

A Sociolinguistic Survey of the Yabong [ybo], Migum [klm], Nekgini [nkg], and Neko [nej]

Rachel Gray, Hannah Paris, Daryl Pfantz, Dan Richardson, and Juliann Bullock

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SIL International® 2015

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Abstract

In March 2008, SIL-PNG conducted a sociolinguistic survey of the Yabong, Migum, Nekgini and Neko languages, which are spoken in Madang Province, Papua New Guinea. Fieldwork was completed by Daryl Pfantz, Dan Richardson, Hannah Paris, Barbara Hodgkinson and Juliann Bullock. The survey was requested by SIL's Madang Regional Assistant Director (RAD), Mark Hepner. The goals were to distinguish language and dialect boundaries and investigate language vitality. The Yabong, Migum, Nekgini and Neko languages appear to be vital, although there are some trends in Migum and Neko that could ultimately lead to a language shift. Yabong, Migum, Nekgini and Neko are four separate languages.

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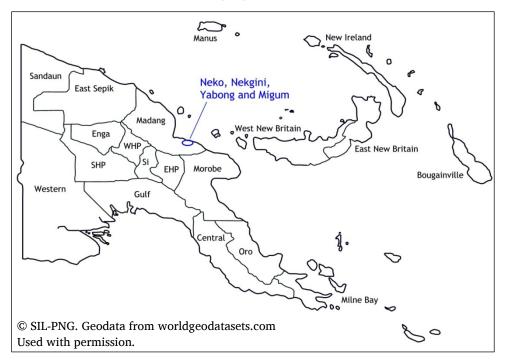
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References

1 Background

1.1 Language location

The Yabong [ybo], Migum [klm], Nekgini [nkg] and Neko [nej]¹ languages are located in the eastern part of Madang Province.²



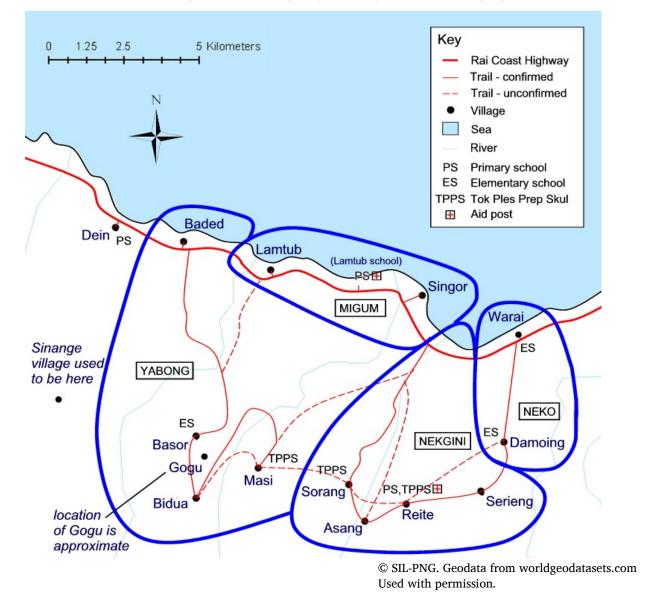
Map 1. Language areas in context

We visited thirteen villages in the area.³ In this report we refer to groups of villages as "mountain villages" or "coastal villages." Mountain villages include the Yabong villages of Masi, Bidua, Gogu and Basor; the Nekgini villages of Sorang, Reite, Asang and Serieng; and Damoing, a Neko village. The coastal villages include the Yabong village of Baded; the Migum villages of Lamtub and Singor; and Warai, a Neko village. These village locations are indicated on map 2.

¹Ethnologue (Lewis 2009), ISO codes for each language are listed the first time the language is mentioned.

² This area is about 20 kilometres to the west of Saidor, a local government and Catholic mission station.

³The SIL-PNG survey team sincerely thanks everyone who helped in the planning of this survey, the survey itself and the writeup. We are particularly grateful to the Yabong, Migum, Nekginig and Neko language speakers who welcomed us into their homes and kindly spent hours working with us, discussing their language.



Map 2. Villages in the Yabong, Migum, Nekgini and Neko language areas

1.2 Previous research

Two anthropologists have spent extensive time in this area. James Leach (2010) lived in Reite and has written numerous articles about various aspects of Nekgini culture. He has also written about the new intellectual property rights laws and how they translate to the culture of Nekgini. In Reite, we were shown a published copy of his thesis that he had sent back to the village. Robert Regal lived in Serieng for one month. We have no further information about his stay.

Some phonological information about Nekgini has been compiled by SIL linguists and mother tongue speakers (Lillie n.d.).

According to Barbara Hodgkinson and STEP⁴ participants Michael Brugei and Samson Anis, there are some school materials in the Yabong and Nekgini languages. These were completed during an Alphabet Design Workshop in Masi village in 2006. They may be used in the vernacular preschools in the Yabong village of Masi and the Nekgini villages of Sorang and Reite.

1.3 Language name and classification

Yabong is classified by *Ethnologue* (Lewis 2009) as Trans-New Guinea, Madang, Rai Coast, Yoganon. Migum is referred to in *Ethnologue* (Lewis 2009) as Kolom and is classified as: Trans-New Guinea, Madang, Rai Coast, Kabenau.

Nekgini and Neko are classified by *Ethnologue* (Lewis 2009) as Trans-New Guinea, Finisterre-Huon, Finisterre, Gusap-Mot.

Figure 1 shows the language classification of each according to *Ethnologue*. The ISO code for each language is in square brackets. The four languages surveyed are listed in bold blue.

Trans-New Guinea Madang Rai Coast Yaganon Dumun [dui] Ganglau [ggl] Saep [spd]* Yabong [ybo] Kabenau Arawum [awm] Migum [klm] Lemio [lei] Pulabu [pup] Siroi [ssd]* Trans-New Guinea Finisterre-Huon Finisterre Gusap-Mot Ivo [nca]* Madi [grg] Nekgini [nkg] Neko [nej] Ngaing [nnf]* Rawa [rwo]** Ufim [ufi] *have current language projects **have completed language projects

Figure 1. Language classification according to Ethnologue (Lewis 2009).

⁴Strengthening Tokples Education in Papua New Guinea, an SIL initiative to promote local language education.

1.4 Population

The 2000 National Census (National Statistics Office 2002) gives the following information on the population of villages in Yabong, Migum, Nekgini and Neko. All the wards are in the Rai Coast Rural district.

Table 1. Village populations

Ward	Village	Households	Persons			
Yabong						
Ward 21	Masi	Masi 25				
Ward 24	Basor	58	345			
	Bidua	15	101			
	Gogou	20	123			
Ward 27	Baded	70	377			
	Deging	27	146			
	Sinange	24	141			
	Wado	24	155			
Total Yabong	8 villages	263	1503			
	Nel	ko				
Ward 15	Sereng	5	27			
	Yori	27	168			
Ward 17	Warai	42	223			
Ward 18	Damoing	33	220			
Total Neko	4 villages	107	638			
	Nekş	gini				
Ward 18	Asang	25	146			
	Reite	44	247			
	Serieng	25	136			
Ward 21	Sorang	29	163			
Total Nekgini	4 villages	123	692			
	Mig	um				
Ward 17	Lamtub	48	304			
	Singor	32	168			
Total Migum	2 villages	80	472			

1.5 Goals

The goals of this survey were to:

- distinguish language and dialect boundaries and
- investigate language vitality.

2 Methodology

To address the above goals, the survey team used observations; group interviews guided by the standard SIL-PNG survey questionnaires designed to investigate language use, language attitudes and contact

patterns; and wordlists to investigate language and dialect boundaries. Interviews with church and school leadership were used to determine the level of institutional support towards a language development project.

2.1 Tools

2.1.1 Observation

Language use observations were collected alongside reported language use to investigate the vitality of the languages.

2.1.2 Sociolinguistic interviews

The team used the language use, contact patterns, culture, education and church questionnaires from the sociolinguistics section of SIL-PNG (see appendices D.1 through D.5). Although not every question was asked in every village, these questionnaires were used to guide the interviews in each village.

2.1.3 Wordlists

Wordlists were elicited from each village visited in order to determine dialect grouping within a language as well as lexical similarity between languages. We used the 190-item SIL-PNG wordlist (1999 Revision).

2.2 Fieldwork procedure and route

Fieldwork was completed by Dunc Pfantz, Dan Richardson, Hannah Paris (nee Cockerill), Barbara Hodgkinson and Juliann Bullock (nee Spencer). In each village, the survey team leader explained the work to the local people and asked their permission to proceed. This was granted in all cases, at which stage the local village leaders and the survey team separated those present into appropriate groups for data collection.

Language use, contact patterns and culture interviews were conducted in a group setting with male and female representatives from different age groups when possible. Occasionally culture interviews could only be conducted with men due to local cultural practices that prohibit the presence of women when certain traditions are discussed. Interviews regarding school and church institutions were done on an individual or small group basis with the appropriate leader. Where there was no school, a group community education interview was conducted to get an overview of levels of education in the village.

The survey team observed patterns of language use. We paid particular attention to children's language use, but observations were also made of the languages used by young, middle-aged and older males and females. The survey team observed the languages being used in the village setting (including village meetings), during church services and at a school.

The wordlists were elicited in small groups of speakers including people of various ages and both genders (although there was typically one spokesperson for the group). There were both male and female spokespeople who ranged in age from 22 to 65. Group elicitation allowed for discussion of the most appropriate term for each gloss. Working in a group is also more culturally acceptable than isolating individuals.

The following table shows the dates on which data was collected in each village.

Table 2. Fieldwork route

Date	Location	Language
5 March 2008	Masi	Yabong
6 March 2008	Bidua	Yabong
7 March 2008	Basor	Yabong
8 March 2008	Dein	Karo dialect ^a
9 March 2008	Baded Lamtub	Yabong Migum
10 March 2008	Singor	Migum
11 March 2008	_	_
12 March 2008	Sorang	Nekgini
13 March 2008	Asang	Nekgini
14 March 2008	Reite	Nekgini
15 March 2008	_	_
16 March 2008	Serieng	Nekgini
17 March 2008	Damoing	Neko
18 March 2008	Warai	Neko

^a Karo is a dialect of the Rawa language found further inland. The village of Dein is located on the coast in the Mindiri language area; Dein is in map 2, and the Mindiri and Rawa language areas can be seen in map 3. According to Jens Meyer, an SIL literacy worker in the Rawa language, there are many Karo settlements along the coast near Dein but there is no evidence that the Mindiri language boundaries have changed; language use patterns in these settlements indicate shift from Karo to Tok Pisin (Meyer, personal communication, September 2012).

2.3 Critique

There are some weaknesses in the language use data we collected. When observing language use, we were only able to discern the difference between Tok Pisin and local languages. We could not differentiate between the various local languages, thereby limiting our ability to truly understand the language use situation; ideally more time would be taken to observe language use; and people usually knew in advance that we were coming, which sometimes biased their language use patterns during our stay. For instance, in Sorang village (Nekgini language area), the people were ready for us and stated that they were purposefully using Nekgini because we were there.

Throughout the survey, the team was accompanied by STEP participants from the Yabong and Nekgini languages. These men helped the team relate to village leaders and collect accurate data, but they also wanted to raise awareness for the necessity of TPPS⁵ schools in the area. While their assistance proved to be invaluable, it should be noted that their presence may have skewed answers given during interviews, particularly as they were promoting use of the vernacular in education.

At times, the order of questions in both the church and education interviews caused confusion for interviewees. The answers given for questions asking for percentages or numbers were often vague.

⁵Tokples Prep Skul, i.e., Vernacular Prep School, a one-year education programme conducted in vernacular, in preparation for English-medium school.

The culture interviews went smoothly with the groups in all villages. Respondents often quickly reached a consensus on the answers. The only disagreements were related to questions about sorcery and magic, although these were not frequent.

It is culturally more appropriate to gather data in a group setting, so the wordlist was elicited from one person with a group listening. This caused disagreements and noise issues (hampering recording), but also helped us gather more accurate data that was eventually agreed upon by everyone.

During future surveys it would be helpful to have the guides make language use observations as they can often distinguish between the local languages. Also, it is important for each team member to be conscious of the number of observations they are making, as well as the demographics of the people they are observing, and try to be consistent in each village.

3 Language vitality

The data presented in the following three sections was collected to address the goal of assessing language vitality.

3.1 Language use

Bilingualism in the local vernacular and Tok Pisin was the expected standard of language use across the survey area. Children and adults who have attended school are also expected to be able to speak and read English, although they are not expected to use it outside the classroom or in other formal settings.

Four of the five members of the survey team collected observation-based data which was then compiled and evaluated by one team member. However, before we look at observed language use, first we will consider reported language use.

3.1.1 Children's reported language use

Reported information regarding the languages used by children when they are talking to their parents, grandparents, siblings and age mates, and when they are angry, is as follows.

In the Yabong language area, the three villages in the mountains⁶ reported that children only use Yabong. People in the coastal village of Baded reported children using both Yabong and Tok Pisin in all interactions.

In the Migum language area, interviewees in Lamtub village reported that children use both Migum and Tok Pisin for all interactions. Respondents in Singor village reported children using Tok Pisin for all interactions and only using Migum as well when speaking to immediate family.

In the Nekgini language area, interviewees in three of the four villages reported that children only use Nekgini. Those in Reite reported that children use both Nekgini and Tok Pisin in all interactions.

In the Neko language area, it was reported in both villages that children use Neko and Tok Pisin in all interactions.

In each village, people were asked the questions shown in table 3. It should be noted that interviewees in four of the twelve villages in the areas of the languages surveyed stated that their children learn Tok Pisin as their first language. Only half of the villages claimed that their children know the vernacular as well as the adults.

⁶Masi, Bidua and Basor.

"tok ples" (vernacular)

Not happy, scold them

	Village	What language do their children learn first?	Do they know the vernacular by school age?	Do they speak it as well as you?	Do they mix Tok Pisin with it?	How much do they mix it?	What do you think about children mixing languages?
Yabong	Masi	Yabong	Yes	Yes	Yes	A little	No response
Yabong	Bidua	Yabong	Yes	Yes	No		
Yabong	Basor	Yabong	Yes	Yes	No		
Yabong	Baded	Yabong	Yes	Half way	Yes	A lot	It is not good
Migum	Lamtub	Tok Pisin	Yes	Yes	Yes	A lot	Feel happy
Migum	Singor	Tok Pisin	Some of it	Not quite	Yes	A lot	It is wrong
Nekgini	Sorang	Nekgini	Yes	A little	Yes, some do	A little	Not too good, scold them
Nekgini	Asang	Nekgini	Yes	Yes	Yes	A lot	Not good, warn children not to
Nekgini	Reite	Tok Pisin	Yes	Not quite as well	Yes	A lot	Not good, should use "stret tok ples" (pure vernacular)
Nekgini	Serieng	Tok Pisin	No	A few words			Concerned they do not learn Nekgini
Neko	Damoing	Neko	Yes	Not too well	Yes	A lot	It is good. Tok Pisin is PNG's

Table 3. Reported language learning by children

In general, there is a negative attitude towards children mixing the local language and Tok Pisin. Interviewees in three of the villages reported that they reprimand their children for mixing languages. The exception to this generalisation is in Lamtub where they "feel happy" when the children are mixing languages and in Damoing where they said, "It is good. Pidgin is Papua New Guinea's language."

Yes

Yes

A lot

Neko

Warai

Neko

Yes

Most of the villages reported that they like to hear stories in their own local language, with two exceptions; in Singor they reported Tok Pisin as the preferred language for hearing stories and in Serieng they named both Tok Pisin and Nekgini.

When asked questions about what languages the children know well and currently speak, as well as what languages they think future children will speak, the overwhelming response was the local language, with the exception of Singor and Serieng. Respondents in the Migum village of Singor reported that children speak Tok Pisin, which did not seem to concern them. Respondents in the Nekgini village of Serieng said that they think their children and future children should learn the local language. These responses indicate that the people of Singor and Serieng believe their language will be lost within the next couple of generations. The people in Serieng demonstrated regret over this possibility while those in Singor did not appear concerned at all.

3.1.2 Children's observed language use

It is important to note that when making general language use observations our survey team was only qualified to distinguish between Tok Pisin and local languages. We were unable to differentiate between the local languages. However, since reported language use for the area indicates that most people can only speak their own vernacular and Tok Pisin, this is the only likely distinction that needs to be made. Also, a main concern of this survey is whether or not Tok Pisin is replacing local languages. It is therefore sufficient to distinguish between Tok Pisin and local languages, without determining which vernacular was being used.

Eighty seven of the total language use observations involved children speaking to one another or elderly people speaking to children. There were not enough of these observations to break them down by language, so this analysis only gives the total for all four languages, which is summarized in table 4. The table shows that the local language was used 59 percent of the time and Tok Pisin was used 41 percent of the time. The team observed the use of the local language more often than the use of Tok Pisin.

	Vernacular	Tok Pisin
To grandparents	1	
From grandparents	5	1
To parents	6	3
From parents	19	15
To brothers & sisters	3	1
From brothers & sisters	3	2
With playmates	14	14
Totals (87)	51 (59%)	36 (41%)

Table 4. Languages used in different situations with children

Table 5 shows these observations as percentages of the use of both the local language and Tok Pisin by children and people speaking to children. The difference in language use between these groups is 3 percent, which is not a significant difference considering all the uncontrolled variables in our observations. These figures seem to imply that the choice of vernacular or Tok Pisin is the same for children as for people speaking to children.

Another fact that should be taken into account is that the percentages for observed children's use of the vernacular are 8 percent lower than the percentages for observed adults' vernacular use (see section 3.1.4). However, we are not able to make any claims about actual children's language use from our data because we were unable to get enough observations to make accurate generalisations. The only claim we can make is that adults' and children's language use is generally similar, with the vernacular being used more often than Tok Pisin.

	Vernacular		Tok Pisir	Totals	
	Occurrences	%	Occurrences	%	
Spoken by children	24	57%	18	43%	42
Spoken to children	27	60%	18	40%	45

Table 5. Comparison of languages used with and by children

We were not able to observe children of mixed marriages closely enough to ascertain whether their language use patterns differ substantially from the average.

3.1.3 Adults' reported language use

Yabong language

Masi, Bidua and Basor reported using only Yabong for interactions between all age and gender groups.

Baded village reported using only Yabong for interactions between all age and gender groups with a few exceptions. Along with using Yabong, middle-aged men also use Tok Pisin with their wives. Adults reported using both Tok Pisin and Yabong to talk to children, and observations confirmed this report. Adults were observed speaking to children thirty five times, and seventeen of these interactions were in Yabong, while eighteen were in Tok Pisin.⁷

Migum language

Lamtub reported that people use only Migum for interactions between all age and gender groups.

Singor reported that people use both Migum and Tok Pisin for interactions between all age and gender groups.

Nekgini language

Both Sorang and Asang reported using primarily Nekgini for interactions between all age and gender groups with only the following exceptions: in Sorang, interviewees reported that middle-aged men use both Nekgini and Tok Pisin when talking with their wives, and old men reportedly use both languages when talking to children; in Asang, they reported that young men use both Nekgini and Tok Pisin when talking to their immediate family.

Reite reported using Nekgini for interactions between all age and gender groups, but Tok Pisin is also reported as being used by young and middle-aged people of both genders. An exception to this is the parents of middle-aged women. They do not talk to the middle-aged women or their children in Tok Pisin. Data about the use of Tok Pisin by elderly women in Reite was inadvertently not collected.

Serieng reported using both Nekgini and Tok Pisin for interactions between all age and gender groups with the following exception: Tok Pisin is not used by young men when talking to their parents.

Neko language

Damoing and Warai reported using Neko for interactions between all age and gender groups, and Tok Pisin is also used by young and middle-aged people of both genders. However, the parents of young women in Damoing do not speak to them in Tok Pisin, and men in Warai do not talk to their parents in Tok Pisin, nor do their parents use Tok Pisin to speak to them. Also in Warai, women do not talk to their immediate family using Tok Pisin. Elderly men and women do not use Tok Pisin, except when elderly men in Warai scold their grandchildren.

3.1.4 Adults' observed language use

In general, observed language use coincides with reported language use. However, some use of Tok Pisin was observed in the Migum village of Lamtub and the Yabong villages of Masi, Bidua and Basor even though these villages reported that only the vernacular is used by all gender and age categories. Although the local language is strong, the self-report of using only the local language is inaccurate.

⁷The context of the speech act was not always noted. However, out of the thirteen speech acts that were noted as being commands/scolding, ten of those were in Tok Pisin.

The survey team recorded a total of 259 language use observations. According to these observations, the local language was used 64 percent of the time and Tok Pisin was used 36 percent of the time (see table 6).

Language use percentages were also calculated for each individual language (also shown in table 6). It should be noted that three languages, Yabong, Nekgini and Neko, all show about the same percentages (63 percent to 67 percent vernacular and 33 percent to 37 percent Tok Pisin) while Migum shows a much higher use of Tok Pisin (45 percent) and a lower use of the vernacular (54 percent). This seems to indicate a stronger shift toward Tok Pisin in the Migum language than in the other languages. Although these percentages show a clear pattern, it is not known how accurate they are due to the uncontrollable variables involved in these observations.

Language	Vernacular	^a 0/ ₀	Tok Pisin	%	Total
Yabong	71	63%	42	37%	113
Migum	14	56%	11	44%	25
Nekgini	59	65%	32	35%	91
Neko	20	67%	10	33%	30
TOTAL	164	63%	95	37%	259

Table 6. Total language use observations

Adult language use is actually slightly lower than indicated by the above table because 42 of these observations were of children speaking (see section 3.1.2 above). If these 42 observations are removed from the above totals then the total number of adult language use observations is 217. There are 140 observations of adults using the vernacular (65 percent) and 77 observations of adults using Tok Pisin (35 percent). The difference between adults' language use and the language use of the total population is, however, slight.

3.1.5 Domains of language use

To determine the domains for individual languages, people were asked the following twelve questions in each village. Their responses are recorded in appendix A.3.

What languages do you use when:

- arguing with family
- praying at home
- organizing wedding or funeral feasts
- at the market
- joking
- playing sports
- talking with outsiders who do not know your language
- participating in court
- transactions in town
- you go to town
- most people are on the way to town
- most people are at the town's market
- most people are in stores

^a The percentages given for each language are comparing use of the vernacular and Tok Pisin in that language.

With the exception of Baded village, where the Karo dialect is used for arguing with family, all responses to the above questions were either their own local language, Tok Pisin or both. To evaluate responses, each village was given a three-part score. The number of domains where Tok Pisin was given as a response were counted and entered in table 7 on the line for that village under the heading "Tok Pisin domains." Then the number of domains where the local language is used were counted and entered on the same line in the table under the heading "Vernacular domains." Next, the number of domains that received a response of both Tok Pisin and the local language were counted and entered in the table for that village under the heading "Overlap."

For example, in Masi, Tok Pisin was used in eight domains, the vernacular was used in four and there are no domains in which both were used. In Sorang, Tok Pisin was used in eight domains and the vernacular was used in six, but Tok Pisin was also used in two of those six.

