  wərşa	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h]	dfenos mdradfenus mdredfenos indridenos dengda dengde dangda tambu tentije dfandferije	[h] [APdw] [B] [g] [Dw] [E] [N] [F]
45. rain  me  me  mej  berkhe  birkhe  bersat  beros	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h]	dfenos mdradfenus mdradfenus mdredfenos indridenos dengda dengde dengda tenbu tentije dfendferije	[h] [APdw] [B] [g] [Dw] [E] [N] [F]
45. rain  me  me  mej  berkhe  birkhe  berjaţ  bərəş  wərşa	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h]	dfenos mdradfenus mdradfenus mdredfenos indridenos dengda dengde dengde tembu tentije dfenos dfenos dfenos dengde tembu tentije dfenos dfenos dfenos dengde tembu tentije dfenos dfenos dengde tembu tentije dfenos dengde tembu tentije dfenos dengde	[h] [APdw] [B] [g] [Dw] [E] [N] [F]
45. rain  me  me  me  me  berkhe  bersat  bersat  bersa  wersa	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h]	dfenos mdradfenus mdradfenus mdredfenos indridenos dengda dengda tambu tenjie dfandfarije  51. wind bairo bajeri bajra	[h] [APdw] [B] [g] [Dw] [E] [N] [F]
45. rain  me  me  me  mej  berkhe  burkhe  ber∫at  bərəş  wərşa  46. water  peni	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h]	dfenos mdradfenus mdradfenus mdredfenos indridenos dengda dengde dengde dangda tambu tenije dfandfarije  51. wind bairo bajeri bajra bajra	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [g] [g] [Ddgw]
45. rain  me  me  me  mej  berkhe  birkhe  bersat  bərəş  wərşa  46. water  peni  pani	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [g] [ABEPd]	dfenos mdradfenus mdradfenus mdradfenos indridenos dengda dengde	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [g] [Ddgw] [Nk]
45. rain  me  me  me  mej  berkhe  birkhe  berjat  beres  wersa  46. water  peni  pani  pani	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [g] [ABEPd]	dfenos mdradfenus mdradfenus mdradfenos indridenos dengda dengde	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [g] [Ddgw] [Nk] [F]
45. rain  me  me  me  mej  berkhe  birkhe  bersat  berss  wersa  46. water  peni  pani  pani  poni	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh] [ph]	dfenos mdradfenus mdradfenus mdradfenus mdredfenus indridenus dengda dengde dangda tambu tentije dfandferije  51. wind bairo bajeri bajra bajra vairo vairo pan	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [Ddgw] [Nk] [F] [E]
45. rain  me  me  me  mej  berkhe  birkhe  bersat  bersa  46. water  peni  pani  pani  poni  puni	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh] [g] [ABEPd] [h] [DFNkw] [g]	dfenos Indradfenus Indradfenus Indradfenus Indradfenus Indradfenus Indridenus Idengda	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [Ddgw] [Nk] [F] [E] [AEP]
45. rain  me  me  me  me  mej  berkhe  birkhe  berjat  bərəş  wərşa  46. water  peni  pani  pani  pəni  puni  puni  dzəl	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh] [g] [ABEPd] [h] [DFNkw] [g]	dfenos mdradfenus mdradfenus mdradfenus indridenus dengda dengde	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [Ddgw] [Nk] [F] [E] [AEP] [h]
45. rain  me  me  me  me  me  berkhe  berfat  beres  wersa  46. water  peni  pani  pani  poni  puni  dual	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fl]  [gl] [ABEPd] [h] [DFNkw] [g] [h]	dfenos mdradfenus mdradfenus mdradfenus mdredfenos indridenos dengda dengde dengda tentos ten	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [pdgw] [nk] [F] [E] [AEP] [h] [E]
45. rain  me  me  me  me  me  berkhe  berfat  beres  wersa  46. water  peni  pani  pani  pani  puni  dzel  47. river  nedi	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh] [g] [ABEPd] [h] [DFNkw] [g] [h]	dfenos mdradfenus mdradfenus mdradfenus indridenus dengda dengde dengda tambu tentije dfandfarije  51. wind bairo bajeri bajra bajre bajre bajre bajre pan pune heva lu peven	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [pdgw] [nk] [F] [E] [AEP] [h] [E] [B]
45. rain  me  me  me  me  me  me  berkhe  berfat  beres  wersa  46. water  peni  pani  pani  pani  puni  dzel  47. river  nedi  nedi	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh]  [g] [ABEPd] [h] [DFNkw] [g] [h]  [ABDENdgkw] [h]	dfenos mdradfenus mdradfenus mdradfenus mdredfenos indridenos dengda dengde dengda tentos ten	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [pdgw] [nk] [F] [E] [AEP] [h] [E]
45. rain  me  me  me  me  me  berkhe  berfat  beres  wersa  46. water  peni  pani  pani  poni  puni  dzel  47. river  nedi  nedi  nedi  nedi	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh]  [g] [ABEPd] [h] [DFNkw] [g] [h]  [ABDENdgkw] [h] [P]	dfenos mdradfenus mdradfenus mdradfenus indridenus dengda dengde dengda tambu tentije dfandfarije  51. wind bairo bajeri bajra bajre bajre bajre bajre pan pune heva lu peven	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [pdgw] [nk] [F] [E] [AEP] [h] [E] [B]
45. rain  me  me  me  me  me  me  berkhe  burkhe  berjat  beres  wersa  46. water  peni  pani  pani  poni  puni  dzel  47. river  nedi  nedi  nedi  nedi  belo	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh]  [g] [ABEPd] [h] [DFNkw] [g] [h]  [ABDENdgkw] [h] [P] [w]	dfenos mdradfenus mdradfenus mdradfenus indridenus dengda dengde dengda tambu tentije dfandfarije  51. wind bairo bajeri bajra bajre bajre bajre bajre pan pune heva lu peven	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [pdgw] [nk] [F] [E] [AEP] [h] [E] [B]
45. rain  me  me  me  me  me  berkhe  bersat  bersa  46. water  peni  pani  pani  poni  puni  dzəl  47. river  nedi  nedi  nedi  nedi  besa	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh]  [g] [ABEPd] [h] [DFNkw] [g] [h]  [ABDENdgkw] [h] [P] [w] [N]	dfenos indradfenos indradfenos indridenos dengde de	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [Ddgw] [Nk] [F] [E] [AEP] [h] [E] [B] [E]
45. rain  me  me  me  me  me  me  berkhe  burkhe  berjat  beres  wersa  46. water  peni  pani  pani  poni  puni  dzel  47. river  nedi  nedi  nedi  nedi  belo	[BDEFNdkw] [gk] [w] [B] [BDP] [Ad] [h] [h] [fh]  [g] [ABEPd] [h] [DFNkw] [g] [h]  [ABDENdgkw] [h] [P] [w]	dfenos mdradfenus mdradfenus mdradfenos indridenos dengde	[h] [APdw] [B] [g] [Dw] [E] [N] [F]  [w] [g] [pdgw] [nk] [F] [E] [AEP] [h] [E] [B]

bet <sub>p</sub> o	[E]	la	[F]
c <sup>h</sup> jsd	[D]	loj	[B]
1 4h -			
bat <sup>h</sup> a	[B]	badi	[w]
bat <sup>h</sup> ɔ	[E]	va:de	[N]
bato	[d]	va:di	[N]
յ ն .			
b <sup>n</sup> ato	[kw]	ba:sţi	[D]
b <sup>h</sup> ɐtʰa	[g]	bʌsli	[D]
b <sup>ก</sup> ั่วซ <sup>า</sup> ั่ง	[g]	basţi	[E]
յ ել <i>յ</i>		DASÇI	լոյ
b <sup>h</sup> at <sup>h</sup> n	[F]		
b <sup>n</sup> at v	[N]	FC1	
pəţţʰər	[h]	56. smoke	
_		d <sup>ĥ</sup> uã	[Dghw]
фv8vф	[DE]	d <sup>ĥ</sup> uõ	[DP]
		d <sup>6</sup> un	[N]
53. path		d <sup>ĥ</sup> uɔ	[F]
goa	[A]	ďΩ	[k]
mareg	[Fgw]	dũa	[E]
•			
mvrd	[DE]	ďũο	[g]
marag	[Ed]	d <sup>ĥ</sup> uηi	[AB]
gelo	[E]	dู้ <sup>ก</sup> ับงลด้ว	[d]
		ų ocaqo	رسا
gellə	[B]		
gelə	[Pd]	57. ash	
re	[A]		
		rak <sup>h</sup>	[hw]
rasţa	[h]	ινκ <sub>μ</sub> νď	[E]
rasţo	[k]	rak <sub>p</sub>	[AP]
resto	[d]		
herijo	[N]	ben:ni	[B]
nerijo	[14]	ban:i	[Ed]
		bani	[A]
F41			
54. sand		boni	[Dg]
reți	[h]	boni	[w]
reți	[Fk]	bʌni	[E]
balu	[BPg]	υοηί	[Fk]
balu	[h]	vani	[N]
belu	[D]	hεli	[N]
		(-	L- · J
bedzri	[BPk]		
bedzri	[A]	58. mud	
du:d	[w]		F2 - 7
d <sup>n</sup> ul	[Dg]	gadɔ	[N]
		ked:e	[g]
dʰu:dɨ	[N]	keďdo	[APw]
d <sup>h</sup> ul	[d]		
du:d	[E]	keďo	[D]
		kad:ɔ	[EFdk]
moţi	[B]	kaddə	[B]
		kado	[N]
55. fire		kit∫əd	[h]
ag	[hk]	gaḍɔ	[N]
badi		keďo	[D]
	[w]		
va:ḍɨ	[N]	kadɔ	[N]
bahədi	[g]	gʌn̞dʌki	[E]
b <sup>ĥ</sup> ahadi	[g]	0 **	
baste	[B]	59. dust	
ba:sţi	[D]		FT71-7
bʌst̪i	[E]	d <sub>y</sub> ndo	[Fk]
		₫ <sup>ĥ</sup> ul	[h]
baɪdjɔ	[d]	d <sup>h</sup> ul	[Pdgw]
baste	[Pw]	d <sup>n</sup> ulə	_
basţe	[A]		[D]
ba:sţi	[D]	dud	[N]
		d <sup>h</sup> ud <u>i</u>	[F]
basţi	[E]	mettə	[A]
			[4 x]

