

LEXICAL AND PHONOLOGICAL COMPARISON OF DAYAK NGAJU AND KATINGAN LANGUAGES: EVIDENCE OF AUSTRONESIAN AFFILIATION

Mongga Kaharap^{*1}, Imam Qalyubi³, Misrita¹²

¹*Magister of English Education, University of Palangka Raya*

²*Department of Forestry, Faculty of Agriculture, University of Palangka Raya*

³*Palangka Raya State Islamic Religious Institute, Palangka Raya*

^{*}monggaolsen@gmail.com

Abstract

This study explores the historical relationship between the Dayak Ngaju and Katingan languages through a comparative lexical and phonological analysis. A total of 225 word pairs were examined using lexicostatistical and historical phonology methods. Each pair was classified into one of three categories: cognates, likely cognates, and non-cognates. The findings show that 46.22% of the pairs are clear cognates, 22.22% are likely cognates, and 31.56% are non-cognates. In addition to lexical similarities, phonological processes such as apheresis, apocope, paragogic, and single phoneme differences were identified, further supporting their genealogical relationship. These patterns indicate that the two languages likely descend from a common proto-language within the Austronesian family. Core vocabulary items such as “water,” “dog,” and “bird” remain identical, reflecting lexical stability. The study not only affirms a strong linguistic connection between Ngaju and Katingan but also contributes to the preservation of regional languages by documenting their historical and structural ties.

Keywords: Dayak Languages, Ngaju, Katingan, Cognates, Austronesian

INTRODUCTION

The Dayak Ngaju and Katingan languages are two regional languages widely spoken in Central Kalimantan. Although these languages are used by communities that are geographically close and culturally similar, there has been little scientific research systematically examining their lexical and phonological relationships. Language serves as a marker of a community's collective identity, and historical linguistic studies can be an important tool in understanding the origins and developmental dynamics of a language.

The Austronesian language family comprises thousands of languages spread from Madagascar to the Pacific. Dayak languages fall within the Southwest Kalimantan subgroup and exhibit a rich diversity of branches. This study aims to answer the questions: Do the Ngaju and Katingan languages originate from a common proto-language? To what extent do they share lexical and phonological similarities?

Through the analysis of cognates and sound changes, this research contributes to the field of historical linguistics and forms part of the broader effort to preserve regional languages that are increasingly threatened by the dominance of national and global languages.

RESEARCH METHODS

This study employs a descriptive-qualitative approach using the comparative linguistic method, focusing on the analysis of word forms and meanings in two languages: Dayak Ngaju and Dayak Katingan. This approach was chosen because it aligns with the primary aim of the research—to identify the extent of the historical and genetic relationship between the two languages through the comparison of lexical forms and phonological change patterns.

The main data in this study consist of 225 pairs of basic vocabulary items drawn from both languages. The selected vocabulary

focuses on core words that are generally universal, essential in daily communication, and relatively resistant to change over time, such as words for “water,” “fire,” “human,” “eat,” and “sleep.”

Data were collected through a literature review of local language documentation, regional language dictionaries, and credible linguistic sources. Additionally, the data were validated directly with native speakers of Dayak Ngaju and Katingan to ensure the authenticity of the word forms and their contextual use in everyday life. Each word pair was then manually analyzed and classified into three categories based on phonetic similarity and semantic meaning: (1) Cognates (Yes), referring to word pairs with identical forms and meanings; (2) Likely Cognates (Likely), referring to word pairs that share similarities in form and meaning but show minor phonological variation; and (3) Non-cognates (No), referring to word pairs with significant differences in both form and meaning, making it unlikely that they derive from a common root.

To strengthen the lexical findings, a phonological analysis was conducted on word pairs that showed similarities but were not identical. This analysis aimed to identify common sound change patterns that typically occur in language evolution. Some phonological changes observed in this study include apheresis (loss of initial sounds), apocope (loss of final sounds), paragoge (addition of sounds at the end), and single-phoneme differences (e.g., glottal stops or vowel shifts). These phonological processes were analyzed based on the phonetic forms of the word pairs and possible morphophonemic influences in each language. The presence of such patterns serves as a key indicator in determining whether differently shaped words may still derive from the same root.

