

SOEPpapers

on Multidisciplinary Panel Data Research

SOEP - The German Socio-Economic Panel study at DIW Berlin

728-2015

728

The Greener, The Happier? The Effects of Urban Green and Abandoned Areas on Residential Well-Being

Christian Krekel, Jens Kolbe, Henry Wüstemann



SOEPpapers on Multidisciplinary Panel Data Research at DIW Berlin

This series presents research findings based either directly on data from the German Socio-Economic Panel study (SOEP) or using SOEP data as part of an internationally comparable data set (e.g. CNEF, ECHP, LIS, LWS, CHER/PACO). SOEP is a truly multidisciplinary household panel study covering a wide range of social and behavioral sciences: economics, sociology, psychology, survey methodology, econometrics and applied statistics, educational science, political science, public health, behavioral genetics, demography, geography, and sport science.

The decision to publish a submission in SOEPpapers is made by a board of editors chosen by the DIW Berlin to represent the wide range of disciplines covered by SOEP. There is no external referee process and papers are either accepted or rejected without revision. Papers appear in this series as works in progress and may also appear elsewhere. They often represent preliminary studies and are circulated to encourage discussion. Citation of such a paper should account for its provisional character. A revised version may be requested from the author directly.

Any opinions expressed in this series are those of the author(s) and not those of DIW Berlin. Research disseminated by DIW Berlin may include views on public policy issues, but the institute itself takes no institutional policy positions.

The SOEPpapers are available at http://www.diw.de/soeppapers

Editors:

Jan **Goebel** (Spatial Economics) Martin **Kroh** (Political Science, Survey Methodology) Carsten **Schröder** (Public Economics) Jürgen **Schupp** (Sociology)

Conchita **D'Ambrosio** (Public Economics) Denis **Gerstorf** (Psychology, DIW Research Director) Elke **Holst** (Gender Studies, DIW Research Director) Frauke **Kreuter** (Survey Methodology, DIW Research Fellow) Frieder R. **Lang** (Psychology, DIW Research Fellow) Jörg-Peter **Schräpler** (Survey Methodology, DIW Research Fellow) Thomas **Siedler** (Empirical Economics) C. Katharina **Spieß** (Education and Family Economics) Gert G. **Wagner** (Social Sciences)

ISSN: 1864-6689 (online)

German Socio-Economic Panel Study (SOEP) DIW Berlin Mohrenstrasse 58 10117 Berlin, Germany

Contact: Uta Rahmann | soeppapers@diw.de

The Greener, The Happier? The Effects of Urban Green and Abandoned Areas on Residential Well-Being

Christian Krekel

DIW Berlin, German Institute for Economic Research, German Socio-Economic Panel (SOEP), Mohrenstraße 58, 10117 Berlin, Germany ckrekel@diw.de – www.diw.de/en

Jens Kolbe

TU Berlin,

Institute for Economics and Business Law, Econometrics and Business Statistics, Straße des 17. Juni 145, 10623 Berlin, Germany jens.kolbe@tu-berlin.de – www.tu-berlin.de/menue/home/parameter/en

Henry Wüstemann

TU Berlin,

Institute for Landscape Architecture and Environmental Planning, Landscape Economics, Straße des 17. Juni 145, 10623 Berlin, Germany henry.wuestemann@tu-berlin.de – www.tu-berlin.de/menue/home/parameter/en

Abstract

This paper investigates the effects of urban green and abandoned areas on residential well-being in major German cities, using panel data from the German Socio-Economic Panel (SOEP) for the time period between 2000 and 2012 and cross-section data from the European Urban Atlas (EUA) for the year 2006. Using a Geographical Information System (GIS), it calculates the *distance* to urban green and abandoned areas, measured as the Euclidean distance in 100 metres between households and the border of the nearest urban green and abandoned area, respectively, and the *coverage* of urban green and abandoned areas, measured as the hectares covered by urban green and abandoned areas in a pre-defined buffer area of 1,000 metres around households, respectively, as the most important determinants of access to them. It shows that, for the 32 major German cities with more than 100,000 inhabitants, access to urban green areas, such as parks, is significantly positively associated, whereas access to abandoned areas, such as brownfields, is significantly negatively associated with residential well-being, in particular with life satisfaction, as well as mental and physical health. The effects are strongest for residents who are older, accounting for up to a third of the size of the effect of being unemployed on life satisfaction. Using data from the Berlin Aging Study II (BASE-II) for the time period between 2009 and 2012, this paper also shows that (older) residents who report living closer to greens have been diagnosed significantly less often with certain medical conditions, including diabetes, sleep disorder, and joint disease.

Keywords:

Life Satisfaction, Mental Health, Physical Health, Urban Land Use, Green Areas, Greens, Forests, Waters, Abandoned Areas, SOEP, BASE-II, EUA, GIS, Spatial Analysis

JEL: C23, Q51, Q57, R20

1. Introduction

As urbanisation increasingly puts pressure on open space, efforts to preserve urban green areas have been growing in recent years. Acknowledging that they contribute to their climate and environmental policy objectives, the European Commission promotes their preservation by incorporating them into national and regional policies across the European Union (European Commission, 2013), whereas the Federal Government in Germany promotes their preservation by incorporating them into its national strategy on biodiversity protection (Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety, 2007). A major challenge in efforts to preserve urban green areas is to highlight their benefits for human development. As such, a large number of studies suggest that they have positive effects on residential well-being, in particular on mental health due to a reduction in stress (Kaplan, 1995) and an improvement in mood (Ulrich et al., 1991) and on physical health due to a rise in physical activity (Mitchell and Popham, 2008). Moreover, they have been found to play an important role in protecting biodiversity by providing habitats to hundreds of species (Sukopp and Wittig, 1993; Cornelis and Hermy, 2004; Kuhn et al., 2004), in improving air quality by contributing to climate protection (Nowak, 1994; McPherson, 1998; Nowak et al., 2002) due to their ability to store carbon (Rowntree and Nowak, 1991; McPherson, 1998; Myeong et al., 2006), and in providing recreational and aesthetic benefits (Elsasser, 1999; Tameko et al., 2012). Recently, they have also been found to have positive effects on life satisfaction in general (White et al., 2013; Bertram and Rehdanz, 2014).¹

So far, however, the literature on the relationship between urban land use and residential well-being is confined to a context outside of Germany, with few exceptions, and has focused almost exclusively on the positive effects of greens, neglecting the potentially positive effects of other types of urban green areas, such as forests and waters, and the potentially negative effects of abandoned areas on residential well-being. This paper fills these gaps. It investigates the effects of urban green and abandoned areas on residential well-being in major German cities, using panel data from the German Socio-Economic Panel (SOEP) for the time period between 2000 and 2012 and cross-section data from the European Urban Atlas (EUA) for the year 2006. Using a Geographical Information System (GIS), it calculates the *distance* to urban green and abandoned areas, measured as the Euclidean distance in 100 metres between households and the border of the nearest

¹If not stated otherwise, the term *urban green areas* refers to greens, forests, and waters alike, whereas the term *abandoned areas* refers to land without current use in an urban area.

urban green and abandoned area, respectively, and the *coverage* of urban green and abandoned areas, measured as the hectares covered by urban green and abandoned areas in a pre-defined buffer area of 1,000 metres around households, respectively, as the most important determinants of access to them. It shows that, for the 32 major German cities with more than 100,000 inhabitants, access to urban green areas, such as parks, is significantly positively associated, whereas access to abandoned areas, such as brownfields, is significantly negatively associated with residential well-being, in particular with life satisfaction, as well as mental and physical health. The effects are strongest for residents who are older, accounting for up to a third of the size of the effect of being unemployed on life satisfaction. Using data from the Berlin Aging Study II (BASE-II) for the time period between 2009 and 2012, this paper also shows that (older) residents who report living closer to greens have been diagnosed significantly less often with certain medical conditions, including diabetes, sleep disorder, and joint disease. These results are important for policy as they provide guidance on where to adjust the types of urban land use in order to achieve policy objectives such as the reduction of mental and physical health inequalities.

This paper contributes to the literature in three ways. Firstly, it investigates the effects of urban green and abandoned areas on residential well-being for the first time in major German cities, deriving a set of hypotheses which explicitly differentiates the effects of urban green areas from those of abandoned areas. Secondly, it does not only provide effect heterogeneity by differentiating between different types of urban green areas, including greens, forests, and waters, but also provides effect heterogeneity by differentiating between different types of the transmission mechanisms through which urban green and abandoned areas actually affect residential well-being, with focus on mental and physical health. In doing so, this paper employs a robust empirical model which accounts for unobserved heterogeneity amongst residents and cities to test the derived hypotheses. Finally, it explores whether there is a difference between subjective and objective access to greens and whether residents who report living closer to them have been diagnosed less often with certain medical conditions.

The rest of this paper is organised as follows. Section 2 provides a literature review and derives hypotheses about the effects of urban green and abandoned areas on residential well-being. Section 3 describes the data. Section 4 introduces the empirical model, whereas the obtained results are presented in the fifth section. Section 6 discusses the results. Section 7 concludes.

2. Literature Review

The literature on the relationship between urban land use and residential well-being is confined to a context outside of Germany, with few exceptions, and has focused almost exclusively on the positive effects of greens, neglecting the potentially positive effects of other types of urban green areas, such as forests and waters, and the potentially negative effects of abandoned areas on residential well-being. In short, it is subdivided into two subsets of literature which originate from psychology and medicine, respectively. Firstly, the subset of literature which originates from psychology suggests that greens have positive effects on residential well-being by improving mental health, in particular by reducing stress (Grahn and Stigsdotter, 2003; Swanwick et al., 2003; Gidlöf-Gunnarsson and Ohrström, 2007; Nielsen and Hansen, 2007; Stigsdotter et al., 2010) and mental distress (Guite et al., 2006; O'Campo et al., 2009; Annerstedt et al., 2012; Richardson et al., 2013; Sturm and Cohen, 2014), as well as rates of anxiety and depression (de Vries et al., 2003; Maas et al., 2009). Moreover, they have been found to raise positive emotions (Ulrich, 1983, 1984; Ulrich et al., 1991; Knecht, 2004; Bowler et al., 2010; Coon et al., 2011), to restore attention (Kaplan and Kaplan, 1989; Berman et al., 2008), and to have positive effects on self-regulation (Hartig et al., 2003; van den Berg et al., 2007; Karmanov and Hamel, 2008; van den Berg et al., 2010). Secondly, the subset of literature which originates from medicine suggests that greens have positive effects on residential well-being by improving physical health, in particular by raising general health (de Vries et al., 2003; Maas et al., 2006; Agyemang et al., 2007; Potwarka et al., 2008: Richardson et al., 2013) and longevity (Takano et al., 2002), most likely by raising physical activity (Kaczynski and Henderson, 2007; Maas et al., 2008; Hillsdon et al., 2011), which decreases with distance to greens (Hillsdon et al., 2011).² Finally, they have been found to improve social well-being (Madanipour, 1996; Carmona et al., 2003; Worpole and Knox, 2007; Leslie and Cerin, 2008), most likely by raising social interaction (Kuo et al., 1998), as well as social cohesion and identity (Newton, 2007). Interestingly, perceived access to greens appears to be sufficient for them to have positive effects on residential well-being (Kaplan, 2001; Evans, 2003; Wells and Evans, 2003; Gidlöf-Gunnarsson and Ohrström, 2007). Moreover, even short-term exposure to them seems to be sufficient to improve cognitive functioning and mood (Ulrich et al., 1991; Hull, 1992; Marcus and Barnes, 1999; Kaplan, 2001; Hartig et al.,

²Intuitively, there might be endogeneity between the positive effects of greens on mental and the positive effects of greens on physical health (McDonald and Hodgdon, 1991; Steinberg et al., 1997; Padgett and Glaser, 2003; Arranz et al., 2007; Webster and Glaser, 2008).