maţi	[B]	64. thorn	
$k^h$ $\Lambda$ n $k$	[E]	kaŋţɔ	[E]
reţ	[BN]	kãnţa	[d]
104	[511]	kãţa	[h]
60. gold		kãţɔ	[ABw]
hɔηɔ	[DFN]	k <sup>h</sup> ⴢŋʈⴢ	[Dg]
hənnə	[Fk]	kəntə	[D]
		kəndə	[w]
hɔṇɔ̃	[w]	kõţo	[k]
hun:o	[g]	koto	[N]
ερισ	[D]	kõţə	[F]
cncs	[w]		
sana	[P]	∫uĮə	[P]
sana	[B]	su:[	[D]
cinos	[d]		
		65. flower	
sona	[AEh]		F1 3
ghena	[g]	φul	[h]
		ful	[APw]
(1 4		p <sup>h</sup> al	[B]
61. tree		p <sup>h</sup> ul	[BDEFdgkw]
rũk <sup>h</sup>	[w]	p <sup>h</sup> uldɔ	[N]
rukdɔ	[k]	բ ալվե	[11]
ruŋgkʰ	[D]		
ruŋkdɔ	[d]	66. fruit	
ruŋkʰd̪ɔ	[g]	fel	[AP]
rũŋkdɐ	[B]	p <sup>h</sup> el	[EFdgh]
rankde rank <sub>p</sub> 9d5		p <sup>h</sup> el	•
	[w]		[Dw]
ďerk <sub>p</sub> eť	[AEP]	$\mathbf{p}_{\mathbf{p}}^{\mathbf{l}}$	[B]
dʒad	[F]	કૃષ્વેવ	[DNk]
dʒadəkə	[N]	lvsvl	[E]
bãţkɔ	[N]		
pεď	[h]		
tʰʌːŋ∫a	[D]	67. mango	
t <sup>h</sup> nhsn	[D]	am	[ABENPh]
LVIII	נען	ambo	[EFdk]
		эbэ	[FN]
62. leaf		cdmc	[Dgw]
peţţa	[DPw]	cdmA	[D]
_		MIIDJ	נען
peţţi	[A]		
bsřťo	[E]	68. banana	
cţţsq	[k]	keļɔ	[ABDEFNdgkw]
pəţţi	[h]	kela	[h]
pʌtʰɔ	[D]		
pona	[F]	kelæ	[P]
ρυη	[g]		
	[D]	69. wheat	
ρλιη			rt.a
panedo	[B]	gãu	[k]
panəda	[d]	gɛhũ	[h]
ponndn	[N]	geu	[d]
		geũ	[ABDw]
		g̃eu	[Dw]
63. root		geũ	[g]
dzed	[DFPghw]	gõu	[F]
dzede	[BE]		
dzedə	[Adk]	gou	[N]
d3od	[N]	kenek	[AEP]
d3vt d3od	[F]	kenek	[Dg]
$u_{\mathcal{S}^{M}}$	[1,]		

70. millet		75. chili	
badzre	[h]	rert∫o c}tnem	[k]
badʒri	[NPdk]	mirt∫	[P]
bad3rə	[ABE]	mırt∫a	[d]
dzev	[FNk]	mıct∫e	[E]
dzever	[Dg]	mıct∫i	[ABN]
dzevara	[h]	mırt∫ɔ	[Dw]
dzəwar	[D]	mırt∫õ	[Dg]
		mırtsi	
dzovar	[w]		[h]
rətʌdija	[D]	mitvq3	[F]
rʌʈʰd̞i	[D]	mırt∫	[P]
kandijo	[E]		
		76. turmeric	
			5 m 3
71. rice		hel <del>i</del> di	[B]
t∫eve[	[B]	heled	[D]
t∫ave[	[EPgkw]	heleď	[g]
tſavɐ]ə	[ANd]	heləd	[D]
t∫avəl	[Fh]	hɐ[əd̞ə	[w]
t∫aveli	[B]	heləği	[AP]
		•	
t∫∧vəl	[D]	eplad	[N]
t∫∧v∧[	[D]	heldi	[EFhk]
		hel <del>i</del> di	[B]
<b>=</b> 0		heldi	[d]
72. potato		hɐ[ədi	[AP]
ellu	[B]	heldi	[EFhk]
elu	[B]		
alu	[DFN]	ΛĮdi	[E]
allu	[A]		
alu	[EPdghkw]	77. garlic	
aru	[Li dgiikw]	lehəsun	[h]
73. eggplant		lesen	[E]
beten peten	[A]	lesen <del>i</del>	[B]
	[P]	lesenə	[ANPdk]
beţau		lesun	[h]
bıntag	[B]	lesen <del>i</del>	[F]
bıntak	[Ddw]	lehenə	[g]
venţag <del>i</del>	[N]	•	
beŋgɐnɨ	[B]	lehana	[w]
bẽgʌn	[E]	t <sub>p</sub> omp	[D]
bẽigən	[h]	t <sup>h</sup> u:mb	[D]
rigna	[F]		
•		70	
гіŋgəղа	[Fdw]	78. onion	<b>61.3</b>
riŋgənʌ	[D]	pjad3	[h]
riŋgŋa	[D]	duŋglijɔ	[D]
riŋgna	[g]	kenda	[P]
riŋŋɔ	[k]	kando	[BEdw]
J C		koda	[F]
		kodo	[N]
74. groundnu	t	"	
mufeli	[A]	kənde	[g]
mufə i	[P]	kəndə	[g]
muŋgɨpʰʌli	[N]	kəṇḍə	[k]
		kʌηdʌ	[D]
mup <sup>h</sup> lijã	[d]	kʌndɔ	[D]
mup <sup>հ</sup> ռ[i	[E]	g <sup>ĥ</sup> aţija	[A]
mũfeli	[Fw]	0 ~[-]"	r1
mũgþeli	[hk]		
mũŋpʰɐḷi	[D]	79. cauliflowe	er
mũp <sup>h</sup> eli	[g]	φulgob <sup>ĥ</sup> i	[Dh]
mũp <sup>h</sup> li	[B]	fulgobi	[Ad]
r t	r~1	1410001	[]

gəbi gopi p <sup>h</sup> ulgəbi p <sup>h</sup> ulgob <sup>h</sup> i p <sup>h</sup> ulgobi	[w] [E] [B] [ghkw] [FNP]	met∫ʰli met∫i mat∫ʰli mʌsʌli	[hk] [DEdw] [F] [N]
ospensis of the second	[DE] [APdgkw] [Bh] [FN]	<b>87. chicken</b> k <sup>h</sup> ũk <sup>h</sup> idi kukḍi kukḍa kukəḍ kukri kūkḍ	[D] [EFNdg] [N] [P] [Dg] [w]
81. cabbage bendgobi	[P]	murgi murgi	[APhk] [B]
gob <sup>fi</sup> i peţ:a gobi peţţe gobi peţţegobi	[h] [dk] [B] [ADEFNgw]	<b>88. egg</b> ɐղվa ɐղվɐ	[APhk]
pon gobi	[F]	endə endə ində	[d] [E]
<b>82. oil</b> t <sup>h</sup> el tεl	[D] [Fh]	iηda iηde iηdo iηdɔ	[E] [g] [Ekw] [Ddg]
ţel	[ABDENPdghkw]	i:dɔ idɔ	[N] [F]
83. salt			
lun	[DEFw]	89. cow	
luŋə	[ABDPdgk]	ga	[Fgw]
mito nemək	[N] [h]	geu	[A]
HEIHAK	[11]	geu	[Pk]
		gn	[D]
84. meat		go	[F]
mas	[EP]	gai	[h]
mãs	[Bw]	gaj	[ABNd]
mos	[FNk]	dviduo	[E]
gfios	[w]	gaudi	[E]
gos	[d]		
gost <sup>h</sup>	[D]	90. buffalo	
gos <u>t</u> gõs	[Dh] [A]	bĥe	[DFg]
moh	[Dg]	bĥẽ	[D]
∫γι 	[E]	bfies	[A]
J	[-]	bfies	[Bdhk]
05.64		k <sup>h</sup> ol	[P]
85. fat	FADEND 1-13	k <sup>h</sup> ol <sup>h</sup>	[E]
t∫erbi t∫orbi	[ABENPdgk]	cbor	[w]
t∫ərbi vesa	[h] [A]	rodo ižbon	[w]
he:r	[Dw]	dogi	[E] [N]
k <sup>h</sup> al	[F]	dzərdi	[B]
K til	[-]	mant∫i	[E]
86. fish			
ile <sup>d</sup> ∫tym	[APw]	91. milk	
met∫ <sup>h</sup> i	[g]	dud	[DFPw]
met∫ʰ[i	[B]	dud <sup>6</sup>	[ABENdghk]

92. horns		96. snake	
hing	[gk]	çjap	[Bd]
hiŋg	[DF]	hãp	[Fk]
siŋ	[Ph]	∫iep	[B]
siŋg	[AD]	sap	[P]
hiŋgdɔ	[N]	sãp	[Nh]
hiŋgədɐ	[w]	saple	[A]
siŋgdɐ	[B]	na:g	[DEg]
singda	[Ed]	плд	[D]
		luηdi	[w]
93. tail		lundi	[g]
punt∫	[P]		
pus	[F]	97. monkey	
put∫ <sup>h</sup>	[F]	crepusq	[B]
pũt∫	[Ak]	pander	[P]
pũt∫ <sup>h</sup>	[DEgh]	bandro	[AEd]
punt∫ <sup>h</sup> əde	[B]	bəndər	[h]
put∫ədi	[w]	anpacd	[g]
put∫∧dɔ	[N]	copnod	[Fw]
pũt∫di	[d]	crepuvq	[D]
		vandərə	[N]
04		lengurjo	[dk]
94. goat	ri-1	lengur	[FN]
cjyj	[k]		
tat	[ABE] [k]	98. mosquito	
cylat		met <sup>h</sup> er	[ADEP]
tetko	[k]	-	
sali toli	[g]	maser	[F]
t∫ali t∫ʰali	[w] [Bd]	mat∫ьct mat∫ec	[Ngkw]
	[DE]	məţt∫ <sup>h</sup> ər	[d]
t∫∧[i bekeri	[DE] [F]	daŋgi	[h] [E]
bakri	[N]	dãs	[B]
bəkeri	[h]	qas	נטן
bakar	[E]		
g <sup>fi</sup> on	[P]	99. ant	
g <sup>fi</sup> oni	[w]	kidi	[ABDEFNPdgkw]
g <sup>6</sup> on	[d]	t∫ĩţi	[h]
g'an:e	[B]	mekoda	[B]
g <sup>n</sup> oni	[Dg]		
gon	[E]	100. spider	
sali	[g]	mekedi	[AEPdghw]
lol	[E]	mekdi	[B]
		mekədi	[DFk]
1		tontijo	[w]
95. dog	5-1	karai	[F]
k <sup>h</sup> uto	[D]	moko	[N]
kuţţɔ	[k]		
kuţ:ɔ	[Dg]	101	
kutro	[F]	101. name	FAT: 41
kuţţa	[h]	nam	[AEdhw]
kuţţo	[W]	navə	[N]
kuţʌɾʌ	[N]	navə	[B]
gendek	[A]	nom	[F]
gentek	[BP]	nomi nom	[N]
gendek	[d]	nom	[k]
gʌnt̪ʌk	[DE]	ņam	[P]