Language	Village	Tok Pisin domains	Vernacular domains	Overlap
Yabong	Masi	8	4	0
	Bidua	7	5	0
	Basor	7	5	0
	Baded	12	5	5
Migum	Lamtub	12	4	4
	Singor	12	4	4
Nekgini	Sorang	8	6	2
	Asang	8	6	2
	Reite	8	7	4
	Serieng	12	5	5
Neko	Damoing	12	7	7
	Warai	12	8	8

Table 7. Language domains and overlap between languages

Table 7 was reorganized to produce table 8, which ranks the languages from the most vulnerable to shifting into Tok Pisin to the least. It was reorganized by using the criteria explained below.

Since Tok Pisin has spread throughout the Rai Coast area in the last 70 years, we assume that the situation in the area started without Tok Pisin being used in any domains and that the increase in Tok Pisin has been steady. The vitality of the languages becomes more threatened when Tok Pisin begins dominating more domains.

The languages where Tok Pisin is also used in all the domains in which the local language is used are more threatened than the languages that have one or more domains in which Tok Pisin is not used. This assumption is supported by the basic ecological principle that no two organisms can live in the same place. One will eventually overwhelm the other. The only time two languages will survive in a bilingual setting is when they each have at least one unshared domain.

Another indication that a language is under threat is when it is being used in fewer domains. This remains true even if it is the only language used for the domains in which it remains.

The ranking of language vitality shown in table 8, from least vital to most, is supported by data discussed in other areas of this report and by our general observations.

Language	Village	Tok Pisin	Vernacular	Overlap
Migum	Singor	12	4	4
Migum	Lamtub	12	4	4
Yabong	Baded	12	5	5
Nekgini	Serieng	12	5	5
Neko	Damoing	12	7	7
Neko	Warai	12	8	8
Nekgini	Reite	8	6	4
Nekgini	Asang	8	6	2
Nekgini	Sorang	8	6	2
Yabong	Masi	8	4	0
Yabong	Bidua	7	5	0
Yabong	Basor	7	5	0

Table 8. Ranking of language viability by village

3.1.6 Language use in schools

In addition to looking at all the schools in the Yabong, Migum, Nekgini and Neko language areas, we interviewed the headmaster at Dein Primary School. Although this school is located in the Karo dialect area, it is attended by many students from the Yabong language area. In the following sections, however, generalisations made about the schools in the language area do not include Dein Primary School. If there was no school in the village, then we interviewed a small group of community members consisting of mothers and the students themselves.⁸

There is more education-related language data in section 3.2.2 since it pertains to attitudes.

School staff

There are clear trends in the background of the school staff. While TPPS and elementary schools are staffed entirely by teachers from the respective language area, the primary schools have virtually no teachers from the area.⁹

The primary schools have a higher rate of staff turnover than the elementary or TPPS schools. According to the teachers, the TPPS schools all have committed, permanent teachers. In reality, these schools have only been operating for a short time, so the level of commitment is difficult to determine. However, the majority of teachers have been with the TPPS schools since they opened. The same holds true at the elementary schools. At Basor, the school has only been open since 2007, but at the time of the survey the teachers there felt that they were permanent, and they all came from the language area. The

⁸Bidua, Baded, Singor, Asang and Serieng have no school present so the interviews were completed with community members. Lamtub village is a 20 minute walk from Lamtub school, and so a community interview was completed in Lamtub village as well as an education interview at the school. Reite has a Tok Ples Prep Skul (TPPS) as well as a primary school, so teachers from both schools were interviewed.

⁹One teacher at Lamtub Primary School is from Migum. The headteachers of Dein Primary School and Lamtub Primary School are from the Highlands. The remaining staff come from the Sepik, the Islands or other language areas in Madang Province (Bel, Karo and Bargam).

other two elementary schools, in Damoing and Warai, are more established with committed teachers. However, in all three primary schools the rate of turnover sharply increases. All of the teachers are from outside the language area and often remain at the school only as long as they are required to by the government. This time varies depending on their level of experience, but it is usually one or two years. The headmaster at Reite Primary School reported that this was because the teachers tend to feel isolated from their families and that living there is hard.

3.1.7 Language use in churches

Institutional support is a key factor in ethnolinguistic vitality (Giles et al. 1977 and Fasold 1987:221). In Papua New Guinea, the church is often the primary institution functioning at the local level. In order to evaluate language use within churches, the team interviewed local pastors and lay leaders asking questions related to vernacular use in the church and the team attended church services in order to observe language use.

As detailed below, Tok Pisin is used more frequently within the church domain in the Yabong, Migum, Nekgini and Neko language areas. In all four language areas, Tok Pisin is used exclusively for the liturgy and Scripture reading; these resources do not exist in the vernacular. For singing, prayer, preaching and announcements, Yabong, Migum and Nekgini are sometimes used along with Tok Pisin. Neko is not used within the church because the church leaders in the area do not speak Neko. Outside of church services, church leaders in the Neko language area use Tok Pisin, church leaders in the Migum area use mostly Tok Pisin with some Migum, church leaders in the Nekgini language use both Nekgini and Tok Pisin and church leaders in the Yabong language use mostly Yabong with some Tok Pisin.

As reported

Throughout the entire area, Scripture is read in Tok Pisin. If liturgy is used, it is in Tok Pisin as well. Church leaders reported that most songs are sung in Tok Pisin, although there are a few songs in the Yabong, Migum and Nekgini languages. Most spontaneous prayer is also done in Tok Pisin, although leaders in the Yabong and Nekgini languages reported that people sometimes pray in the vernacular. Sermons are mostly in Tok Pisin with some vernacular, except in the Neko language area, where the church leaders do not speak Neko. Announcements are also given in both Tok Pisin and the vernacular in every language group except Neko, where only Tok Pisin is used. For youth services, women's groups and children's Sunday school, leaders in the Yabong and Nekgini language areas reported that both Tok Pisin and the vernacular are used. Migum leaders reported that Tok Pisin is the primary language used for these activities, along with some Migum. The language use of church leaders outside of church services varies between the languages areas. Yabong church leaders use mostly Yabong with some Tok Pisin; Nekgini church leaders use both Nekgini and Tok Pisin; Migum church leaders use mostly Tok Pisin with some Migum; and Neko church leaders use only Tok Pisin.

As observed

The survey team attended a Lutheran church service in Baded village, in the Yabong language area. Singing, prayer, Bible reading and the sermon were all in Tok Pisin. There was one announcement in Tok Pisin and one in Yabong.

In the Nekgini language area, the survey team attended a Catholic worship service in Serieng and observed that the liturgy, singing, prayer, Scripture reading, sermon and announcements were entirely in Tok Pisin. The team also attended an evening worship service in Reite. During this service, three songs were sung in Nekgini and four in Tok Pisin while everything else was in Tok Pisin.

3.1.8 Contact with other language groups

People gave three main sources of contact they have with other language groups: trading, travel to town and marriage. For people living inland, these contacts vary from once a week to once every few months. Children going to school spend time in the villages of Lamtub (Migum) and Dein (Karo) while attending school.

Migum has more contact with outside languages due to the traffic of people on their way to town, coming to attend Lamtub Primary School, and buying from the trade stores.

Trading patterns

Traditionally, trading patterns reached from the coastal villages as far away as Bilbil (near Madang). Clay pots and other items available along the coast were the basis for the trades. After establishing trade routes along the coast, the coastal villages began trading with villages in the mountains.

With one exception, all the mountain villages claimed one of the coastal villages of Singor, Lamtub or Warai as a traditional trading partner. All Yabong villages listed Lamtub as a traditional trading partner, while some also mentioned Singor. All Nekgini villages listed Singor as their traditional trading partner. Damoing, a village in the Neko language area, listed Warai (also in the Neko language area) as their trading partner along with several villages further east. 10

At the present time these trading relationships continue, but in a diminished manner. Two villages claim that it has ended completely. The current pattern seems to be built on relationships between individual villages. It is not clear whether traditional trading relationships were only between individuals or if they were formally recognised at the village or language level.

Coastal villages supply dry coconuts and fish while mountain villages supply betelnut, peanuts, and tobacco. The pattern of trade stores on the coast and dinghies for transport seems to show that the current cash economy was built on these traditional trading patterns. We found no evidence of any other traditional social contacts.

Traditional enemies

Six of the twelve villages visited reported that their traditional enemies were neighbouring villages. The other six villages identified their traditional enemies as the nearest neighbouring communites of Karo, Iyo or Ngaing speakers. Unidentified people in the mountains were also mentioned as enemies. The one exception to these responses was Singor, who did not know who their traditional enemies had been.

There does not appear to be any remaining animosity or tension with traditional enemies. Respondents in all language groups consistently reported that fighting ended long ago and there are no remaining problems. As far as we could tell from our short trip, there is no evidence of enmity between any villages or larger groups of people.

Ease of travel

The preferred means of travel inside the survey area is on foot. In order to go farther from their language area, people travel by dinghy or ship along the coast as that is the fastest and most available method of travel. Only the Yabong people need to leave their language area to catch a dinghy or ship and when they do they go to the Migum villages of Lamtub and Singor.

¹⁰Along the Rai Coast there are usually language areas located on the coast that only include villages located on the coast. The same is true of language areas located inland; normally they do not include any coastal villages. However, Neko is an exception because it has both Warai, a coastal village, and Damoing, an inland village.

Villages on the coast seem to be the ones most affected by current travel patterns due to the location of the schools and the fact that many people come through their villages on the way to town.

3.1.9 Immigration and emigration

Language vitality is influenced by immigration and emigration (Landweer 1991). Specifically, Landweer states that immigration and emigration contribute to positive vitality when immigrants are proficient in the local dialect and when emigrants maintain their home language and continue to identify with their home language group in their new location.

Immigration and emigration patterns vary greatly from language to language. Because migration patterns sometimes vary greatly, even within individual languages, each language will be discussed separately. However, some generalisations can be made. With the exception of Warai village (Neko) and Singor village (Migum), the immigration rates for all the villages surveyed range from between 2 percent to 7 percent. Six of twelve villages visited reported a 4 percent immigration rate. These figures imply that immigration is generally low throughout the area.

Yabong language

	Men	Women	Total	Population	% of Immigrants
Masi	0	7	7	115	6%
Bidua	0	4	4	101	4%
Basor	0	15+	15	345	4%
Baded	10+	4	14	377	4%
Totals	10	30	40	938	4%

Table 9. Summary of Yabong immigration

There are a minimal number of people immigrating into the Yabong area with three-fourths of Yabong immigrants comprised of women marrying into the language area. Interviewees reported that most of these women learn the language quickly and their children usually grow up knowing Yabong.

All the Yabong villages, except Baded, reported no men immigrating into their village. In Baded they reported more than ten Karo speakers buying land from them. These are most likely Karo speakers moving out of the mountains to be near the coast. It was reported that these Karo speakers did not learn Yabong, which is understandable as everyone in Baded, except children, are reportedly able to speak Karo.

	Men	Women	Total	Population	% of Emigrants
Masi	5	5	10	115	8%
Bidua	6	0	6	101	6%
Basor	32	10+	42	345	11%
Baded	13+	3	16	377	4%
Totals	56	18	74	938	7%

Table 10. Summary of Yabong emigration

The number of people emigrating from the Yabong area is about double that of people immigrating into the area. The number of men leaving the area is more than five times the number of men coming in. It is reported that most of these men left to find work and ended up marrying and settling down near

their work place. The number of women marrying out of Yabong is only about 60 percent of those marrying in.

It is reported that many emigrants return once a year, or once every few years, and that they normally use Yabong when they return. About half of their children are reported to know Yabong when they return to the language area or learn some when they visit.

Emigrants are reportedly scattered across Madang Province and other provinces. There do not appear to be any settlement blocks even in Madang town. Respondents reported that people are scattered around town. We only found one well-educated retired man who had returned and bought a block of land near Lamtub Primary School where people from Masi village could live and send their children to school.

In general, immigration and emigration do not seem to have a negative impact on the vitality of the Yabong language. However, the villages of Basor and Baded do seem to be more affected than the other villages.

Migum language

Men Women Total Population % of Immigrants Lamtub 3 4 7 304 2% Singor 3 13 +100 16% 16 6 17 23 Totals 404 6%

Table 11. Summary of Migum immigration

In Migum, it was reported that few people are moving into Lamtub, so the rate of immigration should not have any effect on language vitality. However, Singor does have an immigration rate that is more likely to be having a negative effect on language vitality. The immigrants in Singor are mostly women and it is reported that women marrying in often do not learn the Migum language well. This could possibly overwhelm the language with people who do not speak it, increasing the use of Tok Pisin.

	Men	Women	Total	Population	% of Emigrants
Lamtub	1	2	3	304	1%
Singor	2	4	6	100	6%
Totals	3	6	9	404	2%

Table 12. Summary of Migum emigration

Interviewees indicated that few people leave the Migum language area. The reported 2 percent emigration average in Migum probably has a limited effect on vitality.

Three of the six emigrants from Singor return fairly often. However, both they and their children are reported to speak a mix of Migum and Tok Pisin when they return. This trend is not indicative of long term language vitality. We did not meet any well-educated elderly people in the Migum language area.

	Men	Women	Total	Population	% of Immigrants
Sorang	1	5	6	163	4%
Asang	1	5	6	146	4%
Reite	0	9	9	247	4%
Serieng	0	9	9	136	7%
Totals	2	28	30	692	4%

Table 13. Summary of Nekgini immigration

There are very few people immigrating into the Nekgini area and all but two (7 percent) of these immigrants are women marrying into the language area. Respondents reported that most women who marry into the language area learn at least some of the language, if not all of it, and most can understand it. About half of their children grow up knowing Nekgini. Women and children who have not learned Nekgini well communicate in Tok Pisin.

	Men	Women	Total	Population	% of Emigrants
Sorang	15	10	25	163	13%
Asang	3	12	15	146	9%
Reite	7	5	12	247	5%
Serieng	No data ^a	No data		(136)	%
Totals	25	27	52	556 ^b	9%

Table 14. Summary of Nekgini emigration

Unlike the consistently low level of immigration within Nekgini, the level of emigration varies widely from village to village. Data for this topic was inadvertently not collected in Serieng village, making it more difficult to make generalisations, but the available data shows a high rate of emigration from Sorang and Asang villages, which is likely to affect the language vitality at least in those villages.

The total number of male emigrants is nearly equal to the total number of female immigrants, even though there are varying patterns within individual villages. The men generally leave to find work while the women leave to marry. About 52 percent of the total number of emigrants remain somewhere on the Rai Coast, while only 11 percent go to Madang town. The rest go to quite a number of places scattered across the country. There do not appear to be settlements where Nekgini people have gathered anywhere outside the language area.

Respondents reported that more than half of the emigrants never return to the language area and the others seldom return. Only a few of the children who return with their parents know any Nekgini.

Immigration seems to be low throughout the language area, but emigration in Asang and Sorang is higher and may be negatively affecting the language vitality. It is not clear why the level of emigration is so much lower in Reite village.

^a This portion of the data collection was inadvertently skipped in Serieng.

^b This total does not include Serieng because emigration data was not collected there.

	Men	Women	Total	Population	% of Immigrants
Damoing	1	7	8	220	4%
Warai	5	21	26	223	12%
Totals	6	28	34	443	8%

Table 15. Summary of Neko immigration

The immigration patterns for the two villages visited in Neko differ widely, but the main reason for immigration is marriage. This is true even among the men, where three of the six men immigrated due to marriage. The other three settled in the area because of church work.

	Men	Women	Total	Population	% of Emigrants
Damoing	6	7	13	220	6%
Warai	25	42	67	223	23%
Totals	31	49	80	443	15%

Table 16. Summary of Neko emigration

The strong difference between Damoing and Warai villages also appears in the emigration patterns. While 6 percent of the residents reportedly leave Damoing, Warai reports a percentage that is almost four times that of Damoing.

Warai reported twenty men working in Madang and six men living in various provinces. They also reported ten women living on the Rai Coast, ten living in Madang town, seven in other parts of Madang province and fifteen living in other provinces.

There do not appear to be any specific settlements of Neko speakers in Madang or anywhere else. In general, the high emigration rate for Warai has a negative effect on the vitality of the language. However, they reported that the men return to the village reasonably often, speak the language when they return, and bring their children who also speak Neko.

3.1.10 Marriage patterns

Most men within the Yabong, Migum, Nekgini and Neko language areas marry women from within their own language group, with a small number of men marrying someone from another language area. When a marriage does occur with someone from outside the language area, the general pattern across all four language groups is for the wife to move to the husband's village. ¹¹

¹¹There are exceptions. For example, when young single men emigrate to find work they often settle away from the language community and marry a woman from that area.

Yabong language

In three of the four Yabong villages, each village has four to seven women married in from outside the language area. ¹² Basor is the exception, with ten women married in from the neighbouring Karo language, as well as four women from various other languages.

We were only able to gather data about the languages spoken by nine of the thirty women reported to be married into the Yabong language area (out of a population of 938). Respondents said that four of these women learned the language quickly and speak it well while five of them have not learned it. It is reported that the children of the women who learned Yabong also speak Yabong. One of the women who did not learn Yabong is from the Neko language. She speaks Neko and Tok Pisin, as do her children.

Respondents stated that the only men who have come into the area are ten Karo men who bought land in Baded twenty years ago. We were unable to determine whether these men are married to women from Baded or from their own language area.

Migum language

There are only two known villages within the Migum language area, and they will be described separately as there are notable differences between them.

Three men and four women are married into Lamtub (out of a population of 304). One of the men and one of the women married in about twenty years ago, and interviewees reported that this man can understand Migum, but not speak it. All the rest have been married between one and three years. One of the men, who has been married for two years, is reported to use both Migum and Tok Pisin and the other man has only been married for one year and uses Tok Pisin.

Language use data was only collected for three of the four women married into Lamtub. These three are reported to use both Migum and Tok Pisin and two of them are reported to know Migum well. The children of people married in are reported to use both Migum and Tok Pisin.

Singor village (with a population of 100) reported that three men and more than thirteen women have married into the village. All of the men and three of the women came from outside the Rai Coast. The three men and two of the women from outside the Rai Coast speak only Tok Pisin in the village, and no further information about the other woman was collected.

Respondents reported that two of the men and two of the women have been married in for at least ten years. The five children of one of these speak both Tok Pisin and Migum while the twelve children of the other three speak only Tok Pisin.

Nekgini language

In each of the four Nekgini villages, there are five to ten women who have married in from outside the language area. Of the twelve women whose language ability was reported, seven were reported to know the language well, two to know it moderately well, one to be able to understand it (and not speak it) and two to not know it at all.

There are reportedly only two men married into Nekgini from outside the language area. One of these men is living in Sorang and he is from the Rai Coast. He has been married for twenty years, speaks Nekgini well and has taught all six of his children to speak Nekgini well. The second man, living in Asang village, is from West New Britain. He has only been married one year and is in the process of learning the language.

 $^{^{12}\}mbox{See}$ table 1 for total population figures.

Neko language

Of the seven women married into Damoing village, it was reported that one uses Neko in the village, two use both Neko and Tok Pisin and one uses only Tok Pisin. No data was reported for the other three. Sixteen women have married into Warai. Five of these reportedly use Neko in the village, ten use both Neko and Tok Pisin, and nothing was reported regarding the language use of the remaining woman. Although data regarding level of proficiency in Neko was not obtained for all the women, three of the women in the language area were reported to speak Neko well. According to respondents, the children of women married into the language area are able to speak Neko.

Three men have reportedly married women from Neko and then settled into one of the Neko villages. All of these men know some Neko, but none were reported to know the language well.

3.1.11 Population Movement within the Language Variety

In general, the population of the area seems to be quite stable. In the Yabong language there is a movement of people coming out of the mountains to settle near the two schools on the coast so their children can attend. This movement consists mostly of people settling on the edge of Yabong land. We saw this as we approached the coast and found a number of villages consisting of people resettled from the Yabong villages of Bidua or Gogou. On the coast between Lamtub village and Lamtub Primary School we came across a settlement of Yabong people from Masi village, where a retired corrections worker had bought a small block of land.

In the Yabong language area a change appears to be occurring in the traditional living patterns as people are moving closer to the coast so their children can attend school.

The Nekgini villages do not appear to be making the same kind of shift. This could be due to the location of St. Monica Reite Primary School which is in the middle of the Nekgini language area.

The Yabong villages of Bidua, Basor and Baded seem to have a close relationship with each other, as well as with nearby Karo-speaking villages. This relationship is supported by the fact that many people in these villages seem to be bilingual in Yabong and Karo. The Karo speakers from Sinange village claimed that the people in these three villages are speakers of their dialect of Karo. There is a lot of intermarriage between these villages and neighbouring Karo-speaking villages. The relationship between Baded, Basor and villages in the Karo language area is further supported by the fact that Baded and Basor together send 156 children to Dein Primary School, which is in the Karo dialect area, but only send twelve students to Lamtub Primary School, which is about the same distance away.

Otherwise, there are very few ties made across language boundaries. Masi appears to have very little interaction with Sorang and Reite villages even though they are relatively nearby. No students from Masi attend Reite school even though, from the map, the Reite school looks closer than Lamtub.

Outside of the relationships existing from the traditional trading patterns (see section 3.1.8) there do not appear to be special social relationships that cross linguistic boundaries.

3.1.12 Roads and quality and availability of PMVs

In the 1970s and 1980s the Rai Coast Highway (see map 2) was built, connecting Saidor to Madang. Another road was also built in the Nekgini-Neko area as far as the Nekgini village of Reite. In the last ten years lack of road maintenance has diminished the accessibility of these roads to four wheel drive traffic only, and even that only during the peak of the dry season. There is a fairly new bridge over the Yakar River between Lamtub Community School and Singor village, both of which are in the Migum language area. It is possible to walk along the Rai Coast Highway between Warai (Neko), Singor (Migum), Lamtub (Migum) and Baded (Yabong). All these villages are located on or very close to the highway.

The Rai Coast Highway is a good footpath and useful for carts pulled by water buffalo. There are a few public motor vehicles (PMVs) that use the road during the dry season, and Warai residents report that a PMV ride to Madang takes three hours.

3.1.13 Water routes and transport systems

The only reliable transport in and out of the area is by sea. Respondents in every village reported that some people travel to and from Madang by sea, and respondents from every language area reported sea travel to Saidor. In addition, people in the Migum language area reported traveling to Biliau¹³ by sea and those in the Nekgini language area reported traveling to Lae, Bukati, Basamuk and Rai Coast High School.

There are about ten local dinghies that function like PMVs and carry passengers from the villages of Lamtub (Migum), Singor (Migum), Warai (Neko), Biliau and Saidor. Three dinghies are owned by residents of Lamtub and one is owned by residents of Singor, both of which are in the Migum language area. The dinghies make one round trip per day. It can take up to a couple of days to find a dinghy that is going to Madang.

Small private ships also travel along the coast picking up passengers and cargo. The timing of these ships is unpredictable.

Most people have been to town. In most of the area surveyed, interviewees reported travelling to Madang one to three times per year; some have not been to town for several years.

