

Opacity in Šmartno Slovenian

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Supplementary materials

Appendix A: Nominal paradigms

Šmartno distinguishes three numbers and six cases. Dual is only contrastive in the nominative and accusative of the masculine and neuter paradigms; these are henceforth marked simply as dual. All other cases in the dual paradigm are identical to the respective plural cases.

All paradigms are organised into rows by number and case (the order of the latter is in line with the practice in Slavic (and Slovenian) linguistics), and into columns by number of syllables, underlying stress and stem-final consonant. With respect to stress, paradigms have three different types of surface realisation. Disyllabic stems with final stress and monosyllabic stems with underlying stress show identical patterns. This contrasts with disyllabic stems with penultimate stress and unstressed monosyllabic stems. Trisyllabic stems are grouped with the disyllabic ones. Syllabic nasals that are part of the stem contribute to stem length, and are counted as such (even though those nasals are non-syllabic in prevocalic contexts). Stems ending in voiced obstruents show devoicing in null-affix cases. Null suffixes – rather than no suffixes – are proposed here for certain cases, as is common in Slavic linguistics.

The paradigm variation is representative in terms of underlying stress, lengthening and voicing, but does not include all segmental alternations (e.g. morphological palatalisation, vowel fronting or metaphony), which are beyond the scope of this paper. The lists of stems by paradigm are not intended to be exhaustive, but rather to provide information about the extent of the material collected. In fact, many other nouns were encountered in the interviews, but because their full paradigms were not elicited, they are not included below.

Feminine I

In Feminine I, all cases except the nominative are syncretic in the singular.

Feminine I by number of syllables, stress and final consonant

		<i>disyllabic final</i>		<i>disyllabic penultimate</i>	
		/kləba'sits/	/bə'sied/	/'smukuts/	/'jayod/
		'sausage'	'word'	'strawberry'	'berry'
<i>singular</i>					
NOM	/-a/	kləba'sitsa	bə'sieda	'smukutsa	'jayoda
other	/-I/	kləba'si:ts	bə'sie:d	'smukuts	'jayod
<i>plural</i>					
NOM	/-'i/	kləba'si:ts	bə'sier:d	'smukuts	'jayod
GEN	/-Ø/	kləba'sits	bə'siet	'smukuts	'jayot
DAT	/-m/	kləba'sitsm̩	bə'siedm̩	'smukutsm̩	'jayodm̩
ACC	/-'i/	kləba'si:ts	bə'sie:d	'smukuts	'jayod
LOC	/-'i:ex/	kləba'si:tsix	bə'siedix	'smukutsix	'jayodix
INSTR	/-m/	kləba'sitsm̩	bə'siedm̩	'smukutsm̩	'jayodm̩
<i>monosyllabic stressed</i>					
		/'xɪʃ/	/'mri:ʒ/	/ərk/	/kɔz/
		'house'	'net'	'arm'	'goat'
<i>singular</i>					
NOM	/-a/	'xiʃa	'mri:ʒa	'ərka	'kɔza
other	/-I/	'xi:ʃ	'mri:ʒ	'ə:rk	'kɔ:z
<i>plural</i>					
NOM	/-'i/	'xi:ʃ	'mri:ʒ	ə'r'ki	ko'zi
GEN	/-Ø/	'xiʃ	'mrieʃ	'ərk	'kɔs
DAT	/-m/	'xi:ʃm̩	'mri:ʒm̩	'ərkm̩	'kɔzm̩
ACC	/-'i/	'xi:ʃ	'mri:ʒ	ə'r'ki	ko'zi
LOC	/-'i:ex/	'xi:ʃix	'mri:ʒix	ə'r'kiex	ko'ziex
INSTR	/-m/	'xi:ʃm̩	'mri:ʒm̩	'ərkm̩	'kɔzm̩

Other Feminine I stems

disyllabic final:

/klə'bas/ 'sausage', /pra'sits/ 'female pig', /jera'bits/ '(female) grouse'

disyllabic penultimate:

/'vieuərts/ 'squirrel', /'fabrik/ 'factory', /'viper/ 'viper'

monosyllabic stressed:

/'lɪp/ 'linden tree', /'pʊp/ 'girl', /'tsiest/ 'road', /'rats/ 'duck', /'ʃretʃ/ 'luck', /'japk/ 'apple', /'wɪsk/ 'war', /'xruʃk/ 'pear', /'bəx/ 'flea', /'mɔk/ 'flour', /'ʒab/ 'frog', /'yɔb/ 'mushroom', /'rib/ 'fish', /'wəd/ 'water', /'brad/ 'beard', /'brajd/ 'field', /'kraʊ/ 'cow', /'trav/ 'grass', /'niu/ 'field', /'lukp/ 'hole', /'zɛmʌ/ 'earth'

monosyllabic unstressed:

/nɔɪ/ 'leg', /ylau/ 'head', /ʒən/ 'wife, woman'

Feminine II

There are no clear instances of Feminine II stems with penultimate stress and monosyllabic stems that end in a voiced obstruent, but this is probably accidental.

Feminine II by number of syllables, stress and final consonant

disyllabic final				disyllabic penultimate	
	/ka'kuɔʃ/	/po'mlad/		/'miləst/	
<i>'chicken'</i> <i>'spring'</i> <i>'grace'</i>					
<i>singular</i>					
NOM	/-Ø/	ka'kuoʃ	po'mlat	'miləst	
GEN	/-'i/	ka'kuo:f	po'mla:d	'miləst	
DAT	/-I/	ka'kuo:f	po'mla:d	'miləst	
ACC	/-Ø/	ka'kuoʃ	po'mlat	'miləst	
LOC	/-I/	ka'kuo:f	po'mla:d	'miləst	
INSTR	/-I/	ka'kuo:f	po'mla:d	'miləst	
<i>plural</i>					
NOM	/-'i/	ka'kuo:f	po'mla:d	'miləst	
GEN	/-'i/	ka'kuo:f	po'mla:d	'miləst	
DAT	/-m/	ka'kuoʃm	po'mladm	'miləstm̩	
ACC	/-'i/	ka'kuo:f	po'mla:d	'miləst	
LOC	/-'iex/	ka'kuoʃix	po'mladix	'miləstix	
INSTR	/-m/	ka'kuoʃm	po'mladm	'miləstm̩	
monosyllabic stressed				monosyllabic unstressed	
	/'yərtʃ/			/lutʃ/	/skərb/
'udder'				'light'	'care'
<i>singular</i>					
NOM	/-Ø/	'yərtʃ		'lutʃ	'skərp
GEN	/-'i/	'yə:rtʃ		lu'tʃi	skə'rbi
DAT	/-I/	'yə:rtʃ		'lu:tʃ	'skə:rb
ACC	/-Ø/	'yərtʃ		'lutʃ	'skərp
LOC	/-I/	'yə:rtʃ		'lu:tʃ	'skə:rb
INSTR	/-I/	'yə:rtʃ		'lu:tʃ	'skə:rb
<i>plural</i>					
NOM	/-'i/	'yə:rtʃ		lu'tʃi	skə'rbi
GEN	/-'i/	'yə:rtʃ		lu'tʃi	skə'rbi
DAT	/-m/	'yə:rtʃm		lu'tʃm	skə'rbm̩
ACC	/-'i/	'yə:rtʃ		lu'tʃi	skə'rbi
LOC	/-'iex/	'yə:rtʃix		lu'tʃiex	skə'rbiex
INSTR	/-m/	'yə:rtʃm		lu'tʃm	skə'rbm̩

*Other Feminine II stems**disyllabic final:*

/pe'rot/ 'wing', /po'fast/ 'monster', /mla'duost/ 'youth'

disyllabic penultimate:

/'ɔxtset/ 'wedding', /'pamet/ 'wisdom', /ʌu'bezn̩/ 'love'

monosyllabic stressed:

/'nit/ 'thread', /'rit/ 'ass', /'last/ 'ownership', /'smərt/ 'death', /'mɪʃ/ 'mouse', /'dərv/ 'firewood'

monosyllabic unstressed:

/smət/ 'piece of trash', /mast/ 'fat', /yɔs/ 'goose', /vas/ 'village', /petʃ/ 'furnace', /uf/ 'lice', /jəd/ 'dish', /ərʒ/ 'rye', /ləʒ/ 'lie', /sol/ 'salt', /stvar/ 'thing'

Masculine

Masculine nouns differ in terms of animacy; the accusative singular is syncretic with the genitive singular in animate ('anim') nouns but with the nominative singular in inanimate ('inanim') nouns. The evidence for stress in the accusative singular animate /'-a/ can be seen in the form [mo'ʒa] 'man-ACC SG'.