no nu	[Dg] [D]	bapa vabл ad:a	[N] [N] [g]
102. man			
menek	[FNk]	106. mother	
manes	[A]	ma	[ADENPhw]
mın:ek	[BD]	mã	[Bdgk]
mınek	[Bdg]	maţa	[h]
mınək	[P]	bai	[DFNdk]
minek	[Aw]		
$minak^h$	[E]	107. older bro	thor
mληλs	[D]	bija	
manes	[A]	bədab <sup>fi</sup> ai	[g]
mənusjə	[h]	b <sup>a</sup> ai	[h]
mληλs	[D]	b <sup>a</sup> ai sa	[dgw] [d]
admi	[h]	ded:o p <sub>y</sub> ai	[EP]
puroş	[h]	ded:o p <sub>e</sub> aji	[A]
lɔk <sup>h</sup>	[D]	dada p <sub>e</sub> ai	[d]
motjar	[d]	dadə p <sub>u</sub> aji	[B]
		mɔʈɔbʰʌhu	[D]
103. woman		motob <sub>e</sub> ai	[DFNkw]
lugej	[g]	mojom ar	[DIMM]
lugeji	[B]		
lugeji	[dk]	108. younger	
lugei	[D]	bejo	[B]
lugeji	[ADPw]	b <sup>a</sup> ji	[A]
lugni	[EN]	b <sup>f</sup> ajja	[P]
stri	[h]	b <sup>f</sup> ai	[B]
aurəţ	[h]	b <sup>ĥ</sup> aji	[B]
pet	[FN]	t∫ʰoʈabʰai	[h]
ber	[FN]	t∫oţib <sup>ĥ</sup> ai	[N]
DCI	[114]	t∫otɔbʰai	[Ekw]
		nankɔbʰʌjɔ	[F]
104. child		nanob <sup>fi</sup> ai	[k]
SOLV	[F]	nenab <sup>fi</sup> ʌi	[N]
t∫ʰoɾa	[A]	ninijəb <sup>fi</sup> ai	[D]
t∫ɔrɔ	[g]	crid	[d]
bət∫t∫a	[h]	behuda b <sup>fi</sup> ai	[g]
bəlak	[A]		
tinger	[B]	109. older sist	er
taper	[Edkw]	didi	[Ph]
tapər	[g]	dʒidʒi	[ABEPd]
teber	[B]	bəqibəhın	[h]
erdst	[P]	motibehen	[k]
ťv:pvr ·	[DN]	moţibεhan	[F]
ringʌɾija	[E]	moțiben	[DN]
		bei	[w]
105. father		bai	[d]
piţa	[h]	bai	[E]
bep:u	[A]	baji	[g]
bepu	[B]	J	-0-
bap	[ABEFPghkw]	110	-•
bapa	[N]	110. younger	
bãp	[d]	(by name)	[d]
bлp	[D]	behen totibahin	[A]
dʒi	[D]	t∫otibəhin	[h]
bfiaisa	[d]	t∫oţiben	[DN]

behen	[A]	pəţni	[h]
nen:i behen	[k]	b <sup>n</sup> u	[P]
nenki b <sup>fi</sup> лдлп	[F]	bu	[F]
bai	[Pw]	vindəni	[k]
baji	[g]	vindini	[N]
t∫otibəhin	[h]	ber	[FN]
t∫otiben	[DN]		
t∫otididi	[P]		
t∫otib <sup>n</sup> ai	[E]	115. boy	F3.73
baηi	[B]	səkra	[N]
•		Alcs	[N]
444		t∫ <sup>h</sup> ɔrɔ	[D]
111. son	5413	t∫ <sub>p</sub> oca	[B]
beta	[Ah]	t∫ <sup>h</sup> orɔ	[d]
beta	[E]	t∫ɔra	[A]
SOfA	[F]	t∫ɔro	[Ew]
t∫ <sup>h</sup> ɔɾɔ	[B]	t∫ɔr∧	[F]
t∫ <sup>h</sup> orɔ	[d]	t∫orɔ	[gk]
t∫ora	[P]	beta	[P]
t∫oro	[kw]	lədka	[h]
t∫oro	[g]	səkrv	[N]
dikəro	[N]		
cy <sup>d</sup> kib	[D]	116. girl	
diktv	[D]	səkri	[N]
nant∫o	[B]	sori	[N]
		t∫ʰoɾi	[ABDdk]
112. daughter		t∫əkɾi	[D]
beţi	[AEh]	t∫əri	[E]
puţri	[h]	t∫ori	[Fgw]
sori	[F]	beţi	[P]
t∫ <sup>h</sup> ɔɾi	[B]	lədki	[h]
t∫ <sup>h</sup> ori	[d]		
t∫ori	[EPgkw]		
dikri	[N]	117. day	F=1.3
dikərə	[D]	den	[Fk]
dikvιi	[D]	dın	[ABDEPdghw]
beji	[B]	divas	[h]
nant∫oi	[B]	dado	[N]
<del></del>		фафэ	[N]
113. husband			
bind	[E]	118. night	
bi <u>n</u> di bindi	[B]	raţ	[BDEPdghk]
bində	[d]	raţţi	[N]
vində	[Fk]	ťať	[Aw]
mətjar	[FK] [A]	tařtv	[F]
moţijar	[E]		
motjar	[BP]	119. morning	
d <sup>6</sup> εηi	[DNdgw]	hever	[F]
pəţi	[b] [h]	səbera	[h]
gerala	[w]	suar	[P]
kesem	[B]	haverţi	[k]
		hvavrdv	[N]
114. wife		səbera	[h]
lugej	[g]	subah	[Ad]
lugaji	[B]	subəh	[h]
lugaj	[DEPw]	dinog:eji	[B]
lugaji	[ADd]	dingo	[E]

1		104	
dinugijo	[g]	124. tomorrow	
dinnegjo	[w]	kel	[A]
hak <sup>h</sup> li	[g]	kal	[Edh]
hлkəle	[D]	kale	[gk]
hлkʰle	[D]	kΛlε	[N]
b <sub>v</sub> k <sub>p</sub> sts	[D]	3mnsq	[F]
perbaţ	[N]	havere	[k]
ted <del>i</del> kauke	[B]	haunre	[N]
, - · · ·		huvare	[d]
		savare	[D]
120. noon		harek	[w]
bepar	[F]	ţed <u>i</u> ke	[B]
deparo	[w]	•	[AP]
depara	[k]	ţɐdəkɛ	[AF]
dopar	[d]		
dəpãri	[B]	125. week	
dop <sup>h</sup> era	[g]	hep <sup>h</sup> ţa	[h]
dopar	[P]	hepţe	[B]
dopəhər	[h]	hepţo	[Ddgkw]
dupari	[A]	_	[FN]
		hepţa	
dub <sub>p</sub> ero	[E]	hafta	[A]
cuapus	[g]	hapto	[E]
mʌt̪ʰed̪ɪn	[D]	sefţə	[d]
bepaldv	[N]	sepţa	[P]
121. evening/a	ıfternoon	sebře	[B]
∫am	[h]	cţqss	[d]
∫end3a	[A]	sapţa	[A]
sədhja	[h]	səptah	[h]
che <sub>ų</sub> ia	[g]	• "	
-			
aţen	[w]	126. month	
atənje	[B]	mah	[A]
at <sub>p</sub> sus	[Pw]	cpildam	[D]
Λt <sup>h</sup> Ληθ	[DE]	mehina	[P]
hod3	[F]	тејәղә	[g]
hədzra	[N]	cprijam	[Dg]
hoṇḍɾa	[k]	c:nsm	[A]
dınatja	[Bd]	ma <sup>i</sup> no	[E]
		məhina	[h]
10011		men:e	[B]
122. yesterday	r= 13		[B]
kel	[Pgh]	minis	
kelle	[D]	Cinim	[dw] [FNkw]
kal	[ABEd]	mino	[FINKW]
kale	[FNk]		
herek	[w]	127. year	
haunre	[N]	sal	[Ah]
huvare	[d]	pereç	[B]
suvare	[E]	Jaraq Jarad	[BD]
hale	[g]	•	
kelle	[D]	berl	[E]
kale	[FNk]	้อาลด	[g]
Kaic	[FIAK]	บษเ∫	[P]
		กอเริ	[h]
123. today		ายบ	[Fk]
ad <sub>3</sub>	[ABDENPdghkw]	ษายบ	[g]
heno	[g]	กลเ	[P]
лтте	[F]	var	[N]
	[÷]	vərs	[h]
		b <sup>6</sup> ar	[w]
		-	

