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This thesis is presented as part of the requirements for the award of the degree of Doctor of Philosophy of the University of New England.

January, 2009
Declaration

I certify that the substance of this thesis has not already been submitted for any degree and is not currently being submitted for any other degree or qualification.

I certify that to the best of my knowledge any help received in preparing this thesis, and all sources used, have been acknowledged in this thesis.

Darrell G. Fisher
January, 2009
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Abstract

Market accessibility has always been a driving force in the development of the wheat landscape in northern NSW. As the wheat frontier moved north and west from the coast through the tablelands to establish on the western slopes and plains, it was the accompanying changes in transport and storage infrastructure that played a major role in this development.

In the early years of poorly developed transport routes, local markets flourished and flour mills mushroomed. With the improvements in transport infrastructure, however, a local monopoly situation gave way to competition from elsewhere and the local wheat landscape faded away in favour of other activities which had a local comparative advantage. This is the story of the Northern Tablelands, where improved rail access and its extension to the north-west, led to the local demise of the wheat and flour industry and its growth in the north-west.

Globalisation, coupled with the deregulation of the State owned rail network and wheat marketing arrangements in recent years has led to dramatic ramifications for the wheat landscape in northern NSW. The problems faced by Australian Wheat Board (AWB) single desk export marketing following the Iraq scandal and the deregulation of domestic wheat marketing arrangements has led to changes in the grain supply chain. With the growth of feedlots and the potential growth in the biofuel industry, there has been a decline in the use of rail and its associated line-side silos in favour of on-farm storage and road transport.

These changes have had flow-on effects for the local communities established as centres servicing the surrounding district and forming an integral part of the wheat landscape. The growth in on-farm storage and increasing use of road transport has seen the demise of both the railnet serving the communities and the line-side silos that have served as icons of the wheat landscape. The impacts of the closure of the grain line and silo infrastructure on these service communities have been enormous while the impacts on the farming enterprises have resulted in adaptation to these altered conditions and to sweeping changes to the rural landscape.
# TABLE OF CONTENTS

Certificate of Originality ............................................................... i
Acknowledgements ................................................................... ii
Abstract ....................................................................................... iii
Table of Contents ......................................................................... iv
List of Tables ................................................................................ viii
List of Figures ............................................................................... ix
List of Plates ................................................................................ xi

Preface .......................................................................................... 1

Chapter 1. Setting the Context: The Aims and Objectives

1.1 Theoretical Principles - The Place of 'Landscape' and 'Time' in Geographic Thought ........................................ 3
1.2 The 'Landscape of Hope' ................................................................................................................................. 8
1.3 The Context: Deregulation of the Wheat Supply Chain ................................................................................ 9
1.4 Research Aims and Objectives ..................................................................................................................... 10
1.5 Thesis Structure ........................................................................................................................................... 11
1.6 Conclusion ..................................................................................................................................................... 12

Chapter 2. The Contextual Framework in the Literature

2.1 Introduction .............................................................................. 13
2.2 The Changing Emphasis of Rural Studies
   2.2 (i) Commercial and Economic Geography .............................. 13
   2.2 (ii) Rurality and Rural Geography ............................................ 14
   2.2 (iii) Rural Sustainability .......................................................... 16
   2.2 (iv) The Historical Perspective for Studies in Rural Geography .................................................................. 18
   2.2 (v) Changes in the Wheat Frontier in Australia ................. 19
2.3 Accessibility, Transport Infrastructure and Wheat ................................................................. 19
2.4 Conclusion ................................................................................ 22

Chapter 3. Research Design and Methodology

3.1 Introduction .............................................................................. 24
3.2 The Impact Assessment .......................................................... 25
3.3 Methodology
   3.3 (i) Archival Research ............................................................... 26
   3.3 (ii) Fieldwork Case Studies .................................................... 27
   3.3 (iii) Semi-Structured Interviews .............................................. 27
Chapter 4. Changing Infrastructure: The Moving Frontier of Wheat

4.1 Introduction 37
4.2 The Moving Frontier - Coastal Wheat 38
4.3 The Movement to the Tablelands 41
4.4 The Wheat Frontier Expands to the Western Slopes and Plains 43
4.5 Conclusion 49

