APPENDIX

NOTATIONAL CONVENTIONS

The notational conventions used in the impressionistic records of this study are essentially those of the International Phonetic Alphabet as agreed upon at the International Congress of Phonetic Science in Kiel 1989. However, in order to display the detailed records presented here, using a word-processing program, I have had to make certain compromises relating to the orbital placement of certain diacritics. Certain symbols and diacritics have also been added. The ways in which the notation used in this study departs from the IPA are as follows:

(i) diacritics for more/less rounding are placed to the right of the symbol being modified.
(ii) for reasons of symmetry I have introduced a pair of symbols to represent non-rounded and rounded central open vocalic portions.
(iii) there are two diacritics for the notation of creaky phonation. In general the superscript ' is used to modify vocalic symbols, - consonantal symbols. This was done purely for convenience and both diacritics are equivalent.
(iv) the diacritics used for secondary cavity resonance are a word-processor implementation of the resonance categories given in Kelly and Local (1989, 73).
(v) the diacritic is used both to represent an open glottis when modifying vocalic symbols and an open or narrowed glottis when modifying many consonantal symbols, hence the descriptive label: non-voiced.

To facilitate reference, the reader will find a second copy of the next two pages in the wallet on the inside of the back cover.
<table>
<thead>
<tr>
<th></th>
<th>Bilabial</th>
<th>Labiodental</th>
<th>Dental</th>
<th>Alveolar</th>
<th>Post-alveolar</th>
<th>Retroflex</th>
<th>Palatal</th>
<th>Velar</th>
<th>Uvular</th>
<th>Pharyngeal</th>
<th>Glottal</th>
</tr>
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<tbody>
<tr>
<td>Plosive</td>
<td>p b</td>
<td></td>
<td>t d</td>
<td>t d q</td>
<td>c j</td>
<td>k g</td>
<td>q g</td>
<td></td>
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<td>?</td>
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<tr>
<td>Nasal</td>
<td>m m̃</td>
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<td>n</td>
<td>ñ ñ</td>
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<td>n</td>
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<td>Trill</td>
<td>b r</td>
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<td>r</td>
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<td>R</td>
<td></td>
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<tr>
<td>Tap or Flap</td>
<td>r j</td>
<td></td>
<td>r j</td>
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<td></td>
<td>J</td>
<td></td>
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<tr>
<td>Fricative</td>
<td>f v θ ø</td>
<td>s z j z</td>
<td>s z</td>
<td>c j x y</td>
<td>x s h ̃ h ̃</td>
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<tr>
<td>Lateral fricative</td>
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<td></td>
<td></td>
<td>t h</td>
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<tr>
<td>Approximant</td>
<td>i y</td>
<td>i h</td>
<td>u</td>
<td>l j ̃ ̃</td>
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<tr>
<td>Lateral approximant</td>
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<td>l</td>
<td>l ̃ ̃ ̃ ̃</td>
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</tbody>
</table>

Other symbols

w voiced labial velar approximant
ʒ alveolar click
**DIACRITICS USED**

- non-voiced: \( \underaccent{1}d \)  
- breathy voice: \( \acute{a} \)  
- creaky voice: \( \eta / \acute{a} \)  
- whisper: \( \grave{a} \)  
- aspiration: \( \acute{t} \)  

- slight aspiration: \( \acute{t} \)  
- nasal release: \( \acute{tn} \)  
- dental: \( \acute{t} \)  
- no audible release: \( \acute{tp} \)  
- more rounded: \( \grave{o} \)  
- marked increase in loudness: \( \grave{a} \)  
- less rounded: \( \grave{o} \)  
- cotemporality: \( \grave{p} \)  
- advanced: \( \grave{u} \)  
- markedly long: \( \grave{ae} \)  
- retracted: \( \acute{i} \)  
- long: \( \acute{ae} \)  
- raised: \( \grave{a} \)  
- non-long/short: \( \grave{ae} \)  
- lowered: \( \grave{u} \)  
- markedly short: \( \grave{i} \)  
- mid-centralised: \( \grave{e} \)  
- syllabic: \( \grave{n} \)  
- unaspirated: \( \grave{k} \)

**Secondary cavity resonance**

<table>
<thead>
<tr>
<th>Palatalised</th>
<th>clear</th>
<th>front of central</th>
<th>central</th>
<th>back of central</th>
<th>dark</th>
<th>velarised</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

209
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CLS - Papers from the Regional Meetings Chicago Linguistic Society.
MP - Le Maitre Phonétique.
TPS - Transactions of the Philological Society.

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