ายบ	[Fk]	131. bad	
ษายบ	[g]	bura	[B]
var	[N]	buro	[B]
bare min:a	[d]	bura	[A]
bare minə	[w]	bekar	[AP]
		b <sup>ñ</sup> uŋdɔ	[D]
		bundo	[dkw]
128. old		gando	[E]
ρυταηε	[B]	k <sup>h</sup> ərab	[h]
ρυταηə	[P]	k <sup>h</sup> oto	[E]
purana	[h]		
bočaus	[AD]	k <sup>h</sup> odʒo	[N]
ρυΐαυο	[E]	huglo	[g]
dzon:e	[F]	∫ugla 1	[B]
dʒʊn:ɔ	[Dw]	puçijadə	[N]
dzonne	[B]	kujo	[F]
dʒʊnnɔ	[B]		
dzuno	[Nk]	132. wet	
dzun:a	[g]	cls	[B]
dʒuna	[w]	eľ:s	[P]
b <sup>6</sup> od:a	[Eg]	cija	[A]
bud:o	[d]	al:o	[A]
Cipod	լայ	b <sup>f</sup> inə	
			[FN]
129. new		b <sup>f</sup> inກວ	[k]
пеја	[A]	b <sup>h</sup> indʒijədə	[D]
nejo	[B]	bidʒjɛdɔ	[B]
cuan	[FNk]	bid35d5	[Eg]
nəja	[h]	illə	[E]
nəvə	[h]	lilə	[Nw]
nuo	[B]	gila	[h]
กบว	[d]		
ทบบว	[w]	133. dry	
	[E]	huk <sup>h</sup> do	[4]
nuo		•	[g]
nuvo	[Dgw]	hugo	[F]
ņeja	[P]	huk:də	[D]
nu:	[D]	huk <sup>h</sup> ə	[k]
nũ	[w]	huko	[DNw]
		sukedə	[A]
130. good		suk <sup>h</sup> a	[h]
bedije	[A]	suk <sup>h</sup> ɔ	[EPd]
bedija	[B]	sukjedo	[B]
bər <sup>n</sup> ija	[h]	sukedɔ	[A]
sokə	[F]	sukh <sup>h</sup> edə	[d]
t∫ <sup>h</sup> okkɔ	[B]		
t∫ <sup>h</sup> okə	[k]	134. long	
t∫ok3 t∫ok:u		_	[P]
	[A]	lembe	
t∫ok <sup>h</sup> o	[EP]	cdmsl	[ADEdgkw]
t∫okkɔ	[d]	lambo	[B]
c <sup>d</sup> ∫19	[E]	ləma	[h]
et∫t∫ <sup>h</sup> a	[h]	ləbə	[FN]
phutro	[B]	digo	[d]
p <sup>h</sup> utro	[Ndw]	cþþsd	[B]
hek <sub>h</sub> re	[g]		
ca <sup>h</sup> dad	[Dg]	135. short	
hak <sup>h</sup> rɔ	[w]	t∫ <sup>h</sup> o†a	[h]
hoţro	[N]	t∫ <sup>h</sup> o†⊃	[Ew]
hoţro	[N]		
		t∫ɔʈɔ	[A]

tʰikηɔ	[d]	davdo	[w]
t <sup>h</sup> iŋgəŋɔ	[A]	ďлjo	[F]
cpgij	[B]	флифэ	[D]
ot∫ <sup>h</sup> ɔ	[ADEP]	dʒiυηu	[g]
nen:ɔ	[k]	dʒiυυηɔ	[E]
nenkə	[FN]	<b>d</b> лjo	[F]
k <sup>h</sup> at <sup>h</sup> ara	[g]	crvp	[N]
c:bor	[d]	bãvljo	[B]
	[B]	•	
tenjo	[D]	davljo	[d]
136. hot		140. near	
	54.73		F1 3
ţaţɔ	[AB]	pas	[h]
ţaţţa	[P]	nedzdik	[h]
ţaţţɔ	[Ed]	ken:e	[dk]
merag	[h]	ken:ə	[B]
un:a	[k]	kɐŋe	[F]
un:ɔ	[DNdgw]	ken:i	[A]
uno	[F]	nedo	[EFNw]
baltʰɔ	[g]	nedə	[Ddg]
tγbto	[D]	пере	[P]
n 1 t		airo	[w]
137. cold		pakdi	[k]
	[A]		
cjip			
tenda	[P]	141. far	
cþnst	[A]	dur	[Ah]
tado	[Fgw]	aţre	[B]
	=		
cp:a <sup>†</sup> ,	[D]	aţrɔ	[d]
cþns <sup>4</sup> j	[BEdgk]	aŭsad	[P]
t <sup>h</sup> adɔ	[N]	cgls	[DFN]
t <sup>h</sup> ənda	[h]	λlgi	[E]
t <sub>p</sub> ste	[d]	egg	[B]
bas:i	[E]	age	[g]
		ago	[gkw]
138. right		СВУ	[D]
da:dɔ	[g]		
		1.40 1.1-	
сулр	[E]	142. big	
феjэ	[AB]	c:þød	[d]
daja	[h]	cþad	[AE]
dajo	[E]	рефэ	[B]
dehina 💮	[h]	c:þaq	[d]
dehinə	[g]	bede	[P]
dʒevaηa	[w]	cþad	[AE]
dzimηρ			
	[FNk]	bəqa	[h]
dʒivəna	[P]	ajom	[B]
dzivənə	[d]	moto	[DEFNdgkw]
dziveno	[D]	motodo	[k]
		1110[343	「w」
dzivne	[B]		
davljo	[B]	143. small	
			rt. 1
		t∫ <sup>h</sup> ota	[h]
139. left		cjo⁴(t	[AD]
bejo	[A]	t∫ota	[Pg]
baja	[P]	t∫otɔ	[DEdw]
bãja	[h]	t <sub>p</sub> oqo	[B]
bejo	[A]	nankə	[F]
dлjo	[F]	nenkɔ	[N]
dava	[k]	nankɔ	[F]

nenəkjə nenkə	[k] [N]	ʌːt∫ə udʒlə	[D] [N]
k <sup>h</sup> ʌʈɾo	[E]		
		149. black	
144. heavy		kele	[B]
b <sup>6</sup> ari	[FNdgh]	kala	[P]
b <sup>f</sup> arjo	[P]	kale	[g]
b <sup>a</sup> arjo	[A]	kaljo	[B]
$\mathbf{p}_{\mathrm{g}}$ vu	[D]	kalə	[ABEFNdgkw]
b <sup>fi</sup> a:r	[w]	kala	[h]
b <sup>6</sup> ar	[Ew]	kv:ſɔ	[D]
bod3	[B]	kadʒʌlio	[E]
b <sup>6</sup> ari	[FNdh]		
$p_{\rm g}$ vu	[D]	150. red	
pedzeu	[d]	lal	[ABEh]
vedzen	[k]	ļal	[P]
vлdʒini	[N]	ctvi	[D]
		čaťo	[EFNdgkw]
145. light			
hel <del>i</del> ki	[B]	151	
hɐĮəka	[P]	<b>151. one</b> εk	[h]
hɐləkɔ	[ABNdk]	ek	[ABDEFNPdgkw]
helkə	[DEgw]	CK	[ADDEFNAGKW]
helka	[h]		
cra <sup>n</sup> d	[k]	152. two	
$\mathbf{b}_{\mathrm{p}}$	[FN]	ďο	[h]
၁႞၁	[g]	ďэ	[ABEPdgkw]
		be	[Ng]
146. above		bi	[DF]
146. above	[F]		
uper	[F] [Nk]		
nbete nbet	[Nk]	bi <b>153. three</b>	[DF]
uper		bi	
nbst nbst nbst	[Nk] [h]	bi  153. three tin	[DF]
upere upər upər u:n्t∫ɔ	[Nk] [h] [D]	153. three tin 154. four	[DF] [ABDEFNPdghkw]
uper upere uper u:ntso untso	[Nk] [h] [D] [Ek]	bi  153. three tin	[DF]
uper upere uper u:ntso untso ūts:o	[Nk] [h] [D] [Ek] [A]	153. three tin 154. four	[DF] [ABDEFNPdghkw]
uper upere uper u:ntʃɔ untʃɔ ũtʃ:o ũtʃa	[Nk] [h] [D] [Ek] [A] [P]	153. three tin 154. four	[DF] [ABDEFNPdghkw] [ABDEFNPdghkw]
uper upere uper u:ntʃɔ untʃɔ ŭtʃ:o ŭtʃa ŭtʃʰɔ	[Nk] [h] [D] [Ek] [A] [P] [B]	bi  153. three tin  154. four t∫ar	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]
uper upere uper u:ntso untso ŭtso ŭtsa ŭtsho	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw]	153. three tin  154. four tsar  155. five paats pants	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]
uper upere uper u:ntso untso üts:o ũtsa ũtsho ũtso utso matte	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw]	153. three tin  154. four tsar  155. five paats pants pants	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]
uper upere uper uintso uintso ūtso ũtsa ũtsho ũtso matte  147. below	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw]	153. three tin  154. four tsar  155. five paats pants pants pants pats	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]
uper upere uper uper uintso uintso ŭtso ŭtsa ŭtsho ŭtso matte  147. below nitsa	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]	153. three tin  154. four tsar  155. five paats pants pants pats pats pats points poin	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]
uper upere uper uper u:ntso uitso ŭtso ŭtso ŭtso matte  147. below nitsa nitse	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]	bi  153. three tin  154. four tsar  155. five paats pants pants pats points points for pats	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]
uper upere uper uper u:ntso u:ntso ŭts:o ŭtsa ŭtsh o ŭtso matte  147. below nitsa nitse nitsh	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]	153. three tin  154. four tsar  155. five paats pants pants pats pats pats points poin	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]
uper upere uper uper uintso uitso utse utse uptso utse uptso utse utse utse utse utse utse utse utse	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk]	bi  153. three tin  154. four tsar  155. five paats pants pants pats points points for pats	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]
uper upere uper uper u:ntso u:ntso ŭts:o ŭtsa ŭtsh o ŭtso matte  147. below nitsa nitse nitsh	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]	bi  153. three tin  154. four tsar  155. five paats pants pants pats points points for pats	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]
uper upere uper uper uintso uintso utfso utfa utfho utfso utfso matte  147. below nitsa nitse nitse nitso telev te	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk]	153. three tin  154. four tsar  155. five paats pants pants pats poits pants poits pats poss  156. six se	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]
uper upere uper uper uintso uintso utfso utfsa utfso utfso utfso matte  147. below nitsa nitse nitse nitsto telev telev 148. white	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk] [FN]	153. three tin  154. four t∫ar  155. five paãt∫ pant∫ pãt∫ pãt∫ põt∫ põt∫ põt∫ põt∫ põt∫ põt∫ põt∫ põ	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]  [FN]
uper upere uper uper uintso uintso utfso utfsa utfso utfso utfso matte  147. below nitsa nitse nitse nitsto tete 148. white dfevlo	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk] [FN]	153. three tin  154. four tsar  155. five paats pants pants pats poits pants poits pats poss  156. six se	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]  [FN]
uper upere uper uper uints uints  ŭtsio  ŭtsa  ŭtsh  ŭtso  matte  147. below  nitsa  nitse  nitse  148. white  dfevso	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk] [FN]	153. three tin  154. four t∫ar  155. five paãt∫ pant∫ pãt∫ pãt∫ põt∫ põt∫ põt∫ põt∫ põt∫ põt∫ põt∫ põ	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]  [FN]  [F]  [ABDENPdghkw]
uper upere uper uper uper uintso uitso utfso utfso utfso utfso matte  147. below nitsa nitse nitsho nitso ete  148. white dfevelo dfolo dfolo	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk] [FN]	153. three tin  154. four tsar  155. five paats pants pants pats pats pats pats pats pats pats for pats tsar pats for pa	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]  [FN]  [F]  [ABDENPdghkw]
uper upere uper uper uintso uintso uitso utse utse utse uper uintso utse utse utse utse utse utse utse utse	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk] [FN]  [FN]	153. three tin  154. four tsar  155. five paats pants pants pats poits pants poits pats tsar pos  156. six se tsar tsar tsar tsar tsar tsar tsar tsar	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]  [FN]  [F]  [ABDENPdghkw]  [h]
uper upere uper uper uintso uintso uitso utse utse utse uper uintso utse utse utse utse utse utse utse utse	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk] [FN]  [FN]  [FN]  [g] [p] [g] [P]	153. three tin  154. four tsar  155. five paats pants pants pats points pats points pats tsar points tsar pass  156. six se tsar tsar pass pass pass pass pass pass pass p	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]  [FN]  [F]  [ABDENPdghkw]  [h]  [F]
uper upere uper uper uintso uintso uitso utse utse utse uper uintso utse utse utse utse utse utse utse utse	[Nk] [h] [D] [Ek] [A] [P] [B] [Adgw] [N]  [P] [h] [Bw] [ADENdgk] [FN]  [FN]	153. three tin  154. four tsar  155. five paats pants pants pats poits pants poits pats tsar pos  156. six se tsar tsar tsar tsar tsar tsar tsar tsar	[DF]  [ABDEFNPdghkw]  [ABDEFNPdghkw]  [A]  [BEPdgw]  [kw]  [h]  [D]  [D]  [FN]  [F]  [ABDENPdghkw]  [h]