In the data collected, Masculine is the most frequent paradigm by number of stems, although penultimate stress is rare.

Masculine by number of syllables, stress and final consonant

		<i>disyllabic final</i>		<i>disyllabic penultimate</i>	
		/vo'jak/	/la'bod/	/'liefnik/	/'madeʒ/
		'soldier'	'swan'	'hazelnut'	'stain'
<i>singular</i>					
NOM	/-Ø/	vo'jak	la'bot	'liefnik	'madeʃ
GEN	/-'a/	vo'jaka	la'boda	'liefnika	'madeʒa
DAT	/-I/	vo'ja:k	la'bo:d	'liefnik	'madeʒ
ACC	/-'a/ (anim)	vo'jaka	la'boda		
	/-Ø/ (inanim)			'liefnik	'madeʃ
LOC	/-I/	vo'ja:k	la'bo:d	'liefnik	'madeʒ
INSTR	/-m/	vo'jakm̩	la'bodm̩	'liefnikm̩	'madeʒm̩
<i>plural</i>					
NOM	/-'i/	vo'ja:k	la'bo:d	'liefnik	'madeʒ
GEN	/-'ɛw/	vo'jaku	la'bodu	'liefniku	'madeʒu
DAT	/-m/	vo'jakm̩	la'bodm̩	'liefnikm̩	'madeʒm̩
ACC	/-'i/	vo'jak	la'bo:d	'liefnik	'madeʒ
LOC	/-'iex/	vo'jakix	la'bodix	'liefnikix	'madeʒix
INSTR	/-m/	vo'jakm̩	la'bodm̩	'liefnikm̩	'madeʒm̩
dual	/-a/	vo'jaka	la'boda	'liefnika	'madeʒa

		<i>monosyllabic stressed</i>		<i>monosyllabic unstressed</i>	
		/'smiex/ /'briey/		/las/ /'sniey/	
<i>'laughter'</i> <i>'riverbank'</i> <i>'hair'</i> <i>'snow'</i>					
<i>singular</i>					
NOM	/-Ø/	'smiex	'briex	'las	'sniex
GEN	/-'a/	'smiexa	'brieya	la'sa	sne'ya
DAT	/-I/	'smie:x	'brie:y	'la:s	'snie:y
ACC	/-'a/ (anim)				
	/-Ø/ (inanim)	'smiex	'briex	'las	'sniex
LOC	/-I/	'smie:x	'brie:y	'la:s	'snie:y
INSTR	/-m/	'smiexm̩	'brieym̩	'lasm̩	'snieym̩
<i>plural</i>					
NOM	/-'i/	'smie:x	'brie:y	la'si	sne'yi
GEN	/-'ɛw/	'smiexu	'brieyu	la'sew	snie'yew
DAT	/-m/	'smiexm̩	'brieym̩	'lasm̩	'snieym̩
ACC	/-'i/	'smie:x	'brie:y	la'si	sne'yi
LOC	/-'iex/	'smiexix	'brieyxix	la'siex	sne'yiex
INSTR	/-m/	'smiexm̩	'brieym̩	'lasm̩	'snieym̩
<i>dual</i>	/-a/	'smiexa	'brieya	'lasa	'snieya

Other Masculine stems

disyllabic final:

/pot'plat/ (inanim) 'sole', /mu'dras/ (anim) 'horned viper', /ya'lɔpt̩/ (inanim) 'gallop', /o'trok/ (anim) 'child', /tʃlo'veik/ (anim) 'human', /ko'rak/ (inanim) 'step', /ja'zik/ (inanim) 'tongue, language', /ob'lak/ (inanim) 'cloud', /je'rab/ (anim) 'male grouse', /me'dvied/ (anim) 'bear', /so'sied/ (anim) 'neighbour', /mi'son/ 'male mouse'

disyllabic penultimate:

/'arʒet/ (anim) 'pocket', /'tsvern̩/ (inanim) 'thread'

monosyllabic stressed:

/'snɔp/ (inanim) 'bundle', /'rəp/ (inanim) 'tail', /'sərp/ (inanim) 'sickle', /'ʃkəf/ (inanim) 'bucket', /'brat/ (anim) 'brother', /'wrat/ (inanim) 'neck', /'zət/ (anim) 'son-in-law', /'sit/ (inanim) 'sieve', /'tat/ (anim) 'thief', /'pəs/ (anim) 'dog', /'nuos/ (inanim) 'nose', /'ʒɪrəpts/ (anim) 'colt', /'kʌutʃ/ (inanim) 'key', /'vuk/ (anim) 'wolf', /'boʃk/ (inanim) 'forest', /'ʃipk/ (inanim) 'dog rose', /'ʃeŋk/ (inanim) 'gift', /'max/ (inanim) 'moss', /'dux/ (inanim) 'smell' (anim) 'spirit', /'xrib/ (inanim) 'hill', /'zob/ (inanim) 'tooth', /'yrad/ (inanim) 'castle', /'zid/ (inanim) 'wall', /'mraz/ (inanim) 'cold', /'wəz/ (inanim) 'cart', /'puʒ/ (anim) 'snail', /'jeʒ/ (anim) 'hedgehog', /'nuoʒ/ (inanim) 'knife', /'ylaʒ/ (inanim) 'jar', /'ruoy/ (inanim) 'horn', /'ʃrev/ (anim) 'worm', /'sier/ (inanim) 'cheese', /'sin/ (anim) 'son', /'dəʒj/ (inanim) 'rain'

monosyllabic unstressed:

/lies/ (inanim) 'wood', /prax/ (inanim) 'particle', /moʒ/ (anim) 'man'

Neuter

Disyllabic Neuter stems are extremely rare, with no examples of penultimate stress; stem-final voiced obstruents are rare in disyllables.

Neuter stems are subject to many stem-specific alternations, such as final coronal deletion in the nominative singular and vowel fronting in the nominative and accusative singular.

Neuter by number of syllables, stress and final consonant

		<i>disyllabic final</i>		<i>disyllabic penultimate</i>	
		/ko'lien/		'jezer/	
<i>singular</i>					
NOM	/-'uo/	ko'lieno		'jezero	
GEN	/-'a/	ko'liena		'jezera	
DAT	/-I/	ko'lien		'jezer	
ACC	/-'uo/	ko'lieno		'jezero	
LOC	/-I/	ko'lie:n		'jezer	
INSTR	/-m/	ko'lie:nm		'jezerm̩	
<i>plural</i>					
NOM	/-I/	ko'lie:n		'jezer	
GEN	/-'ɔw/	ko'lienu		'jezera	
DAT	/-m/	ko'lie:nm		'jezerm̩	
ACC	/-I/	ko'lie:n		'jezer	
LOC	/-ix/	ko'lienix		'jezerix	
INSTR	/-m/	ko'lie:nm		'jezerm̩	
<i>dual</i>	/-'a/	ko'liena		'jezera	
<i>monosyllabic stressed</i>					
		/'miest/	/'yniezd/		
<i>singular</i>					
NOM	/-'uo/	'miesto	'yniezdø	zla'tuo	bla'yuo
GEN	/-'a/	'miesta	'yniezda	zla'ta	bla'ya
DAT	/-I/	'mie:st	'ynie:zd	'zla:t	'blay
ACC	/-'uo/	'miesto	'yniezdø	zla'tuo	bla'yuo
LOC	/-I/	'mie:st	'yniezdø	'zla:t	'blay
INSTR	/-m/	'mie:stm̩	'yniezd̩m̩	'zlatm̩	'blaym̩
<i>plural</i>					
NOM	/-I/	'mie:st	'ynie:zd	'zla:t	'blay
GEN	/-'ɔw/	'miestu	'yniezdu	zla'tɔw	bla'yɔw
DAT	/-m/	'mie:stm̩	'yniezd̩m̩	'zlatm̩	'blaym̩
ACC	/-I/	'mie:st	'ynie:zd	'zla:t	'blay
LOC	/-ix/	'miestix	'yniezdix	'zlatix	'blayix
INSTR	/-m/	'mie:stm̩	'yniezd̩m̩	'zlatm̩	'blaym̩
<i>dual</i>	/-'a/	'miesta	'yniezda	zla'ta	bla'ya

*Other Neuter stems**disyllabic final:*

/kɔ'pit/ 'hoof', /ʒgre'bɛt/ 'foal', /te'lat/ 'calf', /i'mɛn/ 'name', /pə'ʃɛn/ 'wheat'

monosyllabic stressed:

/'lɛt/ 'year', /'ust/ (*plurale tantum*) 'mouth', /'sərts/ 'heart', /'ɪts/ 'egg', /'pʌntʃ/ (*plurale tantum*) 'lung', /'mliɛk/ 'milk', /'puλ/ 'field'

monosyllabic unstressed:

/məs/ 'meat', /nɛb/ (*singulare tantum*) 'sky', /tʃərv/ 'intestine', /sɛn/ 'hay'

	disyllabic		monosyllabic		<i>sum</i>
	final	penultimate	stressed	unstressed	
Feminine I	5	5	23	5	38
Feminine II	5	4	7	13	29
Masculine	14	4	36	5	59
Neuter	6	1	9	6	22
<i>sum</i>	30	14	75	29	148

Table VII
Count of nominal stems, by paradigm.

Appendix B: List of stimuli

The stimuli were presented to the participants using the orthography of Standard Slovenian. They are given below in the order in which they appeared in the elicitation experiment. Items with two entries show lexical variation across speakers. Trisyllabic stems are classified with disyllabic ones. See footnote 10 for discussion of item 4.

<i>SR</i>	<i>UR</i>	<i>Gloss</i>	<i>Paradigm</i>
1 'nɔya	/'nɔy-a/	'leg-NOM SG'	trial
2 'miesta	/'miest-a/	'town-GEN SG'	trial
3 'xism	/'xif-m/	'house-INSTR PL'	trial
4 'yniest	/'ynezd-Ø/	'nest-GEN PL'	N monosyllabic stressed
5 'brat	/'brad-Ø/	'beard-GEN PL'	F1 monosyllabic stressed
6 'ri:b	/'rib-i/	'fish-NOM PL'	F1 monosyllabic stressed
7 'wrat	/'wrat-Ø/	'neck-NOM SG'	M monosyllabic stressed
8 'jayot	/'jayod-Ø/	'berry-GEN PL'	F1 disyllabic penultimate
'smukuts	/'smukuts-Ø/	'strawberry-GEN PL'	F1 disyllabic penultimate
9 'bra:d	/'brad-i/	'beard-NOM PL'	F1 monosyllabic stressed
10 'pup	/'pup-Ø/	'girl-GEN PL'	F1 monosyllabic stressed
11 'wrat:	/'wrat-i/	'neck-NOM PL'	M monosyllabic stressed
12 la'bo:d	/la'bod-I/	'swan-DAT SG'	M disyllabic final
13 'slife	/'slife/	'hear-3SG'	filler
14 po'mla:d	/po'mlad-i/	'spring-GEN SG'	F2 disyllabic final
15 la'bot	/la'bod-Ø/	'swan-NOM SG'	M disyllabic final
16 'z̥ap	/'zab-Ø/	'frog-GEN PL'	F1 monosyllabic stressed
17 'vievərtsm̥	/'vievərts-m/	'squirrel-INSTR PL'	filler
18 'xism̥	/'xif-m/	'house-INSTR PL'	filler
19 'yne:zd	/'ynezd-I/	'nest-NOM PL'	N monosyllabic stressed
20 pe'rot:	/'pe'rot-i/	'wing-GEN SG'	F2 disyllabic final
21 'xif	/'xif-Ø/	'house-GEN PL'	F1 monosyllabic stressed
22 'pamet	/'pamet-i/	'wisdom-GEN SG'	F2 disyllabic penultimate
23 bə'siet	/bə'sied-Ø/	'word-GEN PL'	F1 disyllabic final
24 je'rap	/'je'rab-Ø/	'grouse-NOM SG'	M disyllabic final
jera'bits	/'jera'bits-Ø/	'grouse-GEN PL'	F1 disyllabic final
25 'xi:f	/'xi:f-i/	'house-NOM PL'	F1 monosyllabic stressed
26 'mis	/'mis-Ø/	'mouse-NOM SG'	F2 monosyllabic stressed
27 je'ra:b	/'je'rab-I/	'grouse-DAT SG'	M disyllabic final
jera'bi:ts	/'jera'bi:ts-I/	'grouse-DAT SG'	F1 disyllabic final
28 'puʃ	/'puʒ-Ø/	'snail-NOM SG'	M monosyllabic stressed
29 'yo:b	/'yo:b-i/	'mushroom-NOM PL'	F1 monosyllabic stressed
30 'nit	/'nit-I/	'thread-DAT SG'	F2 monosyllabic stressed
'tsvern̥	/'tsvern-I/	'thread-DAT SG'	filler
31 pot'plat	/pot'plat-I/	'sole-DAT SG'	M disyllabic final
32 'wət	/'wəd-Ø/	'water-GEN PL'	F1 monosyllabic stressed
33 'mo:ʒ	/'moʒ-I/	'husband-LOC SG'	M monosyllabic unstressed
34 'wəz	/'wəz-I/	'cart-DAT SG'	M monosyllabic stressed
35 'nit	/'nit-Ø/	'thread-NOM SG'	F2 monosyllabic stressed
'tsvern̥	/'tsvern-Ø/	'thread-NOM SG'	filler