During the analysis phase, all data were systematically and contextually examined, taking into account semantic, phonetic, and morphological distribution factors. Validation was carried out through data triangulation by involving two independent linguistic

researchers to avoid classification bias and by rechecking word usage contexts through informal interviews with native speakers. The results of the analysis were then presented in both quantitative forms (percentages and frequencies) and qualitative forms (patterns of sound and meaning changes). This approach allows the researcher not only to identify surface-level similarities between words but also to trace, both phonologically and semantically, how these words may be historically connected within the framework of language evolution.

Thus, this method provides a solid foundation for proving the genealogical relationship between the Dayak Ngaju and Katingan languages through systematic, valid, and academically accountable lexical and phonological analysis. It also enables a broader understanding of language change dynamics within the local context of Central Kalimantan and reinforces the importance of regional language documentation as part of preserving cultural heritage.

RESULT AND DISCUSSION

From a total of 225 word pairs, the following were found:

Figure 1. Pie Chart – Lexical Relationship

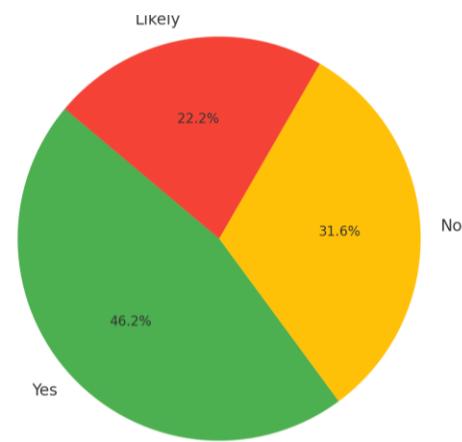


Table 1. Cognate Distribution

Category	Number of Words	Percentage (%)
Cognate (Yes)	104	46.22%
Possible Cognate	50	22.22%
Not Cognate (No)	71	31.56%
Total	225	100%

The results of this study indicate that the relationship between the Dayak Ngaju and Katingan languages is not merely geographical and cultural, but also deeply rooted in their lexical and phonological structures. Out of the 225 word pairs analyzed, 104 pairs (46.22%) were identified as exact cognates, meaning that the words have identical forms and meanings in both languages. This reflects a strong historical linguistic continuity and a high degree of preservation of core vocabulary forms in both languages.

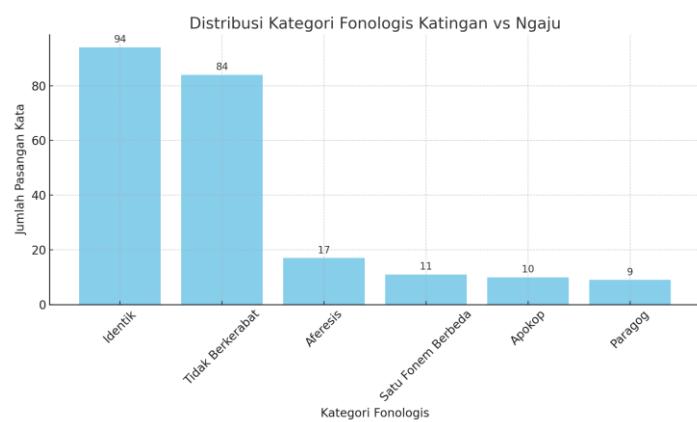
Furthermore, 50 word pairs (22.22%) were categorized as likely cognates—words that share nearly identical phonetic forms and equivalent meanings, despite minor phonological variations. These variations are not significant enough to indicate different roots, suggesting that these words originated from the same root but have undergone slight sound evolution. This provides evidence of internal linguistic dynamics that maintain semantic function even as phonological forms shift slightly.

Meanwhile, 71 word pairs (31.56%) did not show a clear cognate relationship. These pairs differ significantly in both phonological form and meaning, indicating that they likely derive from different roots—possibly as a result of local innovation, borrowing from other languages, or extreme semantic divergence in context and usage.

