

## PHONOLOGICAL ANALYSIS

**Cumulativity and ganging in the tonology of Awa suffixes:  
Online supplemental materials: Key to Awa tableaux**

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Due to the limitations of tab-delimited text input files to software such as OT Help or the Maxent Grammar Tool, autosegmental representations are not provided in the input files themselves. This document provides a key to inputs and candidates for all forms considered in the article. The tab-delimited text file containing full tableaux for all forms considered is available for download at [http://muse.jhu.edu/journals/language/v092/92.1.mcpherson01\\_supp01.txt](http://muse.jhu.edu/journals/language/v092/92.1.mcpherson01_supp01.txt).

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INPUT: poetahqme            poetahq -me  
                                  ↓        ↓  
                                  H        H

CANDIDATES:

poetahqme1            poetahq -me  
                                  ↓        ↓  
                                  H        H

poetahqme2            poetahq -me  
                                  ↓        ↘  
                                  H

---

INPUT: anowate            anowa -te  
                                  | ^ ^ |  
                                  LHLLH H

CANDIDATES:

anowate1            anowa -te  
                                  | ^ ^ |  
                                  LHLLH H

anowate2            anowa -te  
                                  | ^ | ^  
                                  LHL L H H

anowate3            anowa -te  
                                  | ^ | |  
                                  LHL L H



ayatame5                      ayata -me  
 ↙ | |  
 L H H

INPUT: tahnume                      tahnu -me  
 | | |  
 L H L H

CANDIDATES:

tahnume1                      tahnu -me  
 | | |  
 L H L H

tahnume2                      tahnu -me  
 | | ^  
 L H L H

tahnume3                      tahnu -me  
 | | |  
 L H L

tahnume4                      tahnu -me  
 | ^ |  
 L H L H

tahnume5                      tahnu -me  
 | | |  
 L H H

INPUT: apokehme                      apokeh -me  
 | | ^ |  
 H L H L H

CANDIDATES:

apokehme1                      apokeh -me  
 | | ^ |  
 H L H L H

apokehme2                      apokeh -me  
 | | ^ |  
 H L H L H

apokehme3                      apokeh -me  
 | | ^ |  
 H L H H

apokehme4            apokeh -me  
 | | \                |  
 H L                H<sub>1,2</sub>

apokehme5            apokeh -me  
 | | \                |  
 H L                H<sub>1,2</sub>

INPUT: oyetataq            oyeta -taq  
 | | \                ^  
 L H                L H

CANDIDATES:

oyetataq1            oyeta -taq  
 | | \                ^  
 L H                L H

oyetataq2            oyeta -taq  
 | | \                |  
 L H                H

oyetataq3            oyeta -taq  
 | | \                |  
 L H                L

oyetataq4            oyeta -taq  
 | | \                ^  
 L H                L H

INPUT: pahsahq            pah -sahq  
 ^                    ^  
 L H                L H

CANDIDATES:

pahsahq1            pah -sahq  
 ^                    ^  
 L H                L H

pahsahq2            pah -sahq  
 |                    ^  
 L                    L H

pahsahq3            pah -sahq  
 |                    |  
 L                    H<sub>1,2</sub>

pahsahq4            pah    -sahq  
                          |        ^  
                          L        H H

pahsahq5            pah    -sahq  
                          |        |  
                          L        H<sub>1,2</sub>

INPUT: ahtene            ahte    -ne  
                          /        ^  
                          L    L    L H

CANDIDATES:

ahtene1            ahte    -ne  
                          /        ^  
                          L    L    L H

ahtene2            ahte    -ne  
                          /        ^  
                          L        L H

ahtene3            ahte    -ne  
                          /        ^  
                          L        L<sub>1,2</sub>H

INPUT: nahsahq            nah    -sahq  
                          ^        ^  
                          H L L    L H

CANDIDATES:

nahsahq1            nah    -sahq  
                          ^        ^  
                          H L L    L H

nahsahq2            nah    -sahq  
                          ^        ^  
                          H L    L H

nahsahq3            nah    -sahq  
                          ^        ^  
                          H L    L<sub>1,2</sub>H