158. eight		166. what?	
at	[ABDEFNPdgkw]	ke	[AP]
at <sup>h</sup>	[h]	kı	[g]
aį	[11]	keji	[B]
		-	
159. nine		keji kej	[w]
neu	[Edghw]	kaj	[d]
บลน	[DF]	kãj	[E]
no	[ABPk]	koi	[k]
nav <del>i</del>	[N]	koi	[F]
		keji	[B]
160 4		keji	[w]
160. ten	FAREBUR 1 1 1	kaj	[d]
ģes	[ABEFNPdgkw]	kãj	[E]
dəs	[h]	kja	[h]
флh	[D]	ki	[D]
		kı	[D]
161. eleven		khñv	[N]
gjar	[F]		
gjare	[BEhk]	167. where?	
gjars	[AP]	ket:e	[d]
igjare	[dgw]	kete	[Fkw]
igjare	[D]	k <sup>h</sup> etε	[B]
igjare	[N]	k <sup>6</sup> et <sup>6</sup> ε	[AE]
iginic		k <sup>h</sup> εt <sup>h</sup> e	[AL]
		k <sup>h</sup> et <sup>h</sup>	[P]
162. twelve			
bere	[DNg]	kΛtε ll-~	[N]
bare	[BEPh]	kəhã	[h]
pare	[Ak]	keţ	[g]
pare	[Fw]	∫id̞:e	[d]
bara	[d]		
		168. when?	
160 +		kede	[N]
163. twenty	r 1	kɐd̞ə	[AP]
bi	[g]	kedi	[k]
bih	[D]	kene	[B]
υi	[F]	kɐŋe	[Eg]
bis	[ABEPdhw]	keno	[g]
vis	[Nk]	kene	[w]
		k∧ηɨ	[F]
164. one hund	red	kvie	[FN]
heo	[g]	kəb	[h]
ho	[DFNkw]	ked:ə	[d]
so	[dh]	kn:d	[D]
SO SO	[ABEP]	kerãŋk	[d]
	[B]	Keraijk	լսյ
sejkeda	נטן		
		169. how man	y?
165. who?		keţra	[k]
$k^h$ uղ	[D]	ketro	[FNk]
kən	[h]	kettə	[B]
kɔηə	[AD]	kıţ:ɔk	[d]
kuni	[B]	kıţţɔ	[DPw]
κυηə	[Pg]	kit <sup>h</sup> ɔ	[Dg]
kuη	[Ekw]	kiţ <sup>h</sup> a	[g]
kuηə	[EFNdw]	kiţok	[E]
		gvushvto	[E]
		9.1110111111	ניין

kıţəne	[h]	υο	[k]
kıţənə	[A]		
		175. same	
170. what kind		ek∫ar	[A]
h dh dh	[D]	ıksar	[B]
k <sub>p</sub> ok <sub>p</sub> st	[g]	ekd3ede	[g]
kiker	[k]	ekdʒada	[w]
kikʌŋɨ	[N]	ekdzedə	[D]
ke karen	[P]	ekdʒı∫e	[P]
kikʌŋɨ	[N]	ekdʒisa	[E]
keja	[A]	ekd3ndn	[DFN]
kəisa	[h]	ekdʒɐnəka	[d]
kedə	[Dgw]	ekdʒada	[w]
kıçjanikə	[B]	ekd3edə	[D]
kıjenəkə	[B]	ekdʒʌdʌ	[DFN]
kijanəkə	[d]	səman	[h]
kvtri dzatre	[F]	ekersaji	[B]
kisok	[E]	ek hirkə	[k]
171. this		176. different	
	[D]		[6]
g	[B]	nare	[E]
e iah	[D]	cieu	[w]
jəh io	[h]	nek:e	[P]
j3	[h]	nek:9	[A]
jo	[AB]	nar nara	[g]
0	[BFdk]	nare	[E]
) otto	[ENPgw]	cieu	[w]
atte	[E]	njero	[B]
		njare	[B]
172. that		njaro	[dk]
bo	[B]	p <sup>h</sup> e:r	[D]
bə	[AEPd]	p <sup>h</sup> ∧r∧k <sup>h</sup>	[F]
0	[Dgw]	ələgələg	[h]
ບວ	[FN]	tas tas	[g]
wo	[h]	bidza bidza	[N]
wəh	[h]		
batte	[E]	177. whole	
vete	[k]	habuţ	[F]
		septo	[d]
170 41		sabet	[A]
173. these	FNTL-1	sabto	[E]
a	[Nk]	sapţi	[B]
0	[dg]	pura	[h]
3	[W]	purηə	[Ph]
e ·	[BDEF]	ako	[k]
je	[ANPh]	hagdɔ	[w]
ajα	[EF]	clgses	[B]
		hẽŋg	[D]
174. those		bado	[N]
βe	[h]	madʒbuţ	[g]
be	[BE]	<u> </u>	-0-
bε	[P]	170 11	
υe	[AFNh]	178. broken	F1 <sub>2</sub> 3
bə	[d]	tutada	[h]
0	[Dw]	tutedo	[Aw]
Э	[g]	tutjodo	[Bd]
	<del>-</del>	tutodo	[N]