The distribution of these categories shows that about two-thirds (68.44%) of the analyzed word pairs exhibit either cognate or likely cognate relationships. This figure is significant, as it suggests that the Ngaju and Katingan languages most likely originate from

a common proto-language within the Austronesian family. The fact that more than half of the total vocabulary analyzed retains strong lexical and phonetic similarity reinforces this claim.

Figure 2. Bar Chart – Phonological Category Distribution



Phonological Analysis

Beyond lexical similarities, this study also identified consistent phonological change patterns between the two languages. A total of 94 word pairs (41.78%) showed no phonological changes whatsoever—classified as identical pairs. These represent the strongest category of cognates and most directly indicate a close genealogical relationship between the two languages.

However, several phonological processes were observed in non-identical word pairs that still share common roots, including:

1. Apheresis

Apheresis refers to the removal of one or more sounds from the beginning of a word. This phonological process often occurs as a natural part of language evolution, particularly in spoken or informal registers, where efficiency of articulation is prioritized.

In this study, several word pairs between Dayak Ngaju and Katingan languages exhibit apheresis, such as *amas/bulau* → *amas* and *jukung/bakis* → *jukung*. These examples indicate that the initial phoneme(s) in the Katingan forms

have been omitted in their Ngaju counterparts, or vice versa, depending on the direction of comparison.

The presence of apheresis in these pairs reflects a tendency toward phonological simplification. It often arises in fast-paced or casual speech and may also result from shifting stress patterns, where unstressed initial syllables are more prone to reduction or deletion. This process does not necessarily alter the semantic content of the words but rather highlights a natural phonetic variation within historically related forms.

2. Apocope

Apocope is the phonological process involving the omission of one or more sounds at the end of a word. This process typically emerges as a natural consequence of phonetic erosion over time and is commonly observed in various stages of language evolution.

In the context of this study, examples of apocope include word pairs such as *ikaw* → *ikau* and *'epat* → *epat*. These forms illustrate the reduction of final phonemes in either the Dayak Ngaju or Katingan variants, depending on their historical trajectory.

Apocope frequently occurs in dialectal variations and informal speech, where speakers tend to simplify articulation by dropping terminal sounds. Although this reduction alters the phonetic shape of the word, it generally does not change its core meaning. Thus, apocope serves as evidence of internal phonological evolution while preserving semantic continuity within related lexical items.

3. Paragoge

Paragoge is a phonological process that involves the addition of one or more sounds at the end of a word. This addition is typically not rooted in the original morpheme but arises as a result of

phonetic adaptation or metrical adjustment within a language's phonological system.

In this study, paragoge is exemplified by word pairs such as *ewei* → *eweh* and *ulun* → *uluh*. These examples show that an extra sound, often a vowel or consonant, is appended to the word-final position in one of the language variants.

Paragoge commonly occurs to conform a word's structure to the dominant syllabic or prosodic pattern of a given language. It may also function to create a sense of phonetic balance or completeness in pronunciation. While this process alters the phonetic form, it typically does not affect the meaning of the word, thus maintaining its lexical identity across languages or dialects.

4. Single Phoneme Difference

Single phoneme difference refers to minor phonological variations between word pairs, typically involving the insertion, deletion, or substitution of a single sound, such as a glottal stop or a vowel shift. These subtle changes often occur without altering the overall structure or semantic content of the word.

In this research, such cases are illustrated by pairs like *bawi'* → *bawi* and *dia'* → *dia*. The glottal stop present in one variant is absent in the other, yet both forms remain phonologically close and semantically equivalent.

Although these variations introduce slight phonetic divergence, they do not undermine the genealogical connection between the words. Instead, they represent surface-level phonetic adjustments that may result from dialectal influences, speaker habits, or prosodic tendencies. Therefore, these forms can still be categorized as loose cognates, reinforcing the historical relatedness of the compared lexical items.

A total of 47 word pairs (20.88%) displayed these phonological processes (apheresis, apocope, paragoge, or single

phoneme difference), indicating internal phonetic evolution without semantic root change. These processes are key indicators that phonological differences do not necessarily signal different word origins.