2003; Berman et al., 2008; Abkar et al., 2010; Nisbet and Zelenski, 2011).³

Recently, a new stream of literature suggests that greens have positive effects on life satisfaction in general (Smyth et al., 2008; Ambrey and Fleming, 2012; White et al., 2013; Alcock et al., 2014; Bertram and Rehdanz, 2014).⁴ Specifically, the studies which are most closely related to this paper are White et al. (2013) and Bertram and Rehdanz (2014). Using panel data from the British Household Panel Study (BHPS) for the time period between 1991 and 2008 and cross-section data from the General Land Use Database (GLUD) for the year 2005, White et al. (2013) find that greens do not only have positive effects on the mental health of residents in England, but also on their life satisfaction. Using cross-section data from a web survey in the year 2012 and cross-section data from the European Urban Atlas (EUA) for the year 2006, Bertram and Rehdanz (2014) find that greens have positive effects on the life satisfaction of residents in Berlin. This stream of literature is incomplete for two reasons. Firstly, it is confined to a context outside of Germany and does not calculate distances and coverages, using geo-referenced data on households and urban land use, with the exception of Bertram and Rehdanz (2014). However, Bertram and Rehdanz (2014) investigate the effects of greens on residential well-being in Berlin only. Arguably, Berlin might be a special case in the sense that it has a higher share of greens when compared to other major German cities.⁵ Moreover, Bertram and Rehdanz (2014), leaving aside issues which are typically associated with web surveys, have only a small sample size and imprecise measures of the geographical locations of the places of residence of individuals. Secondly, it focuses almost exclusively on the positive effects of greens, neglecting the potentially positive effects of other types of urban green areas, such as forests and waters, and the potentially negative effects of abandoned areas on residential well-being. However, there is empirical evidence that greens which are perceived as unmanaged have negative effects on residential well-being due to fear of crime (Bixler and Floyd, 1997; Kuo et al., 1998). Arguably, similar effects might be found for abandoned areas.

³Intuitively, greens provide a number of public goods, all of which have positive effects on residential well-being by improving either mental or physical health, or both. Amongst others, they include the provision of room for recreation, relaxation, and outdoor activities; the provision of cultural services, such as experiencing and learning about nature; the provision of environmental regulation, such as storm water retention and climate regulation; the mediation of adverse environmental impacts, such as street noise and air pollution; and the provision of aesthetic benefits, such as the view onto greens themselves (Tzoulas et al., 2007).

⁴Alcock et al. (2014) are a spin-off of White et al. (2013), focusing on residents who move.

⁵Berlin is ranked 6 out of the 32 major German cities in the final sample in terms of coverage of greens (European Environment Agency, 2011; Federal Statistical Office, 2014).

This paper fills these gaps. It investigates the effects of urban green and abandoned areas on residential well-being in major German cities. Assume that $U_i(G, A)$ is a concave utility function, where G is the presence of urban green areas and A is the presence of abandoned areas in the surroundings of all residents *i*. Against the background of the literature, two hypotheses can be derived:

- H.1 On average, the presence of urban green and abandoned areas has non-zero effects on residential well-being for residents who live in their surroundings. That is, $\partial U_i/\partial G \neq 0$ and $\partial U_i/\partial A \neq 0$.
 - H.1.1 Specifically, the presence of urban green areas has positive effects on residential well-being for residents who live in their surroundings. That is, $\partial U_i/\partial G > 0$.
 - H.1.2 Specifically, the presence of abandoned areas has negative effects on residential well-being for residents who live in their surroundings. That is, $\partial U_i/\partial A < 0$.
- H.2 On average, the presence of urban green and abandoned areas has non-linear effects on residential well-being for residents who live in their surroundings. Specifically, the positive effects of urban green areas and the negative effects of abandoned areas are increasing in the respective area at a decreasing rate. That is, $\partial^2 U_i / \partial G^2 < 0$ and $\partial^2 U_i / \partial A^2 > 0$.

We also conjecture that the effects of urban green and abandoned areas on residential well-being are different for different types of residents. Specifically, we conjecture that the positive effects of urban green areas are stronger for residents who are female (Jorgensen et al., 2002), who are older (Jorgensen and Anthopoulou, 2007), who live in low-income households, and who have a child in the household (Ambrey and Fleming, 2012). Conversely, we conjecture that the negative effects of abandoned areas are stronger for the same types of residents.

3. Data

3.1. Data on Residential Well-Being

We use panel data from the German Socio-Economic Panel (SOEP) for the time period between 2000 and 2012. The SOEP is a comprehensive and representative panel study of private households in Germany, including almost 11,000 households and 22,000 individuals every year. It provides information on all household members, covering Germans living in the old and new federal states, foreigners, and recent immigrants (Wagner et al., 2007, 2008). Most importantly, it provides information on the geographical locations of the places of residence of individuals, allowing to merge data on residential well-being with data on urban green and abandoned areas through geographical coordinates.⁶ As such, the SOEP is not only representative of individuals living in Germany today, but also provides the necessary geographical reference points for our analysis.⁷

To investigate the effects of urban green and abandoned areas on residential well-being, we select a set of dependent variables which covers three important areas of individual well-being, including life satisfaction, as well as mental and physical health. Firstly, we select *satisfaction with life* as an indicator of life satisfaction in general. The indicator is obtained from an eleven-point single-item Likert scale which asks "How satisfied are you with your life, all things considered?".⁸ Secondly, we select the mental health summary scale, *mental health* in general, *role-emotional functioning*, *social functioning*, and *vitality* as indicators of mental health. Thirdly, we select the physical health summary scale, *bodily pain*, *role-physical functioning*, and *physical functioning* as indicators of physical health. The indicators of mental and physical health originate from the Short-Form (SF12v2) Health Survey, which has been incorporated into the SOEP in the years 2002, 2004, 2006, 2008, 2010, and 2012 (Nübling et al., 2007).⁹ The SF12v2 is a multi-purpose questionnaire on health-related quality of life. It provides generic as opposed to specific indicators and

⁶The SOEP provides the geographical coordinates of the places of residence of individuals at the street-block level, which is more accurate in an urban when compared to a rural area.

⁷The SOEP is subject to rigorous data protection regulation. It is never possible to derive the household data from the coordinates since they are never visible to the researcher at the same time. See Göbel and Pauer (2014) for more information.

⁸Conceptually, life satisfaction is equivalent to subjective well-being (Welsch and Kühling, 2009) or experienced utility (Kahnemann et al., 1997), being defined as the cognitive evaluation of the circumstances of life (Diener et al., 1999).

⁹Conceptually, the indicators of mental and physical health capture different dimensions of mental and physical health, respectively. For mental health, *mental health* in general and *vitality* are defined as the absence of mental disorder and mental fatigue, respectively, whereas *role-emotional functioning* and *social functioning* are defined as the extent to which individuals are capable of mastering work or other daily activities and social activities without being affected by emotional problems, respectively. For physical health, *bodily pain* is defined as the extent to which individuals are capable of mastering work or other daily activities and *physical functioning* are defined as the extent to which individuals are capable of mastering work or other daily activities and *physical functioning* are defined as the extent to which individuals are capable of mastering work or other daily activities and *physical functioning* are defined as the extent to which individuals are capable of mastering work or other daily activities and physical functioning are defined as the extent to which individuals are capable of mastering work or other daily activities and physical activities without being affected by physical pain, respectively. The mental and physical health summary scales allow differentiating the relative strengths of the respective indicators.

does not target a particular age, treatment group, or life event (Ware et al., 1995). As such, it is useful in screening individuals, comparing general and particular treatment groups, and comparing the relative burden of life events. Thereby, *mental health* in general, *role-emotional functioning*, *social functioning*, and *vitality* as indicators of mental health and bodily pain, *role-physical functioning*, and *physical functioning* as indicators of physical health are obtained from equally weighted five-point multi-item Likert scales, all of which are highly correlated with *satisfaction with life*, whereas the mental and physical health summary scales are obtained from combining the respective indicators with equal weights.¹⁰ Finally, we select the body-mass index as an additional indicator of physical health. Using life satisfaction serves as a proxy for residential well-being, while using the indicators of mental and physical health serves to identify and rank the transmission mechanisms through which urban green and abandoned areas actually affect residential well-being.

3.2. Data on Urban Green and Abandoned Areas

We use cross-section data from the European Urban Atlas (EUA) for the year 2006. The EUA is a comprehensive and comparative cross-section study of urban land use in Europe, including data on urban land use for 35 of 76 major German cities (European Environment Agency, 2011).¹¹ It provides information on different types of urban land use, covering different types of urban green areas, including greens, forests, and waters, and abandoned areas. Most importantly, it provides information on the geographical locations of urban green and abandoned areas, allowing again to merge data on urban green and abandoned areas with data on residential well-being through geographical coordinates.¹²

The definitions of urban green and abandoned areas are given in Table A.1.

Table A.1 about here

¹⁰The indicators of mental and physical health are normalised between 0 and 100. Moreover norm-based scoring, involving a t-score transformation with mean 50 and standard deviation 10, has been applied to make their interpretation easier.

¹¹We restrict the data to the 31 major German cities with greater or equal to 100,000 inhabitants to avoid confounding the effects of urban green and abandoned areas on residential well-being with those of urbanisation. The 31 major German cities with greater or equal 100,000 inhabitants are Augsburg, Berlin, Bielefeld, Bonn, Bremen, Darmstadt, Dresden, Düsseldorf, Erfurt, Essen, Frankfurt am Main, Freiburg im Breisgau, Göttingen, Halle an der Saale, Hamburg, Hannover, Karlsruhe, Kiel, Koblenz, Köln, Leipzig, Magdeburg, Mainz, Mönchengladbach, München, Nürnberg, Saarbrücken, Stuttgart, Trier, Wiesbaden, and Wuppertal. Although it has only 92,000 inhabitants, we also include the city of Schwerin to increase the size of the final sample.

¹²The EUA provides exact geographical coordinates of urban green and abandoned areas.

To investigate the effects of urban green and abandoned areas on residential well-being, we define a set of independent variables which includes the two most important determinants of access to them. Firstly, we define the *distance* to urban green and abandoned areas, measured as the Euclidean distance in 100 metres between households and the border of the nearest urban green and abandoned area, respectively. Secondly, we define the *coverage* of urban green and abandoned areas, measured as the hectares covered by urban green and abandoned areas in a pre-defined buffer area of 1,000 metres around households, respectively. Using both distances and coverages serves as a robustness check, given that distances do not make any assumptions, contrary to coverages.

3.3. Merge

We merge the data on residential well-being with the data on urban green and abandoned areas in two steps. Firstly, we convert the geographical coordinates of the places of residence of individuals in the SOEP and the geographical coordinates of the urban green and abandoned areas in the EUA into a common coordinate system. Secondly, we merge the data on residential well-being with the data on urban green and abandoned areas, having calculated both distances and coverages, using a Geographical Information System (GIS).¹³ Finally, we add controls at the micro level, originating from the SOEP, at the macro level, originating from the Federal Statistical Office, and at the geo level, originating from our own calculations, all of which have been shown to affect the dependent variables in the literature.¹⁴ The controls at the micro level include demographic characteristics, human capital characteristics, and economic conditions at the individual level, as well as household characteristics and housing conditions at the household level. The controls at the macro level include macroeconomic conditions and neighbourhood characteristics at the county level. The controls at the geo level include the distance to the city centre and the distance to the city periphery at the municipal level.¹⁵

The descriptive statistics of the final sample are given in Table A.2.