36	pot'plat	/pot'plat-Ø/	'sole-NOM SG'	M disyllabic final
37	bə'sie:d	/bə'sied-'i/	'word-NOM PL'	F1 disyllabic final
38	'ʒa:b	/'ʒab-I/	'frog-DAT SG'	F1 monosyllabic stressed
39	'pu:ʒ	/'puʒ-I/	'snail-DAT SG'	M monosyllabic stressed
40	'sít	/'sit-I/	'sieve-LOC SG'	M monosyllabic stressed
41	'də:ʒ	/'dəʒj-I/	'rain-LOC SG'	filler
42	ka'kuo:f	/ka'kuof-'i/	'chicken-NOM PL'	F2 disyllabic final
43	'vievərts	/'vievərts-Ø/	'squirrel-GEN PL'	F1 disyllabic penultimate
44	'madeʃ	/'madeʒ-Ø/	'stain-NOM SG'	M disyllabic penultimate
45	'snɔ:p	/'snɔp-I/	'bundle-DAT SG'	M monosyllabic stressed
46	'jayod	/'jayod-'i/	'berry-NOM PL'	F1 disyllabic penultimate
	'smukuts	/'smukuts-'i/	'strawberry-NOM PL'	F1 disyllabic penultimate
47	'sit	/'sit-Ø/	'sieve-NOM SG'	M monosyllabic stressed
48	pe'rot	/pe'rot-Ø/	'wing-NOM SG'	F2 disyllabic final
49	'ylaf	/'ylaʒ-Ø/	'jar-NOM SG'	M monosyllabic stressed
50	'mrie:ʒ	/'mrieʒ-'i/	'net-NOM PL'	F1 monosyllabic stressed
51	'jijemo	/'jijemo/	'dry-1PL'	filler
52	'yla:ʒ	/'ylaʒ-I/	'jar-DAT SG'	M monosyllabic stressed
53	klə'bas	/klə'bas-Ø/	'sausage-GEN PL'	F1 disyllabic final
	kləba'sits	/kləba'sits-Ø/	'sausage-GEN PL'	F1 disyllabic final
54	klə'bas:	/klə'bas-'i/	'sausage-NOM PL'	F1 disyllabic final
	kləba'si:ts	/kləba'si:ts-'i/	'sausage-NOM PL'	F1 disyllabic final
55	'skərp	/skərb-Ø/	'care-NOM SG'	F2 monosyllabic unstressed
56	'rə:p	/'rəp-I/	'tail-DAT SG'	M monosyllabic stressed
57	'ni:t	/'nit-'i/	'thread-GEN SG'	F2 monosyllabic stressed
	'tsverna	/'tsverna-'a/	'thread-GEN SG'	filler
58	poʒ'yrəm	/poʒ'yrəm/	'swallow-1SG'	filler
59	'pamet	/'pamet-Ø/	'wisdom-NOM SG'	F2 disyllabic penultimate
60	'jeʃ	/'jeʒ-Ø/	'hedgehog-NOM SG'	M monosyllabic stressed
61	'wə:d	/'wə:d-'i/	'water-NOM PL'	F1 monosyllabic stressed
62	'je:ʒ	/'jeʒ-I/	'hedgehog-DAT SG'	M monosyllabic stressed
63	'vievərts	/'vievərts-'i/	'squirrel-NOM PL'	F1 disyllabic penultimate
64	'wə:s	/'wəz-Ø/	'cart-NOM SG'	M monosyllabic stressed
65	'skə:rb	/skərb-I/	'care-DAT SG'	F2 monosyllabic unstressed
66	'rə:p	/'rəp-Ø/	'tail-NOM SG'	M monosyllabic stressed
67	'madeʒ	/'madeʒ-'i/	'stain-NOM PL'	M disyllabic penultimate
68	ka'kuo:f	/ka'kuof-Ø/	'chicken-NOM SG'	F2 disyllabic final
69	tʃlo'vie:k	/tʃlo'viek-I/	'human-DAT SG'	filler
70	'vievərtṣa	/'vievərtṣa-/	'squirrel-NOM SG'	filler
71	'snɔ:p	/'snɔp-Ø/	'bundle-NOM SG'	M monosyllabic stressed
72	po'mlat	/po'mlad-Ø/	'spring-NOM SG'	F2 disyllabic final
73	'rip	/'rib-Ø/	'fish-GEN PL'	F1 monosyllabic stressed
74	'mi:ʃ	/'miʃ-'i/	'mouse-GEN SG'	F2 monosyllabic stressed
75	'mrieʃ	/'mrieʒ-Ø/	'net-GEN PL'	F1 monosyllabic stressed
76	'moʃ	/'moʒ-Ø/	'husband-NOM SG'	M monosyllabic unstressed
77	'pu:p	/'pu:p-'i/	'girl-NOM PL'	F1 monosyllabic stressed
78	'yɔ:p	/'yɔb-Ø/	'mushroom-GEN PL'	F1 monosyllabic stressed