Chapter 5. Changing Infrastructure: The Rise and Fall of the Wheat Landscape on the Northern Tablelands of NSW

5.1 Introduction 50
5.2 The Northern Tablelands of NSW 50
5.3 The Arrival of Wheat Cultivation With European Settlers 51
5.4 Market Expansion and the Establishment of a Yeomanry 54
5.5 Technological Change on the Tablelands 57
  5.5 (i) The Growth of Flour Mills 57
  5.5 (ii) Changes in Farm Machinery 61
  5.5 (iii) Changes in Transport Infrastructure 63
5.6 Ground Between Two Wheels: technological progress of the mills and the extension of the railway 68
5.7 Conclusion and Postscript 70

Chapter 6. The Core Place of Transport and Storage Infrastructure in the Grain Supply Chain of Northern NSW

6.1 Introduction 73
6.2 The Effects of Globalisation 73
6.3 The Start Point of the Chain: Storage Infrastructure 75
6.4 Moving the Golden Grain: The Rail Infrastructure in Northern NSW 89
  6.4 (i) The Development of the Rail network 90
  6.4 (ii) Difficulties With the Rail Network 92
6.5 The End Point of the Grain Chain, (a) The Export Terminals 94
  6.5 (i) The AWB Debacle 96
  6.5 (ii) Impacts of the Changes for Infrastructure 98
6.6 The End Point of the Grain Chain, (b) The Domestic Market 99
6.7 Other Prospective Impacts on the Wheat Supply Chain and Landscape 102
6.8 Conclusion 104

Chapter 7. Grain Line Closures: The Demise of Rail and Storage Infrastructure

7.1 Introduction 106
7.2 Grain Line Closures 107
7.3 Closure of Railhead Storage Infrastructure 116
7.4 Increasing Road Haulage 121
7.5 An International Comparison: The Canadian Example 123
  7.5 (i) Rail Infrastructure Development 123
  7.5 (ii) The Direction of Grain Movement 126
  7.5 (iii) The Closure of Line-Side Elevators 128
  7.5 (iv) The Closure of Branch Lines 129
  7.5 (v) The Effects of the Closures 129
7.6 Conclusion 130

Chapter 8. Impacts of Change (1) - Research Findings from the Closure of the Barraba Line

8.1 Introduction 132
8.2 Community Responses 133
  8.2 (i) Community Profiles 133
  8.2 (ii) Community Attitudes to Rail Closures 135
  8.2 (iii) Community Attitudes on the Future of the Line 138
  8.2 (iv) Local Community Leaders 139
  8.2 (v) The Spatial Pattern of Community Attitudes 139
8.3 Farmer Responses 142
  8.3 (i) The Generalised Farm Profile 142
  8.3 (ii) Farmer Attitude to Rail Line Closure 143
8.4 Responses From Local Industries 145
8.5 Conclusions 146

Chapter 9. Impacts of Change (2) - Research Findings from the Closure of the Inverell Line

9.1 Introduction 148
9.2 Community Responses 148
  9.2 (i) Community Profiles 148
  9.2 (ii) Community Attitude to Rail Line Closures 149
  9.2 (iii) Community Attitudes on the Future of the Line 152
  9.2 (iv) Local Community Leaders 153
  9.2 (v) The Spatial Pattern of Community Attitudes 155
9.3 Farmer responses 160
  9.3 (i) The Generalised Farm Profile 160
  9.3 (ii) Farmer Attitude to Rail Line Closures 160
9.4 Responses From Local Industries 162
9.5 Conclusion 163

Chapter 10. Impacts of Change (3) - Research Findings from the Closure of the Gwabegar Line

10.1 Introduction 165
10.2 Community Responses 168
  10.2 (i) Community Profiles 168
10.2 (ii) Some Pre-Closure Impacts on the Sustainability of These Communities 169
10.2 (iii) Community Attitudes on the Rail Line Closure 170
10.2 (iv) Community Attitudes on the Future of the Line 171
10.2 (v) The Spatial Pattern of Community Attitudes 172
10.2 (vi) Responses From Community Leaders 176
10.3 Farmer Responses 178
10.3 (i) The Generalised Farm Profile 178
10.3 (ii) Farmer Attitude to Rail Line Closure 179
10.4 The Survey of Industry Groups 182
10.5 Conclusion 184