Table A.2 about here

¹³Intuitively, this introduces measurement error as the data on urban green and abandoned areas are cross-section data and the data on residential well-being are panel data, implying that single-year observations of urban green and abandoned areas are assigned to multiple-year observations of residential well-being. However, the bias resulting from this measurement error is minor in practice as the presence of urban green and abandoned areas is rather persistent over time.

 $^{^{14}}$ See Frey (2010) for a review of the relevant controls.

¹⁵The city centre is defined as the geographical location of the town hall.

4. Empirical Model

We employ a linear regression model estimated by generalised least squares (GLS) with fixed effects and robust standard errors which are clustered at the city level to investigate the effects of urban green and abandoned areas on residential well-being. Typically, the estimation of the effects of urban green and abandoned areas on residential well-being is prone to the problem of endogeneity, which leads to biased and inconsistent parameter estimates.

The problem of endogeneity arises whenever there are individual characteristics which are not observable and therewith not includable in the regression equation although they affect the regressand. As such, the problem of endogeneity leads to biased and inconsistent parameter estimates as the regressors are correlated with the error terms. For example, in the given context, there might be two types of endogeneity, both of which resulting from the self-selection of residents into particular urban areas, commonly referred to as *endogenous residential sorting*, and leading to reverse causality. Firstly, residents who have higher preferences for particular types of urban land use might have already moved to particular urban areas with lower distance to or higher coverage of them, et vice versa, which has made them better off, prior to the observation period. We can account for this type of endogeneity, commonly referred to as *unobserved heterogeneity*, given that the data on residential well-being are panel data, including more than one observation for each individual over time. As such, we can account for unobserved heterogeneity of residents by including individual fixed effects. Moreover, we can account for unobserved heterogeneity of cities by including city fixed effects. However, this comes at the cost that discrete models, which assume ordinality, are not easily applicable to panel data, so that continuous linear models, which assume cardinality, are preferred in practice. In fact, this introduces measurement error as satisfaction with life and the other dependent variables are discrete dependent variables, which are censored from above and below. However, the bias resulting from this measurement error has been found to be minor in practice (see, for example, Ferrer-i Carbonell and Frijters (2004) for panel data and Brereton et al. (2008) and Ferreira and Moro (2010) for repeated cross-section data). Secondly, residents who have higher preferences for particular types of urban land use might still move to particular urban areas with lower distance to or higher coverage of them, et vice versa, which makes them better off, during the observation period. Unfortunately, we cannot account for this type of endogeneity, commonly referred to as *simultaneity*, given that the data on urban green and abandoned areas are cross-section data, including only one observation for each urban green and abandoned area over time. In fact, as estimation requires variation, we rely on residents who move from one urban area to another in order to provide variation in and therewith identify the effects of urban green and abandoned areas on residential well-being.¹⁶ However, the bias resulting from simultaneity has been found to be minor in practice (Chay and Greenstone, 2005). Moreover, we obtain results jointly for all residents, as well as separately for residents who move and residents who do not move as a robustness check.

We test whether fixed or random effects are present, using the simple specification test by Wu (1973) and Hausman (1978), which tests whether the differences in parameter estimates between two auxiliary regressions that are estimated by fixed effects and random effects, respectively, are significant. We confirm the presence of fixed effects, using not only this simple specification test, but also the robust version of this test by Wooldridge (2002), which does not assume that random effects are fully efficient and which works better with robust standard errors.¹⁷

We employ the following regression equation:

$$y_{it} = \beta_0 + \mathbf{MIC'_{it}}\beta_1 + \mathbf{MAC'_{it}}\beta_2 + \mathbf{GEO'_{it}}\beta_3 + \delta_1 measure_{it} + \delta_2 measure_{it}^2 + \eta_c + \mu_i + \epsilon_{it}$$

where y is satisfaction with life or any other dependent variable as the regressand; β_0 is the constant; $\beta_1 - \beta_3$ and $\delta_1 - \delta_2$ are the coefficients; MIC, MAC, and GEO are the vectors of controls at the micro level, macro level, and geo level, respectively; η_c and μ_i are time-invariant unobserved heterogeneity or fixed effects at the city level and individual level, respectively; ϵ_{it} is the idiosyncratic disturbance of resident *i* in time period *t*; and measure is either the distance to or the coverage of urban green and abandoned areas, respectively, as the regressor of interest.

¹⁶Notably, even if the data on urban green and abandoned areas were panel data, it would be difficult to account for simultaneity as this would require *exogenous variation* in urban green and abandoned areas. However, it is difficult to think of any exogenous variation which directly affects the presence of urban green and abandoned areas without indirectly affecting residential well-being. To our knowledge, there exists no exogenous variation, like the passage of a law, which is binding in the sense that it actually affects the presence of urban green and abandoned areas without being comprehensive in the sense that it also affects residential well-being in various other ways.

¹⁷We reject the null hypothesis that the differences in parameter estimates between two auxiliary regressions which are estimated by fixed effects and random effects, respectively, are not systematic at the 1% level, using the simple specification test by Wu (1973) and Hausman (1978) and the robust version of this test by Wooldridge (2002). In fact, the empirical values 720.32 and 894.27 exceed by far the critical value 56.06 of the χ^2 -distribution with 34 degrees of freedom. As such, the regressors are correlated with the error terms. Thus, the estimation with fixed effects is strictly preferable to the estimation with random effects.

5. Results

The effects of the distances to and the coverages of urban green and abandoned areas on life satisfaction can be seen in Tables B.1 and B.2, respectively. In Tables B.1 and B.2, the first two columns are estimated by pooled ordinary-least-squares (OLS) estimators, whereas the last two columns are estimated by fixed-effects (FE) estimators, with and without controls, respectively. Thereby, comparing the first with the second column and the third with the fourth column gives insight into the importance of controlling for observables, whereas comparing the first with the third column and the second with the fourth column gives insight into the importance of controlling for unobservables. As can be seen, controlling for both observables and unobservables is important for the estimation of the effects of the distances to and the coverages of greens. Therefore, the fixed-effects model with controls is taken as the baseline specification.¹⁸

Tables B.1 and B.2 about here

As can be seen in Table B.1, the distance to greens has a significantly negative effect on life satisfaction at the 1% level, whereas the distance to abandoned areas has a significantly positive effect on it at the same level. Moreover, both effects are non-linear. That is, increasing the distance to greens significantly decreases life satisfaction, whereas increasing the distance to abandoned areas significantly increases it, at a decreasing rate, respectively. However, both effects are small. That is, increasing the distance to greens by 100 metres, given a mean distance to greens of 279 metres, decreases life satisfaction only by 1% of a standard deviation, whereas increasing the distance to abandoned areas by 100 metres, given a mean distance to abandoned areas of 961 metres, increases it only by 2% of a standard deviation, compared to a 29% drop in life satisfaction when becoming unemployed. As can be seen in Table B.2, the same pictures arises when looking at the effects of the coverages of greens and abandoned areas on life satisfaction. However, the sizes of

¹⁸As has been reported elsewhere, having very good health has a significantly positive effect on life satisfaction at the 1% level, whereas being older, having very bad health, and being disabled has a significantly negative effect at the 5% and 1% level, respectively. Moreover, being on parental leave has a significantly positive effect on life satisfaction at the 1% level, whereas individual income and household income has a significantly positive effect at the 5% and 1% level, respectively. Finally, being unemployed and the unemployment rate are most detrimental to life satisfaction and amongst the largest regression coefficients (Clark and Oswald, 2004; Blanchflower, 2008).

these effects are slightly different. That is, increasing the coverage of greens by one hectare, given a mean coverage of greens of 23 hectares, increases life satisfaction by 0.4% of a standard deviation, whereas increasing the coverage of abandoned areas by one hectare, given a mean coverage of abandoned areas of 1 hectare, decreases it by 2% of a standard deviation. To sum up, the presence of urban green and abandoned areas has, on average, non-zero effects on residential well-being for residents who live in their surroundings. In fact, greens matter for life satisfaction, but abandoned areas matter more, whereas forests and waters do not matter much. This largely confirms Hypothesis H.1. Moreover, the presence of urban green areas has positive effects on residential well-being for residents who live in their surroundings, whereas the presence of abandoned areas has negative effects on it. In fact, greens raise life satisfaction, whereas abandoned areas reduce it. This confirms Hypotheses H.1.1 and H.1.2. Finally, the presence of urban green and abandoned areas has, on average, non-linear effects on residential well-being for residents who live in their surroundings. Specifically, the positive effects of urban green areas and the negative effects of abandoned areas are increasing at a decreasing rate in the respective area. In fact, greens raise life satisfaction, whereas abandoned areas reduce it, at a decreasing rate, respectively, which is in line with the notion of diminishing marginal returns to utility or disutility in neoclassical utility theory.¹⁹ This confirms Hypothesis H.2.

Up to now, the effects of the distances to and the coverages of urban green and abandoned areas on life satisfaction were estimated jointly for all residents. In Tables B.3 and B.4, they are estimated separately for residents who move, using fixed-effects (FE) estimators, and residents who do not move, using pooled ordinary-least-squares (OLS) estimators.²⁰ Thereby, comparing residents who move with residents who do not move gives insight into the significance of bias resulting from simultaneity. In Tables B.5 and B.6, they are estimated separately for different types of residents, including residents who are female, who are older, who live in low-income households, and who have a child in the household, using the baseline specification. Thereby, comparing different types of residents gives insight into the relative significance of the effects of the distances to and the coverages of urban green and abandoned areas on life satisfaction for different population groups.

Tables B.3 and B.4 about here

 $^{^{19}}$ However, the effects of the squared distance to greens and the squared coverage of abandoned areas are significant at the 10% level only in the baseline specification.

²⁰Unfortunately, we have to resort to pooled ordinary-least-squares (OLS) estimators as there is no variation in urban green and abandoned areas over time.

As can be seen in Tables B.3 and B.4, the effects of the distances to greens and abandoned areas and the effect of the coverage of abandoned areas on life satisfaction are almost identical to the effects identified in the baseline specification, regardless of whether they are estimated for residents who move or residents who do not move, with the exception of the effect of the coverage of greens, which becomes insignificant when estimated for residents who do not move.²¹ To sum up, it seems that, although we cannot claim that the effects identified in the baseline specification are causal, bias resulting from simultaneity plays a minor role.

Tables B.5 and B.6 about here

As can be seen in Tables B.5 and B.6, the effects of the distances to and the coverages of greens and abandoned areas on life satisfaction are stronger for residents who are older, whereas the effects of abandoned areas are stronger for residents who live in high-income households and residents who do not have a child in the household. Moreover, there is some evidence that the effects are stronger for residents who are male. To sum up, it seems that, although the evidence is partly different from what we expected, the significance of the effects is different for different population groups. In fact, it seems that small effects for average residents translate into substantial effects for older residents, being up to five times more sizeable. Specifically, increasing the distance to greens by 100 metres, given a mean distance to greens of 277 metres, decreases life satisfaction for residents who are older by 10% of a standard deviation, whereas increasing the distance to abandoned areas by 100 metres, given a mean distance to abandoned areas of 967 metres, increases it by 4% of a standard deviation, compared to a 28% drop in life satisfaction when becoming unemployed. As such, the sizes of the effects for older residents can account for up to a third of the size of the effect of becoming unemployed.

How do urban green and abandoned areas actually affect residential well-being? To answer this question, we replace the indicator of life satisfaction as a proxy for residential well-being with indicators of mental and physical health to identify and rank potential transmission mechanisms. Tables B.7 and B.8 use indicators of mental health, whereas Tables B.9 and B.10 use indicators of physical health.

Tables B.7, B.8, B.9, and B.10 about here

 $^{^{21}}$ Notably, the effects identified in the baseline specification remain unchanged when controlling for residents who move by including a dummy variable.