3.1.14 Trails

All travel inland from the coast is done on foot. Due to the lay of the land, with rivers coming straight out of the Finisterre range and valleys and ridges running straight up towards the mountains, there are very well used trails running north and south between the mountains and the coast. One reason these trails are well used by those farther inland is the access to goods and transportation that is found on the coast. Trails going east to west are not as well maintained because of the steep ridges running north to south.

Of the trails the survey team experienced, the well-maintained trails are those from Basor to Baded (both in Yabong) and from Singor (Migum) to Sorang (Nekgini), and on to Asang (Nekgini), Reite (Nekgini), Maibang (Ngaing), Serieng (Nekgini), Damoing (Neko) and finally Warai (Neko). The Yabong trails from Masi to Bidua and then part of the way to Basor were less travelled and in poorer condition. Along the coast we either walked on paths along the Rai Coast Highway, on trails near the beach, or on the beach itself. All of these were easily passable.

According to interviewees, no major trails have fallen into disuse.

3.1.15 Economics

Most people, especially those in the mountains, ¹⁴ are subsistence farmers. There are a few local businesses and some people raise cash crops.

People living in or near coastal villages¹⁵ tend to have more access to cash. Some operate dinghies, while others run trade stores. Since they live near the coast, they can often wait for less expensive ships to take their produce to Madang, whereas the person carrying a heavy load down from the mountains may feel the need to take the first (perhaps more expensive) dinghy available.

People in the Nekgini and Neko language areas seem to have been developing their cash economy for a longer time and more aggressively than people in the Yabong area. One result of this is that they have more possessions purchased from outside that area.

¹³People travel to Biliau because there is a market there, as well as a health centre.

¹⁴Mountain villages are defined in section 1.1.

¹⁵Coastal villages are defined in section 1.1.

Commercial ventures

There are no large commercial ventures within the area surveyed and there do not appear to have been any in the past.

The nickel-cobalt processing plant at Basamuk, located to the west of the language area, has very little economic impact on the area. However, there are six Yabong people from Baded village who work there and one Nekgini man from Asang village who, from time to time, is a mechanic there. Apparently, the people working at the plant live in Basamuk. It takes less than one hour by dinghy to get from Basamuk to Baded, so workers from that village can easily return home for breaks.

It appears that big business, including the Basamuk processing plant, does not have any noticeable effect in shaping the social structure or linguistic vitality of the vernacular languages in the area surveyed.

Local businesses

People sell betelnut, betel pepper¹⁶ and tobacco to each other. Locally grown foods are sold at markets located at schools and along the coast. All three primary schools in the area have established markets and charge a small vendors' fee as a fund raiser for the school. There are larger independent markets at Singor (in the Migum language area) and Biliau (in the Awad Bing language area). People also take their produce to Madang to sell it.

There are five dinghies, privately owned, in the Migum villages of Lamtub and Singor, that are operated as PMVs. Since dinghies are reportedly often full and hard to find, the dinghy business is likely a profitable one.

Most villages have a trade store stocking five to ten common items. There are more trade stores in villages along the coast with more items for sale.

There are no private plantations in the area, but along the coast there are individual coconut holdings that are generally well tended. These are mostly older, although some replanting has been done. We saw people caring for and harvesting coconuts as well as some functional copra dryers.

Inland from the coast the main cash crop is cacao beans. We hiked through many cacao stands that varied in both size and how well they are tended. We hiked through one in the Yabong language area that was well cared for and was at least a hectare or more in size. The average person may make between 200 to 500 kina¹⁷ per year from the sale of their cacao beans. We heard some people mention that they were expanding their plantings.

We observed a number of cacao fermentors in villages. Nekgini interviewees in Reite village claimed to have three fermentors and we observed one of them in operation. Also, Yabong people in Basor reported having three fermentors as well as three cacao dryers, one of which we saw. We watched the buying of cacao beans in the Nekgini village of Asang and met people on the trail from Asang to Singor (Migum) carrying beans to sell.

Betelnut grows well in the area. Many people stated that both betelnut and betel pepper are cash crops. They were also given as gifts to survey team members at the welcoming ceremony in Sorang village.

Vanilla was mentioned as a crop that had been established in the area, but was abandoned when the price dropped. We saw a number of vanilla plants still growing but they were not well tended.

Coffee was mentioned as a cash crop in Basor (a Yabong village). We did not see any coffee growing or any signs of it being processed.

¹⁶In Tok Pisin, daka.

 $^{^{17}}$ US \$7 = 17 kina at the time of the survey.

People in the Yabong language area grow large amounts of peanuts for their own consumption and for sale locally in Madang. However, those in the other areas do not grow as many.

3.1.16 Bilingualism with other vernaculars

In general, only a few people in each village know the neighbouring languages, and usually not very well. There does not seem to be any particular prestige in knowing other vernacular languages, and speakers of these other languages show little interest in learning Yabong, Migum, Nekgini or Neko, unless they have marriage ties with one of those languages.

There are, however, fairly complex exceptions. Due to this complexity, the information has been separated by language and village.

Yabong language

The people of Masi claimed that there are some people from each age group who are passively bilingual in neighbouring languages including Neko, Nekgini, Migum, Iyo or Karo. Elderly men and women are also able to speak these languages.

Bidua claimed that everyone speaks the Karo dialect, but nobody understands or speaks any of the other neighbouring vernaculars.

Basor also claimed that almost everyone, except boys and middle-aged women, speak the Karo dialect, but only 'a few' boys and middle-aged women can. They also claimed that all the elderly men and women speak Migum, some of the middle-aged and young women speak Migum and very few of the middle-aged and younger men and children speak Migum. It appears that the ability to understand Migum is being lost as time passes. Nobody understands or speaks any of the other neighbouring vernaculars.

Baded claimed that all the middle-aged and elderly people, both men and women, can speak Karo. They also said that some of their middle-aged men can understand the Migum language, while some of the elderly men can both understand and speak it.

Within the Yabong language area, bilingualism with Karo appears to be the result of marriage and other relationship patterns, such as children attending school in the Karo-speaking village of Dein.

Migum language

Lamtub stated that while some of their adults can understand but not speak Yabong, only a few of their children can understand it.

Singor claimed that they are not able to understand or speak any other vernacular languages.

Nekgini language

Sorang and Asang claimed that they are not able to understand or speak any other vernacular languages. Reite claimed that a small number of their people can speak Iyo and Ngaing and a small number can understand but not speak the Migum language.

Serieng claimed that everyone except the children can understand but not speak Ngaing. The fact that Reite and Serieng report more bilingualism than the other two Nekgini villages is

probably related to the contact they have with neighbouring languages. Reite's contact seems to be due to the aid post and the school, which has students from the Neko and Ngaing language areas. Serieng is close to the Ngaing border, bringing greater contact with Ngaing-speaking people.

Neko language

Damoing and Warai claimed that they are not able to understand or speak any other vernacular languages.

3.1.17 Summary

Yabong language

Use of the Yabong language is strong, especially in the more isolated villages of Masi and Bidua. Masi and Bidua's main contact with the outside world is through Lamtub on the coast. There do not seem to be any social changes occurring that would have a negative impact on language vitality in these two villages, apart from the Masi man who now lives in Lamtub and provides housing for children attending Lamtub Primary School.

Basor and Baded have marriage ties with the Karo dialect. Except for younger children and some middle-aged women, everyone is bilingual in Karo. This seems to be an ongoing, long-term relationship that will not necessarily have a negative effect on the use of Yabong in these villages.

Baded is located on the Rai Coast highway, close to the beach. People in Baded seem to have more contact with Dein (Karo) and the Migum villages than the other Yabong villages do, making Baded the Yabong village that has the most consistent contact with sources of social change. Such contact could lead to language shift away from Yabong.

Migum language

Even though people told us that their children are not learning Migum, we observed children using the vernacular in many settings. Observed vernacular language use in Migum was, however, about 10 percent less than what we observed in the other languages on this survey (see table 6). Both Migum villages also reported that their children learn Tok Pisin as their first language (see table 3).

Many people travel through the Migum language area on their way to town or come to the Migum villages to buy trade store goods. In Singor it was reported that there are three adults (a man and two women) who have immigrated and lived in the village for more than ten years, and they only speak Tok Pisin. They have a total of twelve children who also only speak Tok Pisin. The best population figure that we have for Singor is about 100 people, so this means that at least 15 percent of the village does not speak Migum.

It was reported that Tok Pisin was used in all of the twelve domains that we asked about in our research (section 3.1.5), while Migum was reported as being used in only four domains. Also, when we asked people which languages children use to relate to family members, they reported Tok Pisin as an acceptable choice in every situation.

At present Migum is still a viable language, but trends have been established that are leading to a shift into Tok Pisin and possibly even the language's eventual death.

Nekgini language

The Nekgini language is strong in the villages of Sorang and Asang. It is weaker in Reite and Serieng because of the opportunities for outside contact available in these areas. St. Monica Reite Primary School and the aid post in Reite have been established for about forty years. Both of these bring in outsiders and the availability of education may encourage young people to leave the village for higher education and employment.

Neko language

We collected varied data about the strength and viability of the Neko language. Language use observations show a strong use of the vernacular (see table 6). However, Warai village has high emigration levels. Although both villages reported many domains where the local language is used (see table 7), all of these domains also overlap with Tok Pisin.

Use of Neko seems to be fairly strong, but high levels of emigration and use of Tok Pisin in all domains could lead to a language shift toward Tok Pisin.

3.2 Language attitudes

3.2.1 As reported by residents

All four languages surveyed appear to have neutral prestige based on the attitudes of outsiders. Speakers of other languages do not seem to have any interest in learning the languages in the survey area, except where there are marriage ties. While in town or travelling to town, people reported using primarily Tok Pisin. However, when we asked what language they would use in that same setting to speak to a friend from their language area, they reported that they would use their vernacular. This indicates that their language is not assigned low prestige by outsiders, because they are willing to use their language in public settings in town.

It appears that there are no local vernaculars that have a higher prestige than the others. Most people from the languages surveyed did not report any interest in knowing any of the other vernacular languages. The exception was villages of western Yabong where they speak Karo because of marriage and social ties with nearby Karo villages. There still does not appear to be any special prestige in knowing Karo.

There are two things that would help increase positive language attitudes in the surveyed languages. There are no written materials in these languages except for some prep school materials that have been produced recently. Increasing the production and distribution of these materials may foster positive language attitudes. Speakers in none of these languages reported their local language being used on radio broadcasts. Changing this may also encourage more positive language attitudes.

Nevertheless, the responses to the following questions indicate that people in the area generally do have positive attitudes toward their own language.

What languages do you like hearing stories in? Everybody reported their local language, except in the Nekgini village of Serieng, where they reported Tok Pisin.

What languages do you want your children to know well? Everyone's first response was their own language. The second response was usually Tok Pisin, followed by English.

What languages do you think your children will use when they grow up? Singor (Migum) was the only village to respond with Tok Pisin. The rest believe their children will use the local language.

What languages do you think your grandchildren will use when they grow up? With only two exceptions the response in all villages was their own local language. In Singor (Migum) they reported Tok Pisin and in Baded (Yabong) they reported Tok Pisin and English.

What language do the children in this village learn first? The response to this question in Yabong villages was always Yabong. Responses from villages in the other language groups were varied and are shown in table 17.

Before school age do the children understand/use the vernacular well? and Do they speak it as well as you? The response to both of these questions in Yabong villages was always "yes" with the exception of Baded village where they said the children only speak the language about half as well as adults. The responses of the other villages were somewhat mixed and are shown in table 17.

Language Migum		Nekgini		Neko				
Village	Lamtub	Singor	Sorang	Asang	Reite	Serieng	Damoing	Warai
What language do the children in this village learn first?	Tok Pisin	Tok Pisin	Nekgini	Nekgini	Tok Pisin	Tok Pisin	Neko	Neko
Before school age do the children understand/use vernacular well?	Yes	Some of it	Yes	Yes	Yes	No	Yes	Yes
Do they speak it as well as you?	Yes	Not quite	A little	Yes	Not quite as well	Know ABC's & a few words only	Not too well	Yes

Table 17. Children's first language

Considering the data shown above, it appears that in all four languages people feel that their own language is still important. Their interest in its survival seems strongest in the mountain Yabong villages and weakest in Singor village, in the Migum language area. Serieng and Reite, both Nekgini villages, also show some signs of weakening language vitality.

3.2.2 As reported by school staff and parents

The survey team asked questions during both the education and community questionnaires to examine language attitudes. The responses varied depending on what type of school was being researched. In every village, the reported attitude towards outside languages is neutral. People do not have negative attitudes towards neighbouring languages or feel as though they are treated negatively when they leave their language area.

At the TPPS schools the attitude towards the vernacular is positive. The teachers of these schools feel passionately about the importance of children learning their language and about using the vernacular in school before starting government schools.

The school policy on language use changes as children move from elementary school to primary school. In the elementary schools, the vernacular is used in the classroom in order to build the foundations for Tok Pisin and English, but in the lower primary classes Tok Pisin is used rather than the vernacular. As the students progress through the grades, less Tok Pisin and more English is used until all the classes are in English. Policies restricting speech to English, both inside and outside the classroom, do not start until primary school. If children use the vernacular on school grounds the most common punishment is school grounds-keeping.

At Kibu Elementary in the Yabong village of Basor, the teacher reported that English and Tok Pisin are used as much as possible, and the vernacular is only used to explain concepts. He also reported that the children are encouraged to use English and Tok Pisin, but are allowed to use the vernacular as well. However, in response to a subsequent question about whether the children are punished for using the vernacular he replied that they are spanked. Several other men in the group, who are not teachers, disagreed, stating that it is against the law to spank children and is therefore not practiced.

The headmistress at Lamtub Primary School (Migum language area) and the headmaster at St. Monica Reite Primary School (Nekgini language area) have opposing views of the vernacular. At Lamtub the headmistress sees the vernacular as a threat to unification and does not see a value in having TPPS schools. The headmaster at St. Monica Reite Primary School is supportive of TPPS schools and wants to try to start bringing their graduates in at a higher grade level so they can avoid the boredom of lower-level work that they have already mastered in TPPS schools.

In the Migum village of Warai, the elementary teachers are interested in English education and learning how to improve the children's English quickly so they will be prepared for primary school and the economic world. They feel that vernacular education is important, but not at their school. They believe their job is to prepare the children for higher grades and the work world.

The difference between the attitude of teachers on the coast and in the mountains was marked. Teachers at the coastal schools, which included both schools in the Migum language area and one in the Neko language area, are less excited about vernacular education and more enthused about English. In some cases the teachers would be willing to teach a vernacular component, but had no response from the community or were criticized by the community. Some parents feel strongly that children should learn English in school and the vernacular at home. The only time children were observed at school was at Damoing Elementary (Neko) during a morning break. The children were code switching between Neko and Tok Pisin, but mainly using the vernacular.

In the communities, there was always enthusiasm for a better educational system even though there were varying degrees of openness to vernacular education among the teachers and headteachers. Each village expressed a desire for a school closer to their area or in their village. In the Neko villages of Damoing and Warai, and the Nekgini villages of Asang and Sorang, the teachers and community asked questions about how they could get practical help in expanding the educational possibilities for their children. The teachers at the TPPS schools in the Yabong and Nekgini language areas are, at the least, supportive of vernacular teaching, and often quite passionate about it. However, teachers in the higher level grades feel that English and Tok Pisin should be used within the domain of the classroom. Many responded that it was the law and whether they liked it or not they must abide by it. Among the parents and community members many people had positive reactions to vernacular education while a small number believed schools should teach the children English, not their own language or culture.

The people in this area highly value literacy. When asked how many men and women were able to read, none of the villages were able to give a specific number, but simply stated "too many people to count." Reite is the only village in which interviewees reported that more women than men can read.

There is a high degree of interest in language development and how SIL can practically help the people gain easier access to both vernacular education and higher grade levels. The communities are happy with their current schools because they are available, but they would like to see more educational opportunities come into their areas.

3.2.3 As inferred from behaviour

In general, the language attitudes discussed above are supported by our observations, which showed that in this area the local languages are used the most (see section 3.1.4). Tok Pisin is spoken and understood by everybody in the area, but according to our recorded observations it is only used in villages about one-third of the time.

There are some clear exceptions to the above generalisations. The two Migum villages differed widely in their reported beliefs about the vitality and importance of the local language. Respondents in Singor reported that they are shifting to Tok Pisin while the people in Lamtub village indicated that the local language is still strong. Our observations seemed to agree with Singor's report of language shift.

Warai village, in the Neko language area, reported that their vernacular is strong, but most of our observations indicated a shift to Tok Pisin similar to the shift we observed in the Migum villages of Lamtub and Singor.

Even though overall we observed more use of the vernacular than Tok Pisin, commands were mostly given in Tok Pisin. Commands are used to exert control over other people and therefore can be an indicator of what is considered to be the "language of power." We observed seventeen commands or reprimands given to children or adults. Of these, eleven (65 percent) were in Tok Pisin and six (35 percent) were in the vernacular. If Tok Pisin is truly seen as the language of power, this could be a factor driving a further shift toward Tok Pisin.

3.2.4 Requests for assistance

Mark Hepner, SIL's Madang Regional Assistant Director, requested a survey of this area in response to expressed interest in literacy and translation. Both Yabong and Nekgini have sent three participants to STEP in 2007 and 2008. They are doing well in their training and are establishing TPPS schools. Hepner also received a letter written by a group of people from the area, including names of people from both Migum and Yabong, with reference also made to Nekgini and Neko. The letter asks SIL to send a translator, help with TPPS materials and bring better services to the area. Some land in the Lamtub area has been tentatively set aside for SIL; however, as the entire community was not involved in thinking about this, it would need to be confirmed.

After the survey, a note was sent from the leaders of Sorang village to one of the surveyors requesting that they come back and start a translation project.

3.2.5 Interest in a language development project

Overall there appears to be interest in a language development project in this area. Throughout the survey we were accompanied by three STEP participants from Yabong and Nekgini. Michael Brugei (Masi) travelled with us for the duration of the survey while Leo Kuder (Bidua) and Samson Anis (Sorang) travelled during the first and last weeks, respectively. They came to help us relate to village leaders and collect accurate data, but they also wanted to raise awareness for the necessity of TPPS schools in the area. After the education questionnaire they were available to answer questions about how to start TPPS schools and to speak of their importance within the community. In the communities where TPPS schools were not available, people expressed interest in starting one. The communities where TPPS schools were already in existence were generally grateful for those schools.¹⁸

In the Nekgini and Neko communities, especially Warai, questions were raised about the accessibility of training programmes for language development and teacher training. There seemed to be a desire for a language development project in the language area with indications of a willingness to support such a project.

3.2.6 *Summary*

Each village visited has a similar general attitude towards the vernacular. They believe it is important to pass on the heritage of their language to their children and grandchildren; however they also believe it is important for the children to be educated in Tok Pisin and English in order to be "successful." Although one group of teachers in the Neko language area feels that TPPS schools are not worthwhile, overall the reported attitude towards the vernacular is positive.

3.3 Group identity

On the whole, the people in this area of the Rai coast still value their culture and make an effort to preserve it. Many villages have what they call a "customs committee." This is one person who is responsible for giving advice about how to run events in the traditional manner and is responsible for ensuring that the village's traditions are taught to the younger members of the community (e.g., during

¹⁸This attitude was not demonstrated by the people in Neko. The teachers in Damoing were neutral towards TPPS schools, while the teachers in Warai did not seem interested in them at all. They wanted someone to come and teach the children English in order to prepare them for the primary school in Biliau.

¹⁹We found out about this position relatively late during the survey and so could not determine exactly how many villages in the area have a customs committee.

initiation). However, in the Migum village of Singor the former customs committee reported that he resigned from his position because people did not listen to him. At the time of the survey no one had been chosen to replace him.

The most important customs to the people in this area are bride price, male initiation and the practice of giving gifts to members of one's extended family in order to develop good relationships.

Males at least twelve years old are initiated by spending approximately one month in a men's house. During this time they are taught how to fish, hunt, look after a wife, settle disputes, perform magic and keep other customs of the village. After this time they come out of the men's house with their bodies painted red and a *singsing*²⁰ is performed. In every village where we asked about initiation, we were told that it is common practice for all men to be initiated.

Magic still plays a significant role in the lives of the people in this area. Interviewees reported that, among other uses, it is a very effective way to seduce someone or make one's garden productive; it "always" works and "many" people use it. The only exception to this report was in Singor village (Migum language), where respondents said that many people use magic but many others do not. Also, the vast majority of interviewees reported being afraid of *sanguma*.²¹

Not all respondents explicitly stated whether or not they continue to practice traditional customs. It was reported in the villages of Serieng (Nekgini) and Warai (Neko) that traditional customs are still practiced. However, in Damoing, another Neko village, people said that their customs are changing, and in the Migum village of Singor interviewees reported that they have lost all of their customs apart from their traditional men's house. ²²

Although most people still appear to value their customs, they do not see themselves as having any traditions that are fundamentally different from the language groups around them. The only unique things they reported having are certain singsing and carvings that are unique to clans, but these are markers of clan identity, rather than language. As a welcome into a number of villages, the survey team was able to experience some of these *singsing* (see appendix A.2).

The villages that are farther away from the coast have less access to outside supplies. As we walked down from the mountain villages to the coast we saw increasing amounts of kerosene pressure lamps and roofing iron, we were fed more rice and the trade stores were better stocked.

In conclusion, the speakers of these four languages do have distinct clan identities although they do not seem to have cultural identities distinct from those of the language groups surrounding them. Many of the people are making an effort to retain aspects of their culture, such as the men's house. The coastal villages are experiencing a more rapid shift away from their traditional culture as a result of easier contact with Madang, the nearest town.

3.4 Conclusions on language vitality

From the data we collected, it appears that Yabong, Migum, Nekgini and Neko are all vital languages. There are some trends in Migum and Neko that could ultimately lead to language death, but the languages are still being used and are perceived by the speakers as valuable.

There are a number of factors that contribute to the vitality of the Yabong language. Villages in the Yabong language area are relatively remote, as travelling to town requires a hike lasting several hours and then a two-hour boat ride that costs 20-50 kina. ²³ In addition, Yabong, rather than Tok Pisin, is reportedly used during sports and for joking and arguing at home, as well as in traditional domains such as weddings and funerals. It was also reported that most women marrying into the language area learn Yabong, as do their children, and church leaders usually use Yabong when interacting with people

²⁰Singsing are traditional dances and songs.

²¹Sorcery used to harm people.

²²In Tok Pisin, haus tambaran.

 $^{^{23}}$ US \$7 = 17 kina at the time of the survey.

outside of church services. However, there are also factors that indicate a threat to the vitality of the Yabong language. There is no primary school in the language area, so most Yabong children attend school in the Migum or Karo language areas. Also, the survey team observed unbounded code switching between Yabong and Tok Pisin.