Meanwhile, 84 word pairs (37.33%) exhibited significant phonetic and lexical differences and were categorized as non-cognate. These differences may result from local innovations, language contact with external groups, or semantic shifts that obscure the original connection. Examples of such cases include *mulut* (Katingan) and *nyama* (Ngaju), as well as *ingam* and *anak*. These pairs display no observable phonetic resemblance, suggesting that they originate from entirely different roots and do not share a common etymological background.

Stability of Core Vocabulary

It is worth noting that the most stable and unchanged words between the two languages tend to be basic or primary vocabulary essential to daily life. Words like *danum* (water), *asu* (dog), *manuk* (bird), and *puring* (leaf) maintain identical forms and meanings in both languages. This supports a key theory in historical linguistics: core vocabulary is the slowest to change and the strongest indicator of genealogical relationships among languages.

Considering all these findings, it is evident that the Dayak Ngaju and Katingan languages share significant structural closeness. The high degree of cognacy and consistent patterns of phonological change provide strong evidence that both languages descend from the same linguistic root—the Austronesian language family. The variations observed are more reflective of natural phonetic divergence and local innovation rather than fundamental differences in word origins.

Thus, the relationship between these two languages is not only culturally related but also structurally linguistic, reinforcing the importance of documentation and preservation of regional languages as part of the nation's intellectual heritage.

CONCLUSION

Based on the analysis of 225 word pairs, it can be concluded that the Dayak Ngaju and Katingan languages exhibit a high degree of relatedness, both lexically and phonologically. With 68.44% of the word pairs classified as cognates, and the presence of consistent and predictable phonological processes, the historical connection between the two languages is very strong.

The stability of core vocabulary such as “water,” “dog,” “bird,” and “wood” indicates that both languages have preserved the same linguistic heritage from their Austronesian ancestors. Processes like apheresis and apocope are natural results of phonetic evolution, rather than evidence of different word origins.

This research opens opportunities for further studies on the reconstruction of the Proto-Dayak language and the preservation of endangered local languages. Moreover, the findings also carry practical implications for the development of local content curricula and mother tongue instruction in the Central Kalimantan region.

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APPENDIX

No	Bahasa Katingan	Bahasa Ngaju	Kognat	Reason	Catatan
1	kawu	kawu	Yes	Identical form	Tidak ada perubahan
2	danum	danum	Yes	Identical form	Tidak ada perubahan
3	uhat	uhat	Yes	Identical form	Tidak ada perubahan
4	yaku	aku	Likely	Similar form, possibly related	Penghilangan bunyi akhir
5	ingam	anak	No	Different roots or significant change	Perbedaan bentuk signifikan
6	riwut	riwut	Yes	Identical form	Tidak ada perubahan
7	asu	asu	Yes	Identical form	Tidak ada perubahan
8	narai	narai	Yes	Identical form	Tidak ada perubahan
9	apoi/apoy	apui	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
10	lapang, kakapus, lembut	lampang	No	Different roots or significant change	Perbedaan bentuk signifikan
11	asep	asep	Yes	Identical form	Tidak ada perubahan
12	nambu'	hunjun	No	Different roots or significant change	Perbedaan bentuk signifikan
13	manuk	manuk	Yes	Identical form	Tidak ada perubahan
14	urak	bawuy / bawoy / bawui	No	Different roots or significant change	Perbedaan bentuk signifikan
15	puring	puring	Yes	Identical form	Tidak ada perubahan
16	misik	misik	Yes	Identical form	Tidak ada perubahan
17	penda/ngiwa'	penda	Yes	Different roots or significant change	Penghilangan bunyi awal
18	bahanyi	bahanyi	Yes	Identical form	Tidak ada perubahan
19	behas	behas	Yes	Identical form	Tidak ada perubahan
20	tende	tende	Yes	Identical form	Tidak ada perubahan
21	barasih	barasih	Yes	Identical form	Tidak ada perubahan
22	sanaman	sanaman	Yes	Identical form	Tidak ada perubahan
23	mulut	nyama	No	Different roots or significant change	Perbedaan bentuk signifikan
24	humung, dungu, bureng	bareh / mameh / bureng	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
25	nganan	nganan	Yes	Identical form	Tidak ada perubahan
26	nguap	buka	No	Different roots or significant change	Perbedaan bentuk signifikan
27	bukit	bukit	Yes	Identical form	Tidak ada perubahan
28	bawute'	babute	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
29	en arak, en arake, enarak, enarake	kenampi	No	Different roots or significant change	Perbedaan bentuk signifikan
30	mapoy	tusul	No	Different roots or significant change	Perbedaan bentuk signifikan