INPUT: tahnuka            tahn    -ka  
                          |    |    ^  
                          L   H L L H

CANDIDATES:

tahnuka1	tahnu -ka     ^ L H L LH
tahnuka2	tahnu -ka   \ ^ L H L LH
tahnuka3	tahnu -ka       L H L <sub>1,2</sub>
tahnuka4	tahnu -ka       L H H
tahnuka5	tahnu -ka     ^ L H L <sub>1,2</sub> H
tahnuka6	tahnu -ka     ^ L H LL
tahnuka7	tahnu -ka     ^ L H LH

INPUT: apokehka

apokeh -ka  
| / ^  
H L H L LH

CANDIDATES:

apokehka1	apokeh -ka   / ^ H L H L LH
apokehka2	apokeh -ka   / ^ H L L <sub>1,2</sub> H
apokehka3	apokeh -ka       ^ H L H L <sub>1,2</sub> H

apokehka4	apokeh -ka   \   H L H <sub>1,2</sub>
apokehka5	apokeh -ka   \   ^ H L H H
apokehka6	apokeh -ka   \     H L H <sub>1,2</sub>
apokehka7	apokeh -ka       ^ H L H LH
apokehka8	apokeh -ka ^     ^ H L H LH

INPUT: oyetatate      oyeta -tate  
| \ | \ |  
L H H

CANDIDATES:

oyetatate1      oyeta -tate  
| \ | \ |  
L H H

oyetatate2      oyeta -tate  
| \ | \ |  
L H

INPUT: pahmati      pah -mati  
^ | \ |  
L H H

CANDIDATES:

pahmati1      pah -mati  
^ | \ |  
L H H

pahmati2      pah -mati  
| \ |  
L H<sub>1,2</sub>

pahmati3	pah	-mati
		✓
	L	H
pahmati4	pah	-mati
		✓
	H	H
pahmati5	pah	-mati
	L	HH
pahmati6	pah	-mati
		✓
	L	H <sub>1,2</sub>
pahmati7	pah	-mati
		✓
	L	H <sub>1,2</sub>

INPUT: kapatatato      kapata -tato

                              |  |

                              L  L H

CANDIDATES:

kapatatato1	kapata	-tato
	✓	✓
	L	L H
kapatatato2	kapata	-tato
	✓	✓
	L	H
kapatatato3	kapata	-tato
	✓	✓
	L	L H
kapatatato4	kapata	-tato
	✓	
	L	L H

INPUT: nahmati      nah -mati

                          ^  |

                          H L L H



CANDIDATES:

nahmati1	nah	-mati
	∧	∨
	H L L	H
nahmati2	nah	-mati
	∧	∨
	H L	H
nahmati3	nah	-mati
	∧	∨
	H L	L H
nahmati4	nah	-mati
	∧	
	H L	L H

---

INPUT: tahnutate      tahnu -tate  
 | | | ∨  
 L H L H

CANDIDATES:

tahnutate1	tahnu	-tate
	∨	
	L H L H	
tahnutate2	tahnu	-tate
	∨	
	L H H	
tahnutate3	tahnu	-tate
	∨	
	L H L H	
tahnutate4	tahnu	-tate
	L H L H	
tahnutate5	tahnu	-tate
	∨	
	L H L H	
tahnutate6	tahnu	-tate
	L H L H	

INPUT: apokehkaqkaq      apokeh -kaqkaq  
 |    /    \    /    \    /  
 H L H L H

CANDIDATES:

apokehkaqkaq1      apokeh -kaqkaq  
 |    /    \    /    \    /  
 H L H L H

apokehkaqkaq2      apokeh -kaqkaq  
 |    /    \    /    /    \  
 H L H L H

apokehkaqkaq3      apokeh -kaqkaq  
 |    /    \    |    |  
 H L H L H

apokehkaqkaq4      apokeh -kaqkaq  
 |    /    \    ^    |  
 H L H L H

apokehkaqkaq5      apokeh -kaqkaq  
 |    /    \    ^    /    \  
 H L H L H

apokehkaqkaq6      apokeh -kaqkaq  
 |    /    \    |    |  
 H L L H

apokehkaqkaq7      apokeh -kaqkaq  
 |    /    \    /  
 H L H<sub>1,2</sub>

apokehkaqkaq8      apokeh -kaqkaq  
 |    /    \    |    |  
 H L H H

apokehkaqkaq9      apokeh -kaqkaq  
 |    |    /    \    /  
 H L H L H

apokehkaqkaq10      apokeh -kaqkaq  
 |    |    /    \    |  
 H L H L H

apokehkaqkaq11      apokeh -kaqkaq  
 |    /    \    |  
 H L H<sub>1,2</sub>

---

INPUT: poetahqpo      poetahq    -po  
                           ↓ ↘            ^  
                           H            HL

CANDIDATES:

poetahqpo1      poetahq    -po  
                           ↓ ↘            ^  
                           H            HL

poetahqpo2      poetahq    -po  
                           ↓ ↘            |  
                           H            L

poetahqpo3      poetahq    -po  
                           ↓ |            |  
                           H H            L

poetahqpo4      poetahq    -po  
                           ↓ ↘            |  
                           H            H

poetahqpo5      poetahq    -po  
                           ↓ ↘            |  
                           H<sub>1,2</sub>          L

---

INPUT: anowaseq      anowa -seq  
                           | ^ ^ ^  
                           LHLLH HL

CANDIDATES:

anowaseq1      anowa -seq  
                           | ^ ^ ^  
                           LHLLH HL

anowaseq2      anowa -seq  
                           | ^ | ^  
                           LHL L HL

anowaseq3      anowa -seq  
                           | ^ | ^  
                           LHL L H<sub>1,2</sub>L

anowaseq4      anowa -seq  
                           | ^ | ^  
                           LHL H HL

anowaseq5            ano wa -seq  
 | ^ \ ^  
 LHL<sub>1,2</sub>H HL

anowaseq6            anowa -seq  
 | ^ \ ^  
 LHL L H<sub>1,2</sub>

INPUT: ahtepo            ahte -po  
 \ ^  
 L L HL

CANDIDATES:

ahtepo1            ahte -po  
 \ ^  
 L L HL

ahtepo2            ahte -po  
 \ ^  
 L HL

ahtepo3            ahte -po  
 \ ^  
 L<sub>1,2</sub> HL

ahtepo4            ahte -po  
 \ ^  
 L LH

INPUT: nahpo            nah -po  
 ^ ^  
 HL L HL

CANDIDATES:

nahpo1            nah -po  
 ^ ^  
 HL L HL

nahpo2            nah -po  
 ^ ^  
 HL HL

nahpo3            nah -po  
 ^ ^  
 HL<sub>1,2</sub> HL

nahpo4	nah	-po
	∧	∧
	HL	LH
nahpo5	nah	-po
	∧	
	HL	L <sub>1,2</sub>
nahpo6	nah	-po
		∧
	L <sub>1,2</sub>	HL

INPUT: apokehpo

apokeh	-po
/	∧
H L H L	HL

CANDIDATES:

apokehpo1	apokeh	-po
	/	∧
	H L H L	HL
apokehpo2	apokeh	-po
	/	∧
	H L	H <sub>1,2</sub> L
apokehpo3	apokeh	-po
	/	∧
	H L	L HL
apokehpo4	apokeh	-po
	/	∧
	H L	HL
apokehpo5	apokeh	-po
	∧	∧
	H L HL	HL
apokehpo6	apokeh	-po
	/	
	H L	H <sub>1,2</sub>

INPUT: tahnupo

tahnu	-po
∧	
L H L	HL

## CANDIDATES:

tahnupo1	tahnu -po     ^ L H L HL
tahnupo2	tahnu -po     ^ L H HL
tahnupo3	tahnu -po       L H L <sub>1,2</sub>
tahnupo4	tahnu -po     ^ L H LH
tahnupo5	tahnu -po     ^ L H LL
tahnupo6	tahnu -po   ^ ^ L HL HL
tahnupo7	tahnu -po       L H <sub>1,2</sub> L