As can be seen in Tables B.7 and B.8, the distance to abandoned areas has a significantly positive effect on *social functioning* at the 1% level, whereas the coverage of abandoned areas has a significantly negative effect on almost all indicators at the 1% and 5% level, respectively, with the effect on *social functioning* being the strongest. Contrarily, the coverage of greens has a significantly positive effect on social functioning at the 5% level. As can be seen in Tables B.9 and B.10, the distance to abandoned areas has a significantly positive effect on *physical functioning* at the 1% level, whereas the coverage of abandoned areas has a significantly negative effect on it at the 5% level, while decreasing the body-mass index, which is unexpected. Contrarily, the distance to greens has a significantly negative effect on the body-mass index at the 1% level, thus increasing the body-mass index, whereas the coverage of greens has a significantly positive effect on *bodily pain* at the 5% level, thus decreasing bodily pain. To sum up, it seems that greens and abandoned areas affect residential well-being by affecting both mental and physical health. Specifically, it seems that greens raise social functioning, whereas abandoned areas reduce it, being detrimental to mental health in various other ways as well. Moreover, it seems that greens reduce bodily pain, whereas abandoned areas reduce physical functioning.

Using data from the Berlin Aging Study II (BASE-II) for the time period between 2009 and 2012, we explore whether there is a difference between subjective and objective access to greens and whether residents who report living closer to them have been diagnosed less often with certain medical conditions. The BASE-II is a comprehensive study of private households in Berlin (Bertram et al., 2014).²² However, it is not representative of the entire population in Berlin as it includes mostly residents who are older (aged 60 or older). As a control group, residents aged 20 to 35 are also included. Nevertheless, the BASE-II is interesting for two reasons. Firstly, it includes an indicator of subjective access to greens. Up to now, we used objective and objective access to greens. Moreover, this serves as a robustness check as subjective indicators say something about perceived quality, whereas objective indicators do not.²³ Secondly, it includes indicators of medical conditions. Up to now, we used abstract mental and physical health indicators. It is interesting to explore whether these indicators translate into concrete medical conditions.

²²The BASE-II includes a survey module which uses a questionnaire that is almost identical to the questionnaire used in the SOEP (Wagner et al., 2007, 2008). It is supported by the Federal Ministry of Education and Research (Bundesministerium für Bildung und Forschung, BMBF) under grants #16SV5536K, #16SV5538, and #16SV5837 (previously grant #01UW0808).

²³The EUA does not provide information on quality of urban green and abandoned areas.

Tables B.11 and B.12 show the effects of subjective access to greens on life satisfaction and the likelihood to have been diagnosed with certain medical conditions, respectively, using the same model specifications and variable definitions as in the baseline specification.²⁴

Tables B.11 and B.12 about here

As can be seen in Table B.11, subjective access to greens has a significantly positive effect on life satisfaction at the 1% level for the categories Access to Greens Below 10 Minutes and Access to Greens Between 10 to 20 Minutes and at the 5% level for the category Access to Greens Above 20 Minutes, relative to the base category Unreachable. Moreover, the effects become more sizeable the better the access. As such, residents who report living closer to greens also report a higher life satisfaction.²⁵ As can be seen in Table B.12, subjective access to greens has a significantly negative effect on the likelihood to have been diagnosed with diabetes and sleep disorder at the 1% level and joint disease at the 5% level for the category Access to Greens Below 10 Minutes, relative to the base category Unreachable.²⁶ Again, the effects become more sizeable the better the access, with the exception of cardiac disease, which goes into the opposite direction. In fact, residents who report living in the category Access to Greens Below 10 Minutes are 14, 11, and 15 percentage points less likely to have been diagnosed with diabetes, sleep disorder, and joint disease, respectively.²⁷ To sum up, it seems that there is no difference between subjective and objective access to greens and that the abstract mental and physical health indicators do translate into concrete medical conditions, at least for residents who are older.

²⁴Unfortunately, we have to resort to pooled ordinary-least-squares (OLS) estimators as there is insufficient variation in subjective access to greens over time. Moreover, we have to resort to robust standard errors which are clustered at the household level as there is only one city.

²⁵The indicator of subjective access to greens is obtained from a four-point single-item Likert scale which asks "How long does it take you to walk to greens in your area?" with answer options *Below 10 Minutes, Between 10 to 20 Minutes, Above 20 Minutes, and Unreachable.*

²⁶The indicators of medical conditions are obtained from a binary item which asks "Has a doctor ever diagnosed you with one or more of the following medical conditions?" with answer options *Hypertension, Cardiac Disease, Stroke, Diabetes, Cancer, Joint Disease, Back Complaint, Sleep Disorder,* and many more.

²⁷Notably, the effects remain unchanged when using the marginal effects of binary probit or logit regression models instead of using linear regression models.

It is possible to quantify the effects of the distances to and the coverages of urban green and abandoned areas on life satisfaction monetarily, using the life satisfaction approach. Compared to both stated and revealed preference approaches, the life satisfaction approach has a number of advantages when quantifying the effects of public goods monetarily. Compared to stated preference approaches, it avoids bias resulting from the complexity of or attitudes towards the public good to be valued, which leads to superficial or symbolic valuation. Rather than asking individuals to value a complex public good in a hypothetical situation, the life satisfaction approach does not rely on the ability of individuals to consider all relevant consequences of a change in the provision of the public good, reducing the cognitive burden which is typically associated with stated preference approaches. Moreover, it does not reveal to individuals the relationship between life satisfaction and the public good to be valued, reducing the incentive to answer in a strategical or socially desirable way. Contrary to revealed preference approaches, it avoids bias resulting from the assumption that the market for the private good taken to be the complement of the public good to be valued is in equilibrium, which is violated in the presence of low variety of private goods. Rather than assuming that the provision of the public good to be valued is reflected in market transitions, the life satisfaction approach requires only that life satisfaction constitutes a valid approximation of welfare. Finally, it avoids bias resulting from misprediction of utility (Frey and Stutzer, 2013).

We can calculate the marginal willingness-to-pay (MWTP) of residents in order to decrease the distance to and increase the coverage of greens, as well as increase the distance to and decrease the coverage of abandoned areas, in their surroundings, using the following formula:²⁸

$$MWTP = \frac{\frac{\partial y}{\partial measure}}{\frac{\partial y}{\partial income_h} + \frac{\partial y}{\partial income_i}} \bigg|_{\partial y=0} = \frac{\bar{X}_{income_h}\bar{X}_{income_i}(\hat{\beta}_{measure} + 2\hat{\beta}_{measure^2}\bar{X}_{measure})}{\hat{\beta}_{income_h}\bar{X}_{income_i} + \hat{\beta}_{income_i}\bar{X}_{income_h}}$$

where y is satisfaction with life as the regressand; \bar{X} is the respective mean; $\hat{\beta}$ is the respective regression coefficient; measure is either the distance to or the coverage of greens and abandoned areas, respectively; and income_h and income_i is the monthly net household income and individual income, respectively.

²⁸Notably, we include both household and individual income in the formula as we include both of them in the baseline specification. Both household and individual income approximate the value individuals assign to income. As such, omitting one of them leads to bias and inconsistency.

We find that, ceteris paribus, residents are, on average, willing to pay 23 Euro of monthly net individual income in order to increase the coverage of greens in a pre-defined buffer area of 1,000 metres around households by one hectare, given a mean coverage of greens of 23 hectares, whereas they are, on average, willing to pay 442 Euro to decrease the coverage of abandoned areas by one hectare, given a mean coverage of abandoned areas of one hectare. Moreover, we find that, ceteris paribus, residents are, on average, willing to pay 455 Euro of monthly net individual income in order to decrease the distance between households and greens by 100 metres, given a mean distance to greens of 279 metres, whereas they are, on average, willing to pay 96 Euro to increase the distance between households and abandoned areas by 100 metres, given a mean distance to abandoned areas of 961 metres.²⁹

We can also calculate the optimal values of the distances to and the coverages of greens and abandoned areas, using the following formula:³⁰

$$X_{measure}^* = -\frac{\hat{\beta}_{measure}}{2\hat{\beta}_{measure^2}}$$

where X^* is the respective optimal value; $\hat{\beta}$ is the respective regression coefficient; and *measure* is either the *distance* to or the *coverage* of greens and abandoned areas, respectively.

We find that, ceteris paribus, the optimal value of the coverage of greens in a pre-defined buffer area of 1,000 metres around households is, on average, 33 hectares, whereas the optimal value of the coverage of abandoned areas is, on average, zero hectares. Moreover, we find that, ceteris paribus, the optimal value of the distance between households and greens is, on average, zero metres, whereas it is, on average, 1,439 metres for abandoned areas.³¹

Figures B.1, B.2, B.3, and B.4 about here

 $^{^{29}}$ To provide more conservative calculations, we assume that the effects of the squared coverage of abandoned areas and the squared distance to greens on life satisfaction, which are significant at the 10% level only in the baseline specification, are insignificant.

³⁰Notably, the values are optimal in the sense that they maximise life satisfaction.

³¹The optimal values of zero for the coverage of abandoned areas and the distance to greens derive from the assumption that the effects of the squared coverage of abandoned areas and the squared distance to greens on life satisfaction are insignificant.

The intuition behind the optimal values of zero hectares and metres, respectively, for the coverage of abandoned areas and for the distance to greens is straightforward: the life satisfaction of residents is maximised, everything else held constant, whenever there are no abandoned areas in their immediate surroundings and whenever they live closest to the nearest green.

6. Discussion

Our results confirm the results of similar studies. White et al. (2013) show that greens do not only have positive effects on the mental health of residents in England, but also on their life satisfaction. Bertram and Rehdanz (2014) find that greens have positive effects on the life satisfaction of residents in Berlin. However, besides the fact that neither study investigates the effects of abandoned areas on residential well-being, there are important differences between those studies and ours.

White et al. (2013), using panel data from the British Household Panel Study (BHPS), adopt a similar approach in terms of the empirical model, especially when it comes to using fixed-effects (FE) estimators, but, using cross-section data from the General Land Use Database (GLUD), adopt a different approach in terms of the data on urban land use. In fact, their data are based on aggregated areas, which are, in turn, based on population densities. As a result, these areas differ from each other in size and shape, implying that more densely populated areas are smaller than less densely populated ones, et vice versa. On the contrary, our data are based on pre-defined buffer areas, which are, in turn, based on pre-defined radii. As a result, these areas are equal to each other in size and shape. Moreover, they are free from methodological issues which naturally arise when aggregating geographical information. This is a strong advantage, especially when considering the geographical location and mobility of households.³² Nevertheless, White et al. (2013), like us, have only cross-section data on urban land use, essentially relying on residents who move from one urban area to another in order to provide variation in and therewith identify the effects of greens on residential well-being. As a result, White et al. (2013), like us, cannot account for the problem of simultaneity and therewith cannot claim that the effects identified are causal. However, the problem of simultaneity has been found to be minor elsewhere and here.

³²Intuitively, our data on urban land use are not entirely free of methodological issues themselves. For example, they only include objects of a minimum size of 0.25 hectares. In fact, this introduces measurement error as the accumulation of objects of smaller sizes is neglected, which is problematic in case that buffer areas are large. However, the bias resulting from this measurement error is minor as the pre-defined buffer area of 1,000 metres around households is rather small.