31	are	are	Yes	Identical form	Tidak ada perubahan
32	apang, yapang, nyapang	apang / bapa / apa	Likely	Different roots or significant change	Perbedaan bentuk signifikan
33	meter	menter	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
34	taheta	taheta / puga / harun	Yes	Identical form	Penghilangan bunyi awal
35	bisa	bisa	Yes	Identical form	Tidak ada perubahan
36	batu	batu	Yes	Identical form	Tidak ada perubahan
37	boa/buah	bujur	No	Different roots or significant change	Perbedaan bentuk signifikan
38	kembang	kembang	Yes	Identical form	Tidak ada perubahan
39	hanangui	hanangui	Yes	Identical form	Tidak ada perubahan
40	nanjung	nanjung	Yes	Identical form	Tidak ada perubahan
41	bebehat	bebehat	Yes	Identical form	Tidak ada perubahan
42	nenga	nenga	Yes	Identical form	Tidak ada perubahan
43	hae	hai	Likely	Similar form, possibly related	Penambahan bunyi di akhir
44	metu	metu	Yes	Identical form	Tidak ada perubahan
45	bua	bua	Yes	Identical form	Tidak ada perubahan
46	beken	beken	Yes	Identical form	Tidak ada perubahan
47	bulan	bulan	Yes	Identical form	Tidak ada perubahan
48	bulu	bulu	Yes	Identical form	Tidak ada perubahan
49	kambang/bunge	kambang	Yes	Identical form	Penghilangan bunyi awal
50	munu	patei	No	Different roots or significant change	Perbedaan bentuk signifikan
51	buruk	maram	No	Different roots or significant change	Perbedaan bentuk signifikan
52	lukeng	handalai	No	Different roots or significant change	Perbedaan bentuk signifikan
53	capat	capat	Yes	Identical form	Tidak ada perubahan
54	nyium	sium	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
55	manuku	menyau	No	Different roots or significant change	Perbedaan bentuk signifikan
56	daging	daging	Yes	Identical form	Tidak ada perubahan
57	tutang	tuntang	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
58	tasik	danau	No	Different roots or significant change	Perbedaan bentuk signifikan
59	daha	daha	Yes	Identical form	Tidak ada perubahan
60	dayung	besei	No	Different roots or significant change	Perbedaan bentuk signifikan
61	hanya	hanya	Yes	Identical form	Tidak ada perubahan