Chapter 11. Impact Comparisons of Grain Line Closures - A Synthesis

11.1 Introduction 185
11.2 Comparisons Between the Lines 185
11.2 (i) Community Survey Comparisons - Effects of Line Closures 185
11.2 (ii) Community Survey Comparisons - The Future of the Lines 190
11.2 (iii) Farmer Survey Comparisons - Effects of Line Closures 192
11.2 (iv) Farmer Survey Comparisons - The Future of the Lines 195
11.3 Conclusion 197

Chapter 12. Conclusions

12.1 Research Summary 199
12.2 Conclusions 202
12.3 Recommendations 204
12.4 Future Research Opportunities 207

References 209
Appendix 247
# List of Tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Community Sample Rates</td>
<td>30</td>
</tr>
<tr>
<td>3.2</td>
<td>Farmer Sample Rates</td>
<td>31</td>
</tr>
<tr>
<td>3.3</td>
<td>Industry Surveys</td>
<td>32</td>
</tr>
<tr>
<td>3.4</td>
<td>Community Leaders</td>
<td>32</td>
</tr>
<tr>
<td>4.1</td>
<td>Area Sown to Wheat in Coastal NSW 1861 to 1878</td>
<td>41</td>
</tr>
<tr>
<td>4.2</td>
<td>Area Sown to Wheat in Acres</td>
<td>43</td>
</tr>
<tr>
<td>4.3</td>
<td>Returns of Livestock 1851</td>
<td>45</td>
</tr>
<tr>
<td>5.1</td>
<td>Population at Rocky River Gold Diggings 1852 to 1856</td>
<td>55</td>
</tr>
<tr>
<td>5.2</td>
<td>Mills in the New England Pastoral District 1864 to 1870</td>
<td>58</td>
</tr>
<tr>
<td>5.3</td>
<td>Northern Tablelands: Area Sown to Selected Grains</td>
<td>70</td>
</tr>
<tr>
<td>6.1</td>
<td>Examples of Domestic End Users for Wheat in Northern NSW</td>
<td>99</td>
</tr>
<tr>
<td>7.1</td>
<td>Rail Line Closures in Northern NSW</td>
<td>107</td>
</tr>
<tr>
<td>7.2</td>
<td>Cost Recovery for Maintenance on Restricted Lines</td>
<td>108</td>
</tr>
<tr>
<td>8.1</td>
<td>Community Profiles for the Barraba Line 2006</td>
<td>133</td>
</tr>
<tr>
<td>8.2</td>
<td>Barraba Line: Individual Community Responses (%): Effects of Line Closure</td>
<td>140</td>
</tr>
<tr>
<td>8.3</td>
<td>Barraba Line: Individual Community Responses (%): Future of the Line</td>
<td>141</td>
</tr>
<tr>
<td>8.4</td>
<td>Employment in Sheep, Beef Cattle and Grain Industry 2006</td>
<td>143</td>
</tr>
<tr>
<td>8.5</td>
<td>Effects of Line Closure on Farms Along the Barraba Line</td>
<td>143</td>
</tr>
<tr>
<td>9.1</td>
<td>Community Profiles for the Inverell Line 2006</td>
<td>149</td>
</tr>
<tr>
<td>9.2</td>
<td>Inverell Line: Individual Community responses (%) : Effects of Line Closure</td>
<td>156</td>
</tr>
<tr>
<td>9.5</td>
<td>Inverell Line : Effects of Line Closure on Farms</td>
<td>160</td>
</tr>
<tr>
<td>10.1</td>
<td>Community Profiles for the Gwabegar Line 2006</td>
<td>168</td>
</tr>
<tr>
<td>10.2</td>
<td>Gwabegar Line: Individual Community Responses (%): Effects of Line Closure</td>
<td>172</td>
</tr>
<tr>
<td>10.3</td>
<td>Gwabegar Line: Individual Community Responses (%): Future of the Line</td>
<td>174</td>
</tr>
<tr>
<td>10.4</td>
<td>Gwabegar Line: Employment in Sheep, Beef Cattle and Grain Industry 2006</td>
<td>178</td>
</tr>
<tr>
<td>10.5</td>
<td>Effects of Line Closure on Farms (%) : Gwabegar Line</td>
<td>179</td>
</tr>
<tr>
<td>11.1</td>
<td>Percentage Increase in Population Aged 65 and Over 1996-2006</td>
<td></td>
</tr>
</tbody>
</table>