tutudə	[E]	$\mathbf{k}^{\mathrm{h}}$ o	[F]
tuţedɔ	[g]	dzimljo	[B]
tutedo	[D]	dzimne	[g]
p <sup>h</sup> utedɔ	[P]	dʒimɔ	[DNPkw]
tutodo	[N]	gitljo	[B]
tutudə	[E]		
p <sup>h</sup> utedɔ	[P]		
р аједр begodo	[Dg]	183. bite!, he	bit
		k <sup>h</sup> agjo	[AEPw]
b <sup>f</sup> ago	[D]	k <sup>h</sup> ajgjo	[Bd]
b <sup>f</sup> agodo	[Nk]	kata	[h]
p <sup>h</sup> ago	[F]	k <sup>h</sup> ed:ɔ	[k]
		k <sup>h</sup> ado	
1 <b>5</b> 0 C			[N]
179. few		t <sup>h</sup> ədijə	[D]
t <sup>h</sup> ɔdɔ	[g]	t <sup>h</sup> oda	[g]
t <sup>h</sup> okko	[F]	kʰʌldijə	[N]
t <sup>h</sup> odo	[d]	vadijo	[F]
t <sup>h</sup> odo	[kw]	berljo	[B]
t odo t <sup>h</sup> odko	[N]	Doiljo	[2]
t <sub>p</sub> odo	[ADw]	184. he is, he	was hungry
ţʰɔdɔk	[E]	b <sup>fi</sup> uk lagi	[Ekw]
ţ <sup>h</sup> oda	[Ph]	b uk lagi b <sup>h</sup> uk <sup>h</sup>	
t∫ınjo	[B]		[Ah]
t∫inj̇̃osɔ	[B]	b <sup>ĥ</sup> uklegjaji	[P]
legarek	[k]	b <sup>h</sup> uk legi	[DN]
•		b <sup>n</sup> uk lagi	[B]
koi	[F]	b <sup>ĥ</sup> uk lagi hε	[F]
		b <sup>h</sup> uka mera	[d]
100 monte		b <sup>h</sup> uk <sup>h</sup> legi	
180. many	[D]	D uk legi	[g]
ŭsto	[B]		
	Corp. 1		
сля	[EFk]	185. drink!. h	e drank
genoji	[A]	185. drink!, h	
• •		pi	[h]
geŋɔjɪ gʰɐŋɔ	[A]	pi pi vã	[h] [d]
geຖວji g <sup>ĥ</sup> ຍຖວ g <sup>ĥ</sup> əຖວ	[A] [DNdg] [D]	pi pi vã pıje pʌɾjɔ	[h] [d] [D]
geກຸວji g <sup>ĥ</sup> eກຸວ g <sup>ĥ</sup> ອກຸວ gວກຸວ	[A] [DNdg] [D] [w]	pi pi vã pıje pʌɾjɔ pıɾja hε	[h] [d] [D] [B]
genoji g <sup>fi</sup> eno g <sup>fi</sup> eno gono behoţ	[A] [DNdg] [D] [w] [h]	pi pi vã pıje pʌɾjɔ	[h] [d] [D]
geກຸວji g <sup>ĥ</sup> eກຸວ g <sup>ĥ</sup> ອກຸວ gວກຸວ	[A] [DNdg] [D] [w]	pi pi vã pıje pʌɾjɔ pɪɾja hɛ pie pʌdijɔ	[h] [d] [D] [B] [D]
genoji g <sup>fi</sup> eno g <sup>fi</sup> eno gono behoţ	[A] [DNdg] [D] [w] [h]	pi pi vã pije parjo pirja he pie padijo pije	[h] [d] [D] [B] [D]
genjii g <sup>fi</sup> enjo g <sup>fi</sup> enjo gonjo behut boljo	[A] [DNdg] [D] [w] [h]	pi pi vã pije pʌɾjɔ pɪɾja hɛ pie pʌdijɔ pije pije	[h] [d] [D] [B] [D] [g] [w]
genjii ghenj ghenj gonjo behot boljo	[A] [DNdg] [D] [w] [h] [ABP]	pi pi vã pije pʌɾjɔ pɪɾja hɛ pie pʌdijɔ pije pije he pije he	<ul><li>[h]</li><li>[d]</li><li>[D]</li><li>[B]</li><li>[D]</li><li>[g]</li><li>[w]</li><li>[F]</li></ul>
genjii ghenjo ghenjo gonjo behot boljo 181. all herai	[A] [DNdg] [D] [w] [h] [ABP]	pi pi vã pije pʌɾjɔ piɾja hɛ pie pʌdijɔ pije pije he pijerijɔ hɛ piɾijɔ hɛ	[h] [d] [D] [B] [D] [g] [w] [F] [N]
genjii ghenji ghenji gonji behut bolji 181. all herai sare	[A] [DNdg] [D] [w] [h] [ABP]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo	<ul><li>[h]</li><li>[d]</li><li>[D]</li><li>[B]</li><li>[D]</li><li>[g]</li><li>[w]</li><li>[F]</li><li>[N]</li><li>[A]</li></ul>
genjii ghenji ghenji gonjo behut boljo 181. all herai sare geglaji	[A] [DNdg] [D] [w] [h] [ABP]	pi pi vã pije parjo puja he pie padijo pije pije he pijerijo he pirijo he pirijo he pirijo	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A]
genjii ghenj ghenj gonj bəhut bolj 181. all herai sare şeglaji segele	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP]	pi pi vã pije parjo puja he pie padijo pije pije he pijerijo he pirijo he pirjo piŭ pive	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E]
genjii ghenji ghenji gonjo behut boljo 181. all herai sare geglaji	[A] [DNdg] [D] [w] [h] [ABP]	pi pi vã pije parjo puja he pie padijo pije pije he pijerijo he pirijo he pirijo he pirijo	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A]
genjii ghenj ghenj gonj bəhut bolj 181. all herai sare şeglaji segele	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piũ pive pive pive	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B]
genjji ghenj ghenj ghenj ghenj gonj gonj behut bolj  181. all herai sare geglaji segele sng:la seb	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E]	pi pi vã pije parjo puja he pie padijo pije pije he pijerijo he pirijo he pirjo piŭ pive	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E]
genjji ghenj ghenj ghenj gonj gonj bohut bolj  181. all herai sare geglaji segele sng:la sob hen	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piũ pive pive pive he pive rjo he	<ul> <li>[h]</li> <li>[d]</li> <li>[D]</li> <li>[B]</li> <li>[D]</li> <li>[g]</li> <li>[w]</li> <li>[F]</li> <li>[N]</li> <li>[A]</li> <li>[E]</li> <li>[P]</li> <li>[B]</li> <li>[k]</li> </ul>
genjji ghenj ghenj gonj gonj gonj bəhut bolj  181. all herai sare geglaji segele sng:la səb hen heng	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piũ pive pive pive	<ul> <li>[h]</li> <li>[d]</li> <li>[D]</li> <li>[B]</li> <li>[D]</li> <li>[g]</li> <li>[w]</li> <li>[F]</li> <li>[N]</li> <li>[A]</li> <li>[E]</li> <li>[P]</li> <li>[B]</li> <li>[k]</li> </ul>
genjii ghenji ghenjii ghenjii ghenjii ghenjii genjii genji	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piũ pive pive pive he pive rjo he	<ul> <li>[h]</li> <li>[d]</li> <li>[D]</li> <li>[B]</li> <li>[D]</li> <li>[g]</li> <li>[w]</li> <li>[F]</li> <li>[N]</li> <li>[A]</li> <li>[E]</li> <li>[P]</li> <li>[B]</li> <li>[k]</li> </ul>
genjji ghenj ghenj gonj gonj gonj bəhut bolj  181. all herai sare geglaji segele sng:la səb hen heng	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw]	pi pi vã pije parjo pirja he pie padjio pije pije he pijerijo he pirijo he pirjo piũ pive pive he pive rjo he pive rjo he	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]
genjii ghenji ghenjii ghenjii ghenjii ghenjii genjii genji	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k]	pi pi vã pije parjo pirja he pie padjjo pije pije he pijerijo he pirjo he pirjo piũ pive pive he pive rjo he pive rjo he	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g]
genjii ghenj ghenj gonj behut bolj 181. all herai sare seglaji segele sag:la seb hen heng henge henge	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]	pi pi vã pije parjo purja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he pive rjo he	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [F]
genjii ghenji ghenjgenjii genjii genjii genjii genjii genjii boljii sare geglajii segele sagila səbhenjii hengii hengii hengii hengii hengii hengii sare gellii segele sagila səbhenjii hengii	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]	pi pi vã pije parjo purja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he tarlagi te lagi he tarlagi tu lage tur lagi	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [F] [gw]
genjii ghenji ghenjii ghenjii ghenjii ghenjii gonjo gonjo bohut boljo  181. all herai sare seglajii segele sagila sob henjii hengi h	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirjo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tir lagi tis lage	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [f] [gw] [d]
genjii ghenji ghenjii ghenjii ghenjii ghenjii gonjo gonjo bohot boljo  181. all herai sare seglajii segele sagila sob henjii henji h	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tir lagi tis lage tis lagi	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [f] [gw] [d] [B]
genjii ghenji ghenjii ghenjii ghenjii ghenjii gonjo gonjo bohot boljo  181. all herai sare seglajii segele sagila sob henjii henji h	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirjo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tir lagi tis lage	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [f] [gw] [d]
genjii ghenj ghenj gonj gonj bohot bolj  181. all herai sare geglaji segele sag:la sob hen heng heng heng heng heng heng heng	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tir lagi tis lage tis lagi	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [f] [gw] [d] [B]
genjii ghenj genji ghenj genji ghenj genji genji genji genji behot bolj sare geglaji segele sagila seb henji henghenjë hëngë hëngë hengë këngë khenghenjë këngë khenghenjë këngë kë	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]  ate [B] [h] [g] [d]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tur lagi tusajilagətihe tislegi	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [F] [gw] [d] [B] [A] [E]
genjii ghenj ghenj gonj gonj bəhut bolj  181. all herai sare şeglaji segele saglaji segele sagla	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]  ate  [B] [h] [g] [d] [ABP]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tur lagi tusajilagətihe tislegi tislagi	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [F] [gw] [d] [B] [A] [E] [P]
genjii ghenj ghenj ghenj gonj bohot bolj  181. all herai sare geglaji segele sagila sob hen heng heng heng heng heng kheng heng khale khale khale khale	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP]  [E] [h] [D] [DFNw] [k] [g]  ate  [B] [h] [g] [d] [ABP] [g] [h] [h] [g] [h] [h] [g] [h] [h] [h] [h] [h] [h] [h] [h] [h] [h	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tur lagi tusajilagətihe tislegi	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [F] [gw] [d] [B] [A] [E]
genjii ghenj ghenj gonj gonj bəhut bolj  181. all herai sare şeglaji segele saglaji segele sagla	[A] [DNdg] [D] [w] [h] [ABP]  [N] [B] [d] [ABP] [E] [h] [D] [DFNw] [k] [g]  ate  [B] [h] [g] [d] [ABP]	pi pi vã pije parjo pirja he pie padijo pije pije he pijerijo he pirijo he pirijo piŭ pive pive he pive rjo he tarlagi te lagi he thar lage tur lagi tusajilagətihe tislegi tislagi	[h] [d] [D] [B] [D] [g] [w] [F] [N] [A] [E] [P] [B] [k]  was thirsty [k] [g] [F] [gw] [d] [B] [A] [E] [P]