62	hunjuh luar	melai luar	No	Different roots or significant change	Perbedaan bentuk signifikan
63	nangguh nganing	melai kanih	No	Different roots or significant change	Perbedaan bentuk signifikan
64	dumah	dumah	Yes	Identical form	Tidak ada perubahan
65	bara	bara	Yes	Identical form	Tidak ada perubahan
66	dawen	dawen	Yes	Identical form	Tidak ada perubahan
67	kawu	kawu	Yes	Identical form	Tidak ada perubahan
68	dani	tukep	No	Different roots or significant change	Perbedaan bentuk signifikan
69	lewu	lewu	Yes	Identical form	Tidak ada perubahan
70	dengan	dengan	Yes	Identical form	Tidak ada perubahan
71	hening	hining	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
72	suang	melai huang	No	Different roots or significant change	Perbedaan bentuk signifikan
73	ngasuey	melai kueh	No	Different roots or significant change	Perbedaan bentuk signifikan
74	sadingen	sadingen	Yes	Identical form	Tidak ada perubahan
75	mendeng	mendeng	Yes	Identical form	Tidak ada perubahan
76	nanggu situh	melai hetuh	No	Different roots or significant change	Perbedaan bentuk signifikan
77	nganih/ie'/siye'/ngasiye'	melai hete	No	Different roots or significant change	Perbedaan bentuk signifikan
78	nucu'	nulak	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
79	due	due	Yes	Identical form	Tidak ada perubahan
80	munduk	munduk	Yes	Identical form	Tidak ada perubahan
81	ikuh	ikuh	Likely	Similar form, possibly related	Penghilangan bunyi awal
82	'epat	epat	No	Different roots or significant change	Penghilangan bunyi akhir
83	amas/bulau	amas	No	Different roots or significant change	Penghilangan bunyi awal
84	ikaw	ikau / ikaw	No	Different roots or significant change	Penghilangan bunyi akhir
85	uyah	uyah	Yes	Identical form	Tidak ada perubahan
86	manggayu'	gayau	No	Different roots or significant change	Perbedaan bentuk signifikan
87	seput	baseput	Likely	Similar form, possibly related	Penghilangan bunyi akhir
88	kasinge'	kasinga	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
89	makit	ngirut	No	Different roots or significant change	Perbedaan bentuk signifikan
90	atei	atei	Yes	Identical form	Tidak ada perubahan
91	urung	urung	Yes	Identical form	Tidak ada perubahan

92	belum	belum	Yes	Identical form	Tidak ada perubahan
93	bahijaw	bahijau	Likely	Similar form, possibly related	Penambahan bunyi di akhir
94	nyi'ip	minyop	No	Different roots or significant change	Perbedaan bentuk signifikan
95	babilem	babilem	Yes	Identical form	Tidak ada perubahan
96	ninggap	mise	No	Different roots or significant change	Perbedaan bentuk signifikan
97	parak kayu/parakayu	himba	No	Different roots or significant change	Perbedaan bentuk signifikan
98	umay/umai	inay / indu / indang / umay	No	Different roots or significant change	Perbedaan bentuk signifikan
99	laok/lauk	lauk	No	Different roots or significant change	Penghilangan bunyi akhir
100	meteng	meteng	Yes	Identical form	Tidak ada perubahan
101	inat	bingat	No	Different roots or significant change	Perbedaan bentuk signifikan
102	sawey/sawan	sawan	Yes	Identical form	Penghilangan bunyi akhir
103	tuh/jie	jituh / tuh	No	Different roots or significant change	Perbedaan bentuk signifikan
104	je/janlh	jikau / jite / kau / te	No	Different roots or significant change	Perbedaan bentuk signifikan
105	kecau	kejau	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
106	pai'	pai	Likely	Similar form, possibly related	Perbedaan kecil (glottal stop)
107	amun	amun	Yes	Identical form	Tidak ada perubahan
108	ikei	ikein	Likely	Similar form, possibly related	Penghilangan bunyi awal
109	ketun	ikau / ikaw	No	Different roots or significant change	Perbedaan bentuk signifikan
110	kame'	ketun	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
111	mere'	ketun due	No	Different roots or significant change	Perbedaan bentuk signifikan
112	gatau'	gantau	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
113	kalahi	kalahi	Yes	Identical form	Tidak ada perubahan
114	takuluk/kuluk	kulok / kuluk / takuluk	No	Different roots or significant change	Perbedaan bentuk signifikan
115	teah/keang	keang / keyang	No	Different roots or significant change	Perbedaan bentuk signifikan
116	sambil	sambil	Yes	Identical form	Tidak ada perubahan
117	hebes, bebes	bebes	No	Different roots or significant change	Penghilangan bunyi akhir
118	barikang	paringkong	No	Different roots or significant change	Perbedaan bentuk signifikan