viii.
List of Figures

2.1 Government Railways in NSW in 1890 20
2.2 The Conceptual Framework Underpinning this Research as an Issues Based Study. 22
3.1 Rail Line Closures in Northern NSW 28
4.1 Land Administration Under the Imperial Waste Land Act, 1846 40
4.2 Exploration of North Western NSW 1818 to 1839 44
4.3 The Westward Migration of Wheat 1845 to 1895 48
5.1 Location of the New England Tablelands 50
5.2 Appointment of George Macdonald 52
5.3a Northern Tablelands Wheat Acreage 1850 to 1860 55
5.3b Northern Tablelands Wheat Acreage 1897 to 1910 55
5.4 Sketch of Mt. Mitchell Water Mill (near Glencoe) by William Gardiner, 1854. 60
5.5 Location of Flour Mills on the New England Tablelands 1840 to 1895. 61
5.6 Northern Tablelands Transport and Communication Network 1830 to 1887. 65
5.7 Acreage Under Wheat in NSW Statistical Divisions 71
6.1 Periods of Construction of Grain Storage Types in Northern NSW 76
6.2 Bulk Grain Storage Construction in Northern NSW - 1930s 80
6.3 Bulk Grain Storage Construction in Northern NSW - 1940s 81
6.4 Bulk Grain Storage Construction in Northern NSW - 1950s 82
6.5 Bulk Grain Storage Construction in Northern NSW - 1960s 83
6.6 Bulk Grain Storage Construction in Northern NSW - 1970s 84
6.7 Bulk Grain Storage Construction in Northern NSW - 1980s 85
6.8 Bulk Grain Storage Construction in Northern NSW - 1990s 86
6.9 Bulk Grain Storage Capacity in Northern NSW - 2006 87
6.10 Railnet Construction in Northern NSW 1870 to 1940 91
6.11 Wheat Catchment Areas for Newcastle and Port Kembla Port Terminals 95
6.12 Plan View of the Grain Terminal at the Port of Newcastle 97
7.1 Export Grain Logistics Chain 118
7.2 Location of Barraba Line Silo Sites 120
7.3 Location of the Peace River Block, Canada 124
7.4 Winter Night by Robert Hurley, 1954 126
7.5 Map of the Old Elevators on the Glenavon and Lewvan Branch Lines
8.1 Barraba Line: Locations of Survey Responses, 2007
8.2 Barraba Line Community Survey: Effects of Line Closure
8.4 Barraba Line: Population Change
8.5 Barraba Line Community Survey: Future of the Line
8.6 Barraba Line Farmer Survey: Effects of Line Closure
8.7 Barraba Line Farmer Survey: Future of the Line
9.1 Inverell Line: Location of Survey Responses, 2007
9.2 Inverell Line Community Survey: Effects of Line Closure
9.3 Rob Roy - Inverell West: Changes in Traffic Volume
9.4 Inverell Line: Population Change
9.5 Inverell Line Community Survey: Future of the Line
9.6 Inverell Line Farmer Survey: Effects of Line Closure
9.7 Inverell Line Farmer Survey: Future of the Line
10.1 Gwabegar Line: Location of Survey Responses 2007
10.2 Gwabegar Line Community Survey: Effects of Line Closure
10.3 Gwabegar Line Community Survey: Future of the Line
10.4 Gwabegar Line Farmer Survey: Effects of Line Closure
10.5 Gwabegar Line Farmer Survey: Future of the Line
11.1 Community Survey Comparisons: Effects of Line Closures
11.3 Barraba and Inverell Lines: Traffic Volumes 1980-2004
11.4 Community Survey Comparisons: The Future of the Lines
11.5 Farmer Survey Comparisons: Effects of Line Closures
11.6 Farmer Survey Comparisons: The Future of the Lines
12.1 Wheat Production in NSW 1993-2006
12.2 Northern NSW Wheat Production 2002-2006 (Five Year Average)
# List of Plates

