

CONTENTS

Acknowledgements	xi
1. THE NORTHERN CITIES SHIFT	1
1.1. The Study of Language Change in Progress	2
1.2. The Diffusion of Linguistic Innovations	5
1.3. Chain Shifting	7
1.4. Previous Research on the Northern Cities Shift	13
1.4.1. Phonetic and Phonological Issues	15
1.4.2. Geography of the NCS	19
1.4.3. Social Distribution of the NCS	20
1.4.4. Historical Evidence of the NCS	24
1.4.4.1. The Time Depth of the NCS	24
1.4.4.2. Chronology of the Changes	33
1.5. Conclusions	36
2. METHODOLOGY	40
2.1. Sample	40
2.2. Data Collection	44
2.3. Data Analysis	46
2.3.1. Coding Procedures	46
2.3.2. Quantitative Analysis	49
2.3.3. Acoustic Analysis	50
3. RESULTS: (ɛ), (ɪ), AND (ʌ)	53
3.1. The Variable (ɛ)	53
3.1.1. Phonetic Description of the Variation	53
3.1.2. Phonological Conditioning of (ɛ)	57
3.1.2.1. General Conditioning of (ɛ)	57
3.1.2.2. Phonological Conditioning of Variant Trajectories of (ɛ)	66

3.1.3. Social Distribution of (ɛ)	75
3.1.3.1. Social Aspects of General (ɛ)-Shifting	75
3.1.3.2. Social Distribution of Variant Trajectories of (ɛ)	80
3.2. The Variable (ɪ)	83
3.2.1. Phonetic Description of the Variation	83
3.2.2. Phonological Conditioning of (ɪ)	85
3.2.2.1. General Conditioning of (ɪ)	85
3.2.2.2. Phonological Conditioning of Variant Trajectories of (ɪ)	90
3.2.3. Social Distribution of (ɪ)	97
3.2.3.1. Social Aspects of General (ɪ)-Shifting	97
3.2.3.2. Social Distribution of Variant Trajectories of (ɪ)	100
3.3. The Variable (ʌ)	102
3.3.1. Phonetic Description of the Variation	102
3.3.2. Phonological Conditioning of (ʌ)	104
3.3.2.1. General Conditioning of (ʌ)	104
3.3.2.2. Phonological Conditioning of Variant Trajectories of (ʌ)	108
3.3.3. Social Distribution of (ʌ)	117
3.3.3.1. Social Aspects of General (ʌ)-Shifting	117
3.3.3.2. Social Distribution of Variant Trajectories of (ʌ)	119
4. RESULTS: (æ), (ɑ), AND (ɔ)	124
4.1. The Variable (æ)	124
4.1.1. Phonetic Description of the Variation	124
4.1.2. Phonological Conditioning of (æ)	126
4.1.3. Social Distribution of (æ)	130
4.2. The Variable (ɑ)	133
4.2.1. Phonetic Description of the Variation	133
4.2.2. Phonological Conditioning of (ɑ)	134
4.2.3. Social Distribution of (ɑ)	137

4.3. The Variable (ɔ)	140
4.3.1. Phonetic Description of the Variation	140
4.3.2. Phonological Conditioning of (ɔ)	143
4.3.3. Social Distribution of (ɔ)	147
5. DISCUSSION	151
5.1. Issues Related to Phonological Conditioning	151
5.1.1. Comparisons to Previous Research Results	152
5.1.2. Types of Explanations	156
5.1.2.1. Lexical Bias	156
5.1.2.2. Coincidental Effects	160
5.1.2.3. Phonetic Motivations	162
5.1.2.4. Peculiarities of English	168
5.1.3. Summary of Discussion on Phonological Findings	171
5.2. The Social Distribution of the NCS	172
5.2.1. The Factor of Town	173
5.2.2. The Factor of Sex of Speaker	179
5.2.3. The Factor of Speaker Age	187
5.3. Summary	191
6. IS THE NORTHERN CITIES SHIFT A CHAIN SHIFT?	194
6.1. Are the NCS Changes Interrelated?	195
6.1.1. General Spatial Connections	195
6.1.2. Impact of Individual Speakers	199
6.1.3. Temporal Relatedness	205
6.2. Are Contrasts Preserved by the NCS Changes?	210
6.3. Conclusions	215
Appendix A: Word List	221
Appendix B: Items Omitted from Coding	223
References	225