119	belikek/balike'	papa	No	Different roots or significant change	Perbedaan bentuk signifikan
120	silut	silu	Likely	Similar form, possibly related	Penghilangan bunyi awal
121	upak	upak	Yes	Identical form	Tidak ada perubahan
122	bahenda	bahenda	Yes	Identical form	Tidak ada perubahan
123	guti'	guti	Yes	Identical form	Perbedaan kecil (glottal stop)
124	tana, ladang kecil tapoy	tana	No	Different roots or significant change	Penghilangan bunyi awal
125	langau	langau	Yes	Identical form	Tidak ada perubahan
126	tahi	tahi	Yes	Identical form	Tidak ada perubahan
127	lapas	lapas	Yes	Identical form	Tidak ada perubahan
128	talingow	talingau	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
129	beken	beken	Yes	Identical form	Tidak ada perubahan
130	lumbah	lebar	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
131	uyat	uyat	Yes	Identical form	Tidak ada perubahan
132	hatue	hatue	Yes	Identical form	Tidak ada perubahan
133	malisen	malisen	Yes	Identical form	Tidak ada perubahan
134	jela	jela	Yes	Identical form	Tidak ada perubahan
135	napayah	ture / mananture / payah / manampayah	No	Different roots or significant change	Perbedaan bentuk signifikan
136	lime	lime	Yes	Identical form	Tidak ada perubahan
137	luca	luja	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
138	bucur	lurus	No	Different roots or significant change	Perbedaan bentuk signifikan
139	busaw	busau	Likely	Similar form, possibly related	Penambahan bunyi di akhir
140	tatimun	tantimun	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
141	wayah panucan	Musim hujan	No	Different roots or significant change	Perbedaan bentuk signifikan
142	wayah pandang	Musim panas	No	Different roots or significant change	Perbedaan bentuk signifikan
143	main	bangang	No	Different roots or significant change	Perbedaan bentuk signifikan
144	kuman	kuman	Yes	Identical form	Tidak ada perubahan
145	hamalem	hamalem	Yes	Identical form	Tidak ada perubahan
146	kueh	kueh	Yes	Identical form	Tidak ada perubahan
147	matei	mata	Likely	Similar form, possibly related	Perbedaan bentuk signifikan

148	maten andaw	matan andau	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
149	matei	matei	Yes	Identical form	Tidak ada perubahan
150	bahandang	bahandang	Yes	Identical form	Tidak ada perubahan
151	luse'	ewen	No	Different roots or significant change	Perbedaan bentuk signifikan
152	bapukan	bapukan	Yes	Identical form	Tidak ada perubahan
153	bapenyau	bapenyau	Yes	Identical form	Tidak ada perubahan
154	mihup	mihup	Yes	Identical form	Tidak ada perubahan
155	mulut	nyama	No	Different roots or significant change	Perbedaan bentuk signifikan
156	manuta'	muta	No	Different roots or significant change	Perbedaan bentuk signifikan
157	naker	mandai	No	Different roots or significant change	Perbedaan bentuk signifikan
158	nyamuk	nyamuk	Yes	Identical form	Tidak ada perubahan
159	narai	aran	No	Different roots or significant change	Perbedaan bentuk signifikan
160	tahaseng	tahaseng	Yes	Identical form	Tidak ada perubahan
161	ulun	uluh	Likely	Similar form, possibly related	Penambahan bunyi di akhir
162	pekkak	pait	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
163	ngahaw	nehaw	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
164	jukung/bakis	jukung	No	Different roots or significant change	Penghilangan bunyi awal
165	tulak	tulak	Yes	Identical form	Tidak ada perubahan
166	talawang	talawang	Yes	Identical form	Tidak ada perubahan
167	harati/pintar	harati	No	Different roots or significant change	Penghilangan bunyi awal
168	bahetu'	bagetu	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
169	balasut	balasut	Yes	Identical form	Tidak ada perubahan
170	natut	imbing	No	Different roots or significant change	Perbedaan bentuk signifikan
171	pandak	pandak	Yes	Identical form	Tidak ada perubahan
172	hames	hamis	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
173	bawi'	bawi	Likely	Similar form, possibly related	Perbedaan kecil (glottal stop)
174	elem	kanai	No	Different roots or significant change	Perbedaan bentuk signifikan
175	batang	batang	Yes	Identical form	Tidak ada perubahan
176	netek	netek	Yes	Identical form	Tidak ada perubahan
177	baputi'	baputi	Likely	Similar form, possibly related	Perbedaan kecil (glottal stop)