Appendix C: Minimally distinct pairs in the list of stimuli

Final stress, underlyingly voiceless

<i>no deletion</i>	<i>deletion</i>	
'wrat	'wra:t	'neck-NOM SG/NOM PL'
'pup	'pu:p	'girl-GEN PL/NOM PL'
pe'rot	pe'ro:t	'wing-NOM SG/GEN SG'
'xif	'xi:f	'house-GEN PL/NOM PL'
jera'bıts	jera'bı:ts	'grouse-GEN PL/DAT SG'
'mıʃ	'mı:f	'mouse-NOM SG/GEN SG'
'nit	'nıt	'thread-NOM SG/DAT SG-GEN SG'
pot'plat	pot'pla:t	'sole-NOM SG/DAT SG'
'sit	'si:t	'sieve-NOM SG/LOC SG'
ka'kuoʃ	ka'kuo:f	'chicken-NOM SG/NOM PL'
'snop	'snɔ:p	'bundle-NOM SG/DAT SG'
klə'bas	klə'ba:s	'sausage-GEN PL/NOM PL'
kləba'sıts	kləba'sı:ts	'sausage-GEN PL/NOM PL'
'rəp	'rə:p	'tail-NOM SG/DAT SG'

Final stress, underlyingly voiced

<i>no deletion</i>	<i>deletion</i>	
'yniest	'ynie:zd	'nest-GEN PL/NOM PL'
'brat	'bra:d	'beard-GEN PL/NOM PL'
'rip	'ri:b	'fish-GEN PL/NOM PL'
la'bot	la'bo:d	'swan-NOM SG/DAT SG'
po'mlat	po'mla:d	'spring-NOM SG/GEN SG'
'zap	'za:b	'frog-GEN PL/DAT SG'
'jerap	'jera:b	'grouse-NOM SG/DAT SG'
'puʃ	'pu:ʒ	'snail-NOM SG/DAT SG'
'yɔp	'yɔ:b	'mushroom-GEN PL/NOM PL'
'wət	'wə:d	'water-GEN PL/NOM PL'
'moʃ	'mo:ʒ	'husband-NOM SG/LOC SG'
'wəs	'wə:z	'cart-NOM SG/DAT SG'
bə'siet	bə'sie:d	'word-GEN PL/NOM PL'
'ylas	'yla:ʒ	'jar-NOM SG/DAT SG'
'mrieʃ	'mrie:ʒ	'net-GEN PL/NOM PL'
'skərp	'skə:rb	'care-NOM SG/DAT SG'
'jeʃ	'je:ʒ	'hedgehog-NOM SG/DAT SG'

Penultimate stress

<i>no deletion</i>	<i>deletion</i>	
'jayot	'jayod	'berry-GEN PL/NOM PL'
'smukuts	'smukuts	'strawberry-GEN PL/NOM PL'
'vieuərts	'vieuərts	'squirrel-GEN PL/NOM PL'
'pamet	'pamet	'wisdom-NOM SG/GEN SG'
'madeʃ	'madeʒ	'stain-NOM SG/NOM PL'