INPUT: oyetatahnsa

oyeta -tahnsa
/
L H L H

## CANDIDATES:

oyetatahnsa1	oyeta -tahnsa         /   L H L H
oyetatahnsa2	oyeta -tahnsa         /   L H L H
oyetatahnsa3	oyeta -tahnsa         /   L H L
oyetatahnsa4	oyeta -tahnsa         /   L H H

---

INPUT: pahtahnsa      pah    -tahnsa  
                            $\wedge$     |    |  
                           LH    L    H

CANDIDATES:

pahtahnsa1      pah    -tahnsa  
                            $\wedge$     |    |  
                           LH    L    H

pahtahnsa2      pah    -tahnsa  
                           |     $\wedge$     |  
                           L    HL    H

pahtahnsa3      pah    -tahnsa  
                           |     $\wedge$     |  
                           L    HL    H

pahtahnsa4      pah    -tahnsa  
                           |    |    |  
                           L    H    H

---

INPUT: nahtahnsa      nah    -tahnsa  
                           |    |    |  
                           L L    L    H

CANDIDATES:

nahtahnsa1      nah    -tahnsa  
                           |    |    |  
                           L L    L    H

nahtahnsa2      nah    -tahnsa  
                           |    |    |  
                           L    L    H

nahtahnsa3      nah    -tahnsa  
                           |    |    |  
                           L    L<sub>1,2</sub>    H

nahtahnsa4      nah    -tahnsa  
                           |    |     $\wedge$   
                           L    L    LH

---

INPUT: nâhtahnsa      nah    -tahnsa  
                            $\wedge$     |    |  
                           HL    L    L    H

## CANDIDATES:

nâhtahnsa1	nah	-tahnsa
	∧	
	HL L	L H

nâhtahnsa2	nah	-tahnsa
	∧	
	HL	L H

nâhtahnsa3	nah	-tahnsa
	∧	
	HL	L <sub>1,2</sub> H

nâhtahnsa4	nah	-tahnsa
	∧	∧
	HL	L LH

INPUT: tahnutahnsa	tahnu	-tahnsa
	L H L	L H

## CANDIDATES:

tahnutahnsa1	tahnu	-tahnsa
	L H L	L H

tahnutahnsa2	tahnu	-tahnsa
	L H	L H

tahnutahnsa3	tahnu	-tahnsa
	L H	L <sub>1,2</sub> H

tahnutahnsa4	tahnu	-tahnsa
		∧
	L H	L LH

tahnutahnsa5	tahnu	-tahnsa
		∧
	L H	LL H

tahnutahnsa6	tahnu	-tahnsa
	∧	
	L HL	L H



tahnutahnsa7            tahnu -tahnsa  
 | |    / \    | |  
 L H   L<sub>1,2</sub> H

INPUT: apokehtahnsa      apokeh -tahnsa  
 | / \    | |    | |  
 H L H L   L   H

CANDIDATES:

apokehtahnsa1            apokeh -tahnsa  
 | / \    | |    | |  
 H L H L   L   H

apokehtahnsa2            apokeh -tahnsa  
 | / \    ^   ^  
 H L     HL LH

apokehtahnsa3            apokeh -tahnsa  
 | | ^    | |    | |  
 H L HL   L   H

apokehtahnsa4            apokeh -tahnsa  
 | / \    | ^   ^  
 H L     H LH

apokehtahnsa5            apokeh -tahnsa  
 | / \    |    |  
 H L     H<sub>1,2</sub>

INPUT: oyeta pomo        oyeta -pomo  
 | / \    | |    | |  
 L H     H L

CANDIDATES:

oyeta pomo1            oyeta -pomo  
 | / \    | |    | |  
 L H     H L

oyeta pomo2            oyeta -pomo  
 | / \    |    |  
 L H     L

INPUT: pahpoqpoq        pah -poqpoq  
 ^        | |  
 LH     H L

## CANDIDATES:

pahpoqpoq1	pah	-poqpoq
	∧	
	LH	H L
pahpoqpoq2	pah	-poqpoq
	L	H L
pahpoqpoq3	pah	-poqpoq
	L	H <sub>1,2</sub> L
pahpoqpoq4	pah	-poqpoq
		∧
	L	H HL
pahpoqpoq5	pah	-poqpoq
		∧
	L	HH L
pahpoqpoq6	pah	-poqpoq
	L	H <sub>1,2</sub> L
pahpoqpoq7	pah	-poqpoq
		∧
	L	H <sub>1,2</sub> L