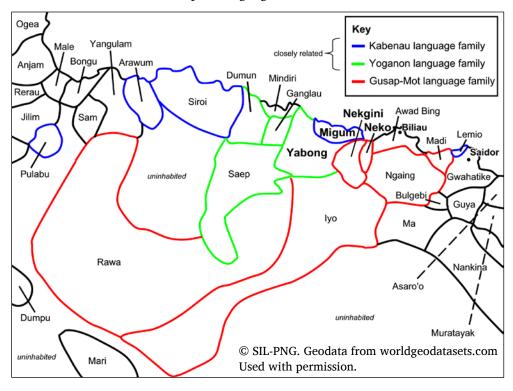
Several trends observed in the Migum language area indicate a possible threat to language vitality. A few people in the language area own dinghies, which they use to take people to Madang town on a daily basis. Although Migum is reportedly used for sports, joking, arguing at home and organizing weddings and funerals, Tok Pisin is used in these domains as well, and there is no domain in which Tok Pisin is not used. Respondents in Singor village reported that most of their traditional customs are no longer practiced, and it was reported that many of the women who marry into Singor do not learn Migum. The survey team also observed unbounded code switching between Tok Pisin and Migum. Although there is a primary school in the language area, as well as markets, Tok Pisin is used in the school and probably in the markets as well, since people from other language areas often pass through the Migum area on their way to town. All of the church leaders in the area are Migum speakers, but reported that they usually use Tok Pisin when interacting with people outside of church services.

Within the Nekgini language area, several factors indicate positive vitality for the Nekgini language. As in the Yabong language area, traveling to town from most Nekgini villages requires several hours of hiking as well as a two-hour boat ride that costs 20-50 kina. Nekgini respondents reported that Nekgini, rather than Tok Pisin, is used for arguing and praying at home, as well as for traditional events such as weddings and funerals. It was also reported that many women who marry into the Nekgini language area can speak Nekgini, and most can at least understand it. Most church leaders are Nekgini speakers and reportedly use both Nekgini and Tok Pisin when interacting with people outside of church services. However, the survey team did observe unbounded code switching between Tok Pisin and Nekgini.

Although 15 percent of the Neko population ²⁴ has reportedly emigrated, respondents reported that emigrants and their children often speak Neko when they return to the language area. It was also reported that some of the women who have married into the language area speak Neko, although language use data was not gathered for all immigrants. While the use of Neko by some immigrants and emigrants may be a positive factor for the vitality of the Neko language, there are a number of factors that indicate that language vitality may be at risk. The Neko language area is located on the coast, with easy access to dinghies making daily trips to Madang town. Although Neko is reportedly used for arguing and praying at home, organizing weddings and funerals, joking, sports, market and while traveling to town, Tok Pisin is used in all of these domains as well, and there is no domain in which Tok Pisin is not used. There is no primary school in the Neko language area, forcing children to travel outside the language area for education, and none of the church leaders interviewed are able to speak Neko.

²⁴Based on data collected in the two villages visited, Damoing and Warai.

4 Language and dialect boundaries



Map 3. Language boundaries

As seen in map 3, Migum is a member of the Kabenau language family, Yabong belongs to the Yoganon family and Neko and Nekgini are in the Gusap-Mot family.

4.1 Reported language and dialect boundaries

There are no clear perceived dialect distinctions within these four languages. The distinction between the languages themselves seems to be clear and undisputed with the exception of Nekgini and Neko, which are seen by a number of villages as being the same language. In both of the Neko villages visited (Damoing and Warai), respondents listed all of the Nekgini villages as part of the Neko language area. Also, respondents in the Nekgini village of Serieng identified Damoing and Warai as part of the Nekgini language.

Yabong language

The four villages that we visited (Masi, Bidua, Basor and Baded) have all reported themselves as being in the Yabong language area. All four villages also reported Gogou village to be a part of the Yabong language. Some villages reported that the following hamlets are near larger villages and other speakers may consider them to be a part of the larger villages: Amasi (Masi village), Fogwang (Baded village) and Frengen (Baded village).

Three of the four Yabong villages we visited reported that Lalo, which is a small village near Lamtub, is a Yabong-speaking village. Bidua village did not report this information. This is interesting since Lamtub reported that only a few of their people have the ability to understand Yabong, and none can speak it. It could be that this report was referring to a settlement of Yabong speakers near Lamtub.

Bidua village reported Singor as a Yabong-speaking village. However, Singor reported that people there cannot understand or speak any vernacular other than Migum.

Masi village reported that all of the villages except Baded are part of the Kaum dialect of Yabong. There were no other clear dialect distinctions made by the people, except for a few comments that Baded did not speak very pure Yabong.

Migum language

Lamtub and Singor each reported the other as a Migum village. Lamtub also reported a village called Kwarbeng as being part of the Migum language, but we were not able to locate it. No other villages were ever reported to be part of the Migum language by any other village.

Lamtub reported that all the Migum villages speak the same language, whereas Singor claimed that they themselves spoke differently from the rest of the language area.

Nekgini language

The four villages that we visited (Sorang, Asang, Reite, Serieng) each reported their own village and the other three as being part of the Nekgini language. Three of these four villages reported that Damoing village is also part of the Nekgini language area. Asang village did not report this information. However, Reite described Damoing as speaking Neko even though they listed it as a village within the Nekgini language area. Reite and Serieng also included Warai village in the Nekgini language area. Sorang reported the Ngaing-speaking village, Maibang, as speaking Nekgini. Serieng reported Goriyo village as Nekgini.

When asked about differences in the Nekgini language, all Nekgini villages reported that they each speak a little differently from the others and that the variety spoken in their own village is the purest form of Nekgini. There is one exception to this rule in that Reite claimed that Serieng also speaks the same as they do, although Serieng did not make that same claim about Reite.

Neko language

Damoing and Warai villages are in complete agreement as to who speaks the Neko language. They claim that both of their villages speak the Neko language and they also include the four villages of the Nekgini language as speaking Neko along with the village of Goriyo.

There is not a clear reported distinction between the Neko and Nekgini languages. Most villages in both language areas reported that all or most of the villages in the other language speak the same language as they do. It is not clear if this is due to linguistic similarity between the two languages, to passive bilingualism, or to both of these factors combined.

4.2 Methodology of lexical comparison

Barbara Hodgkinson elicited and transcribed wordlists in twelve different villages: Masi, Bidua, Basor, Baded, Lamtub, Singor, Sorang, Asang, Reite, Serieng, Damoing and Warai. In Basor, she also transcribed wordlists from residents of Baraking and Samung villages, for a total of fourteen wordlists. She used the 1999 revision of the SIL-PNG 190-item wordlist. Of these 190 items, twenty are sentences which were not used in the lexicostatistical comparison. Elicitation was always done in a group setting, with one person designated as the spokesperson for the group. The spokesperson was required to know the language well, to be known as someone who spoke the language well, to have been born in that village with parents from that village, and to have lived the vast majority of their life in that village. Hodgkinson elicited the wordlists in Tok Pisin.

Three items²⁵ were excluded from all fourteen lists because they contained no new morphemes. eleven additional items²⁶ were excluded from some lists for the same reason.

In addition, four items were excluded from some lists because of probable confusion in elicitation i.e., the word given for 'you (pl.)' in Bidua was the same as the word given for 'we'. See appendix A.4 for a complete list of excluded items.

WORDSURV was used to determine the percentage of the remaining words that shared lexical similarity. Words were considered to be similar if they met the criteria of 50 percent lexical similarity described by Frank Blair (1990:30–33). When roots could be identified, only the roots were compared and additional affixes were excluded. See appendix A.5 for a list of excluded affixes.

4.3 Characteristics of the language

The following table shows the phonetic inventory for the Yabong, Migum, Nekgini and Neko languages.

	Bilabial	Labiodental	Alveolar	Post-alveolar	Palatal	Velar	Glottal
Plosive	рb		t d			k g	?
Fricative		f v	S				h
Affricate				dз			
Nasal	m		n		л	ŋ	
Trill			r				
Lateral Approximant			1				
Approximant	w				j		

Table 18. Yabong, Migum, Nekgini and Neko consonant chart

Out of these phones, the [dʒ] and [n] phones occur only in the Migum language, while the [v] and [h] phones occur only in the Yabong and Nekgini languages. Phonetic charts for each language can be found in appendix A.2.

Although the [n] phone was transcribed as [n] and [nj], the two transcriptions were considered to be identical when comparing words.

In the Yabong, Migum and Nekgini languages, word initial prenasalization often occurs before [b], [d] and [g]. This was transcribed as a prenasalized plosive (in [ndaub], Yabong, item 76, Baded village); and as a consonant cluster (in [ndab], Yabong, item 76, Baraking village). The two transcriptions were considered to be identical when comparing words. More research is needed to determine whether these sounds should be treated as consonant clusters or prenasalized plosives.

There are six different vowels occurring in the Yabong, Migum, Nekgini and Neko languages. These are shown in table 19.

²⁵Items 49 (person), 63 (he drinks) and 65 (he kills).

²⁶Items 15 (foot), 28 (girl), 29 (boy), 62 (he knows), 89 (wet), 90 (dry), 104 (rain), 111 (seed), 114 (meat), 118 (feather) and 167 (they two).

Front Back

Close i u

Close-mid e o

Open-mid 5

Open a

Table 19. Yabong, Migum, Nekgini and Neko vowels

The [i], [e], [a], [o] and [u] phones occur in all four languages. The phone [ɔ] was only transcribed twice, in items 159 and 163, in the Yabong language (Baded village). However, according to Hodgkinson, most of the phones transcribed as [o] were actually pronounced as [ɔ] in all four languages, although the difference between the two phones did not appear to be significant to the speakers. Hodgkinson reports that within the same village, one speaker would use [o] while another speaker used [ɔ].

Clusters of two or three vowels are very common in all four languages. Eight different combinations of vowel clusters are found in the Neko language, thirteen in Nekgini, seventeen in Yabong, and eighteen in Migum. See appendix A.3 for a list of vowel clusters occurring in each language.

Word order in all four languages is generally SOV, as exemplified by the following Migum sentence (from item 180, Lamtub village).

(1) paran nai nis-oi man yam eat-3.SG.PRES 'The man eats the yam.'

When there is an indirect object in the Migum, Nekgini and Neko languages, the indirect object occurs between the direct object and the verb, as shown below (from Nekgini, item 186, Reite village).

(2) ai ŋu-ta patuwaŋ mimotuŋ ŋu ena-jaŋ man he-? dog boy he give-3.SG.PAST 'The man gave the dog to the boy.'

In the Yabong language, the direct and indirect objects both occur between the subject and the verb, but either the direct object or the indirect object can come first, as shown below (from item 186, Gogou village and Masi village).

- (3) iri-be maksa so nu-rem man-? boy dog give-3.SG.PAST 'The man gave the dog to the boy.'
- (4) nun-gut so maksa-te nu-rem he-? dog boy-IO give-3.SG.PAST 'He gave the dog to the boy.'

Notice that when the indirect object comes after the direct object, it is marked with a suffix, presumably an indirect object marker.

In all four languages, adjectives (including numbers) follow the nouns that they modify, as shown in the following Yabong sentence (from item 185, Gogou village).

(5) iri ndanube so ginupta a-rem man big dog small hit-3.SG.FUT 'The big man hit the small dog.'

In the data elicited for the Yabong and Migum languages, time words are always the first word in the sentence as in this example (from Yabong, item 181, Masi village).

(6) ewan nun murek u-rem yesterday he yam eat-3.SG.PAST 'Yesterday he ate the yam.'

In the data elicited for Nekgini and Neko, time words always precede the verb, but they can occur either before or after the subject, as shown in the following two sentences (items 178 and 181 from Reite village).

- (7) ai ŋu itom alo-juŋ man he yesterday go-3.SG.PAST 'The man went yesterday.'
- (8) itom nu wainu na-jan yesterday he yam eat-3.SG.PAST 'The man ate the yam yesterday.'

Tense, as well as number, is marked on the end of verbs in all four languages. The following tables show the probable verb suffixes in each language for singular subjects in the past, present and future tenses, as well as plural subjects in the present tense. Data for plural subjects in the past and future tenses was not elicited. Example sentences can be found in appendix A.4.

Present Past Future

Singular -dem -rem -udem

Dual -ribik not elicited not elicited

Plural -ribin not elicited not elicited

Table 20. Yabong verb suffixes

Table 21. Migum verb suffixes

	Present	Past	Future
Singular	-oi	-at	-au
Plural	-aking	not elicited	not elicited

Table 22. Nekgini verb suffixes

	Present	Past	Future
Singular	-tiŋ or -teŋ	-jaŋ	-wijaŋ
Plural	-kaŋ or -karaŋ	not elicited	not elicited

Table 23. Neko verb suffixes

	Present	Past	Future
Singular	-tijaŋ	-jaŋ	-waŋ
Plural	-jak	not elicited	not elicited

In the Yabong language, a sentence appears to be negated by adding the prefix e^i - and the suffix -ku to the verb root, as shown in the following pair of sentences (items 183 and 184, Gogou village).

- (9) irip so a-rem man dog hit-3.SG.PAST 'The man hit the dog.'
- (10) irip so eⁱ-a-ku
 man dog NEG-hit-NEG
 'The man did not hit the dog.'

Negation appears to be shown in the Migum language by affixing the suffix -ai to the verb root, followed by the word 'kalom'. This is shown in the following pair of sentences (items 183 and 184, Singor village).

- (11) paran ngon ul-at man dog hit-3.SG.PAST 'The man hit the dog.'
- (12) paran ngon ul-ai kalom man dog hit-NEG not 'The man did not hit the dog.'

In the Nekgini and Neko languages, negation is shown by inserting the word 'kumo' before the verb, as shown in the following pair of Nekgini sentences (Nekgini, items 183 and 184, Asang village).

- (13) ai nu patuwan ura-jan man he dog hit-3.SG.PAST 'The man hit the dog.'
- (14) ai ŋu patuwaŋ kumo ura-jaŋ
 man he dog not hit-3.SG.PAST
 'The man did not hit the dog.'

Hodgkinson notes that in Masi, Bidua and Basor villages (Yabong language area) stress always occurs on the second syllable. No further statements can be made regarding stress, as it was not transcribed consistently.

4.4 Lexical similarity chart

Tables 24 through 27 show the percentage of lexical similarity between individual villages within each language.

Table 24. Percent of similarity between Yabong villages

Baraking	86				
Bidua	84	80			
Baded	80	84	76		
Masi	88	80	81	71	
Samung	92	93	86	81	85
	Basor	Baraking	Bidua	Baded	Masi

Table 25. Percent of similarity between Migum villages

Lamtub 84 Singor

Table 26. Percent of similarity between Nekgini villages

Sorang 73
Serieng 79 63
Asang 84 79 72
Reite Sorang Serieng

Table 27. Percent of similarity between Neko villages

Damoing 78 Warai

The following table shows the average percentage of lexical similarity between languages.²⁷

Table 28. Average percent of similarity between Yabong, Migum, Nekgini and Neko

Migum 5
Yabong 4 8
Nekgini 61 5 4
Neko Migum Yabong

O. R. Claassen and K. A. McElhanon (1970:48–49) compared wordlists from the Yabong, Migum, Nekgini and Neko languages. Each wordlist had between 47 and 128 words, and McElhanon compared the words using Gudschinsky's "inspection method" (Claassen and McElhanon 1970:47). Table 29 shows the percentage of similarity according to McElhanon.

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²⁷See appendix A.7 for a table of lexical similarity between all villages surveyed.

Table 29. Percent of similarity according to McElhanon

Migum	8		
Yabong	11	19	
Nekgini	68	7	19
	Neko	Migum	Yabong

The fourteen wordlists from the Yabong, Migum, Nekgini and Neko languages were also compared with a wordlist from the Ngaing language, using the method described in section 4.2. The Ngaing wordlist shown in table 34 was elicited in 1994 by Anne Dondorp. Table 30 shows the average similarity of Ngaing to the Yabong, Migum, Nekgini and Neko languages.

Table 30. Average percent of similarity between Ngaing and neighbouring languages

Ngaing	31	28	4	3
	Nekgini	Neko	Migum	Yabong

As seen in this table, Ngaing shares very little similarity with any of these languages. It is therefore unlikely that they could be served by literature in the Ngaing language.

4.5 Interpretation

Using the average link method (Grimes 1995:69–73), the lexical similarity between villages in the Yabong, Migum, Nekgini and Neko language areas is as shown in figure 2.

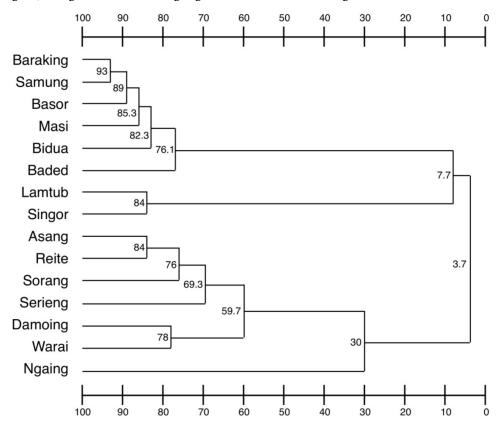


Figure 2. Lexical similarity according to the average link method.

Lexical similarity, both between languages and between villages within each language, is surprisingly low. It is particularly surprising that Neko and Nekgini are (on average) only 61 percent

similar, since they are both in the Gusap-Mot language family and many Neko and Nekgini speakers report that they are actually the same language. However, according to Hodgkinson, lexical similarity in the Rai Coast area is often rather low, even between varieties that are mutually intelligible. In line with that observation, in 1994, John Brownie, Anne Dondorp and Lynn Landweer conducted a survey of the Ngaing language area and stated that "the percentages between the Ngaing villages are rather low.... The majority of the percentages are below 80 percent...despite these low apparent cognate percentages, the people still reported that Ngaing was one language, and, more importantly, that they could all understand each other" (Brownie et al. 1994:18).

It is also possible that the perceived similarity between Neko and Nekgini is due more to acquired passive bilingualism than to actual lexical similarity. This would explain both the reported intelligibility between the two languages and their apparently low lexical similarity.

4.6 Conclusion

In this report, we refer to Yabong, Migum, Nekgini and Neko as individual languages. Nekgini and Neko report that they are the same language, however they have a very low percentage of lexical similarity. A similar situation occurred within the villages of Ngaing, a neighbouring language, and is therefore not uncommon along the Rai Coast. We visited two of the three villages in the Neko language area and both claimed that the four Nekgini villages are part of the Neko language. Not all of the villages in Nekgini made the same claim about Neko; however, some of them do include one or both Neko villages as part of the Nekgini language. Although our data is not complete enough to truly understand the situation, we suggest that there may be acquired passive bilingualism between Nekgini and Neko rather than actual lexical similarity between the languages.

First, the two languages share on average only 61 percent lexical similarity. While it is possible, as mentioned previously, that languages on the Rai Coast simply tend to have a lower lexical similarity even when they are mutually intelligible, 61 percent is still quite low for two varieties to be considered as the same language.

Second, some villages reported that they can understand the other language, while others do not. Both Neko villages reported that they can understand all the villages in the Nekgini language. Two villages in the Nekgini language reported being able to understand the Neko villages, while respondents in another Nekgini village reported that they cannot understand the Neko villages. Reported comprehension between Nekgini and Neko is summarized in the following table.

Language	Village	Adults able to understand villages in the other language?	Children able to understand villages in the other language?	Children able to understand their own language?
Nekgini	Sorang	yes ^a	no ^b	yes
	Asang	no data	no data	yes
	Reite	no	no	yes
	Serieng	yes	no	no
Neko	Damoing	yes	no	some
	Warai	yes	no	yes

Table 31. Reported comprehension between Nekgini and Neko languages

^a Unfortunately, this data was not collected during the survey. At a later meeting, this is what Samson Anis said.

^b Unfortunately, this data was not collected during the survey. At a later meeting, this is what Samson Anis said.

If comprehension between the two languages was due to lexical similarity, it would be expected that all villages could understand each other. It is possible, of course, that some villages are more lexically similar than others, but Reite, the Nekgini village reporting that they cannot understand the Neko villages, actually shares more lexical similarity with Neko than do any of the other Nekgini villages. ²⁸

Finally, the two Neko villages reported that, while they can understand the Nekgini villages, their children cannot understand the Nekgini villages. Their children can, however, speak their own vernacular. If understanding was due to lexical similarity, then there would be no reason why children who speak their own vernacular could not understand a similar language that adults were able to understand. This hypothesis was confirmed by Samson Anis, a resident of Sorang village and speaker of Nekgini. Samson reported that people in his village are able to understand the Neko language, but he thought that a man who had stayed in Sorang all his life and never been to a Neko village before would not be able to understand Neko.

We decided to keep Nekgini and Neko as separate languages because there does not appear to be enough evidence to the contrary. Regardless, many speakers of these languages do see Nekgini and Neko as one language.

5 Conclusions

From the data we collected, it seems that Yabong, Migum, Nekgini and Neko are all vital languages. There are some trends in Migum and Neko that could ultimately lead to language death, but the languages are still being used and are perceived by the speakers as valuable.

Yabong, Migum, Neko and Nekgini are four separate languages. Although some people reported Neko and Nekgini to be the same language, lexical similarity and reported comprehension seem to indicate that they are, in fact, separate languages.

²⁸See appendix A.7.

Appendix A. Wordlists and analyses

A.1 Wordlists

From table 32 through table 34, words in italics are synonyms or alternate pronunciations; words in bold were excluded from the lexicostatistical comparison.