Bertram and Rehdanz (2014), using cross-section data from the European Urban Atlas (EUA), adopt a similar approach in terms of the data on urban land use, especially when it comes to using distances to and coverages of greens, but, using cross-section data from a web survey, adopt a different approach in terms of the empirical model. In fact, their empirical model can neither account for the problem of simultaneity nor for the problem of unobserved heterogeneity among residents. However, the latter has been found to be important in studies of life satisfaction, especially in those that argue in favour of set points of life satisfaction.³³

For urban planning and development, we can calculate the net well-being benefit in pecuniary terms which arises, on average, when increasing the coverage of greens in a pre-defined buffer area of 1,000 metres around households by one hectare, especially when considering that there is, on average, an under-supply of greens, given that the mean and optimal value is 23 and 33 hectares, respectively. We know that the gross well-being benefit in pecuniary terms which arises, on average, when increasing the coverage of greens in a pre-defined buffer area of 1,000 metres around households by one hectare is 933,647 Euro annually.³⁴ The costs for the construction and maintenance of greens differ between cities and neighbourhoods depending on the type of facilities and intensity of usage. We take Berlin as an example. The average construction costs of greens range from 5 Euro per square metre for greens located near the city periphery, with average quality and no particular infrastructure, to 201 Euro per square metre for greens located near the city centre, with high quality and

³³Although Bertram and Rehdanz (2014) can neither account for the problem of simultaneity nor for the problem of unobserved heterogeneity among residents, their arrive at a similar marginal willingness-to-pay (MWTP) of residents in order to increase the coverage of greens. We find that, ceteris paribus, residents are, on average, willing to pay 23 Euro of monthly net individual income in order to increase the coverage of greens in a pre-defined buffer area of 1,000 metres around households by one hectare, which is almost equal to the 25 Euro calculated by Bertram and Rehdanz (2014) and much less than the 1,806 Euro calculated by Ambrey and Fleming (2012), converted with an exchange rate of 1,5130 EUR/AUD, as of December 12, 2014.

³⁴We can calculate the gross well-being benefit in pecuniary terms which arises, on average, when increasing the coverage of greens in a pre-defined buffer area of 1,000 metres around households by one hectare, using the following thought experiment: We describe a circle around a new green of one hectare size such that all households within this circle have the new green in a pre-defined buffer area of 1,000 metres around them. We know that residents are, on average, willing to pay 23 Euro of monthly net individual income in order to increase the coverage of greens in a pre-defined buffer area of 1,000 metres around households by one hectare. We know that the average household size is 1.8 and the average population density is 2,177 individuals per square metre, yielding 6,089 individuals within the circle around the new green of one hectare size. We obtain the gross well-being benefit in pecuniary terms as $(12 \times 23 \times 6,089)/1.8 = 933,647$. See Figure C.5 for an illustration.

cost-intensive infrastructure, yielding average construction costs for an additional hectare of green between 3,333 and 134,000 Euro annually (Senate Department for Urban Development and the Environment, 2010). The average maintenance costs of greens range from 2 Euro annually per square metre for greens with no particular infrastructure to 7 Euro annually per square metre for greens with cost-intensive infrastructure, yielding average maintenance costs for an additional hectare of green between 20,000 and 70,000 Euro annually (Senate Department of Finance, 2013). The average life span of greens is 15 years, after which major reinvestments become necessary. As such, the average total costs for an additional hectare of green range between 23,333 and 204,000 Euro annually. Thus, the net well-being benefit in pecuniary terms which arises, on average, when increasing the coverage of greens in a pre-defined buffer area of 1,000 metres around households by one hectare ranges between 729,647 and 910,314 Euro annually.

7. Conclusion

This paper investigated the effects of urban green and abandoned areas on residential well-being in major German cities, using panel data from the German Socio-Economic Panel (SOEP) for the time period between 2000 and 2012 and cross-section data from the European Urban Atlas (EUA) for the year 2006. It showed that, for the 32 major German cities with more than 100,000 inhabitants, access to greens matters for residential well-being, but access to abandoned areas matters more, whereas access to forests and waters does not matter much.³⁵ In fact, coverage of and even more proximity to greens is significantly positively associated, whereas proximity to and even more coverage of abandoned areas is significantly negatively associated with life satisfaction, both of which is diminishing in the amount of the respective area, whereby mental and physical health, in particular social functioning, bodily pain, and physical functioning, are important transmission mechanisms. The effects are strongest for residents who are older, accounting for up to a third of the size of the effect of being unemployed on life satisfaction.

Using data from the Berlin Aging Study II (BASE-II) for the time period between 2009 and 2012, this paper also showed that there is no systematic difference between subjective and objective access to greens and that (older) residents who report living closer to greens have been diagnosed significantly less often with certain medical conditions, including diabetes, sleep disorder, and joint disease.

³⁵We also find that access to greens and abandoned areas matters more in cities with lower shares of greens and abandoned areas, respectively, et vice versa. The results are available on request.

Although this paper is the most extensive study of the effects of urban green and abandoned areas on residential well-being in Germany so far, there is a lot of room for further research. Specifically, further research should be directed towards establishing the causality of these effects, possibly by exploiting novel panel data sets on and exogenous variations in urban green and abandoned area which might be available in the future. Moreover, further research should be directed towards incorporating the role that quality of urban green and abandoned area plays for residential well-being. Taken together, the spatial analysis of the relationship between urban land use and residential well-being therefore remains a promising field of research.

Acknowledgements

Henry Wüstemann gratefully acknowledges funding by the Federal Agency for Nature Conservation. Jens Kolbe gratefully acknowledges funding by the German Research Foundation (DFG, CRC 649 Economic Risk). The views and findings of this paper are those of the authors and do not reflect the official positions of the Federal Agency for Nature Conservation and the DFG. We are grateful to Jan Göbel and Peter Eibich at DIW Berlin for continuous support with the SOEP and the BASE-II, respectively, and Gert G. Wagner for comments. All remaining errors are our own.

- Abkar, M., M. Kamal, M. Mariapan, S. Maulan, and M. Sheybani (2010). The Role of Urban Green Spaces in Mood Change. Australian Journal of Basic and Applied Sciences 4 (10), 5352–5361.
- Agyemang, C., C. van Hooijdonk, W. Wendel-Vos, E. Lindeman, K. Stronks, and M. Droomers (2007). The Association of Neighbourhood Psycho-Social Stressors and Self-Rated Health in Amsterdan, the Netherlands. *Journal of Epidemiology* and Community Health 61(12), 1042–1049.
- Alcock, I., M. P. White, B. W. Wheeler, L. E. Fleming, and M. H. Depledge (2014). Longitudinal Effects on Mental Health of Moving to Greener and Less Greener Urban Areas. *Environmental Science and Technology* 48(2), 1247–1255.
- Ambrey, C. L. and C. M. Fleming (2012). Public Green Space and Life Satisfaction in Urban Australia. Contributed Paper Prepared for Presentation at the 56th AARES Annual Conference, Fremantle, Western Australia.
- Annerstedt, M., P. O. Ostergren, J. Björk, P. Grahn, E. Skärbäck, and G. Währborg (2012). Green Qualities in the Neighbourhood and Mental Health: Results From a Longitudinal Cohort Study in Southern Sweden. *BMC Public Health* 12, 337.
- Arranz, L., N. Guayerbas, and M. de la Fuente (2007). Impairment of Several Immune Functions in Anxious Women. Journal of Psychosomatic Research 62(1), 1–8.
- Berman, M. G., J. Jonides, and S. Kaplan (2008). The Cognitive Benefits of Interacting With Nature. Psychological Science 19(12), 1207–1212.
- Bertram, C. and K. Rehdanz (2014). The Role of Urban Green Space for Human Well-Being. *IfW Working Paper 1911*.
- Bertram, L., A. Böckenhoff, I. Demuth, S. Düzel, R. Eckardt, S.-C. Li, U. Lindenberger, G. Pawelec, T. Siedler, G. G. Wagner, and E. Steinhagen-Thiessen (2014). Cohort Profile: The Berlin Aging Study II (BASE-II). International Journal of Epidemiology 43(3), 703–712.
- Bixler, R. D. and M. F. Floyd (1997). Nature is Scary, Disgusting, and Uncomfortable. *Environment and Behavior* 29(4), 443–467.
- Blanchflower, D. G. (2008). International Evidence on Well-Being. IZA Discussion Paper 3354.

- Bowler, D. E., M. B.-A. Lisette, T. M. Knight, and A. S. Pullin (2010). A Systematic Review of Evidence for the Added Benefits to Health of Exposure to Natural Environments. *BMC Public Health* 10, 456.
- Brereton, F., J. P. Clinch, and S. Ferreira (2008). Happiness, Geography, and the Environment. *Ecological Economics* 65(2), 386–396.
- Carmona, M., T. Heath, T. Oc, and S. Tiesdell (2003). *Public Places, Urban Spaces: The Dimensions of Urban Design.* Architectural Press.
- Chay, K. Y. and M. Greenstone (2005). Does Air Quality Matter? Evidence From the Housing Market. *Journal of Political Economy* 113(2), 376–424.
- Clark, A. E. and A. J. Oswald (2004). Unhappiness and Unemployment. *Economic Journal* 104 (424), 648–659.
- Coon, J. T., K. Boddy, K. Stein, R. Whear, J. Barton, and M. H. Depledge (2011). Does Participating in Physical Activity in Outdoor Natural Environments Have a Greater Effect on Physical and Mental Well-Being Than Physical Activity Indoors? A Systematic Review. *Environmental Science and Technology* 45(5), 1761–1772.
- Cornelis, J. and M. Hermy (2004). Biodiversity Relationships in Urban and Suburban Parks in Flanders. Landscape and Urban Planning 69(4), 385–401.
- de Vries, S., R. A. Verheij, P. P. Groenewegen, and P. Spreeuwenberg (2003). Natural Environments – Healthy Environments? An Exploratory Analysis of the Relationship Between Green Space and Health. *Environment and Planning* 35(10), 1717–1731.
- Diener, E., E. M. Suh, R. E. Lucas, and H. L. Smith (1999). Subjective Well-Being: Three Decades of Progress. *Psychological Bulletin* 125(2), 276–302.
- Elsasser, P. (1999). Recreational Benefits of Forests in Germany. In C. S. Roper and A. Park (Eds.), *The Living Forest: Non-Market Benefits of Forestry*. The Stationary Office.
- European Commission (2013). Building a Green Infrastructure for Europe. Publications Office of the European Union.
- European Environment Agency (2011). *Mapping Guide for a European Urban Atlas*. European Environment Agency.

- Evans, G. W. (2003). The Built Environment and Health. Journal of Urban Health 80(4), 536–555.
- Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety (2007). *National Strategy on Biological Diversity*. Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety.

Federal Statistical Office (2014). Genesis-Online.

- Ferreira, S. and M. Moro (2010). On the use of Subjective Well-Being Data for Environmental Valuation. *Environmental and Resource Economics* 46(3), 249–273.
- Ferrer-i Carbonell, A. and P. Frijters (2004). How Important is Methodology for the Estimates of the Determinants of Happiness. *Economic Journal* 114(497), 641–659.
- Frey, B., S. Lüchinger, and A. Stutzer (2004). Valuing Public Goods: The Life Satisfaction Approach. University of Zurich Institute for Empirical Research in Economics Working Paper Series (184).
- Frey, B. and A. Stutzer (2013). Economic Consequences of Mispredicting Utility. SOEPpapers on Multidisciplinary Panel Data Research (564).
- Frey, B. S. (2010). *Happiness: A Revolution in Economics*. The MIT Press.
- Göbel, J. and B. Pauer (2014). Datenschutzkonzept zur Nutzung von SOEPgeo im Forschungsdatenzentrum SOEP am DIW Berlin. Zeitschrift für amtliche Statistik Berlin-Brandenburg 3, 42–47.
- Gidlöf-Gunnarsson, A. and E. Ohrström (2007). Noise and Well-Being in Urban Residential Environments: The Potential Role of Perceived Availability to Nearby Green Space. Landscape and Urban Planning 83(2–3), 115–126.
- Grahn, P. and U. A. Stigsdotter (2003). Landscape Planning and Stress. Urban Forestry and Urban Greening 2(1), 1–18.
- Guite, H. F., C. Clark, and G. Ackrill (2006). The Impact of the Physical and Urban Environment on Mental Well-Being. *Public Health* 120(12), 1117–1126.
- Hartig, T., G. W. Evans, L. D. Jammer, D. S. Davis, and T. Gärling (2003). Tracking Restoration in Natural and Urban Settings. *Journal of Environmental Psychology* 23(2), 109–123.