---

INPUT: nahpoqpoq      nah    -poqpoq

                              |    | |

                              L L    H    L

## CANDIDATES:

nahpoqpoq1	nah	-poqpoq
	L L	H L
nahpoqpoq2	nah	-poqpoq
	L	H L
nahpoqpoq3	nah	-poqpoq
		∧
	L	LH L

nahpoqpoq4      nah    -poqpoq  
                          |        |    |  
                          L<sub>1,2</sub>    H    L

nahpoqpoq5      nah    -poqpoq  
                          |        |    ^  
                          L        L    HL

INPUT: nahpomo      nah    -pomo  
                          ^        |    |  
                          HL L    H    L

CANDIDATES:

nahpomo1          nah    -pomo  
                          ^        |    |  
                          HL L    H    L

nahpomo2          nah    -pomo  
                          ^        |    |  
                          HL        H    L

nahpomo3          nah    -pomo  
                          ^        |    |  
                          H L<sub>1,2</sub>    H    L

nahpomo4          nah    -pomo  
                          ^        ^    |  
                          HL        LH L

nahpomo5          nah    -pomo  
                          ^        |    ^  
                          HL        L HL

INPUT: tahnupomo    tahnu -pomo  
                          |    |    |    |  
                          L    HL H    L

CANDIDATES:

tahnupomo1        tahnu -pomo  
                          |    |    |    |  
                          L    HL H    L

tahnupomo2        tahnu -pomo  
                          |    |    |    |  
                          L    H    H    L

tahnupomo3	tahnu -pomo     ^   L H LH L
tahnupomo4	tahnu -pomo       ^ L H L HL
tahnupomo5	tahnu -pomo     /   L H L H
tahnupomo6	tahnu -pomo   ^     L HL H L

INPUT: apohehpomo      apokeh -pomo  
| / | | |  
H L H L H L

CANDIDATES:

apohehpomo1	apokeh -pomo   /       H L H L H L
apohehpomo2	apokeh -pomo   /   ^ ^ H L HLHL
apohehpomo3	apokeh -pomo   /       H L H <sub>1,2</sub> L
apohehpomo4	apokeh -pomo   /   ^   H L HHL
apohehpomo5	apokeh -pomo     ^     HL HL H L
apohehpomo6	apokeh -pomo   /       H L H <sub>1,2</sub> L
apohehpomo7	apokeh -pomo   /   ^   H L H <sub>1,2</sub> L

---

INPUT: tahnue            tahnu -e  
                              | | |  
                              L H L L

CANDIDATES:

tahnue1            tahnu -e  
                              | | |  
                              L H L L

tahnue2            tahnu -e  
                              | | |  
                              L H L

tahnue3            tahnu -e  
                              | | |  
                              L H L<sub>1,2</sub>

tahnue4            tahnu -e  
                              | ^ |  
                              L HL L

---

INPUT: nahtapa        nah -tapa  
                              |    ✓  
                              L L L

CANDIDATES:

nahtapa1            nah -tapa  
                              |    ✓  
                              L L L

nahtapa2            nah -tapa  
                              |    ✓  
                              L L

nahtapa3            nah -tapa  
                              |    ✓  
                              L L<sub>1,2</sub>

---

INPUT: oyetatapita    oyeta -tapita  
                              | ✓ | ^ ^  
                              L H LHLH

CANDIDATES:

oyetatapita1        oyeta -tapita  
                              | ✓ | ^ ^  
                              L H LHLH

oyetatapita2

oyeta	-tapita
\	/ /
L H	LHLH

oyetatapita3

oyeta	-tapita
\	/
L H	L LH

oyetatapita4

oyeta	-tapita
\	/ \
L H	LHLH

oyetatapita5

oyeta	-tapita
\	
L H	LHH

oyetatapita6

oyeta	-tapita
\	/
L H	LH H

oyetatapita7

oyeta	-tapita
\	/
L H	L H <sub>1,2</sub>