Table 32. Yabong wordlists

		Yabong							
		Masi	Bidua	Basor	Baraking	Samung	Baded		
1	head	bikiŋ	bikiŋ	bikiŋ	bikim	bikim	bikiŋ		
2	hair	inu	inum	inuŋ	inu	inu	inut		
3	mouth	maŋgahet	maŋgahem	maŋgaset	maŋgasem	maŋgasem	maŋgaset		
4	nose	wamet	wamem	wamem	wamem	wamem	wamet		
5	eye	amat	amam	amam	amam	amam	amat		
6	neck	ŋˈguroŋ	n'guroŋ	nguroŋ	ngurom	ngurom	kuduŋ		
7	belly (exterior)	simut	simum	simum	simum	simum	sumut		
8	skin	garaŋ	gaton	garaŋ	anuŋ	garan	ⁿ gatoŋ		
9	knee	bakit	bakim	bakim	bekim	bakim	bekit		
10	ear	sedep	sedem	sidem	sidem	sedem	sidet		
11	tongue	maŋgut	meŋum	meŋum	meŋum	meŋum	meŋut		
12	tooth	терар	mapam	mapam	mapam	mapam	mapat		
13	breast (her)	susut	susum	susum	susum	susum	susut		
14	hand	amop	amom	amom	amom	amom	amot		
15	foot	anet japtu	anim	anim japtu	enim pusot	anim pusot	enit		

		Yabong							
16	back	i'wup	ibum	ibum	ibuŋ	ibuŋ	ibut		
17	shoulder	ka'rip	karim	karim	mburem	kalim	gaidet		
18	forehead	a'hap	asam	asam	asam	asam	asat		
19	chin	mepdet	medemem	medem	medem	medem	medet		
20	elbow	kawit	amom bakit	amom kwavit	amom kebit	am kwabit	amot kwebik		
21	thumb	munu	amom munu	amom munu	amom munu	amom munu	amot munu		
22	leg	ani	daugom	anim	enim	anim	enit		
23	heart (pumps blood)	pusot gaŋut	pusom gaŋut	pusom gaŋut	pusom gaŋut	pusom gaŋut	kupiŋ		
24	liver	da'up	kaudome	daup	ⁿ doum	ⁿ daum	dese ⁱ tu		
25	bone	si'tu	fitum	fitut	fitum	fitum	fitut		
26	blood	nda ^h	nda ^h	ndamjem	nda ^h	nda ^h	ⁿ da ^h		
27	baby	ⁿ dare roko	abu	abu	abu	abu	abu		
28	girl	wanemak'sa	wanemaksa	wanemaksa	wane maksa	wane maksa	wane maksa		
29	boy	iri mak'sa	iri maksa	iri maksa	iri maksa	iri maksa	iri maksa		
30	old woman	wan da'wak	wandawak	wandawak	wane duak	wanduak	wane duak		
31	old man	iri da'wak	iri duwak	iri dawak	iri duak	iriduak	iri duak		
32	woman	wa'ne	wane	wane	wane	wane	wane		
33	man	iri	iri	iri	iri	iri	iri		
34	father	ga'ku	ga'ku	di	ndi	ndi	ⁿ di		
35	mother	munu	munu	umo	wom	omo	wom		
36	brother (older of man)	'aunu	aunu	baba	aunundab	au nundaube	au unu		
37	sister (older of man)	niknu	aunu domube	niknu	nik nun daub	nik nundaube	nigne		

		Yabong						
38	name	im	imut	imut	imut	imut	imut	
39	bird	amahai	uwe	kwe?	kwe?	kwe?	kwe	
40	dog	so	so	so?	so?	so?	so	
41	pig	bo	bo	bo?	bo?	bo?	bo	
42	cassowary	namba ^k	kawad	kawat	kewed	kawad	kewed	
43	wallaby	da'vi	da'bi	dabi	debi	dabi	debi	
44	flying fox	mbiaŋ	ndamiŋ	ndamiŋ	ndemiŋ	ndamiŋ	ⁿ demiŋ	
45	rat	sago	sago	sago?	sago	sago	sago	
46	frog	ndako	ndako	ndako	ⁿ dako	ⁿ dako	da ^u ko	
47	snake	kuna	kuna	sawai	sawai	sawai	sawai	
48	fish	pa'det	pa'det	padet	paded	paded	paded	
49	person	iri	iri	iri	iri	iri	iri	
50	he sits	fa ki jem	fakebu	fak jem	nuŋ fakem	nuŋ fakem	nuŋ fakem	
51	he stands	di kijem	dikem	dik jem	nuŋ dikem	nuŋ gikem	nuŋ dikem	
52	he lies down	sina jem	sinerem	sinejem	nuŋ sinedem	nuŋ sinedem	nuŋ sinedem	
53	he sleeps	ama buŋijem	ama buŋbe sinerem	amambumba sinejem	amam buŋdesinedem	amam buŋbasinedem	nuŋ amambungba	
54	he walks	ahijem	asidem	nuŋ asijem	nuŋ asidem	nuŋ asidem	nuŋ asidem	
55	he bites (the dog bites the man)	sot gahijem	so da iri gadem	soda iri gajem	so? iri gadem	so? iri gadem	sod iri gadem	
56	he eats	u ⁱ jem	ma udem	nuŋ ujem	nuŋ maudem	nuŋ maudem	gadem	
57	he gives it to me	wakejem	manebem	nebijem	nebem	nebem	na nedem	
58	he sees	ne ⁱ jem	nedem	ne ⁱ jem	nugut nedem	nuŋgut nedem	nuŋ nedem	
59	he comes	jejem	se ⁱ jem	se ⁱ jem	se ⁱ em	se ⁱ em	nuŋ se ⁱ jem	

		Yabong						
60	he says	bi ⁱ jem	bidem	bi ⁱ jem	nugut bidem	nuŋgut bidem	nuŋ bidem	
			nuŋgut bidem	•				
61	he hears	ti ⁱ jem	manda tidem	ti ⁱ jem	nuŋ tidem	nuŋ tidem	nuŋ tidem	
62	he knows	nuŋ ti ⁱ jem	manda tidem	nuŋ ti ⁱ jem	nuŋ tidem	nuŋ tidem	nuŋ watai	
63	he drinks	u ⁱ jem	jag udem	nuŋ jag ujem	jag udem	jagudem	nuŋ jag udem	
64	he hits	a ⁱ jem	adem	ajem	adem	adem	nuŋ adem	
65	he kills	an mo ⁱ jem	am modem	an mojem	an modem	an modem	nuŋ an modem	
66	he dies	mo'rem	ak modem	morem	ap mom	ap mom	ap modem	
67	it burns	fa rojem	fa rodem	fa rojem	fa rodem	fa rodem	fa rodem	
68	it flies	puputik ahijem	puputidem	puputik asijem	puputik asidem	puputik asidem	nuŋ puputik asidem	
69	he swims	jak so ⁱ jem	jag soudem	jag suajem	jag ndemem	jag ndemem	nuŋ jag suwodem	
70	he runs	bu ti ijem	butidem	butijem	butidem	butidem	butidem	
71	he falls down	a ⁱ jem	adem	ajem	wok adem	okadem	nuŋ busuk tidem	
72	he catches	gena wahat ⁱ jem	tapok wadem	wasag jem	geba usak kem	geba wasakem	gen na usakem	
73	he coughs	duku a ⁱ jem	duku adem	dukuajem	nduku adem	nduku adem	nuŋ duku adem	
74	he laughs	awuk i ⁱ jem	abukem	abuk jem	abukem	abukem	nuŋ abukem	
75	he dances	jamu a ⁱ jem	jamnedem	jam najem	jam nedem	jam nedem	jam nedem	
76	big	ⁿ da'ŋuwe	mandaube	ndaŋube	ndab	ndawube	ⁿ daub	
77	small	ginuwe	ginibe	ginube	gib	ⁿ ginube	gib	
78	good	sam'tu	sam'tu	sam'tu	samtu	samtu	samtu	
79	bad	fi ⁱ tu	fi'tu	fitu	fitu	fitu	fitu	
80	long	petku	petku	kwanu	kanu	peku	kanu	
81	short	ⁿ gamnu	ngamnu	ngamnu	ngamnu	ngamnu	gabnu	

		Yabong								
82	heavy	taot	ta'ot	ta'ot	daut	taut	tawot			
83	light	fa ⁱ eŋ	fawom	fa'oŋ	fa ^u oŋ	faoŋ	pakoŋ			
84	cold	gimu	giŋu	giŋu	giŋu	giŋu	giŋu			
85	warm, hot	nga ⁱ inu	ngainu	ngainu	gainu	ngainu	ⁿ gasnu			
86	new	keŋgam	keŋgam	kiŋgam	teŋgam	kiŋgam	kiŋgam			
87	old	tupu	buratopu	tapu	suo'tik	suoitik	suoitik			
88	round	papum	papum	papum	papum	papum	papum			
89	wet	buku	buku	jag gidoŋ	jag didoŋ	jag didoŋ	buku			
90	dry	kekren	gareku	gareku	riseŋ	jag mim	liseŋ			
91	full	fatiku	fatidem	fatiku	fatiku	fatiku	fatiku			
92	road	fara	fara	fara	fara	fara	fara			
93	stone	sa'mo	samo	samo	samo	samo	samo			
94	earth	da'ri	dari	dali	ⁿ deri	ⁿ dali	deli			
95	sand	ka'um	kawuŋ	ka'uŋ	kauŋ	kauŋ	kauŋ			
96	mountain	ka ⁱ ep	baptu	baptu	fakutiku	^m baptu	baptu			
97	fire	fa	fa	fa	fa?	fa?	fa			
98	smoke	fafa ⁱ k	fafaik	fafaik	fafaik	fafaik	fafaek			
99	ashes	fa'deo	fa'deo	fa deo	fadeo	fadeo	fadeu			
100	sun	ke	ke	ke	ke?	ke?	ke			
101	moon	rawo	jabo	jabo	rabo	rabo	labo			
102	star	ⁿ gipa	ⁿ gipa	gipa	gipa	gipa	gipa			
103	cloud	sawoŋ	saboŋ	saboŋ	saboŋ	saboŋ	simtu			
104	rain	a'ut	a'ut	a'ut	aud	aud	awud			

		Yabong							
105	wind	dak	dag	dak	dag	dag	didiŋ		
106	water	jak	jag	jag	jag	jag	jag		
107	vine	ruma	ruma	ruma	ruma	ruma	ruma		
108	tree	vi	vi	wi	vi	vi	vi		
					wi	wi			
109	stick	vi ^t koŋ	vi siket	wit koŋ	wit koŋ	wit koŋ	vi siket		
110	bark	viŋ ŋgotoŋ	vi gatoŋ	wi garoŋ	wi gatoŋ	wi gatoŋ	vi gatoŋ		
111	seed	vi gaŋut	vi gaŋut	wi gaŋut	wi gaŋut	wi gaŋut	vi goŋut		
112	root	vi be ^u veŋgut	vi bebeŋgut	wi bebeŋgut	wi bebeŋgut	wi bebeŋgut	vi bebemno		
113	leaf	i'nut	vi inut	wi inut	wi iŋtu	wi inut	vi intu		
114	meat	pa'det	mandak	bo padet	paded	padet	mundak		
115	fat	weren	weren	weren	weren	weren	weren		
116	egg	gaŋut	gaŋut	gaŋut	gaŋut	gaŋut	goŋut		
117	louse	imiŋ	imiŋ	imiŋ	imiŋ	imiŋ	imiŋ		
118	feather	amahai inut	kuwe inut	kuwe inut	kwem buŋbuŋtu	kwe inut	kwe intu		
119	horn	gamatu	gamatu	gamatu	gamatu	ⁿ gamatu	gamatu		
120	wing	ba'den	baden	baden	baden	badentu	baden		
			badentu						
121	claw	divit	divit	hamo divit	amot dibit	amodibit	dibit		
122	tail	diŋut	diŋut	diŋut	diŋut	diŋut	diŋut		
123	one	beairek	berere	beairek	berere	berere	osab		
124	two	awude	abude	awude	abude	abude	abde		
125	three	apre	able	abre	able	able	abdebe		

			Yabong								
126	four	ba'di	badi	badi	bedi	badi	bedi				
127	five	ambe	ambe	ambe	ambe	ambe	ambe				
128	ten	am awude	neg dagam	ama wudeŋ	am abude	amabude	amabde				
129	taro	ta'mat	waŋ	waŋ	waŋ	waŋ	waŋ				
130	sugarcane	ba'dam	kapau	mapai jau	kapau	kapau	daŋ				
131	yam	murek	mureg	murek	mureg	muleg	muleg				
132	banana	ⁿ goŋ	ⁿ goŋ	goŋ	goŋ	goŋ	goŋ				
133	sweet potato	mbak	mbak	mbak	mbak	mbak	mbak				
134	bean	ma'hai	masai	masai	muse ⁱ	masa ⁱ	kapek				
135	axe	padgip	paindik	padit	roŋ	pa ⁱ ndik	loŋ				
136	knife	su	su	su	su?	su	su				
137	arrow	ko	ko	ko?	ko?	ko?	ko				
138	net bag	kap	kap	kap	kap	kap	kap				
139	house	au	au	au	au	au	au				
140	tobacco	faek	fa ⁱ 'ek	faek	fa ⁱ k	fa ⁱ ek	faek				
141	morning	memeŋku	memeŋku	memeŋku	memeŋku	memeŋku	memeŋku				
142	afternoon	ⁿ gamuŋku	gamoŋku	gamoŋku	ngamoŋku	ngamoŋku	ⁿ gamuŋku				
143	night	su ⁱ ku	suijem	baisu	be ⁱ su	ba ⁱ su	be ⁱ su				
144	yesterday	evaŋ	ebaŋ	avaŋ	abaŋ	ebaŋ	abaŋ				
145	tomorrow	тетел	тетел	mandaŋnaŋ	mandaŋna	mandaŋna	mandaŋna				
146	white	ka'hetiku	gibo ⁱ t	gahatiku	gibot	gibot	gibot				
147	black	sukatiku	sukatiku	sukatiku	su katiku	su	su				
148	yellow	mbuiptu	mbuiptu	mbuiptu	mbu ⁱ ptu	mbu ⁱ ptu	ⁿ gawatu				

		Yabong							
149	red	rurutiku	rurutiku	rurutiku	roku	rurutiku	roku		
150	green	kapbi	kadbi	kadbi	jaŋŋut	kadbit	janmut		
151	many	kundisoŋ	kundisoŋ	kundisoŋ	kundisoŋ	kundisoŋ	kundisoŋ		
152	all	didoŋ	biŋ didoŋ	didoŋ	didoŋ	didoŋ	didoŋ		
153	this	ena	ena	ena	ina	ena	ina		
154	that	ete	bena	ete	ete	ete	ene		
155	what?	mambe	mambe	mambe	mambe	mambe	mamab		
156	who?	nodo	nam nodo	nodo	namno	namno	noda		
157	when?	mamgatke	mamgatke	mamgatke	mamgatke	mamgatke	mamgotka		
158	where?	ndomka	ndomgaŋge	ndomkaŋ	ⁿ dom	ndon	ⁿ domsaŋ		
159	yes	jau	jo	jao	eksa	jowa	jə		
160	no	mim	mim	mim	mim	mim	mim		
161	not (he is not standing)	nuŋ ediku	mim netiku	ediku	ediku	ediku	nuŋ ediku		
162	Ι	na	nate	na	na	na	na		
163	you (singular)	nairek	nairek	nairek	nam	nam	nom		
164	he	nuŋ	sip abude	ete	nuŋ	nuŋ	ene		
165	we two (exclusive)	sip awut	nap abude	sip agut	sipat	sipat	sip		
166	you two	sip pat	sip abude	napabut	napat	napat	na ^u p		
167	they two	na tet	abude mande	iri awude	naktet	natet	lakabde		
168	we (pl exclusive)	siŋgat	siŋdidoŋ mande	siŋgat	siŋgat	siŋgate	siŋ		
169	you (plural)	naŋ tet	siŋdidoŋ mande	naŋgat	naŋgat	naŋgapte	nom		
170	they (plural)	паŋ	gaŋ didoŋ mande	naŋtet	naŋ	naŋtep	паŋ		

			Yabong							
171	he is hungry	maja mojem	ma ⁱ ja modet	ma ⁱ ja morem	ma ⁱ ja modem	ma ⁱ ja modem	nuŋ ma ⁱ ja modem			
172	he eats sugar cane	nuŋ badam u ⁱ jem	kapau udem	mapaija urem	kapaudem	kapa udem	nuŋ daŋ udem			
173	he laughs a lot	awuk ijem	iri abuk edem	abuk ak mojem	abukak modem	abukak modem	nuŋ aubukok modem			
174	one man stands	iri diki ⁱ jem	iribe dikem	iri be dikjem	irip dikem	irip dikem	iri osab dikem			
175	two men stand	iri awude dikrek	iri awude dikebi	iri awude dikribik	iri abu dikridik	iri abude dikebik	iri abde dikribik			
176	three men stand	iri apre dikriŋ	iri abe dikebem	iri able dikribik	iri abe dikribiŋ	iri able dik eblim	iri abdebe dikribiŋ			
177	the man goes	iri ahi ⁱ jem	iri asidem	iri asijem	irip dasidem	iri asidem	iri asidem			
178	the man went yesterday	ewaŋ ap ahem	ebaŋ iri asidem	abaŋ iri ap asirem	abaŋ irip deasidem	ebaŋ iripde asidem	abaŋ iri asirem			
179	the man will go tomorrow	memen nun ahi udem	memeŋ asi udem	mandaŋna iri asudem	mandaŋ na irip dasiudem	mandaŋna iripde asiudem	mandaŋ na asiudem			
180	the man eats the yam	nuŋ murek u ⁱ jem	mureg udem	iri murek ujem	iripde moreg udem	iri mureg udem	iri moreg udem			
181	the man ate the yam yesterday	ewaŋ nuŋ murek urem	ebaŋ mureg udem	abaŋ iri murek urem	abaŋ iripde moreg urem	ebaŋ iripde moreg urem	abaŋ moreg urem			
182	the man will eat the yam tomorrow	memeŋ nuŋ murek udem	memeŋ iri mureg udijem	mandaŋna iri murek udem	mandangna iripde moreg urem	mandangna iripde moreg udem	mandaŋna udem			
183	the man hit the dog	iri bet so am	irido so adem	irip so arem	iripte so am	iripte so am	irip so am			
184	the man didn't hit the dog	iri bet so e? aku	irido so aku	irip so e ⁱ aku	iripte so ijaku	iri so iaku	irip so eaku			
185	the big man hit the little dog	iri nda uwep so inu arem	iri doŋubeda so inu arem	iri ndaŋube so ginup ta arem	iriŋda ŋupte so gipte am	iri ndaŋupte so ginup team	iri dabbe so inu arem			
186	the man gave the dog to the boy	nungut so maksate nurem	iri teda so inu norem	iribe maksa so nurem	iriŋ daupte so iri ginup te nom	iri ndanupte iri ginup te so am	iribe so inu iri gipbe norem			

			Yabong							
187	the man hit the dog and went	iri tet so awa irarem	irite so abo asirem	iribe so auba irarem	iripte so aba iram	iriptet so aba iram	iri so aba irarem			
188	the man hit the dog when the boy went	maksate ahina iritet so arem	iri ginibe asida so irem	maksa iratbiŋ irida so arem	iri gipte am na so iram	iri ginupte irang na so am	iri gib asina irindab be so arem			
189	the man hit the dog and it went	iri tet so ana so ahem	iri akso ana so ana asirem	iribe so ana so irarem	iripte so am na so iram	iritet so am na so iram	iri so ana so irarem			
190	the man shot and ate the pig	iri tet bo rama urem	iri te bo abau urem	iribe bo abau uŋ	iripte bo am baum	iriptet bo abum	iri bo ramba bo urem			

Table 33. Nekgini and Neko wordlists

			Nekş	gini		Ne	Neko	
		Sorang	Asang	Reite	Serieng	Damoing	Warai	
1	head	pitaneŋ	pitaniŋ	pitaniŋ	tapoaŋ	pitniŋ	pitniŋ	
2	hair	juneªneŋ	june ^a niŋ	me ⁱ janiŋ	me ⁱ jiŋ	me ⁱ niŋ	ai me ^a liŋ	
3	mouth	maganeŋ	maganiŋ	maganiŋ	maganiŋ	makaniŋ	makaniŋ	
4	nose	uraneŋ	uraniŋ	uraniŋ	uraniŋ	uraniŋ	uraniŋ	
5	eye	te ⁱ neŋ	te ⁱ niŋ	te ⁱ niŋ	te ⁱ niŋ	te ⁱ niŋ	te ⁱ niŋ	
6	neck	puŋeneŋ	puŋeniŋ	puŋeniŋ	puŋeniŋ	puŋeniŋ	puŋeniŋ ka ⁱ	
7	belly (exterior)	aruneŋ	aruniŋ	aluniŋ	aluni	aluniŋ	alulniŋ	
8	skin	tokaneŋ	tokaniŋ	tokaniŋ	tokaniŋ	tokaniŋ	tokaniŋ	
9	knee	takumaneŋ	takumaniŋ	takumaniŋ	takumaniŋ	tarakumaniŋ	tarakumaniŋ	
10	ear	atipaneŋ	asipaniŋ	asipaniŋ	asipiniŋ	asipniŋ	asipniŋ	

			Nekş	Ne	Neko		
11	tongue	topaneŋ	topaniŋ	topaniŋ	topaniŋ	malepniŋ	melepniŋ
12	tooth	masineŋ	masiniŋ	masiniŋ	masiniŋ	masiniŋ	matniŋ
13	breast (her)	mamuneŋ	mamuniŋ	mamaniŋ	mamaniŋ	mamniŋ	mamniŋ
14	hand	ataneŋ	ateniŋ	ataniŋ	ataniŋ	atniŋ	atniŋ
15	foot	tarenaŋ panaŋ	panaŋ	tareniŋ	tareniŋ	tareniŋ laso	tareniŋ
16	back	sakaraneŋ	sakaraniŋ	sakaraniŋ	sakaraniŋ	tumbaraniŋ	finiŋ
17	shoulder	buwaraneŋ	waraniŋ	waraniŋ	waraniŋ	warniŋ	warniŋ
18	forehead	imuneŋ	imuniŋ	imuniŋ	imaniŋ	emaniŋ	iminiŋ
19	chin	mereteneŋ	mereteniŋ	meleteniŋ	meleteniŋ	meletniŋ	meletniŋ
20	elbow	atena kukaŋ	atene kukaŋ	atene kukaŋ	atiniŋ kukaŋ	atniŋ kuko	atniŋ kuŋgaŋ
21	thumb	atena neŋ	atena neŋ	atene neŋ	ata na ⁱ n	atniŋ nain	atniŋ nain
22	leg	tarenaŋ	tareniŋ	tareniŋ	tareniŋ	nanginiŋ	tariniŋ
23	heart (pumps blood)	pupuaneŋ siŋ	pupuaniŋ siŋ	pupuan siŋ	pupuwani siŋ	pupuwaniŋ siŋ	farafara
24	liver	koperaneŋ	koperaniŋ	kopelaniŋ	kopeleniŋ	sawalek	salawik
25	bone	uteneŋ	nakeniŋ	wimbiniŋ	wimbeniŋ	uterniŋ	uterniŋ
26	blood	asuraneŋ	asuruniŋ	asuruniŋ	asoraŋ	asurniŋ	asurniŋ
27	baby	nono	nonoŋ	neke	nonaŋ	neka	neka sumwal
28	girl	pariŋ mamoto	pariŋ mamoto	pariŋ mimotoŋ	paraiŋ momotoŋ	paraiŋ motaŋ	neka paraiŋ
29	boy	simaŋ ai	ai mamoto	ai mimotoŋ	ai momotoŋ	nekai	neka ai
30	old woman	pariŋ sakuiŋ	pariŋ sakuiŋ	pariŋ sakuiŋ	paraiŋ sakuiŋ	paraiŋ sakuiŋ	paraiŋ sakuiŋ
31	old man	ai sakuiŋ	ai sakuiŋ	ai sakuiŋ	ai sakuiŋ	ai sakuiŋ	ai sakuiŋ
32	woman	pariŋ	pariŋ	pariŋ	paraiŋ	paraiŋ	paraiŋ

