Table of Contents

1. Introduction
   1.1 Fragmentation of green-blue networks 1
   1.2 Research objectives 4
   1.3 Research approach 5
      1.3.1 Meta-analysis of stated and revealed preference valuation studies 5
      1.3.2 Choice model valuation of landscape fragmentation 6
      1.3.3 Hedonic pricing study of the Dutch housing market 6
   1.4 Outline of the study 7

2. Landscape fragmentation
   2.1 Introduction 11
   2.2 Perspectives on fragmentation 12
      2.2.1 Ecological perspectives of fragmentation 12
      2.2.2 Anthropocentric perspectives of fragmentation 15
   2.3 Causes of fragmentation 18
   2.4 Policies for preventing, mitigating and reducing fragmentation 19
   2.5 Measuring fragmentation 21
   2.6 Valuation of fragmentation 25
   2.7 Definition and measurement of fragmentation in this study 29

3. The value of urban and peri-urban open space: meta-analyses of contingent valuation and hedonic pricing results
   3.1 Introduction 33
   3.2 Meta-analysis of contingent valuation results 36
      3.2.1 CV data description 36
      3.2.2 CV meta-regression specification and results 40
   3.3 Meta-analysis of hedonic pricing results 45
      3.3.1 Effect size and study characteristics 45
      3.3.2 Explanatory variables 50
      3.3.3 Model specification and results 52
   3.4 Comparison of CV and HP results 55
   3.5 Conclusions 58

4. Valuing landscape fragmentation: a choice experiment
   4.1 Introduction 61
   4.2 Choice model valuation method 63
   4.3 Study site and context 66
   4.4 Choice experiment design 67
      4.4.1 Landscape characteristics, attributes and levels 67
      4.4.2 Statistical design 71
      4.4.3 Choice set representation 72
   4.5 Pre-tests and survey implementation 72
   4.6 Results 75
   4.7 Discussion and conclusions 86
   Annex 4.1: Test of statistical design 88
   Annex 4.2: Development of choice experiment design 91