<table>
<thead>
<tr>
<th>Plate</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>The vertical silo - an icon of the wheat landscape in northern NSW</td>
<td>2</td>
</tr>
<tr>
<td>2.</td>
<td>Street survey location in Barraba, 12 July, 2007</td>
<td>34</td>
</tr>
<tr>
<td>3.</td>
<td>Difficulties with fieldwork. Floodwaters at Bundarra providing access problems to the Inverell area on 21 August, 2007</td>
<td>35</td>
</tr>
<tr>
<td>4.</td>
<td>The open, grassy plains of east Saumarez and Kellys Plains</td>
<td>53</td>
</tr>
<tr>
<td>5.</td>
<td>Christopher Bagot's water mill at Ben Lomond Station in 2007</td>
<td>59</td>
</tr>
<tr>
<td>6.</td>
<td>Sharefarmer, Charles Hodgson, reaping wheat on the Reid family property 'Cottesbrook' at Sandy Flat near Tenterfield in 1903</td>
<td>63</td>
</tr>
<tr>
<td>7.</td>
<td>The Guyra to Dorrigo rail link</td>
<td>67</td>
</tr>
<tr>
<td>9.</td>
<td>Henderson's flour mill, the first mill in Glen Innes, 1858-1870.</td>
<td>72</td>
</tr>
<tr>
<td>10.</td>
<td>Vertical concrete silo at Wee Waa in April, 2006</td>
<td>77</td>
</tr>
<tr>
<td>11.</td>
<td>Mushroom silo (foreground) at Narrabri in April, 2006</td>
<td>77</td>
</tr>
<tr>
<td>12.</td>
<td>Horizontal silo at Baan Baa in April, 2006</td>
<td>78</td>
</tr>
<tr>
<td>13.</td>
<td>Bunker type silo at Walgett in April, 2006</td>
<td>78</td>
</tr>
<tr>
<td>14.</td>
<td>'Blue Gums' on-farm storage near Burren Junction in May, 2006</td>
<td>89</td>
</tr>
<tr>
<td>15.</td>
<td>The Newcastle wheat terminal loading wheat for Iraq on 25 August, 2006</td>
<td>97</td>
</tr>
<tr>
<td>16.</td>
<td>Namoi flour mill at Gunnedah</td>
<td>100</td>
</tr>
<tr>
<td>17.</td>
<td>Ridley Stockfeed at Tamworth</td>
<td>100</td>
</tr>
<tr>
<td>18a.</td>
<td>Cotton fields near Wee Waa, 12 April, 2006</td>
<td>103</td>
</tr>
<tr>
<td>18b.</td>
<td>Sorghum on the Liverpool Plains near Breeza on the 12 April, 2006</td>
<td>103</td>
</tr>
<tr>
<td>19.</td>
<td>Yarrowford siding, Great Northern Line, 2006</td>
<td>112</td>
</tr>
<tr>
<td>20.</td>
<td>Delungra silo on the Inverell line in 2006</td>
<td>112</td>
</tr>
<tr>
<td>21.</td>
<td>Attunga silo on the Barraba line in 2006</td>
<td>114</td>
</tr>
<tr>
<td>22.</td>
<td>Gwabegar line near Baradine in 2006</td>
<td>114</td>
</tr>
<tr>
<td>23.</td>
<td>Gidley silo on the Barraba line in 2007</td>
<td>117</td>
</tr>
<tr>
<td>24.</td>
<td>Gwabegar silo on the Gwabegar line in 2006</td>
<td>117</td>
</tr>
<tr>
<td>25a.</td>
<td>The GrainCorp sub-terminal at Werris Creek in 2006</td>
<td>119</td>
</tr>
<tr>
<td>25b.</td>
<td>The Werris Creek sub-terminal south side</td>
<td>119</td>
</tr>
<tr>
<td>26.</td>
<td>Westdale silo near Tamworth showing the closed Barraba line in 2006</td>
<td>121</td>
</tr>
<tr>
<td>27.</td>
<td>Grain elevators near Grand Prairie, Alberta, February, 1967</td>
<td>125</td>
</tr>
</tbody>
</table>
28. Wheat terminal at Churchill, Manitoba, on Hudson Bay, 22 June, 1997 127
29. The Barraba line near Manilla in 2007 132
30. The Woodsreef asbestos mine near Barraba in 2007 137
31. The Mushroom silo at Mount Russell, August, 2007 154
32. An example of recycled use for silos at Inverell 154
33. The unused silos at Gravesend in 2008 159
34. The rail line near Gwabegar in September, 2007 165
35. Gwabegar Line - new concrete culverts in 2007 166
36. Road maintenance near Kenebri on the Gwabegar Line 176
37. The only rail bridge needing attention at Mow Creek, 17 km north of Binnaway 177
38. The road/rail underpass between Coonabarabran and Baradine 178
39. On-farm storage at Barwon Station near Baradine in 2007 180
40. The recently constructed weighbridge at 'Tregoen' property, 30 km. north of Gwabegar in 2007 180
41. Bunganbah Meat Co. abattoir near Binnaway in 2007 183
42. The 'end of the line' at Gwabegar in 2007 184
43. Spur line re-development at Port Echuca, Victoria 205
44. A section of the Clare Valley Rail Trail at Penwortham, South Australia 207
PREFACE