			Nek		Neko		
33	man	ai	ai	ai	ai	ai	ai
34	father	naboŋ	naboŋ	nawoŋ	nawon	nawaŋ	nawiŋ
35	mother	ne ⁱ ŋ	na ⁱ ŋ	ne ⁱ ŋ	na ⁱ n	na ⁱ n	na ⁱ n
36	brother (older of man)	maraŋ	maraŋ	kakiŋ	kagiŋ	kakiŋ	kakiŋ
37	sister (older of man)	upani mari	kumaniŋ	upaniŋ	upaiŋ	upaiŋ	upaiŋ
38	name	wawaneŋ	wawiŋ	wawiŋ	wawiŋ	wa	wawiŋ
39	bird	nuŋ	nuŋ	nuŋ	nuŋ	nuŋ	nuŋ
40	dog	we ⁱ	patowa	patowaŋ	patowaŋ	patowa	kuna
41	pig	po	po	po?	po	po?	po?
42	cassowary	namba	kawari	kawari	kawari	kuwiki	juwir
43	wallaby	merendoko	merendoko	merendokoŋ	karitejaŋ	kalimbali	pusi
44	flying fox	bijaŋe	bijaŋ ^e	bi jaŋ	mbiaŋ	malbaŋ	malpo
45	rat	kasubi	kasubi	kasubi	opi	uju	uju
46	frog	parikoŋ	kambiŋ	kambiŋ	palikuŋ	kwara	kwerkwer
47	snake	pu ⁱ	pu ⁱ	pu ⁱ	pu ⁱ	pu ⁱ	po ⁱ
48	fish	titani	sisani	sisaniŋ	pa ⁱ upa ⁱ	kapu	kapu
49	person	aiahaitagaŋ	ai	ai pariŋ	ai aput	ai kutaŋ	ai
50	he sits	hai totateŋ	totaju	ngu totajuŋ	toti	tote	totajaŋ
51	he stands	kaŋeteŋ	kaŋajaŋ	ngu kaŋajaŋ	kaŋi	ka ⁱ ŋ k ⁱ etiŋ	kaŋ jajaŋ
52	he lies down	gorateŋ	gorajaŋ	gorajaŋ	koraŋ	korajaŋ	koratijaŋ
53	he sleeps	kora kanda keteŋ	kiruŋ kai	tiŋ koraŋke korajaŋ	te ⁱ koraŋket koraŋ	daiŋ koraŋka ⁱ ja	da ⁱ ŋ koroŋkit

			Nekş	gini		Neko	
54	he walks	atatuteik	utejaŋ	kaŋet ujuŋ	kaŋji	parakit	parakit
55	he bites (the dog bites the man)	ko ⁱ ne na neteŋ	patuwaŋ ai kasi jetiŋ	patuwanda ai kunajaŋ	patowaŋ ai ŋu ne ⁱ ti	patowaŋa ai nit	kuna ai nit
56	he eats	neteŋ	ne ^a tiŋ	najaŋ	niti	nitiŋ	ne ⁱ tijaŋ
57	he gives it to me	na nunateŋ	nuntiŋ	na nuntiŋ	nuntiŋ	nunte	nuntijaŋ
58	he sees	enteŋ	entejaŋ	waŋaritiŋ	entiŋ	waŋarit	waŋaritijaŋ
59	he comes	ahiteŋ	ahitejaŋ	apitiŋ	apitiŋ	aputiŋ	apitijaŋ
60	he says	jeªteŋ	vikijatiŋ	ni jajaŋ	jasakitiŋ	jetiŋ	je ⁱ tijaŋ
61	he hears	iŋateŋ	iŋatiŋ	ni inajaŋ	iŋati	ŋatiŋ	ŋatijaŋ
62	he knows	iŋateŋ	iŋatiŋbe	ni inatiŋ	iŋati	ŋatiŋ	ŋatijaŋ
63	he drinks	tupune ^a teŋ	tupu ne ^a tiŋ	tupu najaŋ	tupuŋ nitiŋ	sona netiŋ	niŋ wai nitijaŋ
64	he hits	ureteŋ	uri ^a tiŋ	urajaŋ	uritiŋ	uretiŋ	niŋ ure ⁱ tijaŋ
65	he kills	urena muwateŋ	urena muwatiŋ	uren umajaŋ	ureni umatiŋ	uren mutiŋ	niŋ uren motijaŋ
66	he dies	kamamuwaja	kamuwajaŋ	ka mumatiŋ	umatiŋ	mutiŋ	niŋ mojaŋ
67	it burns	tei teteŋ	ti tejateŋ	ti titiŋ	tite ⁱ ja titiŋ	tite ⁱ ja tetiŋ	tite ⁱ ja titijaŋ
68	it flies	piruk keteŋ	wiru katu tejaŋ	wiru kitiŋ	nuŋ wirukitiŋ	nuŋ wirikit	nuŋ wirikitijaŋ
69	he swims	siru keteŋ	topu siru kitiŋ	tupu silukitiŋ	tupuŋ nuidak utei	silkitiŋ	niŋ wai silkitijaŋ
70	he runs	kindu keteŋ	kindu kitiŋ	kindu kitiŋ	kindu kitiŋ	kindu kiti	niŋ kiŋgije ⁱ tijaŋ
71	he falls down	kereŋ korateŋ	urijatiŋ	aputuritiŋ	uritiŋ	kusukte	niŋ kusuk tijaŋ
72	he catches	toreateŋ	pakareni tore ^a tiŋ	talitiŋ	tolande taliŋ	alale talit	alale talitijaŋ
73	he coughs	tukureteŋ	tukuriªtiŋ	fofaŋ kitiŋ	fofaŋke	fofaŋ kiti	fofaŋ kitijaŋ

			Nekş	gini		Neko	
74	he laughs	era teteŋ	era kitiŋ	ela kitiŋ	elake	ela kiti	ela kitijaŋ
75	he dances	sarikeªteŋ	sarike ^a tiŋ	sari kitiŋ	sariki	sarkiti	sarkit
76	big	sakuiŋ	sakuiŋ	sakuiŋ	sakuiŋ	ekuiŋ	sakuiŋ
77	small	kekeka	kekeka	kekek	kekek	sumaŋgariŋ	sumal
78	good	jumuŋ	jumuŋ	nesoŋ	nisoŋ	nisuŋ	suliŋ
79	bad	we ⁱ jaŋ	wo ⁱ jo	wijuŋ	wijaŋ	ripaka	we ⁱ jaŋ
80	long	piru	piruwo	siriŋ	siriŋ	siriŋ	siriŋ
81	short	suŋaŋ	suŋuŋ	suŋuŋ	sukuŋ	suŋaŋ	suŋaŋ
82	heavy	kitariŋ	kitariŋ	kitariŋ	kitariŋ	kitariŋ	kitaraiŋ
83	light	taŋaŋ	taŋaŋ	taŋaŋ	taŋaŋ	taŋaŋ	taŋaŋ
84	cold	mapumiŋ	mapumiŋ	tikanetiŋ	imbamiŋ	imbomiŋ	sior
85	warm, hot	wanaŋaŋ	wanaŋaŋ	wanaŋaŋ	wanaŋ	wanawana	wananaiŋ
86	new	keŋaŋ	keŋaŋ	keŋaŋ	keŋaŋ	kemaŋ	kemiŋ
87	old	asiŋ	asiŋ	asiŋ	asiŋ	asiŋ	asiŋ
88	round	tampaririŋ ŋaiŋ	tamparira maiŋ	tampaririŋiŋ	tambaririŋain	tambirŋenaŋ	tambiŋeni
89	wet	tapuaŋ	tapuaŋ	turijiŋ gariŋ	imbamiŋ	tapuwaŋ	tapuwoŋ
90	dry	memeseŋ	memasiŋ	memasiŋ	memasaiŋ	memasaiŋ	erijaŋ
91	full	makiret	ma ⁱ kirajaŋ	makilai	mekalitiŋ	kafute	kafurijaŋ
92	road	senaŋ	senaŋ	senaŋ	sinaŋ	arapu	arapuk
93	stone	si	si	si	si	si	sisim
94	earth	nara	nara	nala	noga	nala	noka
95	sand	sakari	sakari	sakari	sagari	parnam	parnam
96	mountain	kipiŋ	kipiŋ	kipiŋ	mara	kepiŋ	uraŋ

			1	Nekgini		1	Neko
97	fire	te ⁱ	ti	ti	tite ⁱ ja	tite ⁱ	tite ⁱ ja
98	smoke	te ⁱ ak	ti osa	ti jusa	tite ⁱ ja os	titosa	tite ⁱ ja aso
99	ashes	koko ^u	ti sinaga	ti sinapu	sinapu	tanapa	tite ⁱ ja tanapa
100	sun	ata	usawa	usawa?	usawu	ama	ata
101	moon	tapuŋ	tapuŋ	tapuŋ	kalambola	tapoŋ	tapiŋ
102	star	tatu	tatu	tatu	mirisina	po ⁱ ŋ	po ⁱ ŋ
103	cloud	rata	sapaŋ	samalau	samalau	lala	sam
104	rain	tupuŋ	tupuŋ	tupuŋ	tupuŋ	sona	wai
105	wind	tikaŋ	tikaŋ	tikaŋ	senasene	senasena	jaŋ
106	water	tupuŋ	tupuŋ	tupuŋ	tupuŋ	sona	wai
107	vine	aru	aru	alu	susui	pumba	tuka kitiŋ
108	tree	te ⁱ	ti	ti	sakaga	te ⁱ	te ⁱ
109	stick	te ⁱ takiŋ	togoŋ	tokoŋ	sakaga takiŋ	te ⁱ takiŋ	te ⁱ niŋ
110	bark	te ⁱ toke ⁱ ŋ	ti tukiŋ	ti tokaiŋ	sakak tokaiŋ	te ⁱ tokaiŋ	te ⁱ tokaiŋ
111	seed	te ⁱ siŋ	ti siŋ	ti siŋ	sakak akiŋ	te ⁱ siŋ	te ⁱ akiŋ
112	root	te ⁱ toreŋ	ti toreŋaŋ	ti toleŋ	sakak tolaŋ	te ⁱ tolejaŋ	te ⁱ toliŋ
113	leaf	saŋ	ti saŋ	ti saŋ	sakak saŋ	komeriŋ	tei saŋ
114	meat	mitariŋ	misariŋ	misaliŋ	pununaŋ	misan	misel
115	fat	wawaŋ	sabaŋ	sabaŋ	sapaŋ	wawaŋ	wawiŋ
116	egg	miteŋ	miteŋ	mitaŋ	mitaiŋ	mitaŋ	mitaŋ
117	louse	imiŋ	imiŋ	imiŋ	imiŋ	imiŋ	imiŋ
118	feather	nuŋ saŋ	nuŋ saŋ	nuŋ juniŋ	nuŋ saŋ	nuŋ junawiŋ	nuŋ junuŋ
119	horn	nuŋ toŋgeri	sariwiŋ	sarejaŋ	sarejaŋ	fa ⁱ	fa ⁱ jeŋ

		Nekgini			Neko		
120	wing	wiriŋ	wiriŋ	wiriŋaŋ	wiriŋ	wirijaŋ	wirijaŋ
121	claw	tamoŋ	tamoŋ	tamoŋuŋ	tamoŋ	tamiŋ	tamijaŋ
122	tail	nuŋ apowo	ata kiriŋ	ata kiriŋ	ata kiriŋ	ata keriŋ	ataŋ geriŋ
123	one	konake	konake	ko naki	kwanaki	kwa nik	kwanik
124	two	ire	irise	iri	iri	iri	iri
125	three	aropo	aropa	arap	arapa	arap	arap
126	four	paware	paware	pawole	pawoli	pawol	pawol
127	five	ati ko	ati ko	atiko	adiko	atiko	atiko
128	ten	ati iri	ati iri	ati iri	adi iri	ati iri	ati iri
129	taro	pera	pera	pele	nowaŋ	pela	pela
130	sugarcane	keta	keta	keta	kese	sinda	saŋ
131	yam	bunuwa	wanugu	wa ⁱ nu	wa ⁱ nu	wo	wo ^u
132	banana	anaŋ	anaŋ	anaŋ	anaŋ	anaŋ	aliŋ
133	sweet potato	embe	embe	embi	patuŋ	kalapat	kalapat
134	bean	sajuri	puti	puti	puti	sakeraŋ	bute ⁱ
135	axe	pakarik	paringis	palaŋgis	palaŋgis	palaŋgis	plagis
136	knife	naŋke	naŋge	naŋgi	naŋgi	puru	silai
137	arrow	supira	jiŋ	tenaŋ	supila	kansara	jeuŋ
138	net bag	au	au	au	pembeŋ	aror	aror
139	house	ja	ja	ja	kambasi	ja?	ja
140	tobacco	aka	osu	usu	osa	osa	osa
141	morning	musiŋga	urukak	urukak	urukaka	urokak	uruok
142	afternoon	kamaŋkete	kamugak	kamaŋgak	kamaŋgak	kamaŋkit	kamaŋgaŋ

		Nekgini			Neko		
143	night	tatikoŋ	takindom	itomgiti	itomuŋ	utelapkit	utelap
144	yesterday	itom	itom	itom	itom	itom	itom
145	tomorrow	musija	jewuŋ	musiji	musiju	musi	musije
146	white	sara	sara	sara	sare	sara	sara
147	black	tapuraŋ	tapuraŋ	tapuluŋ	imbamiŋ	tapulaŋ	tapuliŋ
148	yellow	kandata ^u	kandadawanak	kandadawu	kandandawaŋ	kandada	kandanda
149	red	roraŋaiŋ	roroŋeŋ	roroŋeŋ	roraŋaiŋ	asuraŋ	sinaniŋ
150	green	katupi	tisanage	katipiŋ	tisaŋnag	katap	te ⁱ saŋ matiŋ
151	many	asowariŋ	asowo	asowu	asowariŋ	asonag	asonak
152	all	ajaso	sosoŋ	sosoŋ	wetat	kutaŋ	kutiŋ
153	this	ŋa	ŋa	ŋа	ŋa	ŋa	eiŋu
154	that	ŋuene ŋu	ŋo	ŋo	ŋu	ŋu	eiŋa
155	what?	ngu nekgini	nekene	nekeni	nekeni	neken kit	neko
156	who?	ai kani	kagane	kakawani	kawoni	ka kawon	kawani
157	when?	nekgini naru	neka naru	nguamini	amini	neko nal	aminiŋ
158	where?	japitano	takina	ngu takini	da	dakin	japai takin
159	yes	jo	ijo	iju	ija	jo	jo
160	no	maraŋ	maru	malaŋ	malaŋ	malaŋ	malaŋ
161	not (he is not standing)	kuma kaŋajaŋ	kuma kaŋetiŋ	kum kaŋajaŋ	kumakaŋiti	kum kaiŋgit	ŋukum kaŋja
162	I	na	na	паŋа	na	na	nana
163	you (singular)	паŋа	ka	ka	ka	ka	kaka
164	he	kaŋu	ŋu ene	ŋo	ŋo	ŋo	nila

		Nekgini		No	eko		
165	we two (exclusive)	nekakakak	neka kaka	nekakak	na kakak	ne kakak	nenajiri
166	you two	je aijire	ja jiri	iri ŋu	ai iri	ne a ⁱ jiri	je'ai iri
167	they two	aijire tendakiret	ai iri ŋo keta iretekaraŋ	iri ŋorakŋu	ai iri ŋoraki	ŋu a ⁱ jiri	niŋ ai iri
168	we (pl exclusive)	netotoŋ	ne nake	пеђа	ne watati	net nak	lena
169	you (plural)	je	je nake	јели	je wati	jenak	jeja
170	they (plural)	aisoŋ	ai ŋo kutaŋo	jaŋ ŋurakŋu	јаŋо	pun iretik	jejeo ^u
171	he is hungry	auriŋ pitikatu	aruiŋ ja	aluŋ pitikiti	ni pariti	nu ⁱ ŋ tuktukte	niniŋ tuktukte ⁱ ja
172	he eats sugar cane	keta neteŋ	keta n ⁱ etiŋ	ni keta ni ^e tiŋ	kesa niti	sinda netiŋ	niŋ saŋ nitijaŋ
173	he laughs a lot	era keteŋ	era kemuatiŋ	ni elija	elamanaŋ	ela kit	niŋ ela kitijaŋ
174	one man stands	ai ko naka koŋai	ai ko naka kaŋeti	ai ko kaŋajaŋ	ai konak kaŋai	ai koka ⁱ ŋ kit	ai ko kwani kanja
175	two men stand	ai iri kaŋakaŋ	ai iri kaŋeti	ai iri kaŋakakaraŋ	ai iri kaŋakaraŋ	ai jiri kaiŋ kiti	ai iri kaŋjak
176	three men stand	ai aropo kaŋakaŋ	ai jarop kaŋetekaŋ	ai arop kaŋakaŋ	ai aropa kaŋakaraŋ	ai arap kaiŋ jetik	ai arap kanjak
177	the man goes	ai jutekaŋ	ai ŋu aruateŋ	ai ko alutiŋ	ai kon aluti	ai ŋu alotiŋ	ai alutijaŋ
178	the man went yesterday	ai idommukaŋ	ai itoma arojuŋ	ai ŋu itom alojuŋ	itoma alojaŋ	itom alojaŋ	ai itom alojaŋ
179	the man will go tomorrow	musi ai ubekaŋ	ai ŋu musi uwejaŋ	ai ngu musi ito alowijaŋ	musi alowijaŋ	musi alowaŋ	musi ai alowaŋ
180	the man eats the yam	ai wunuwa neteŋ	ai ŋu wanugo najaŋ	ai ŋu wainu niºtiŋ	ai ŋu wa ⁱ no ne ⁱ ti	ai ŋu wo net	ai wo ^u ne ⁱ tijaŋ
181	the man ate the yam yesterday	idomu wunuwa najaŋ	ai ngu itomu wanugo najaŋ	itom ŋu wainu najaŋ	itoma wa ⁱ no najaŋ	itom wo na ⁱ jaŋ	itom ai wo ^u naijaŋ

		Nekgini			Neko		
182	the man will eat the yam tomorrow	musiju wunu wannewaka	musijo ai ŋu wanugo newi	musi wa ⁱ nu newikuŋ	musi wa ⁱ no newijaŋ	musi ai ŋu wo newaŋ	musi ai wo ^u newaŋ
183	the man hit the dog	ai ko ⁱ nu uraraŋ	ai ŋu patuwaŋ urajaŋ	ai ŋu patuwaŋ urajaŋ	ai ŋu patowaŋ uriti	ai ngu patuwaŋ urajaŋ	ai kou na urajaŋ
184	the man didn't hit the dog	ai ngu ko ⁱ na kumuraŋ	ai ŋu patuwaŋ kumo urajaŋ	ai ŋu patuwaŋ kumo urajaŋ	ai ŋu patowaŋ kuma uriti	ai patuwa kumu urajaŋ	ai kou nokum urajaŋ
185	the big man hit the little dog	ai sakuiŋ ko ⁱ nu simaŋ uraŋ	ai sakuiŋ patuwaŋ simaŋ urajaŋ	ai sakuiŋ ŋu patuwaŋ simaŋ urajaŋ	ai sakuiŋ ŋu patowaŋ simaŋ uriti	ai sakuiŋ patuwa simaŋ urajaŋ	ai sakuiŋ kona simiŋ urai
186	the man gave the dog to the boy	ai ŋu ko ⁱ nejai keke ngu	ai ŋu patuwaŋ simaŋ enajaŋ	ai ŋuta patuwaŋ mimotuŋ ŋu enajaŋ	ai ŋu patowaŋ simaŋ enti	ai ŋu patuwa simaŋ neka enajaŋ	ai kouna simiŋ ai suma lelaŋ
187	the man hit the dog and went	ai ŋu ko ⁱ nurewakat uteŋ	ai ŋu patuwaŋ ureta wakata arojaŋ	ai ŋu patuwan urewakat utejaŋ	ai ŋu patowaŋ uret wakat aluti	ai ŋu patuwaŋ uret wataŋ alowaŋ	ai koula urep ai alojaŋ
188	the man hit the dog when the boy went	ai kuke gune ai ngu ko ⁱ nuretaŋ	ai ŋu arojaŋ patuwaŋ urajaŋ	mamotoŋ uni ai ŋu patuwaŋ urajaŋ	momotuŋ aloni patowaŋ uriti	neku ŋualoŋ ai ŋu patuwaŋ urajaŋ	neka soma alon ai koula urajaŋ
189	the man hit the dog and it went	ai ngu ko ⁱ nure nuteŋ	ai ŋu patuwaŋ ureni arojuŋ	ai ŋu patuwaŋ uren nutejeŋ	ai ŋu patuwaŋ ureni aluti	ai ŋu patuwaŋ urajaŋ patuwaŋ alowaŋ	ai koula uren koula alojaŋ
190	the man shot and ate the pig	ai ŋu po sikera neteŋ	ai ŋu po sakiret nietiŋ	ai ŋu po uret ni ^e tiŋ	ai ŋu po sakireni umani niti	ai ŋu po uret najaŋ	ai po uret najaŋ

Table 34. Migum and Ngaing wordlists

		Miş	Migum	
		Lamtub	Singor	Sibog
1	head	pasu	pasu	tubaŋi
2	hair	dʒuga	dʒugo	meja
3	mouth	dʒugu ^w ab	dʒugobab	mayak
4	nose	sombe?	sumbe	nom
5	eye	ampatun	ampatun	dɛniŋ
6	neck	bisine ^u	busune°	wut∫uniŋ
7	belly (exterior)	sinai	sinai	awatiniŋ
8	skin	mande	mande	dagaiŋiŋ
9	knee	kabe bakum	kabe bakum	tagumat
10	ear	kuŋgalamban	kuŋgalamban	adʒibi
11	tongue	muinji	mu ⁱ nji	nɛ:baliŋ
12	tooth	bage?	bage	ma:tiŋ
13	breast (her)	au	au	keruŋ
14	hand	kulasik	kula	a:tiŋ
15	foot	kabesik	kabe sataŋwe	tame
16	back	badid	badid	usik
17	shoulder	kalmbu	kalmbu	mɔŋ
18	forehead	tumambul	tumambul	imuŋ
19	chin	kakai	kakai	mɛ:tak
20	elbow	kulabakum	kulabakum	guŋgaːŋ
21	thumb	kulasik inote	kula ŋadek sagai	mamiŋ
22	leg	kabe	kabe	tame
23	heart (pumps blood)	ⁿ gamu tutuite	ngompatun	buaniŋ siŋ
24	liver	ngompalaŋ	ngompalaŋ	nuik
25	bone	tutu ute	tutu	utet
26	blood	ⁿ dale	ⁿ dale	maŋgima
27	baby	nonoŋ	nonoŋ	kəŋɛt

		Migum		Ngaing
28	girl	pano tangil	pano mbaras	taɣara
29	boy	minfaran	walfu	ajami
30	old woman	toub pano	pano mandal	baraiŋ saguiŋ
31	old man	toub paran	paran mandal	εg saguiŋ
32	woman	pano	pano?	baraiŋ
33	man	paran	paran	εk
34	father	adʒa	adʒa	taːsi
35	mother	ana	ana	ma:ma
36	brother (older of man)	ou paran	matu	kayaniŋ biːŋ
37	sister (older of man)	ou pano	matu pano	upaniŋ biːŋ
38	name	n ⁱ u	ກu	wawa
39	bird	jen	ⁱ jen	nuŋ
40	dog	ⁿ go ^u n	ⁿ gon	goni
				kuma
41	pig	mbuo ⁱ	mboi	bot
42	cassowary	kawar	kawar	mo:naŋ
43	wallaby	dabi?	dabi	mɛːraŋ
44	flying fox	malbuoŋ	malboŋ	maliboŋ
45	rat	gasuwai	kasawai	obaik
46	frog	parŋgo	parŋgo	kambiŋ
47	snake	sawai	sawai	buik
48	fish	sieb	sieb	gabuwa
49	person	parande	sine paran	
50	he sits	me ⁱ kat	nu meikoi	dʒenaŋ
51	he stands	badaŋ kat	nu badaŋ koi	gaŋgɛti
52	he lies down	kinjat	nu kinoi	karati
53	he sleeps	am kirijenkat	nu am kurenpakinsoi	garaiŋ tabuk
54	he walks	taga batijet	nu tagoi	aloguti