ţʌɾlagi hɛ	[N]	191. it burns, i	t burned
pjasahe, pjasaţʰa	[h]	dzeləgjə	[A]
		dʒəl	[h]
187. sleep!, he	clant	dʒʌlɾjo	[E]
	[h]	bɐle	[P]
so sora hε		belgjo	[Eg]
	[d]	belrijo	[w]
huto	[g]	belrjahe	[B]
huto he	[DNkw]	belrjo he	[k]
sutjohe	[AP]	ader eled	[d]
suţo	[D]	ьме рмфјэ	[D]
suto he	[B]	aig lage he	[F]
sugjo	[E]	Jıl <del>i</del> gi rehahe	[B]
hujerijə	[F]	unterijo he	[N]
huŋ:aηɔ hε	[N]	onterijo ne	[14]
188. lie down!	. he lav down	192. don't die!,	
pedahoa	[P]	mergjo	[AEPgk]
hə:gjə	[w]	cgrsm	[Bd]
huigjo	[w]	merijo	[F]
huvn <del>i</del> gajo	[k]	crirsm	[w]
		mər	[h]
let	[h]	muəpə	[N]
ed:ogjo	[AE]	t∫elgeje	[w]
addə əgjə	[B]	kutgjo	[Ew]
vdo bvso	[D]	kutepo	[D]
лфэрлфіјэ	[F]	gudzjo	[N]
∫uţa	[d]	semaigo	[B]
podijo	[N]	00	
peţgjo	[g]		
		400 1 1 1111	
		193. don't kill!	
189. sit down!	. he sat down	mar	[h]
189. sit down!		mar mar dijo	[h] [B]
beto	[Nw]	mar mar dijo mardijo	[h] [B] [Ek]
beto bɐitʰɔ	[Nw] [E]	mar mar dijo mardijo marijo	[h] [B] [Ek] [N]
beto bɐitʰɔ bɛjtʰ	[Nw] [E] [h]	mar mar dijo mardijo marijo marjo	[h] [B] [Ek]
beto bɐitʰɔ bɛjtʰ bejtʰɔ	[Nw] [E] [h] [Fw]	mar mar dijo mardijo marijo marjo margjio	[h] [B] [Ek] [N] [A] [w]
beto beit <sup>h</sup> o bejt <sup>h</sup> bejt <sup>h</sup> o heɪt <sup>h</sup> o	[Nw] [E] [h] [Fw]	mar mar dijo mardijo marijo marjo	[h] [B] [Ek] [N] [A]
beto beit <sup>h</sup> o bejt <sup>h</sup> bejt <sup>h</sup> o heɪt <sup>h</sup> o bedədʒa	[Nw] [E] [h] [Fw] [k]	mar mar dijo mardijo marijo marjo margjio	[h] [B] [Ek] [N] [A] [w]
beto beit <sup>h</sup> o bejt <sup>h</sup> bejt <sup>h</sup> o hett <sup>h</sup> o bedədza bet dze	[Nw] [E] [h] [Fw] [k] [A] [B]	mar mar dijo mardijo marijo marjo margjio t <sup>h</sup> okjo k <sup>h</sup> utjo	[h] [B] [Ek] [N] [A] [w] [Ddg]
beto beitho beitho bejth bejtho hetho bedədza bet dze betdza	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd]	mar mar dijo mardijo marijo marjo margjio t <sup>h</sup> okjo k <sup>h</sup> utjo kotta kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D]
beto beitho beitho bejtho bejtho hetho bedədza bet dze betdza beho	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg]	mar mar dijo mardijo marijo marjo margjio t <sup>h</sup> okjo k <sup>h</sup> utjo kotta kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [P]
beto beitho beitho bejth bejtho hetho bedədza bet dze betdza	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd]	mar mar dijo mardijo marijo marjo margjio t <sup>h</sup> okjo k <sup>h</sup> utjo kotta	[h] [B] [Ek] [N] [A] [w] [bdg] [D] [P] [Fk]
beto beitho beitho bejtho bejtho bejtho beitho bedodsa bet dse betdsa beho biradso	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]	mar mar dijo mardijo marijo marjo margiio thokjo khutjo kutjo kutjo khutjo	[h] [B] [Ek] [N] [A] [w] [bdg] [D] [P] [Fk] [D]
beto beitho beitho beitho beitho heitho bedodaa bet dae betdaa beho biradao	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]	mar mar dijo mardijo marijo marjo margijo thokjo khutjo kotta kutjo khutjo kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [P] [Fk] [D]
beto beitho beitho beitho beitho beitho hetho bedodaa bet dae betdaa beho biradao	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]	mar mar dijo mardijo marijo marijo marjo margjio thokjo khutjo kotta kutjo khutjo kutjo kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [P] [Fk] [D]
beto beitho beitho beitho beitho beitho beitho bedoda bedoda bet dae betda beho biradao  190. give!, he de de djo	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B]	mar mar dijo mardijo marijo marjo margjio thokjo khutjo kotta kutjo khutjo kutjo kutjo kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [F] [Fk] [D] [Fk]
beto beitho beitho beitho beitho beitho hetho bedodaa bet dae betdaa beho biradao	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]	mar mar dijo mardijo mardijo marjo marjo margjio thokjo khutjo kotta kutjo khutjo kutjo kutjo kutjo tutjo kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk] [D] [Fk]
beto beitho beitho beitho beitho beitho beitho bedoda bedoda bet dae betda beho biradao  190. give!, he de de djo dede depo	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N]	mar mar dijo mardijo mardijo marjo marjo margjio thokjo khutjo kotta kutjo khutjo kutjo kutjo tutjo kutjo tutjo kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk] [D] [Fk] [M] [P] [B] [W]
beto beitho beitho beitho beitho beitho beitho bedoda bedoda bet dae betda beho biradao  190. give!, he de de djo dede depo dede	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d]	mar mar dijo mardijo marijo marjo marjo margio thokjo khutjo kutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo kutjo kutjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk] [D] [Fk] [W] [P] [Mw] [Mw]
beto beitho beitho beitho beitho beitho beitho bedoda bedoda bet dae betda beho biradao  190. give!, he de de djo dede depo	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N]	mar mar dijo mardijo marijo marijo marjo margijo thokjo khutjo kutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo thokjo kutjo tokjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk] [W] [E] [W] [M] [M] [M] [M] [M]
beto beitho beitho beitho beitho beitho beitho bedoda bedoda bet dae betda beho biradao  190. give!, he de de djo dede depo dede	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d]	mar mar dijo mardijo marijo marijo marjo margijo thokjo khutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo thokjo kutjo thokjo kutjo thokjo kutjo thokjo thokj	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [Fk] [Fk] [W] [Aw] [d] [h]
beto beitho beitho beitho beitho beitho beitho bedoda bedoda bet dae betda beho biradao  190. give!, he de de djo dede depo dede dedja	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d] [d] [w]	mar mar dijo mardijo marijo marijo marjo margijo thokjo khutjo kutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo udie ude he ude he ude he udegjo ude udie	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk] [w] [M] [M] [M] [M] [M] [M] [M] [M] [M] [M
beto beitho beitho beitho beitho beitho heitho bedoda bedoda bet dae betda beho biradao  190. give!, he de de djo dede depo dede dedia dedro	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d]	mar mar dijo mardijo marijo marijo marjo margijo thokjo khutjo kutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo ud;e ude he ude he ude he ude he ude jo ud ud;e ud;e	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk] [w] [M] [M] [Aw] [d] [gk] [D]
beto beitho beitho beitho beitho beitho bedoda bedoda bedoda beto bedoda beto bedoda beho birada  190. give!, he de de djo dede depo dede dedja dedro dero	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d] [d] [g]	mar mar dijo mardijo marijo marjo marjo margijo thokjo khutjo kutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo ud;e udde he ude he	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk]  [w] [M] [M] [d] [h] [gk] [N]
beto beitho beitho beitho beitho heitho hetho bedodaa bedodaa bet das betdaa beho biradao  190. give!, he de de djo dede depo dede dedja dedro dero devo	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d] [d] [g] [g] [g] [p]	mar mar dijo mardijo marijo marijo marjo margijo thokjo khutjo kutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo ud:e ud;e ud;e ud;e ud;ei padijo uderijo he uderijo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk]  [w] [Aw] [d] [h] [gk] [N] [F]
beto beitho beitho beitho beitho beitho beitho beitho bedədaa bet dase betdaa beho biradao  190. give!, he de de dijo dede dede dedja dedro dero devo dido	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d] [d] [d] [w] [g] [p] [p]	mar mar dijo mardijo marijo marijo marjo margiio thokjo khutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo kutjo ude he ude he ude he ude he ude he ude padijo uderijo he uderijo udgjo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [Eh] [w] [fk] [d] [dh] [gk] [D] [F] [E] [E] [E]
beto beitho beitho beitho beitho beitho beitho bededaa bededaa bet dase betdaa beho biradao  190. give!, he de de dijo dede dedijo dede dedja dedro dero devo dido la	[Nw] [E] [h] [Fw] [k] [A] [B] [EPd] [Dg] [B]  gave [h] [B] [AE] [N] [d] [d] [w] [g] [p] [F]	mar mar dijo mardijo marijo marijo marjo margijo thokjo khutjo kutjo kutjo kutjo kutjo kutjo thokjo kutjo kutjo kutjo ud:e ud;e ud;e ud;e ud;ei padijo uderijo he uderijo	[h] [B] [Ek] [N] [A] [w] [Ddg] [D] [Fk] [D] [Fk]  [w] [Aw] [d] [h] [gk] [N] [F]