Rural Australia is currently in the throes of dramatic change
(Epps and Sorensen 1993a:1)

It can be argued that rural areas have always been in a state of change but in recent years the evolutionary process appears to have accelerated. This is clearly evident in the broadacre wheat farming landscape of northern NSW.

In recent years broadacre farming areas in rural Australia have been subjected to immense stress brought about by both natural causes, such as drought, and macro level public policy decisions. These changes have often resulted in the withdrawal of public sector essential services, such as the closing of schools, with flow-on effects to the private sector business, including financial institutions (Smailes 1997; Argent & Rolley 2000).

Indeed, the catalyst for this research project arose from changes in the wheat growing areas of northern NSW. For this thesis the area encompasses fifteen agronomy districts defined by the Department of Primary Industry (DPI) north of Latitude 31S stretching from Kempsey to Coonabarabran. On the 29th October, 2005 the grain line linking Binnaway through Coonabarabran and Baradine to Gwabegar was 'suspended from operations' (Railway News 2006c:33). Effectively, this means 'closed'. This alteration to the grain supply chain would clearly have repercussions for the bulk marketing of export grain with possible negative flow-on effects to the local service communities in the area.

Changes in infrastructure through time have been a major influence on the general evolution of the wheat farming landscape in NSW from its embryonic stage in the early days of the first European settlement at Farm Cove. In this regard we should be cognisant of the words of Winston Churchill:

Those who seek to plan the future should not forget the inheritance they received from the past, for it is only by studying the past as well as drawing for the future that the story of man's[sic] struggle can be understood (quoted in Humes 1994:44).

The basic aim of this study is to investigate the impact of changes that are occurring in the transport and related storage infrastructure in the wheat growing areas of northern 1.
NSW on the human landscape of that area. Infrastructure change in the past had an enormous influence on the expansion of wheat growing areas and in the development of associated urban service centres. In order to understand the present, then, the impact of change through time is necessary. It can be argued that space can only be understood by reference to the objects and processes that constitute it (Sayer 1985:51). Indeed, the tall, concrete, cylindrical silos that are found throughout the wheat growing areas are an icon, a landscape structure epitomising the historical evolution of this broadacre industry (see Plate 1).

Recent changes in the grain supply chain, in the form of the closure of grain lines in the north of the State, form a part of this continuing evolutionary development and it is the impacts of this recent closure decision on the farming landscape, including the communities involved, that are the particular focus of this investigation. That is, the effects of these changes on the social and economic landscape need to be examined. To date, such an impact assessment has been a neglected area of research (Buttel et al. 1990:154).

The importance of infrastructure, in its broadest sense, is now on the agenda of policy makers in Australia, with the newly elected Federal Labor Government introducing the Infrastructure Australia Bill to Parliament on 21 February, 2008. A priority list of infrastructure projects should be available in 2009 with the basic aim being to enhance regional economic development. Hopefully, the findings of this thesis will contribute in at least some small way to this Federal Government initiative.

Plate 1. The vertical silo - an icon of the wheat landscape in northern NSW. This site at Wee Waa is an example of the traditional line-side silo (storage infrastructure) constructed in the 1930s.