		Migum		Ngaing
55	he bites (the dog bites the man)	ⁿ gon go paran gagawat	ⁿ gon paran gagawoi	juwija
56	he eats	nat	nu ameŋ isoi	nɛti
57	he gives it to me	nongo sisat	nu sisoi	nunaŋ
58	he sees	no ta ⁱ wat	nu taiwoi	enati
59	he comes	nomo ⁱ	nu moi	abiti
60			nu udiwoi	
	he says	no udiwat		jeti
61	he hears	no sat	nu soi	iŋati
62	he knows	no so ⁱ	nu sat	iŋagirɛti
63	he drinks	jaŋ jat	nu jaŋ ŋoi	kukneti
64	he hits	ulat	nu ulat	ureti
65	1 1 . 11 .	1.4.14	nu ulat	uriŋ
65	he kills	ulat kumat	kumoi nu kumat	umaŋi
66	he dies	kumpa tambalat	sagum	umaŋ
67	it burns	pa ⁱ awo ⁱ	pa ⁱ awoi	dɛti
68	it flies	riokat	nu rio pokoi	pururuk
69	he swims	silikat	nu silikoi	gabu alotu
70	he runs	parukat	nu farukoi	kiririŋ
71	he falls down	busukat	nu musukoi	ureti
72	he catches	tate fa sagwat	nu sagwoi	rati
73	he coughs	dʒugol tat	nu dʒugol toi	ukawa kiti
74	he laughs	ndʒukat	nun ndʒukoi	ijuma
75	he dances	kabeso ⁱ	nu kabesoi	ola
76	big	songo	soŋgo	biniŋ
77	small	gadiknde	gadiknde	simaŋ
78	good	ajundaima	aju	tobi:ŋ
79	bad	ŋajo	ŋајо	buliŋ
80	long	goidʒo	gudzo	saroŋ
81	short	katuwante	katawaŋto	kaŋdaŋ
82	heavy	kubute	kubuto	gitariŋ
83	light	lalkijai	lalkajai	ta:ŋ

		Migum		Ngaing
84	cold	asote	ndeŋdeŋ kajai	matumiŋ
85	warm, hot	kakante	paŋar	atitiŋ
86	new	ndʒunte	ndʒuŋ	kema:ŋ
87	old	mburiep nome	asote	ait∫aŋ
88	round	kukelwai	kaulilwai	doŋdaliŋ
89	wet	dabute	silkijai	dabuwaŋ
90	dry	workiai	wor kijai	adʒaŋ
91	full	lawat	lawat	hak
92	road	saŋgo	saŋgo	bigu
93	stone	nange	naŋge	tituwat
94	earth	nar	nar	no:ga
95	sand	dʒar	dʒar	samat
96	mountain	pul	pul	tawɛla
97	fire	pa ⁱ	pa ⁱ	tejak
98	smoke	pa ⁱ boko?	pa ⁱ buku	bugak
99	ashes	pa ⁱ gugu	pa ⁱ kuge	muluk
100	sun	ke	ke	atɛt
101	moon	tambun	tambun	kamboli
102	star	jamba ⁱ pe	mbuai	t∫agarik
103	cloud	timtaem	timtaem	kaboriŋ
104	rain	kwob	kwob	kuk
105	wind	dʒag	dʒag	gitaŋ
106	water	jaŋ	jaŋ	kuk
107	vine	muli?	muli?	gatan
108	tree	al	al	dik
109	stick	al pai	al pa ⁱ	wisiŋ
110	bark	al ŋgarulte	al ngarol	dayaiŋ
111	seed	al patunte	al patun	ayiŋ
112	root	al bilbirte	al bilbir	doliŋ
113	leaf	we ⁱ te	al uwe	saŋ

		Mig	gum	Ngaing
114	meat	munte	busuneutuon	oŋarak
115	fat	luonte	luonto	sabaŋ
116	egg	patunte	patun	siŋ
117	louse	ліеои	лео ^u	imiŋ
118	feather	mbante	jen ban	noŋ uiŋ
119	horn	site	sikto	dʒuŋgirak
120	wing	mbante	mbanto	wiriŋ
121	claw	kula gilgelte	kula gilgel	tigowat
122	tail	muŋgate	muŋga?	ataŋɛt
123	one	nda ⁱ ma	nda ⁱ ma	gula
124	two	lalapa	lalapa	irisak
125	three	kiepa	kiepa	atbusak
126	four	baudipa	baudipa	atbusak abaŋkai
127	five	kulande	kulande	ati gula muk
128	ten	kulalala	kulalala	ati iri
129	taro	ŋalo	ŋalo	uni
130	sugarcane	juwa	juwa	dʒaŋ
131	yam	лаі	лаі	uŋ
132	banana	muŋgu?	muŋgu?	inamuk
133	sweet potato	mbak	mbak	patuŋ
134	bean	baba	asoi	tubawit
135	axe	palagis	palagis	palaŋis
136	knife	silai	silai	silaik
137	arrow	tun	ŋandʒar	nasaŋ
138	net bag	pale?	pale?	pimbeŋ
139	house	wande?	wande?	jumbaŋ
140	tobacco	boko	boko	ak
141	morning	sumel aijo	sumel	itumiŋasi
142	afternoon	juwai nome	juwai none	ugamaŋ
143	night	bubur	bubur	idoma

		Migum		Ngaing
144	yesterday	fuope	forpe	wejaŋ
145	tomorrow	jambo?	jambo?	kεp
146	white	kaukijai	kaukijai	ka:k
147	black	gugut kijai	gugut kijai	uma:
148	yellow	kaloŋ kijai	kaloŋ kijai	dʒaŋam
149	red	lulu kijai	lulu kijai	asi:k
150	green	kienkiai	kienkijai	atabat
151	many	ⁿ gatomien	ⁿ gatomien	t∫awiŋ
152	all	gadzuoŋma	gadʒuoŋ	kutaŋ
153	this	ame aro	eno	ŋа
154	that	e aro	ero	ŋɔ
155	what?	amarande	amerande	ŋaiŋ
156	who?	imaŋgo	ima	gawoni
157	when?	amolam	amolam	dayanak
158	where?	amoka	amoka	dana
159	yes	aijo	au	ia
160	no	kaluom	kalom	juŋ
161	not (he is not standing)	no badaŋ ka ⁱ ja ⁱ kalom	no badaŋ kijai kalom	
162	I	i?	iŋga	na
163	you (singular)	iŋgande	ne	ga
164	he	no?	no?	ŋɔ
165	we two (exclusive)	tandala?	sila	niŋ irisak
166	you two	sila?	tandala?	dziŋ iri
167	they two	nandala	nundula	iri
168	we (pl exclusive)	sini gadzuoŋ	sina gadʒoŋ	niŋ
169	you (plural)	tani gadzuoŋ	tane	dʒiŋ
170	they (plural)	nane?	nane?	morijaŋ
171	he is hungry	kamwat	kamwoi	
172	he eats sugar cane	juwain nat	no juwa nisoi	

		Mig	gum	Ngaing
173	he laughs a lot	ndʒukat	nu ndzukoi	
174	one man stands	paran nda ⁱ ma badaŋkat	parande badaŋkoi	
175	two men stand	paran lala badaŋkat	paran lala badaŋ kakiŋ	
176	three men stand	paran kijepa badaŋkat	paran kiepa badaŋ kakiŋ	
177	the man goes	paran kijet	paran koi	
178	the man went yesterday	kwope paran kijet	kwope paran kijet	
179	the man will go tomorrow	jambo suom paran kajau	jambo sum paran kejau	
180	the man eats the yam	paran nai nisoi	paran nai nisoi	
181	the man ate the yam yesterday	kwope paran nai nat	kwope paran nai nat	
100	the man will eat the yam	jambo paran	jambo som	
182	tomorrow the man hit	nai nao paran ngoun	paran nai nau paran ngon	
183	the dog	ulat	ulat	
184	the man didn't hit the dog	paran ngoun ulai kalom	paran ngon ulai kalom	
185	the big man hit the little dog	paran songo ngoun gadikde ulat	paran sungo ⁿ gon gadiknde ulat	
186	the man gave the dog to the boy	paran ngoun mingadikde tuwat	paran ngon min gadikde tuwat	
187	the man hit the dog and went	paran ngoun ulpa kiet	paran ⁿ gon ulpa kiet	
188	the man hit the dog when the boy went	min gadikde kiet so paran ngoun ulat	sain min gadiknde kiet paran ngon ulat	
189	the man hit the dog and it went	paran ngoun uloi ngoun kiet	paran ngon ulat ngon kiet	
190	the man shot and ate the pig	paran mboi ulpa nat	paran mboi sepa nat	

A.2 Phonetic Inventory

Table 35. Yabong phonetic inventory

	Bilabial	Labio- dental	Alveolar	Post- alveolar	Palatal	Velar	Glottal
Plosive	p b		t d			k g	?
Fricative		f v	S				
Nasal	m		n			ŋ	
Trill			r				
Lateral Approximant			1				
Approximant	W				j		

Table 36. Migum phonetic inventory

	Bilabial	Labio- dental	Alveolar	Post- alveolar	Palatal	Velar	Glottal
Plosive	p b		t d			k g	?
Fricative		f	S				
Affricate				dз			
Nasal	m		n		л	ŋ	
Trill			r				
Lateral Approximant			1				
Approximant	W				j		

Table 37. Nekgini phonetic inventory

	Bilabial	Labio- dental	Alveolar	Post- alveolar	Palatal	Velar	Glottal
Plosive	p b		t d			k g	?
Fricative		f v	S				h
Nasal	m		n			ŋ	
Trill			r				
Lateral Approximant			1				
Approximant	W				j		

Table 38. Neko phonetic inventory

	Bilabial	Labio- dental	Alveolar	Post- alveolar	Palatal	Velar	Glottal
Plosive	p b		t d			k g	?
Fricative		f	S				
Nasal	m		n			ŋ	
Trill			r				
Lateral Approximant			1				
Approximant	W				j		

A.3 Vowel clusters

Yabong

ae, ai, ao, au, ei, eo, eu, ia, oi, ou, ua, ue, ui, aie, auo, eai, uoi

Migum

ae, ai, au, ea, ei, eo, eu, ie, io, iu, oi, ou, ui, uo, aia, iai, uoi, ieou

Nekgini

ai, au, ea, ei, ia, oi, ou, ua, ue, ui, eai, eia, aiu

Neko

ai, ei, eu, ie, io, oi, ui, eou

A.4 Example sentences

Yabong (items 177-179, 175-176, Baded village)

- (1) iri asi-dem man go-3.SG.PRES 'The man goes.'
- (2) abaŋ iri asi-rem yesterday man go-3.SG.PAST 'The man went yesterday.'
- (3) mandaŋna asi-udem tomorrow go-3.SG.FUT 'The man will go tomorrow.'
- (4) iri abde dik-ribik man two stand-3.DUAL 'Two men stand.'
- (5) iri abdebe dik-ribin man three stand-3.PL 'Three men stand.'

Migum (items 180-182, 176, Singor village)

(1) paran nai nis-oi man yam eat-3.SG.PRES 'The man eats the yam.'

- (2) kwope paran nai n-at yesterday man yam eat-3.SG.PAST 'The man ate the yam yesterday.'
- (3) jambo som paran nai n-au tomorrow ? man yam eat-3.SG.FUT 'The man will eat the yam tomorrow.'
- (4) paran kiepa badaŋk-akiŋ man three stand-3.PL 'Three men stand.'

Nekgini (items 177-179, Reite village, item 176, Sorang and Pateng villages)

- (1) ai ko alu-tiŋ
 man one go-3.SG.PRES
 'The man goes.'
- (2) ai nu itom alo-jun man he yesterday go-3.SG.PAST 'The man went yesterday.'
- (3) ai ngu musi ito Alo-wijan man he tomorrow ? go-3.SG.FUT 'The man will go tomorrow.'
- (4) ai aropo kaŋa-kaŋ man three stand-3.PL 'Three men stand.'
- (5) ai aropa kaŋa-karaŋ man three stand-3.PL 'Three men stand.'

Neko (items 177-179, 176, Warai village)

- (1) ai alu-tijaŋ man go-3.SG.PRES 'The man goes.'
- (2) ai itom alo-jaŋ man yesterday go-3.SG.PAST 'The man went yesterday.'

- (3) musi ai alo-waŋ tomorrow man go-3.SG.FUT 'The man will go tomorrow.'
- (4) ai arap kaŋ-jak man three stand-3.PL 'Three men stand.'

A.5 Exclusions and exceptions

#	S	Excluded from comparison	Reason for no entry or disqualification	Exception to *Blair's standard	Reason for exception or other comment
Item #	Gloss	Excl	Read or C	Exce	
14	hand			mn	Vowel elision
14	hand			g	Unexplained morpheme
15	foot	bdkln	Same as word for 'leg'		
17	shoulder			i	Unexplained morpheme
19	chin			d	Unexplained morpheme
21	thumb			lmn	Probable change in morpheme order
24	liver			n	Metathesis
28	girl	n	'baby' + 'woman'	m	Absence of unexplained morpheme
29	boy	mn	Same as word for 'baby'		
34	father			f	Prenasalization
38	name			a	Vowel insertion
38	name			m	Reduplication
46	frog			n	Reduplication
49	person	all lists	Same as word for 'man'		
50	he sits			d	Unexplained morpheme
53	he sleeps			ahikl mn	Unexplained morpheme
54	he walks			k	Unexplained morpheme
55	he bites			a	Unexplained morpheme

56	he eats			ce	Unexplained
					morpheme
60	he says			j	Unexplained morpheme
61				d	Unexplained morpheme
62	he knows	acdefghi jklmn	Same as 'he hears'		
63	he drinks	all lists	'he eats' + 'water'		
65	he kills	all lists	'he hits' + 'he dies'		
66	he dies			bcde	Unexplained morpheme
71	he falls down			ce	Unexplained morpheme
72	he catches			fjlmn	Unexplained morpheme
76	big			d	Unexplained morpheme
85	warm, hot			lm	Unexplained morpheme
87	old			d	Unexplained morpheme
89	wet	cef	'water' + 'all'		
90	dry	e	'water' + 'no'		
93	stone			n	Unexplained morpheme
98	smoke			n	Metathesis
98	smoke			1	Vowel elision
103	cloud			n	Unexplained morpheme
104	rain	ijklmn	Same as word for 'water'		
111	seed	abcdefg h	'tree' + 'egg'		
112	root			j	Unexplained morpheme
113	leaf			bc	Metathesis
114	meat	acef	Same as word for 'fish'		
118	feather	abdefhjl	'bird' + 'leaf'		
118	feather	g	Same as word for 'wing'		
119	horn			n	Unexplained morpheme
120	wing			de	Unexplained morpheme
124	two			j	Unexplained morpheme
141	morning			g	Unexplained morpheme

141	morning			1	Reduplication
143	night			kl	Unexplained
					morpheme
147	black			be	Unexplained
					morpheme
148	yellow			jl	Unexplained
					morpheme
151	many			il	Unexplained
					morpheme
152	all			d	Unexplained
	_				morpheme
154	that			i	Unexplained
				1.	morpheme
155	what?			b	Vowel insertion
156	who?			m	Reduplication
156	who?			dg	Unexplained
					morpheme
159	yes			1	Vowel cluster
162	I			dkn	Unexplained
					morpheme
163	you (sing)			n	Reduplication
164	he	d	'we' + 'two'	ij	Unexplained
					morphemes
165	we two	d	Probably means 'you		
			two'		
165	we two	n	'we' + 'two'		
166	you two	ad	Probably means 'we'	m	Unexplained
					morphemes
166	you two	1	'man' + 'two'		
167	they two	fmn	No new morphemes		
169	you (pl.)	d	Same as word for 'we'		
170	they (pl.)			efk	Unexplained
					morphemes

Blair 1990

Village excluded or exceptions Key:

a = Masib = Baded $c\!=\!Baraking$

f = Basorg=Lamtub h = Singor

k = Reitel = Patengm = Damoing

d = Biduae = Samung i=Sorang j=Asang

n = Warai

A.6 Possible affixes excluded from lexicostatistical comparison

Yabong

-dem 3rd singular present
-ribik 3rd dual present
-ribiŋ 3rd plural present
-rem 3rd singular past
-udem 3rd singular future
-p possessive marker

-t possessive-m possessive

Migum

-oi 3rd singular present
 -aking 3rd singular plural
 -at 3rd singular past
 -au 3rd singular future

-te ?

Nekgini

-tiŋ
-teŋ
-kaŋ
-kaŋ
-karaŋ
-karaŋ
-jaŋ
-yard singular present
-jaŋ
-yard singular past
-wijaŋ
3rd singular future

-niŋ possessive

Neko

-tijaŋ
 -jak
 -jaŋ
 -jaŋ singular past
 -waŋ
 3rd singular past
 -waŋ

-niŋ possessive

A.7 Percentage of similarity between villages

Masi															
Bidu	81														
Gogo	88	84													
Bara	80	80	86												
Sam	85	86	92	93											
Bade	71	76	80	84	81										
Lamt	6	7	8	7	7	8									
Sing	6	8	9	8	9	8	84		_						
Sora	6	4	4	3	4	3	5	5		_					
Asan	4	4	4	4	6	3	6	6	79		_				
Reit	3	3	3	3	3	2	4	4	73	84		_			
Pate	3	3	3	3	3	2	3	3	63	72	79				
Dam	4	4	4	3	4	4	4	4	59	62	67	62			
Wara	3	4	3	3	3	4	4	5	54	57	63	58	78		_
Ngai	3	2	3	3	3	3	4	4	27	30	32	35	27	29	
	Ma	Bi	Go	Bar	Sa	Ba	La	Si	So	As	Re	Pa	Da	Wa	Ng

Appendix B. Welcoming ceremony

During a number of our visits to different mountain villages in the Yabong and Nekgini language areas, the people welcomed us with traditional singing and dancing. As directed, we approached a fence²⁹ and were greeted with a challenge from the other side: "Who are you? What do you want?"³⁰ After we had explained ourselves, the entrance was cleared for us to walk through and we were presented with flower necklaces while women used traditional red paint to colour our faces. A procession of people performing a traditional ceremony would then lead us to a place where we could rest, drink coconut juice and sometimes eat bananas, cucumbers and papayas.

The people performing the ceremony painted their bodies with traditional red paint and wore traditional garments. The men wore a loin cloth or sometimes a grass skirt and a headdress decorated with bird feathers. In some villages performers wore bodily decorations made out of leaves and necklaces or headwear decorated with animal teeth. ³¹ In one village, all the men wore a necklace featuring pig tusks. The women wore grass skirts. The only musical instrument used was a small drum made out of bush materials.

After the traditional part of the welcome, some villages sang a song accompanied by guitars. When the ceremony was over, a leader from the village would formally welcome us, give us time to eat and drink the gifts of food, coconut and water. They would then allow us to begin data collection.

²⁹They had erected a fence (Papua New Guinea villages do not normally have fences around them) outside the village (made out of sago leaves and other bush material) in order to provide a symbolic entrance to the village.

³⁰They called out in Tok Pisin, except once that was in the local language and was translated for us.

³¹These may have been shark or dog teeth.

Appendix C. Language use data

The following tables show the responses given to language use questions.

Table 39. Yabong language use

	oong ages	Masi villa (middle a men)		Bidua vill mixed gender/ag		Basor villa (middle ag men)		Baded vil		
	at guages do use when:	Yabong	Tok Pisin	Yabong	Tok Pisin	Yabong	Tok Pisin	Yabong	Tok Pisin	Karo
Arg	uing with	X		X		X		X	X	X
Pra hon	ying at ne		X	X		X			X	
wed	anizing Iding or eral feasts	X		X		X		X	X	
At t	he market		X (at the coast)	(No market)			X	X	X	
Jok	ing	X		X		X			X	
Pla	ying sports	X		X		X		X	X	
kno	siders who w your guage		X	X	X	X	X	X		
do	siders who not know ir language		X		X		Х		X	
Wo	rking court		X		X		X		X	
	You go to town?		X		X		X		X	
	Most people use on the way?		X		X		X	X	X	
s in town	Most used at town's market?		X		X		X		X	
Trans-actions in to	Most people use in stores?		X		Х		X		X	

Table 40. Migum language use

Migu	m villages	Lamtub vi gender/ag	illage (mixed ge)	Singor villa	
What do yo when		Migum	Tok Pisin	Migum	Tok Pisin
Argui famil	ng with y	X	X	X	X
Prayi	ng at home		X		X
wedd	nizing ing or al feasts	X	X		X
At the	e market		X		X
Jokin	g	X	X	X	X
Playi	ng sports	X	X	X	X
Outsi know langu	•	X	X	X	X
Outsi do no	ders who ot know language		X		X
Work	ing court		X		X
	You go to town?		X		X
	Most people use on the way?		X	X	X
ns in town	Most used at town's market?		X		X
Trans-actions in town	Most people use in stores?		Х		Х

Table 41. Nekgini language use

Nekgi	ni villages	Sorang v (middle men	aged	Asang vi (middle men	aged	Reite vi (middle men	aged	Serieng v (Leading	~
What do you when:		Nekgini	Tok Pisin	Nekgini	Tok Pisin	Nekgini	Tok Pisin	Nekgini	Tok Pisin
Arguin	ng with	X		X		X		X	X
Prayir home	ng at	X		X		X			X
Organ weddi funera		X		X		X		X	X
At the	market	X	X	X	X	X	X	X	X
Joking	g	X		X		X	X	X	X
Playin	ig sports	X	X	X	X	X	X	X	X
Outsic know langua		NR	NR	NR	NR	NR	NR	NR	NR
Outsic do no	lers who t know anguage		X		X		X		X
Worki	ing court		X		X		X		X
	You go to town?		X		X		X		X
	Most people use on the way?		X		X	X	X		X
s in town	Most used at town's market?		X		X		X		X
Transactions in town	Most people use in stores?		X		X		X		X

Table 42. Neko language use

Neko v	illages	Dam vill (me won	n &	Warai (middl me	e aged
What la	anguages do you use	Neko	Tok Pisin	Neko	Tok Pisin
Arguin	g with family	X	X	X	X
Praying	g at home	X	X	X	X
Organi: funeral	zing wedding or feasts	X	X	X	X
At the	market	X	X	X	X
Joking		X	X	X	X
Playing	sports	X	X	X	X
Outside langua	ers who know your ge	NR	NR	X	
	ers who do not know nguage		X		X
Workin	g court		X		X
	You go to town?		X	X	X
ns in	Most people use on the way?	X	X	X	X
Trans-actions in town	Most used at town's market?		X		X
Trans	Most people use in stores?		X		X

Appendix D. Sociolinguistic interview questionaires

D.1 Language use questionnaire

) CII			AGE USE		
			uage		_
					_
					_
more situations in which It also touches on identif the vernacular. Sampling: In orde some female, some old, their answers, noting the each of your "representathe answers that they molder male, one older fer diachronic changes of la Aim: Your aim sho Observation: It is You should listen for, an language to another for the topic of and/or situat Hints: When askin if more than one languagis the Tok Ples — but no process. Where appropriate,	is designed to find out who speak: the tok ples is used exclusively, cication of the local language, its d rot oget this information you could some young etc. From among them on the form. At the same time titives." Find out whether they come ay have provided on behalf of the male, one young male and one young de see the suggested out of the toget a good overview of a sloe extremely important that you d try to quantify, instances of peoplarger segments of discourse. No ion in which the conversation is or g the questions below, note the oig e is mentioned for just one event the all other languages mentioned.	or mostly, by most ialects; relative properties ask a group that is e group conscious note anything that he from this particular group are very like ung female. This categories for the all the different lan take careful note lole (especially chiltet the languages is courring. The morder in which languages it is significant withoo. In this way yet.	people, the stronger that lesstige of local varieties sponsor such as the stronger that less to the local varieties and the second services and the second services and the second services and the second services and the second second services and the second sec	anguage is and hence the mor oken, and presence and/or des guage group, i.e. there should idual per age/gender grouping h. Make sure to get backgroun ents came form this particular vour sampling should include focurate picture of intersex and Use (pg. 3). is particular location. ing in the village with respect to ither using borrowed words, or re doing it, who they are talkin ou can observe the better. may indicate relative prestige. mentioned consistently, espec shift of language attitude and/o	e likely to continue. ire for literature in be some male, and concentrate on d information on rillage. If not, then our people: one intergenerational o language use. switching from one g to at the time, and Don't be surprised ially if that language or language use in
Language Name					
Name of people gro	oup:				_
Name of language:					_
	of language:				_
Who uses these	e other names?				_
	do you prefer?				_
	anguage group				_
-	Groupings (Map the boundarie		, ,		- - -
Dialect name	Village(s) in dialect	Population	Can you understand?	6/7 year old understand?	Rank ease of
		·		-	understanding
		l	<u>I</u>		
•	Place/Dialect/Language)				
•	form of your language spo				_
	d purest form of your langu	age spoken? _			_
What makes it t	the purest form?				