- Hausman, J. A. (1978). Specification Tests in Econometrics. *Econometrica* 46(6), 1251–1271.
- Hillsdon, M., A. Jones, and E. Coombes (2011). Green Space Access, Green Space use, Physical Activity and Overweight. *Natural England Commissioned Reports* 67.
- Hull, R. B. I. (1992). Brief Encounters With Urban Forests Produce Moods That Matter. Journal of Arboriculture 18(6), 322–324.
- Jorgensen, A. and A. Anthopoulou (2007). Enjoyment and Fear in Urban Woodlands: Does Age Make a Difference? Urban Forestry and Urban Greening 6(4), 267–278.
- Jorgensen, A., J. Hitchmough, and T. Calvert (2002). Woodland Spaces and Edges: Their Impact on Perception of Safety and Preference. Landscape and Urban Planning 60(3), 135–150.
- Kaczynski, A. T. and K. A. Henderson (2007). Environmental Correlates of Physical Activity: A Review of Evidence About Parks and Recreation. *Leisure Sciences* 29(4), 315–354.
- Kahnemann, D., P. P. Wakker, and R. Sarin (1997). Back to Bentham? Explorations of Experienced Utility. *Quarterly Journal of Economics* 112(2), 375–406.
- Kaplan, R. (1995). The Restorative Benefits of Nature: Towards an Integrative Framework. Journal of Environmental Psychology 15(3), 169–182.
- Kaplan, R. (2001). The Nature of the View From Home: Psychological Benefits. Environment and Behavior 33(4), 507–542.
- Kaplan, R. and S. Kaplan (1989). The Experience of Nature: A Psychological Perspective. Cambridge University Press.
- Karmanov, D. and R. Hamel (2008). Assessing the Restorative Potential of Contemporary Urban Environment(s): Beyond the Nature Versus Urban Dichotomy. Landscape and Urban Planning 86(2), 115–125.
- Knecht, C. (2004). Urban Nature and Well-Being: Some Empirical Support and Design Implications. Berkeley Planning Journal 17(1), 82–108.
- Kuhn, I., R. Brandl, and S. Klotz (2004). The Flora of German Cities is Naturally Species Rich. *Evolutionary Ecology Research* 6(5), 749–764.

- Kuo, F. E., M. Bacaicoa, and W. C. Sullivan (1998). Transforming Inner City Landscapes: Trees, Sense of Place, and Preference. *Environment and Behavior* 30(1), 28–59.
- Leslie, E. and E. Cerin (2008). Are Perceptions of the Local Environment Related to Neighbourhood Satisfaction and Mental Health in Adults. *Preventive Medicine* 47(3), 273–278.
- Maas, J., R. A. Verheij, S. de Vries, P. Spreeuwenberg, F. G. Schellevis, and P. P. Groenewegen (2009). Morbidity is Related to a Green Living Environment. *Journal of Epidemiology and Community Health* 63(12), 967–973.
- Maas, J., R. A. Verheij, P. P. Groenewegen, S. de Vries, and P. Spreeuwenberg (2006). Green Space, Urbanity, and Health: How Strong is the Relation? *Journal* of Epidemiology and Community Health 60(7), 587–592.
- Maas, J., R. A. Verheij, P. Spreeuwenberg, and P. P. Groenewegen (2008). Physical Activity as a Possible Mechanism Behind the Relationship Between Green Space and Health: A Multilevel Analysis. *BMC Public Health* 8, 260–273.
- Madanipour, A. (1996). Design of Urban Space: An Inquiry Into a Socio-Spatial Process. Wiley.
- Marcus, C. C. and M. Barnes (1999). *Healing Gardens: Therapeutic Benefits and Design Recommendations*. Wiley.
- McDonald, D. G. and J. A. Hodgdon (1991). The Psychological Effects of Aerobic Fitness Training: Research and Theory. Springer.
- McPherson, E. G. (1998). Atmospheric Carbon Dioxide Reduction by Sacramento's Urban Forest. *Journal of Arboriculture* 24(4), 215–223.
- Mitchell, R. and F. Popham (2008). Effect of Exposure to Natural Environment on Health Inequalities: An Observational Population Study. *The Lancet 372*(9650), 1655–1660.
- Myeong, S., D. J. Nowak, and M. J. Duggin (2006). A Temporal Analysis of Urban Forest Carbon Storage Using Remote Sensing. *Remote Sensing of Environment* 101(2), 277–282.

- Nübling, M., H. H. Andersen, A. Mühlbacher, J. Schupp, and G. G. Wagner (2007). Computation of Standard Values for Physical and Mental Health Scale Scores Using the SOEP Version of SF12v2. *Journal of Applied Social Science Studies* 127(1), 171–182.
- Newton, J. (2007). Well-Being and the Natural Environment: A Brief Overview of the Evidence. United Kingdom Department of Environment, Food and Rural Affairs Discussion Paper 20/08/2007.
- Nielsen, T. S. and K. B. Hansen (2007). Do Green Areas Affect Health? Results From a Danish Survey on the use of Green Areas and Health Indicators. *Health* and Place 13(4), 839–850.
- Nisbet, E. K. and J. M. Zelenski (2011). Understanding Nearby Nature: Affective Forecasting Errors Obscure the Happy Path to Sustainability. *Psychological Science* 22(9), 1101–1106.
- Nowak, D. J. (1994). Air Pollution Removal by Chicago's Urban Forest. United States Department of Agriculture, Forest Service, General Technical Report NE-186.
- Nowak, D. J., D. E. Crane, and J. C. Stevens (2002). Brooklyn's Urban Forest. United States Department of Agriculture, Forest Service, General Technical Report NE-290.
- O'Campo, P., C. Salmon, and J. Burke (2009). Neighbourhoods and Mental Well-Being: What are the Pathways. *Health and Place* 15(1), 56–58.
- Padgett, D. A. and R. Glaser (2003). How Stress Influences the Immune Response. Trends in Immunology 24(8), 444–448.
- Potwarka, L. R., A. T. Kaczynski, and A. L. Flack (2008). Places to Play: Association of Park Space and Facilities With Healthy Weight Status Among Children. *Journal* of Community Health 33(5), 344–350.
- Richardson, E. A., J. Pearce, R. Mitchell, and S. Kingham (2013). Role of Physical Activity in the Relationship Between Urban Green Space and Health. *Public Health* 127(4), 318–324.
- Rowntree, R. A. and D. J. Nowak (1991). Quantifying the Role of Urban Forests in Removing Atmospheric Carbon Dioxide. *Journal of Arboriculture* 17(10), 269–275.

- Senate Department for Urban Development and the Environment (2010). Kostenrichtwerttabellen-Fortschreibung, 12/2010: Baukostenschema Grünanlagen.
- Senate Department of Finance (2013). Was kostet wo wie viel? Die Berliner Bezirke im Kostenvergleich.
- Smyth, R., V. Mishra, and X. Qian (2008). The Environment and Well-Being in Urban China. *Ecological Economics* 68(1–2), 547–555.
- Steinberg, H., E. A. Sykes, and N. LeBoutillier (1997). Exercise Addiction: Indirect Measures of 'Endorphins'? In J. Annett, B. Cripps, and H. Steinberg (Eds.), *Exercise Addiction: Motivation for Participation in Sport and Exercise*. British Psychological Society.
- Stigsdotter, U. K., O. Ekholm, J. Schipperijn, M. Toftager, F. Kamper-Jørgensen, and T. B. Randrup (2010). Health Promoting Outdoor Environments: Associations Between Green Space and Health, Health-Related Quality of Life, and Stress Based on a Danish National Representative Survey. Scandinavian Journal of Public Health 38(4), 411–417.
- Sturm, R. and D. Cohen (2014). Proximity to Urban Parks and Mental Health. Journal of Mental Health Policy and Economics 17(1), 19–24.
- Sukopp, H. and R. Wittig (1993). *Stadtökologie*. G. Fischer Verlag.
- Swanwick, C., N. Dunnett, and H. Woolley (2003). The Nature, Role, and Value of Green Space in Towns and Cities: An Overview. *Built Environment* 29(2), 94–106.
- Takano, T., K. Nakamura, and M. Watanabe (2002). Urban Residential Environments and Senior Citizen's Longevity in Megacity Areas: The Importance of Walkable Green Spaces. *Journal of Epidemiology and Community Health* 56(12), 913–918.
- Tameko, A. M., H. P. P. Donfouet, and F. Sikod (2012). The Economic Valuation of Improved Urban Parks: A Case Study of Warda Park. *Journal of Sustainable Development* 4(1), 271–280.
- Tzoulas, K., K. Korpela, S. Venn, V. Yli-Pelkonen, A. Kázmierczak, J. Niemela, and P. James (2007). Promoting Ecosystem and Human Health in Urban Areas Using

Green Infrastructure: A Literature Review. Landscape and Urban Planning 81(3), 167–178.

- Ulrich, R. S. (1983). Aesthetic and Affective Response to Natural Environment. Human Behavior and Environment: Advances in Theory and Research 6, 85–125.
- Ulrich, R. S. (1984). View Through a Window may Influence Recovery from Surgery. Science 224 (4647), 420–421.
- Ulrich, R. S., R. F. Simons, B. D. Losito, E. Fiorito, M. A. Miles, and M. Zelson (1991). Stress Recovery During Exposure to Natural and Urban Environments. *Journal of Environmental Psychology* 11(3), 201–230.
- van den Berg, A. E., T. Hartig, and H. Staats (2007). Preference for Nature in Urbanized Societies: Stress, Restoration, and the Pursuit of Sustainability. *Journal* of Social Issues 61(1), 79–96.
- van den Berg, A. E., J. Maas, R. A. Verheij, and P. P. Groenewegen (2010). Green Space as a Buffer Between Stressful Life Events and Health. Social Science and Medicine 70(8), 1203–1210.
- Wagner, G. G., J. R. Frick, and J. Schupp (2007). The German Socio-Economic Panel Study (SOEP) – Scope, Evolution, and Enhancements. *Schmollers Jahrbuch 127*(1), 139–169.
- Wagner, G. G., J. Göbel, P. Krause, R. Pischner, and I. Sieber (2008). Das Sozio-oekonomische Panel (SOEP): Multidisziplinäres Haushaltspanel und Kohortenstudie für Deutschland – Eine Einführung (für neue Datennutzer) mit einem Ausblick (für erfahrene Anwender). AStA Wirtschafts- und Sozialstatistisches Archiv 2(4), 301–328.
- Ware, J. F., M. Kosinski, and S. D. Keller (1995). How to Score the SF12 Physical and Mental Health Summary Scales (2 ed.). The Health Institute, New England Medical Center.
- Webster, M. J. I. and R. Glaser (2008). Stress Hormones and Immune Function. Cellular Immunology 252(1–2), 16–26.
- Wells, N. M. and G. W. Evans (2003). Nearby Nature: A Buffer of Life Stress Among Rural Children. *Environment and Behavior* 35(3), 311–330.