udre he	[B]	ลเว	[g]
udzerijo	[F]	au	[h]
0 3		aυ	[N]
195. walk!, he	walked	ลบาว	[k]
t∫al	[A]	Cliv	[D]
-	[d]	Λ	[D]
tʃal:ɔ		a:bɔ	[F]
t∫allɔ	[P]	pataro	[N]
t∫alɔ	[B]	Pingaro	[1]
t∫əl	[h]		
alo	[E]	199. speak!, h	e spoke
alə	[Nw]	bol	[D]
hel:5		bol	[APdhk]
	[g]		
clad	[k]	bolo	[EF]
helo	[DF]	bolə	[EF]
hallo	[B]	bu]:ɔ	[w]
t∫al:ɔ	[d]	bule	[w]
t∫allɔ	[P]	bulijo	[Ng]
		•	_
t∫alɔ	[B]	kedjo	[B]
g <sup>fi</sup> um	[h]	keo	[E]
dʒa	[P]	$k^he$	[D]
hedə	[N]		
(-	E3		
		200. listen!, he	e heard
196. run!, he r	an	իսղլjշ	[Dk]
b <sup>h</sup> agdʒa	[P]	hunijo	[gw]
b <sup>h</sup> ago	[ABEd]	huno	[F]
b ags			
b <sup>h</sup> agje	[B]	suna	[AP]
cþc <sup>a</sup> b	[N]	sunjo	[d]
фьоф	[h]	sun <del>i</del> lījo	[B]
фэфэ	[k]	sunejo	[E]
dondo	[F]	sunilio	[w]
	[E]		[AP]
dodgjo		sυηa	
udi k <sup>h</sup> edə	[g]	sun	[h]
udi	[w]	hoblijo	[N]
11 1			
knu:qə	[D]		
khu:dɔ	[D]		
-		201. look!, he	saw
197. go!, he w		<b>201. look!, he</b> dek <sup>h</sup>	saw [h]
197. go!, he w	ent	₫ek <sup>h</sup>	[h]
<b>197. go!, he w</b> dʒa	ent [ADgh]	dek <sup>h</sup> dek <sup>h</sup> ijo	[h] [Eg]
<b>197. go!, he w</b> dʒa dʒao	ent [ADgh] [w]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo	[h] [Eg] [DN]
197. go!, he w dʒa dʒao dʒapɔ	ent [ADgh] [w] [N]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo	[h] [Eg] [DN] [APdkw]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ	ent [ADgh] [w] [N] [Edk]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo	[h] [Eg] [DN] [APdkw] [B]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ	ent [ADgh] [w] [N] [Edk] [D]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo	[h] [Eg] [DN] [APdkw] [B] [N]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒatorɛ	ent [ADgh] [w] [N] [Edk]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo	[h] [Eg] [DN] [APdkw] [B]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒatorɛ	ent [ADgh] [w] [N] [Edk] [D] [B]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> lijo balijo b <sup>f</sup> alo	[h] [Eg] [DN] [APdkw] [B] [N] [F]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒatorɛ dʒavɔ	ent [ADgh] [w] [N] [Edk] [D] [B]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo	[h] [Eg] [DN] [APdkw] [B] [N]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ	ent [ADgh] [w] [N] [Edk] [D] [B] [N]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> lijo balijo b <sup>f</sup> alo	[h] [Eg] [DN] [APdkw] [B] [N] [F]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒatorɛ dʒavɔ	ent [ADgh] [w] [N] [Edk] [D] [B]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> lijo dek <sup>h</sup> lijo balijo b <sup>fi</sup> alo di:t <sup>h</sup> o	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ	ent [ADgh] [w] [N] [Edk] [D] [B] [N]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo balijo di:t <sup>h</sup> o  202. I (1st sing	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒat̞orɛ dʒavɔ dʒɔ tʃel	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F]	dekh dekhijo dekhijo dekhijo dekhlijo balijo balijo di:tho	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]
197. go!, he w dʒa dʒao dʒapɔ dʒaprɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃel  198. come!, he	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo balijo di:t <sup>h</sup> o  202. I (1st sing me mε	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]  gular) [A] [BP]
197. go!, he w dʒa dʒao dʒapɔ dʒapɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃel  198. come!, he edʒjao	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo balijo di:t <sup>h</sup> o  202. I (1st sing me mε meidʒῦ	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]  gular) [A] [BP] [k]
197. go!, he w dʒa dʒao dʒapɔ dʒapɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃɐl  198. come!, he edʒjao adʒa	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo balijo di:t <sup>h</sup> o  202. I (1st sing me mε	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]  gular) [A] [BP] [k] [Ed]
197. go!, he w dʒa dʒao dʒapɔ dʒapɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃel  198. come!, he edʒjao	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo balijo di:t <sup>h</sup> o  202. I (1st sing me mε meidʒῦ	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]  gular) [A] [BP] [k]
197. go!, he w dʒa dʒao dʒapɔ dʒapɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃɐl  198. come!, he ɐdʒjao adʒa adʒja	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]  e came [B] [AP] [d]	dek <sup>h</sup> dek <sup>h</sup> ijo dek <sup>h</sup> ijo dek <sup>h</sup> jo dek <sup>h</sup> lijo balijo baljio di:t <sup>h</sup> o  202. I (1st sing me mε meidʒῦ mẽ	<ul> <li>[h]</li> <li>[Eg]</li> <li>[DN]</li> <li>[APdkw]</li> <li>[B]</li> <li>[N]</li> <li>[F]</li> <li>[D]</li> <li>gular)</li> <li>[A]</li> <li>[BP]</li> <li>[k]</li> <li>[ed]</li> <li>[h]</li> </ul>
197. go!, he w dʒa dʒao dʒapɔ dʒapɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃel  198. come!, he edʒjao adʒa adʒja adʒo	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]  e came [B] [AP] [d] [E]	dekh dekhijo dekhijo dekhijo dekhijo balijo balijo deitho alitho	<ul> <li>[h]</li> <li>[Eg]</li> <li>[DN]</li> <li>[APdkw]</li> <li>[B]</li> <li>[N]</li> <li>[F]</li> <li>[D]</li> <li>gular)</li> <li>[A]</li> <li>[BP]</li> <li>[k]</li> <li>[Ed]</li> <li>[h]</li> <li>[N]</li> </ul>
197. go!, he w dʒa dʒao dʒapɔ dʒapɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃel  198. come!, he edʒjao adʒa adʒja adʒo a:voʃa	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]  e came [B] [AP] [d] [E] [E]	dekh dekhijo dekhijo dekhijo dekhijo balijo balijo balijo di:tho	[h] [Eg] [DN] [APdkw] [B] [N] [F] [D]  gular) [A] [BP] [k] [Ed] [h] [N]
197. go!, he w dʒa dʒao dʒapɔ dʒapɔ dʒarɔ dʒatorɛ dʒavɔ dʒɔ tʃel  198. come!, he edʒjao adʒa adʒja adʒo	ent [ADgh] [w] [N] [Edk] [D] [B] [N] [F] [P]  e came [B] [AP] [d] [E]	dekh dekhijo dekhijo dekhijo dekhijo balijo balijo deitho alitho	<ul> <li>[h]</li> <li>[Eg]</li> <li>[DN]</li> <li>[APdkw]</li> <li>[B]</li> <li>[N]</li> <li>[F]</li> <li>[D]</li> <li>gular)</li> <li>[A]</li> <li>[BP]</li> <li>[k]</li> <li>[Ed]</li> <li>[h]</li> <li>[N]</li> </ul>

203 vou (2n	d singular, informal)	mẽ	[g]
t <sup>h</sup> e	[Fk]	hũ	[w]
ţ <sup>h</sup> ẽ	[FK] [E]	həm	[h]
		hen	[k]
ţ <sup>h</sup> ũ	[g] [Ndh]	3	[N]
ţu		hopε	
ţum	[h]	ţ <sup>h</sup> e	[g]
ţũ	[ABDPw]		
		208. we (1st plural, exclusive)	
204. you (2nd	d singular, formal)	epe dənjə	[B]
ap	[hk]	ap:adɔno	[E]
лрε	[F]	apã donjo	[d]
ţ <sup>h</sup> e	[ABDNPdgw]	ape dɔi	[k]
hũ	[E]	me	[w]
		me bi	[D]
005 1 (0.1		mebedʒлηл	[F]
	singular, masculine)	meh	[P]
b:o	[d]	mehε	[A]
bo	[E]	mẽ	[g]
bə	[P]	hem	[h]
0	[Dgw]	hũ	[w]
ບວ	[AF]	həpε bεi	[N]
wo	[h]	F	L3
be	[B]		
ve	[k]	209. you (2nd	
wə	[h]	ţ <sup>h</sup> e	[ABDEPw]
υληε	[N]	the log	[Ndk]
		ţ <sup>h</sup> ũ	[g]
206 she (3rd	singular, feminine)	ţumlog	[h]
b:a	[d]	ţũ	[Dw]
ba	[BEP]	a:p	[F]
va	[Nk]	me	[B]
บย	[F]		
ve	[A]	210. they (3rd	d nlural)
wə	[h]	be	[BEPd]
be log	[E]	be log	[E]
0	[Dgw]	ve	[Nk]
O	[Dgw]	we	[h]
		0	[D]
207. we (1st	plural, inclusive)	Õ	[b] [g]
apa	[E]	ບວ	[A]
apã	[d]		[K] [F]
ãp	[B]	υεjis	[P]
ãpa	[P]	se	
me	[ADFw]	u	[w]

## References

- Blair, Frank. 1990 (republished 1997). *Survey on a shoestring: A manual for small-scale language surveys.*Dallas: Summer Institute of Linguistics and the University of Texas at Arlington.
- Bora, Ram Chandra. 1994. Contemporary Rajasthani literature. Jodhpur: Books Treasure.
- Casad, Eugene H. 1974 (republished 1987). *Dialect intelligibility testing*. Dallas: Summer Institute of Linguistics.
- Census of India. 2001. Primary census abstract: Haryana, Delhi, Rajasthan. Electronic version (compact disc). Delhi: The Registrar General of India.
- Fasold, Ralph. 1984. The sociolinguistics of society. Oxford: Basil Blackwell Ltd.
- Gordon, Raymond G., ed. 2005. Ethnologue: Languages of the world. 15th ed. Dallas: SIL International.
- Grimes, Barbara F., ed. 2000. *Ethnologue: Languages of the world*. 14<sup>th</sup> ed. Dallas: Summer Institute of Linguistics.
- Gusain, Lakhan. 2004. Marwari. (Languages of the World/Materials 427.) Munich: Lincom Europa.
- Hatfield, Deborah H., Stuart D. Showalter, and Marie C. South. 2007. The sentence repetition test revisited: Evaluation of the SRT against the second language oral proficiency evaluation (SLOPE) as an assessment tool for community bilingual proficiency. SIL Electronic Working Papers 2007–005.
- http://www.sil.org/silewp/2007/silewp2007–008.pdf (accessed 30 May 2008).
- http://www.indianchild.com/population\_of\_india.htm (accessed 31 January 2007).
- http://www.theory.tifr.res.in/bombay/history/people/language/marwari.html (accessed 31 January 2007).
- Lewis, M. Paul, ed. 2009. *Ethnologue: Languages of the world.* 16<sup>th</sup> ed. Dallas: SIL International. Online version: http://www.ethnologue.com/.
- Mallikarjun, B. 2002. Mother tongues of India according to the 1961 census. http://www.languageinindia.com/aug2002/indianmothertongues1961aug2002.html (accessed 5 June 2006).
- O'Leary, Clare F., ed. 1992. *Sociolinguistic survey of northern Pakistan*. Volumes 1–5. Islamabad and Dallas: National Institute of Pakistan Studies and Summer Institute of Linguistics.
- O'Leary, Clare F. 1994. The role of recorded text tests in intelligibility assessment and language program decisions. *Notes on Literature in Use and Language Programs Special Issue* (3):48–72. Dallas: Summer Institute of Linguistics.
- Radloff, Carla. 1991. *Sentence repetition testing for studies of community bilingualism.* Dallas: Summer Institute of Linguistics.
- Samuvel, Nelson, Marshall Joshua, Binoy Koshy, and Binny Abraham. 2012. Sociolinguistic survey of modern Rajasthani speech varieties of India, Volume 1: Preliminary overview. SIL *Electronic Survey Report* 2012–029.
- Varenkamp, Bryan. 1990. Eight days in Rajasthan: A brief summary of a trip to Marwari country. Unpublished manuscript.
- Varenkamp, Bryan. 1991. A report on the development of the Hindi SRT. Unpublished manuscript. Wimbish, John S. 1989. *WordSurv: A program for analyzing language survey wordlists*. Dallas: Summer Institute of Linguistics.