Do people from neighbouring languages learn your language? Which dialects?
Has anything been written in your language?Title(s)?
Radio programmes in your language:
Which languages do most people around here learn? Why?
Bilingualism & Bidialectalism

What languages do you speak or understand? (Speak = able to speak, Hear = hear/understand but not speak)

(Fill in with an "r" for reported data, and an "o" for observed data. Try to get both.)

Languages &	Dialects	Young Men	Men (kids in home)	Old Men	Young Women	Women (kids in home)	Old Women	Boys	Girls
Local	Speak								
Local	Hear								
Tok Pisin	Speak								
I UK FISIII	Hear								
English	Speak								
English	Hear								
	Speak								
	Hear								
	Speak								
	Hear								
	Speak								
	Hear								
	Speak								
	Hear								
	Speak								
	Hear								
	Speak								
	Hear								
	Speak								
	Hear								
	Speak								
	Hear								

Adults' Language Use

What languages do [see chart] use when speaking to [see chart]? (Fill in with an "r" for reported data, and an "o" for observed data. Try to get both.)

ym = young manmm = married man with children at homeom = old manyw = young womanmw = married woman with children at homeow = old woman

Group co	mposition:	L	oca	al	Ρ	idgi	in	Er	nglis	sh															
		ym	mm	om	ym	mm	om	ym	mm	om	ym	mm	om	ym	mm	om	ym	mm	om	ym	mm	om	ym	mm	mo
You (pl) to	0	`	ī	C	γ	п	C	۸	n	0	γ	ī	0	ν.	П	0	γ	۲	٥	^	۲	٥	γ	ī	٥
your pa	rents																								
your bro	os & sisters																								
your wi	fe																								
teach y	our (grand) kids																								
scold ye	our (grand) kids																								
Your wife	to your kids																								
Your pare	ents to your kids																								
Your pare	ents to you																								
Women	<u> </u>	<u> </u>						_																	
Group Co	Group Composition: Local Pidgin English																								
·		yw	mw	ow	λ	wm	ow	yw	mw	ow	yw	mw	ow	yw	mw	ow	yw	мш	ow	yw	mw	ow	yw	mw	οw
You (pl) to	0	y	П	0	У	ш	0	y	٦	0	У	т	0	Λ	П	0	У	۲	0	Λ	۲	0	У	т	٥
your pa	irents																								
your bro	os & sisters																								
your hu	ısband																								
teach y	our (grand) kids																								
scold y	our (grand) kids																								
	oand to your																								
kids Vour para	ents to your kids																								
Your pare	ents to you																								
What lan	omposition: guages do you ι	ıse	wh	en:					Loc	al	Pi	dgir	1	Eng	lish										
Arguing w Praying @	· · · · · · · · · · · · · · · · · · ·							\perp								-									
	g wedding or fun	eral	fea	ete				+					+			+		\dashv			+				
At the ma		cial	ica	313				+								-									
Joking								+																	
Playing sp	ports							T								\dagger					\dagger				
	who know your l	ang	juag	e				1					T					1							
Outsiders	who don't know	you	r lar	ngu	age																				
Working o	court																								
ء .	you go to town?	?																							
	Most people us	ole use on the way? d at town's market?																							
ans- ons wn												1			1		1			- 1					
Trans- actions in town								_								-									

Children's Language Use	C	hild	lren'	's L	and	gua	ae	Use
-------------------------	---	------	-------	------	-----	-----	----	-----

What languages do your children use when speaking [see list]?

Group Composition	Local	Pidgin	English					
To grandparents								
To parents								
To bros & sisters								
w/ playmates								
when angry								
What language do ch		ŭ						
Before they go to sch	nool, do th	e children ii	n this village ui	nderstand/use	tok ples well?	Yes	_ INO	
Before they go to sch Do they speak it			•		•			
, ,	as well as	you?						
Do they speak it	as well as	you?with tok ples	s?					
Do they speak it Which languages do	as well as	you? with tok ples	s?					

Lang	uage	Attitu	des

What language(s) do you like to listen to stories in?	
What languages do you want your children to know y	المير

What language do you think your children will use when they grow up?

(If not the traditional language) What do you think of this?

When your grandchildren become adults what language(s) do you think they will speak to their children? ___

(If the tok ples is not in the list) Why do you think they will speak (supply languages listed)?

D.2 Contact patterns questionnaire

						ACT PATTI						
Vill	age				ا	Language						
						Date						
Res	searcher				(Coordinates						
mor	other langua ney and mate	ages, the grearial goods, if	ater the chance of these are highly	of a shift to a prized. The	trade langi questions	uage occurring should be aske	, espec ed of a	ave with "outsiders". (cially where there is no group NOT an individ le, some female, som	eed to use tha ual. The grou	at trade la ip should	angua	ge to get
Po	pulation o Record B		ınt by houses									
lmı	migration	(<u>How man</u>	y people from	other are	as live h	ere?)						
	From Where?	Names	Reasons? (marr/wk)	Came When?	Use what Igs?	No of kids	Lan	n g(s) Kids speak age if relevan		Lear loca lang Wel	al j?	How long to learn?
М												
Α												
L												
E												
F												
E												
М												
Α												
L												
Е												
_												
Em	igration (How many	people from	this village	e live else	ewhere?)						
	Live w	vhere?	Who/How many?	Reas (marria k	ge/wor	Speak w lang?		When do you see them?	Speak w lang d return	on go		ls speak od Local lang?
М												
Α												
L												
Е												
			1									
F												
Е												
М												
Α												
L												
Е												
			1							+		
	tlements	,										

	GPS coordinates for possible chopper pads
ls th	ere an airstrip near here? How long does it take to get there?
	Is the airstrip still in use?If not, how long since it was used?
	Are there local people who have flown in an aeroplane? (If so) Who?
,	When did they last fly somewhere?
,	Where to and at what rates?
Whε	ere do you go to by road?
,	What is the quality of the road?
	(Add your own observations)
	How long does it take to get to the nearest PMV stop?
	What routes do PMVs take in the area?
	At what rates? How frequently?
	How many people use the PMVs?
	Are there people in this village that own private cars/PMVs?
	How often are these private cars used?
(If a	ppropriate) What are the frequently used water routes?
	What kind of boats do you use? (canoe, outrigger, ships, dinghies)
	Are any locally (privately) owned? If so by whom?
	Are boats used like PMVs?
	(If so) At what rates?
	How many people use these PMV-boats?
Whi	ch villages do you normally go to by path?
	Are there any trails not being used right now?Why?
	(Add your own observations
	When you walk for more than one day, where do you overnight?
Sup	ply Needs
-	many trade store(s)/canteens are in your village? (if 0) Where is the nearest trade store/canteen?
	How long has it been here?
	Where does it get its supplies?
	How often does it run out of supplies?
	What are the things you can always buy there?
	Are there things that are difficult to get?
Wh€	en you go to town, which town do you usually go to?
Who	o goes to town (Men/Women/Young people/Whole families)?
	For what purpose do they go (e.g. buying, selling, education, work, health, visiting)?
	How do you get there?
	How long does the trip to town take for men only?
	How long does the trip take for women and children?
	How often do you go?
	at other places can you buy things without going to town?

Medical Needs
Which aid post(s) or health centre do you use?
How long has it been here?
Where does it get its supplies?
What can you always get there?
How far away is it?
How often is it open?
Who are your health workers (names):
Nursing sister Aid Post Orderly
Village Birth Assistant Community Health Worker
Where are they from?
What language(s) do they speak?
(If yes) What language(s) does he speak when working?
What language does he speak when he's in his village but not working at the aid post?
What language(s) do you use at the Aid Post
Have any health workers visited the village?
For what reasons?
What are the main sicknesses?
Sanguma?
If people need to go to the hospital or Health Centre, where do they go?
What language(s) do they speak while at the subcentre?
Are there traditional healers in the village?
Do people usually go to the traditional healers or aid post first?
What is Tok Ples for "healer"?
Commercial Ventures
Are there any "big" businesses in the area (timber, rubber, plantations, mines, fisheries, etc)?
What are the names of the businesses?
What do they make/mine/produce?
When did they come to the area?
How have they helped you?
How many of your people work there?
What jobs do they have?
What languages do they use there?
Do people from other areas work there? From where?
What language(s) do they speak when they talk to you?
Local Businesses
How do people earn money here (e.g. markets, PMV, private plantations, sell things)?

Contacts with Other Lang	quages			
When you go to town, what	_	ugh on the way?		
Villages:	l l l l l l l l l l l l l l l l l l l	agar ear are analy		
_				
Language: Language				
you use:				
Trade				
In the past, were there peo	ple from another language	e that you used to trade	with?	
	hese people?			
	do you use when trading w			
Do many people visit this v	_			
What for?				
	Who visits?	Why do they come?	Know local lang?	Lang used when visiting
Church leaders				
Government members				
Government members				
Other Government people	е			
School teachers				
Relatives				
(Other)				
Disputes, Compensation The aim of this section demanding compensation	is to find out about the see			ning into the area and
Which groups were traditio	nally your enemies?			
Do you do anything wit	h them these days? (Wha	t?)		
Do you have disputes with		· ·		
Do any of the neighbouring	-	•		
•	neir claims? Police, guns,	•		
	efuse to pay?			
Do you have many raskol p				
	cident?			
Has anyone in this village t				. <u> </u>
	9?			
What was the result?				

D.3 Culture questionnaire

		CU	LTURE & SO	CIETY						
Village			_							
	rince Dateearcher Group Composition									
The purpose of this questionnaire is to explore the cultural supports for the use of the traditional language. Questions that are indented a previous questions, and may need to be modified before asking, or not asked at all. The questions should be asked of a group NOT and group should be as representative of the language group as possible, i.e. there should be some male, some female, some old, some you										
Composition of responding	g group:									
			latarial Estalar							
(Observation) Are there dif	fferent types o		laterial Evider		ig house, men'	's house, hau	.swin)?			
What distinguishes you fro	m other group pottery	os? (pottery, c	garden/	hunting/fishin dress	g, dress, canoo Canoe/house	e, house, wo	orship) Other			
			hunt/fish				_			
Who made them?										
Still teach kids/youth?										
Who does it the same?										
Who does it different?										
What material do the wome	en use for ma	king bilums/ba	askets, grass s	kirts and mats	?					
Do teenage girls know	how to make	bilums/baske	ts, and mats?							
Do you still make traditiona	al instruments	(garamut, kui	ndu, flutes, etc.)?						
(If so) Do you teach yo				•						
What kinds of outside thing							ınks. tools.			
etc.) Reported	•	, ,	•	, ,		•				
Observed										
Do you buy material to buil			n)?							
Reported										
Observed										
How many buildings in the	village have	electricity?								
		Social Prac	ctices - Social	Organization						
Reported Tok Ples for clan	1:									
Reported Definition of clan	n:									
Are there different levels of	f clan?									
Which clans cross village I	ines?									
Which clans cross language	ge lines?									
Which clans cross dialect I	lines?									
Names of the clans in this	village:									
Does each clan have a chi	ief?									
Their job:										
Who is the overall chief?										
His job:										
If two clans have a dispute										
What are the things you ca										

Do you ever work together with other villages? Which villages?
(If yes) When you work together, who is in charge?
Of all your customs, which are the most important?
Ward councilor name/clan/village:
His job:
Do church/traditional/government leaders agree/work together?
Highest authority:
How has attitude to leadership changed?
Disputes and Warfare
Who were your traditional enemies?
Location
Do you have new enemies?
Location
How do you handle these disputes now?
Land
Has this ground always been yours?
Who owns the ground?
Who can inherit ground from whom?
Are there fights about ground?Who with?
Where is your water source?
When do you run out of water?
·
Rites of Passage (Note that you may be limited in what you can appropriately ask by your gender)
Do you have initiation rites for boys when they become men?
When were the last traditional initiation rites held when a boy becomes a man?
(If appropriate) At what age do boys move into the men's house? (Make observations of living patterns — family houses, clan houses, married men's houses)
Do the women have initiation rites for the girls?
When a baby is born, when is it named?
What do you do to present the baby to the community?
Who tells the traditional stories to the children?
What are the tasks of younger children?Do older kids do these too?
Traditional Festivals
When do you have feasts?
Weddings Funerals Pig Exchanges Harvest Church openin
Other
Do you have traditional singsings?Tok Ples names
What language(s) are the words in?
What is the "work" of the singsings?
When was your last singsing?
Are singsings/bilas shared over clan/village/dialect/province? Details:

Magic (Note: This may be a sensitive topic.)
If a man dies, what do you do to determine the cause? (askim mambu, pulim mambu)
If a man likes a woman and wants to make her like him, what can he do?
What can you do to help good hunting/fishing/gardening/diving/tok tok/weather?
Do you leave your rubbish (buai skin/kaikai) where people can take them?
When do you get afraid? (strange dog comes, bay flies around house, insect cries)
Both men & women do sanguma?Inherited?
What do people do when they know a person has done sanguma?
What do Christians do to protect themselves against sanguma?
Tok Ples for Marila:
Definition of Marila:
Tok Ples for Sanguma
Definition for Sanguma
Marriage
How old should a man be before he can marry?
How old should a woman be before she can marry?
How does one arrange a marriage?
Is there a bride price to be paid? If so, who pays it?
What things are used as part of the bride price?

D.4 Education questionnaire

		EDUCATION	QUESTIONNAIRE		
also give information potential partners in	n about the potential translation and litera	impact of education on t cy.	ation situation from each SChO o the area, and on language use, a	is well as possibly h	nelping to identify
District	D	ate	Province Researcher		
			er Tongue		
Contact Address					
Qualifications					
History of Education	tion				
Please note the na	ames/locations and	dates of founding for	schools in the area.		
Reform System	Old System	Name	Location	Date founded	Founded by
Elementary (EP- E2):	Prep-schools: (TPPS)				
Primary (3 - 8): (7 & 8 Top Up)	Community Schools (grades 1-6)				
Secondary (9-12): (11 & 12 Top Up)	Provincial High School: (grades 7-10)				
National High School: (grades 11 & 12)					
Vocational / Technical schools / Kisim Save schools					
Other					
Have any schools	rlosed?		<u> </u>		
•					
If not under Refo					_
•	-	Ť	I in this language group?		
			ols		
Which longuage/o		plans for other school	ло		_

School Staff																			
List the Headmaste	er, Teachers, Board	Chai	irmar	n, an	d an	y oth	er inf	fluent	tial p	eopl	e:								
Name	Position/Grade	Tau	ght	Ye	ars F	Here	Н	lome	Area	a/Pro	V.	Mo	other	Ton	gue				
	_			_															
	_			_															
	_			_															
	_			_															
	_			_								_							
				_															
				-															
How long do teach	ers usually continue	to te	each	at th	e sch	nool?													
Size and Attendar	nce																		
	dance figures for this	ssch	nool?	(Re	snon	dent	's sc	hool)											
	in this area are sch																		
	hool-aged" children								.9 0	-/ _									
	represented: Which														1-				
which villages do y	our students come t	rom	? (In	sert	graa	e iev	eis a	is ap _l	propi	riate)) B=	=DOY	s C	=gir	IS				
	GRADES:			_		<u> </u>						_		_				_	
Village Name	Tok Ples	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G	В	G
														-					
														-					
Total Number	er Per Grade																		
How often does a r	new (E Prep/G1) clas	ss st	art?																
	were of age to start																		
-	arents give if their cl																		
Attitude to the Le	ool Traditional land		•																
	cal Traditional lang	_																	
What languages ar	e used in class? _ are the textbooks wr																		
	traditional language																		
If so: Describe			-										·	'\	,				
	ches it?																		
	nguage is used?																		
	g does it last?																		

(If no) Wo	ould you be willing to have a	traditional language comp	onent?	
) How could it be scheduled eek)?		_	sion (eg 15 min/day,
(Confirm this I	children use on the playgrou by observation if possible as	s there may be an "official"	answer)	
	y concerning children's lang			
What hap	pens if the children use the	traditional language?		
What languag	es do teachers use outside	school?		
with their	families:			
with other	teachers:			
with villag	e adults:			
Are any of the	teachers learning the local	language?		
Attitude of sur	rounding language groups t	owards this language grou	o?	
Attitude of this	language group towards its	s own language?		
If a child asks him/her?	you a question about a sch	ool subject away from scho		
=	nance to teach in the local la			
Why?				
Academic Ac	hievement			
Have you noti	ced any changes due to ver	nacular education?		
(such as?)			
What happen	s to school leavers?	,	-	
Leavers left in past two years	Numbers who Remain in village (names?)	Numbers who Found work (names?)	Work Where?	Work type
Grade 6				
Grade 8				
Grade 10				

Higher Ed										
Other										
Where? _ How man	your last graduates went on y of them are still in school? ft school, why did they leave									
Community A	Attitude Toward School									
	nity satisfied with the way th	(, (,								
List areas of s	satisfaction/dissatisfaction:_									
If dissatist	If dissatisfied, has the community/council discussed a solution to the problem(s)?									
What "hevi's"	do the children encounter at	school?								
When children	When children finish school and go back to the village, can they read and write well?									
Do they use reading and writing to help the village? (List specifics)										
How does this language group treat outsiders living among them?										
Literacy										
•	en read? In what languages									
-	men read? In what languag									
•	Are there any literacy programmes in the area to teach people to read in the local language?									
If so, how many people attend these programmes?										
	Do people from this community think it is important to be able to read?									
Are the elementary schools using an alphabet? Give details:										

D.5 Church questionnaire

CHURCH QUESTIONNAIRE	
VillageDateResearcher _	
Church denomination Church name	
Number of:PriestsPastorsLay WorkersExpat missionariesPNG missionariesEvangelists	
Name	
Contact Address	
History of Work in the Area	
When did the Denomination start working in the area?	
Where did the missionaries/evangelists come from?	
Where in the area did they start their work?	
What other villages have a church of this denomination?	
What significant events have come up in this church's history?	
Which villages represented in your congregation?	
What other denominations are in the area?	
Do you know when they started working in the area?	
Have there been any churches that started here in the area, but didn't survive?	
Church Hierarchy	
Who is the District Pastor/Bishop/President?Where is he located?	
When did he last visit? When did you last see him?	
Names of catechists /pastors in the villages	
How long do pastors normally work in the church community?Do they rotate within a church circuit?	
Leadership turnover Level of participation in denomination structure	
(If the respondent is a different person than the pastor) How long have you been here?	
Local Church Leader(s)	
How is the Church leadership selected for service?	
What type of training has the Pastor/Priest/Lay worker received? (name of individual, name/location of school, duration; dates,	/years of
attendance. Highest Grade completed?)	
When in training, do they receive financial help? Other help?	
Who gives the help and how is it administered?	
Does the community/church help with pastoral training fees?If so, give an example:	
Language Use and Attitude	
What is the Pastor's/Priest's/Lay worker's Mother Tongue?	
What other languages he speaks or understands?	
What languages does the pastor/priest use in the community; outside church services?	
What is the official church language?What languages are used in the church for the liturgy?	
Hymns? Songs?	
Spontaneous prayer? Sermon/homily?	

Announcements?	Scripture reading?	
Youth Services?	Women's groups?	
Sunday School (children) r?	Other?	
If you could read the Bible in any language, what	language would you prefer? 1st choice	2 nd Choice
Spiritual Life (Confirm through observation)		
Number of church members:What day	/s do you hold church services?	
Is the church usually full for these services?	Half full?	
What activities are run by the church? (outreach	projects, bible studies, prayer groups, etc.)	
What languages are used in these activities	?	
Which villages are actively involved in church act	ivities?	
How much formal teaching is done in the church?	? How long is the actual Bible teaching on Sunday	y? Midweek Meetings?
List any church materials that have been written i	n the local language	
Have there been any worship songs written in the	e local language?	
How many people have been baptized and/or cor	nfirmed?No. of people from this land	guage call selves Christians?
Do you think some people are skin Christians?	How many? Everyone in la	anguage knows who Jesus is?
Do you see any sign of magic or sanguma? If so	, what?	· · · · · · · · · · · · · · · · · · ·
Tell me about cargo cult		
Church materials written in the language	·	
Who uses these materials and how often are they	/ used?	
Are there Christian programs broadcast on local i	radio stations? If so, in what language(s)?	
How often do you listen to the radio?		
Worship songs in the local language?(Composer,	, number?)	
Are the songs used in the services? How often?		
Potential translation project assistance:		
Do groups in the community do projects together	(i.e. community work day)?	
Which groups? What kind of projects do they do	?	
Do the groups ever cooperate with each oth	er on a project?	
Which villages work together?		
(If they do) Who is in charge of the project?		
Information to be elicited from Church le	adership (e.g. Bishop, Circuit Pres., District Pa	astor)
Note: Record your impressions of how the perso	n felt about the questions, and why you got that i	impression, as well as their actual answers.
Do different churches in the area work together o	n projects/outreach/joint services?	
How and When?		
Church prayer requests:		

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