- Welsch, H. and J. Kühling (2009). Using Happiness Data for Environmental Valuation: Issues and Applications. *Journal of Economic Surveys* 23(2), 385–406.
- White, M. P., I. Alcock, B. W. Wheeler, and M. H. Depledge (2013). Would you be Happier Living in a Greener Urban Area? A Fixed-Effects Analysis of Panel Data. *Psychological Science* 20(10), 1–9.
- Wooldridge, J. M. (2002). *Econometric Analysis of Cross Section and Panel Data*. The MIT Press.
- Worpole, K. and K. Knox (2007). *The Social Value of Public Spaces*. Joseph Rowntree Foundation.
- Wu, D.-M. (1973). Alternative Tests of Independence Between Stochastic Regressors and Disturbances. *Econometrica* 41(4), 733–775.

Appendix A. Data

Variables	Descriptions	Examples	EUA Categories
Croom Aroaa			
Green Areas			
Greens	Includes all greens which are public and have	Parks, Gardens, Zoos	1.4.1
	predominantly recreational use ^a		
Forests	Includes all forests with ground coverage of	_	3
1010505	the concert most on the 2007 and the height		0
	tree canopy greater than 50% and tree height		
	greater than 5 metres		
Waters	Includes all waters greater than 1 hectare	Lakes, Rivers, Canals	4
	0	, , ,	
Abandonod Aroas	Includes all land without use	Brownfields	134
Abanuoneu Aleas	includes an land without use	Drownneids	1.0.4

Table A.1: Independent Variables of Interest

^a This category also incorporates playgrounds and smaller sport facilities located within greens.

Source: EUA 2006

		٦			
Variables	Mean	Standard Deviation	Minimum	Maximum	Number of Observations
Dependent Variables					
Satisfaction With Life	6.9946	1.7699	0	10	42,256
Mental Health Summary Scale	50.3863	9.6176	1.9180	77.2937	27,289
Mental Health in General	50.5766	9.4727	19.7313	68.5833	27,291
Role-Emotional Functioning	50.1614	9.4034	13.3378	58.0805	27,291
Social Functioning	50.0287	9.6035	14.6924	57.1192	27,291
Vitality	49.9840	9.3923	26.8214	70.6042	27,291
Physical Health Summary Scale	49.7667	9.8265	10.5547	79.6030	31,913
Bodily Pain	50.2577	9.5606	23.0030	59.8489	31,913
Role-Physical Functioning	50.0572	9.6731	21.9237	59.7166	31,913
Physical Functioning	49.7336	9.6941	27.2504	58.3546	31,913
Body-Mass Index	25.2954	4.4068	13.0530	73.0460	33,203
Independent Variables of Interest					
Distance to Greens	2.7860	2.6819	C	40.0621	42.256
Distance to Forests	18.5378	16.9615		91.2399	42,256
Distance to Waters	13.0626	9.7460) C	85.3310	42,256
Distance to Abandoned Areas	0.6002	6.6843		53 1917	10 020 10 026
Distance to Aballuolieu Aleas	9.0092	070000 0000		101-040E	42,200 40,95 <i>6</i>
COVERAGE OF GLEELLS	22.0404 11 9070	2000.02 06 9869		134.2403	42,230
Coverage of Forests	11.38/U	2002.02	D (7219.107	42,230
Coverage of Waters	6.1407	13.6202	0	148.7035	42,256
Coverage of Abandoned Areas	1.4027	2.1019	0	35.8380	42,256
Other Independent Variables - Geo Level					
Distance to Uity Centre	58.7480	39.7389	0.0122	253.0730	42,250
Distance to City Periphery	32.1597	22.1740	0.0490	117.2422	42,256
Other Independent Variables - Micro Level					
Age	48.7359	17.5575	17	66	42,256
Is Female	0.5304	0.4991	0	1	42,256
Is Married	0.5670	0.4955	0	1	42,255
Is Divorced	0.0853	0.2793	0	1	42,255
Is Widowed	0.0611	0.2394	0	1	42,255
Has Very Good Health	0.1003	0.3004	0	1	42,203
Has Very Bad Health	0.0409	0.1980	0	1	42,203
Is Disabled	0.1280	0.3341	0	1	42,078
	O	ontinued on next page			

Table A.2: Descriptive Statistics

	Conti	nued from previous pa	ge		
Variables	Mean	Standard Deviation	Minimum	Maximum	Number of Observations
Has Migration Background	0.1655	0.3717	0	1	42,103
Has Tertiary Degree	0.3599	0.4800	0	1	41,143
Has Lower Than Secondary Degree	0.1321	0.3386	0	1	41,143
Is in Education	0.0188	0.1357	0	1	42,256
Is Full-Time Employed	0.4065	0.4912	0	1	42,256
Is Part-Time Employed	0.0988	0.2984	0	1	42,256
Is on Parental Leave	0.0209	0.1430	0	1	42,256
Is Unemployed	0.0719	0.2583	0	1	42,256
Individual Income ^a	1,285.2635	2,256.8580	0	50,000.0860	24,208
Has Child in Household	0.2367	0.4250	0	1	42,256
Household Income ^a	2,512.9267	1,659.3480	0	101,097.7700	42,240
Lives in House ^b	0.2244	0.4172	0	1	6,698
Lives in Small Apartment Building	0.0991	0.2989	0	1	6,698
Lives in Large Apartment Building	0.3235	0.4679	0	1	6,698
Lives in High Rise	0.0340	0.1813	0	1	6,698
Number of Rooms per Individual	1.6888	0.8555	0.2500	13	38,078
Other Independent Variables - Macro Leve	10				
Unemployment Rate	11.9809	3.9593	4.5000	20.8000	40,649
Average Household Income ^a	1,484.1110	244.8841	1,047.2000	2,050.4000	34,974
^a Annually in Euro/Inflation-Adjusted (Base Yea	ur 2000), ^b Detach	led, Semi-Detached, or Ter	raced		

Note: The respective distance is measured as the Euclidean distance in 100 metres between households and the border of the nearest are of interest. The respective coverage is measured as the hectares covered by the area of interest in a pre-defined buffer area of 1,000 metres around households. All figures are rounded to four decimal places.