178	balaw	balau	Likely	Similar form, possibly related	Penambahan bunyi di akhir
179	ratus -> saratus	saratus	No	Different roots or significant change	Penghilangan bunyi akhir
180	kuyan -> sakuyan	sakuyan	No	Different roots or significant change	Penghilangan bunyi akhir
181	mahiyan	mahiyan	Yes	Identical form	Tidak ada perubahan
182	pasah	huma	No	Different roots or significant change	Perbedaan bentuk signifikan
183	uru	uru	Yes	Identical form	Tidak ada perubahan
184	ice	ije	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
185	pehe'	pehe	Likely	Similar form, possibly related	Perbedaan kecil (glottal stop)
186	sala'	sala	Likely	Similar form, possibly related	Perbedaan kecil (glottal stop)
187	kanih	kanih	Yes	Identical form	Tidak ada perubahan
188	neser -> maneser	neser	No	Different roots or significant change	Penghilangan bunyi awal
189	jalatien, tien	jalatien	No	Different roots or significant change	Penghilangan bunyi awal
190	sapulu	sapuluh	Likely	Similar form, possibly related	Penghilangan bunyi awal
191	palapas	palapas	Yes	Identical form	Tidak ada perubahan
192	isut	isut	Yes	Identical form	Tidak ada perubahan
193	handaw	handau	Likely	Similar form, possibly related	Penambahan bunyi di akhir
194	ewei	eweh	Likely	Similar form, possibly related	Penambahan bunyi di akhir
195	situh	hetuh	No	Different roots or significant change	Perbedaan bentuk signifikan
196	seke'	seke	Likely	Similar form, possibly related	Perbedaan kecil (glottal stop)
197	urase	uras	Likely	Similar form, possibly related	Penghilangan bunyi awal
198	bana	bana	Yes	Identical form	Tidak ada perubahan
199	jari'	jadi	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
200	sungey	sungei	Likely	Similar form, possibly related	Penambahan bunyi di akhir
201	banyihi/lancip balunyik	banyihi	No	Different roots or significant change	Penghilangan bunyi awal
202	nyelu	nyelu	Yes	Identical form	Tidak ada perubahan
203	mikeh	mikeh	Yes	Identical form	Tidak ada perubahan
204	ngimbul	imbul	No	Different roots or significant change	Penghilangan bunyi akhir

205	endaw	endau	Likely	Similar form, possibly related	Penambahan bunyi di akhir
206	ukan	leka	No	Different roots or significant change	Perbedaan bentuk signifikan
207	lunju'	lunju	Likely	Similar form, possibly related	Perbedaan kecil (glottal stop)
208	uju/ucu	uju	No	Different roots or significant change	Penghilangan bunyi awal
209	barengen/baringin	badengen	No	Different roots or significant change	Perbedaan bentuk signifikan
210	muhun	muhun	Yes	Identical form	Tidak ada perubahan
211	newek	tejep	No	Different roots or significant change	Perbedaan bentuk signifikan
212	petak	petak	Yes	Identical form	Penghilangan bunyi awal
213	lenge'	lenge	Yes	Identical form	Perbedaan kecil (glottal stop)
214	pinding	pinding	Yes	Identical form	Tidak ada perubahan
215	kate'	tanteluh	No	Different roots or significant change	Perbedaan bentuk signifikan
216	tarawang	tarawang	Yes	Identical form	Tidak ada perubahan
217	tatawe'	tetawe	Yes	Identical form	Perbedaan bentuk signifikan
218	dia'	dia	Yes	Identical form	Perbedaan kecil (glottal stop)
219	tiruh	tiruh	Yes	Identical form	Tidak ada perubahan
220	telu	telu	Yes	Identical form	Tidak ada perubahan
221	himbun	himun	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
222	tuket	tungket	Likely	Similar form, possibly related	Perbedaan bentuk signifikan
223	bakas	bakas	Yes	Identical form	Tidak ada perubahan
224	handipe'	handipe	Yes	Identical form	Perbedaan kecil (glottal stop)
225	uwi'	jawau	No	Different roots or significant change	Perbedaan bentuk signifikan