Appendix B. Results

Regressors OLS OLS FE FE Distance to Greens 0.0010 -0.0106* -0.0287** -0.0409*** Distance to Forests -0.0083*** -0.0025 0.0017 (0.0043) (0.0020) Distance to Waters -0.0056** -0.0025 0.0050 0.0049 (0.0024) (0.0025) (0.007) (0.0041) (0.007) (0.0097) Distance to Abandoned Areas 0.033*** 0.0339*** 0.0186** 0.0259*** (0.0041) (0.0004) (0.0003) (0.0007) (0.0006) 0.0000 Distance to Greens Squared 0.0001 (0.0000) (0.0001) (0.0001) (0.0001) Distance to Forests Squared 0.0001 0.0000 -0.0002 -0.0001 Distance to Abandoned Areas Squared 0.0001*** -0.0005** -0.0006* -0.0009 Distance to City Centre -0.0039*** -0.0000*** -0.0000* -0.0001 Distance to City Centre Squared 0.0007** -0.0005** -0.0006 Distance to City Centre Squared <th></th> <th></th> <th>~</th> <th></th> <th></th>			~		
Regressors OLS OLS PE FE Distance to Greens (0.0002) (0.0062) (0.0017) (0.0032) Distance to Forests -0.0083^{***} -0.0035^{**} $0.0002)$ (0.0017) (0.0031) Distance to Waters -0.0056^{**} -0.0025^{**} $0.0005)$ $0.00067)$ Distance to Abandoned Areas 0.033^{**} 0.023^{**} 0.0005 0.0007 Distance to Greens Squared 0.0005 0.00041 (0.00041) (0.0000) (0.0000) Distance to Forests Squared 0.0001^{***} 0.0000 -0.0000 -0.0000 Distance to Abandoned Areas Squared 0.0001 0.0000 -0.0000 -0.0000 Distance to Abandoned Areas Squared 0.0001^{***} -0.0006^{***} -0.0000^{**} Distance to City Centre -0.0007^{***} -0.0006^{**} -0.0000^{**} Distance to City Centre Squared 0.0007^{***} -0.0000^{**} -0.0000^{**} Distance to City Centre Squared 0.0000^{***} 0.0000^{**} 0.0000^{*} <td>D</td> <td>OT C</td> <td>Satisfaction</td> <td>With Life</td> <td></td>	D	OT C	Satisfaction	With Life	
Distance to Greens 0.0010 (0.0062) -0.0106* (0.0002) -0.0287** (0.0016) -0.0025** (0.0017) 0.00133 (0.0035) Distance to Forests -0.0056** (0.0064) -0.0025 (0.0059) (0.0077) Distance to Waters -0.0035** (0.0041) (0.0025) (0.0059) (0.0067) Distance to Abandoned Areas 0.0333*** (0.0041) (0.0025) (0.0059) (0.0067) Distance to Greens Squared 0.0001 (0.0004) (0.0011** (0.0097) Distance to Forests Squared 0.0001 (0.0000) -0.0000 -0.0000 Distance to Abandoned Areas Squared 0.0001 (0.0000) (0.0001) (0.0001) Distance to City Centre -0.0037*** -0.0005*** -0.0008 -0.0009** Distance to City Centre -0.0037*** -0.0005*** -0.0008 -0.0009** Distance to City Centre -0.0037*** -0.0005*** -0.0008 -0.0009** Distance to City Centre Squared 0.0000** -0.0008 -0.0009 -0.0000 Distance to City Periphery Squared -0.0002** -0.0000 <	Kegressors	OLS	OLS	FЕ	FE
(0.0062) (0.0062) (0.0117) (0.0117) Distance to Forests -0.0056** -0.0025 0.0050) Distance to Waters -0.0056** -0.0025 0.0050) Distance to Abandoned Areas 0.033*** 0.0239*** 0.0186** 0.0259*** Distance to Greens Squared 0.0004 (0.0004) (0.0005) (0.0005) Distance to Forests Squared 0.0001 (0.0004) (0.0000) -0.0000 Distance to Forests Squared 0.0001 (0.0000) (0.0001) (0.0001) 0.0001 Distance to Abandoned Areas Squared 0.0001 (0.0000) (0.0002) (0.0001) Distance to Abandoned Areas Squared -0.007*** -0.0006** -0.0000** -0.0000 Distance to City Centre -0.0039*** -0.0006* -0.0000 (0.0001) Distance to City Periphery -0.0046*** -0.0000** -0.0000 -0.0000 Distance to City Periphery Squared -0.0000** 0.0000 (0.0000) 0.0000 Distance to City Periphery Squared -0.0000** 0.00000 </td <td>Distance to Greens</td> <td>0.0010</td> <td>-0.0106*</td> <td>-0.0287**</td> <td>-0.0409***</td>	Distance to Greens	0.0010	-0.0106*	-0.0287**	-0.0409***
Distance to Forests -0.0083*** -0.0035** 0.0005 -0.0020 Distance to Waters -0.0025 (0.0050) 0.0049 Distance to Abandoned Areas (0.0024) (0.0025) (0.0087) (0.0097) Distance to Greens Squared 0.0005 0.00041 (0.0007) (0.0007) Distance to Forests Squared 0.0001 0.0000 -0.0000 -0.0000 Distance to Waters Squared 0.0001 (0.0000) (0.0000) -0.0000 Distance to Waters Squared 0.0001 (0.0000) (0.0000) -0.0000 Distance to Waters Squared 0.0001 (0.0000) (0.0002) (0.0002) Distance to Abandoned Areas Squared -0.0007*** -0.0000 -0.0000* -0.0000 Distance to City Centre -0.0039*** -0.0000 (0.0002) (0.0003) (0.0004) Distance to City Periphery -0.0005*** -0.0000 (0.0000) (0.0000) (0.0000) Distance to City Periphery Squared -0.0000 (0.0000) (0.0000) (0.0000) (0.0000) (0.0		(0.0062)	(0.0062)	(0.0117)	(0.0134)
(0.0016) (0.0017) (0.0043) (0.0050) Distance to Waters -0.0056** -0.0025 (0.0059) (0.0067) Distance to Abandoned Areas 0.0333*** 0.0239*** 0.0186** 0.0259*** Distance to Greens Squared 0.0004 (0.0004) (0.0007) (0.00087) (0.0011** Distance to Forests Squared 0.0001 (0.0000) (0.0000) (0.0001) (0.0001) Distance to Forests Squared 0.0001 0.0000 -0.0000 -0.0001 Distance to Abandoned Areas Squared 0.0001 (0.0001) (0.0002) (0.0002) Distance to City Centre -0.003*** -0.0005*** -0.0006* -0.0008 Distance to City Periphery -0.004*** -0.0005** -0.0006* -0.0008 Distance to City Periphery -0.004*** -0.0000** 0.0000 (0.0001) Distance to City Periphery Squared 0.0000** 0.0000** 0.0000 0.0000 Distance to City Periphery Squared 0.0000** 0.0000* 0.0000 0.0000 0.0000	Distance to Forests	-0.0083***	-0.0035**	0.0005	-0.0020
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.0016)	(0.0017)	(0.0043)	(0.0050)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to Waters	-0.0056**	-0.0025	0.0050	0.0049
$\begin{array}{llllllllllllllllllllllllllllllllllll$		(0.0024)	(0.0025)	(0.0059)	(0.0067)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to Abandoned Areas	0.0333^{***}	0.0239^{***}	0.0186^{**}	0.0259^{***}
Distance to Greens Squared 0.0005 0.0004 0.0011** 0.0006) Distance to Forests Squared 0.0000 (0.0000) (0.0000) 0.0000 -0.0000 Distance to Waters Squared 0.0001 0.00001 0.0000 -0.0002 -0.0001 Distance to Waters Squared 0.0001 0.0001 (0.0002) (0.0002) (0.0002) Distance to Abandoned Areas Squared -0.007*** -0.0005*** -0.0006* -0.0009** Distance to City Centre -0.0039*** -0.0000* -0.0000 -0.0008 Distance to City Periphery -0.0046*** -0.0000 0.0000 (0.0002) Distance to City Centre Squared 0.0000** 0.0000 (0.0000) (0.0000) Distance to City Periphery Squared -0.0000** 0.0000 (0.0000) (0.0000) Distance to City Periphery Squared -0.0000 -0.0000 (0.0000) (0.0000) Age Squared 0.0000 (0.0000) (0.0000) (0.0001) Is Married 0.1298*** -0.0113 (0.0334) -0.0224**		(0.0041)	(0.0041)	(0.0087)	(0.0099)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to Greens Squared	0.0005	0.0004	0.0011^{**}	0.0012^{*}
$\begin{array}{llllllllllllllllllllllllllllllllllll$		(0.0004)	(0.0004)	(0.0005)	(0.0006)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to Forests Squared	0.0001^{***}	0.0000	-0.0000	-0.0000
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.0000)	(0.0000)	(0.0001)	(0.0001)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to Waters Squared	0.0001	0.0000	-0.0002	-0.0001
$\begin{array}{cccccccc} \text{Distance to Abandoned Areas Squared} & -0.0007^{***} & -0.0005^{***} & -0.0006^{*} & -0.0009^{*} \\ & (0.0001) & (0.0002) & (0.0003) & (0.0004) \\ & (0.0002) & (0.0003) & (0.0004) \\ & 0.0007^{***} & -0.0005 & 0.0044 & -0.0008 \\ & (0.0014) & (0.0014) & (0.0036) & (0.0002) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & 0.0000 & 0.0000^{***} & 0.0000^{**} & 0.0000 \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ & Age & & -0.0523^{***} & -0.0238^{**} \\ & (0.0000) & (0.0000) & (0.0002^{**} & -0.0022^{**} \\ & (0.0000) & (0.0000) & (0.0002^{**} & -0.0022^{**} \\ & (0.0000) & (0.0000) & (0.0001) \\ & Is Female & & 0.0530^{***} & -0.0113 \\ & (0.0300) & (0.0056) \\ & Is Divorced & -0.1419^{***} & -0.0113 \\ & (0.0340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.00340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.0340 & -0.2249^{*} \\ & (0.0280) & (0.0340 \\ & -0.3412^{***} & -1.2265^{***} \\ & (0.0280) & (0.0346) \\ & Has Very Good Health & -2.2185^{***} & -1.2265^{***} \\ & (0.0286) & (0.0475) \\ & Is Disabled & -0.3142^{***} & -0.1614^{***} \\ & (0.0249) \\ Has Migration Background & -0.0412^{*} \\ & (0.0275) & (0.1018) \\ \end{array}$		(0.0001)	(0.0001)	(0.0002)	(0.0002)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to Abandoned Areas Squared	-0.0007***	-0.0005***	-0.0006*	-0.0009**
$\begin{array}{llllllllllllllllllllllllllllllllllll$		(0.0001)	(0.0002)	(0.0003)	(0.0004)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to City Centre	-0.0039***	-0.0023***	-0.0000	-0.0008
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.0007)	(0.0008)	(0.0024)	(0.0028)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to City Periphery	-0.0046***	-0.0005	0.0044	-0.0004
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.0014)	(0.0014)	(0.0036)	(0.0042)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Distance to City Centre Squared	0.0000***	0.0000**	0.0000	0.0000
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.0000)	(0.0000)	(0.0000)	(0.0000)
$\begin{array}{cccccccc} (0.0000) & (0.0000) & (0.0000) & (0.0000) \\ -0.0523^{***} & -0.0230^{**} \\ & (0.0038) & (0.0112) \\ 0.0005^{***} & -0.0002^{**} \\ & (0.0000) & (0.0001) \\ \text{Is Female} & 0.0530^{***} & \\ & (0.0192) \\ \text{Is Married} & 0.1298^{***} & -0.0113 \\ & (0.0300) & (0.0656) \\ \text{Is Divorced} & -0.1419^{***} & -0.0957 \\ & (0.0394) & (0.0944) \\ \text{Is Widowed} & 0.0340 & -0.2249^{*} \\ & (0.0497) & (0.1262) \\ \text{Has Very Good Health} & 0.9769^{***} & 0.3642^{***} \\ & (0.0298) & (0.0306) \\ \text{Has Very Bad Health} & -2.2185^{***} & -1.2265^{***} \\ & (0.0465) & (0.0475) \\ \text{Is Disabled} & -0.3142^{***} & -0.1614^{***} \\ & (0.0286) & (0.0458) \\ \text{Has Migration Background} & -0.0412^{*} \\ & (0.0249) \\ \text{Has Tertiary Degree} & 0.0326 & -0.1028 \\ & (0.0212) & (0.0748) \\ \text{Has Lower Than Secondary Degree} & -0.1465^{***} & -0.0218 \\ & (0.0275) & (0.1018) \\ \end{array}$	Distance to City Periphery Squared	-0.0000	-0.0000	-0.0000	0.0000
Age $-0.0523^{-0.00}$ $-0.0230^{-0.00}$ Age Squared (0.0038) (0.0112) Age Squared 0.0005^{***} -0.0002^{**} (0.0000) (0.0001) (0.0001) Is Female 0.0530^{***} (0.0192) Is Married 0.1298^{***} -0.0113 (0.0300) (0.0656) Is Divorced -0.1419^{***} -0.0957 (0.0394) (0.0944) Is Widowed 0.0340 -0.2249^{*} (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0298) (0.0475) (0.0475) Is Disabled -0.3142^{***} -0.614^{***} (0.0286) (0.0458) (0.0458) Has Migration Background -0.0412^{*} (0.0249) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018) (0.018)	٨	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Age Squared (0.0038) (0.0112) Age Squared 0.0005^{***} -0.0002^{**} (0.0000) (0.0001) (0.0001) Is Female (0.0192) (0.0192) Is Married (0.0300) (0.0656) Is Divorced -0.1419^{***} -0.0957 (0.0394) (0.0944) Is Widowed 0.0340 -0.2249^{*} (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0265) (0.0475) (0.0475) Is Disabled -0.3142^{***} -0.614^{***} (0.0249) (0.0249) Has Migration Background (0.0212) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) (0.0218) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)	Age		-0.0523		-0.0230^{+1}
Age Squared 0.0003^{++} -0.0002^{++} (0.0000) (0.0001) Is Female (0.0000) (0.0192) (0.0192) Is Married 0.1298^{***} -0.0113 (0.0300) (0.0656) Is Divorced -0.1419^{***} -0.0957 (0.0394) (0.0944) Is Widowed 0.0340 -0.2249^{*} (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) (0.0458) Has Migration Background -0.0412^{*} (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) (0.0218) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018) (0.018)	A ma Cauchad		(0.0038)		(0.0112)
Is Female (0.000) (0.001) Is Married 0.0530^{***} (0.0192) Is Married 0.1298^{***} -0.0113 (0.0300) (0.0656) Is Divorced -0.1419^{***} -0.0957 (0.0394) (0.0394) (0.0944) Is Widowed 0.0340 -0.2249^{*} (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) (0.0458) Has Migration Background -0.0412^{*} (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) (0.0218) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018) (0.018)	Age Squared		(0.0003)		-0.0002^{+1}
Is Female (0.0330^{-1}) Is Married (0.0192) Is Married 0.1298^{***} (0.0300) (0.0656) Is Divorced -0.1419^{***} (0.0394) (0.0944) Is Widowed 0.0340 -0.2249^* (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) Has Migration Background -0.0412^* (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} (0.0275) (0.1018)	Ia Fomala		(0.0000)		(0.0001)
Is Married 0.1298^{***} -0.0113 Is Married 0.1298^{***} -0.0113 (0.0300) (0.0656) Is Divorced -0.1419^{***} -0.0957 (0.0394) (0.0944) Is Widowed 0.0340 -0.2249^{*} (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) (0.0475)Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) (0.0458)Has Migration Background -0.0412^{*} (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} (0.0275) (0.1018) (0.018)	is remaie		(0.0530^{-1})		
Is Marted 0.1256 -0.0113 (0.0300)(0.0656)Is Divorced -0.1419^{***} -0.0957 (0.0394)(0.0944)Is Widowed 0.0340 -0.2249^* (0.0497)(0.1262)Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298)(0.0306)Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465)(0.0475)(0.0475)Is Disabled -0.3142^{***} -0.1614^{***} (0.0286)(0.0458)(0.0458)Has Migration Background -0.0412^* (0.0249)Has Tertiary Degree 0.0326 -0.1028 (0.0212)(0.0748)(0.0218)Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275)(0.1018)	Is Married		(0.0192) 0.1208***		0.0113
Is Divorced -0.0300^{+} $(0.0000^{+})^{-}$ Is Widowed -0.1419^{***} -0.0957^{-} (0.0394) $(0.0944)^{-}$ Is Widowed 0.0340^{-} -0.2249^{*} (0.0497) $(0.1262)^{-}$ Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) $(0.0306)^{-}$ Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) $(0.0475)^{-}$ $(0.0475)^{-}$ Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) $(0.0458)^{-}$ $(0.0458)^{-}$ Has Migration Background -0.0412^{*} $(0.0249)^{-}$ Has Tertiary Degree 0.0326^{-} -0.1028^{-} (0.0212) $(0.0748)^{-}$ $(0.0212)^{-}$ Has Lower Than Secondary Degree -0.1465^{***} -0.0218^{-} (0.0275) $(0.1018)^{-}$	15 Maineu		(0.1230)		(0.0656)
Is Divorced (0.0394) (0.0944) Is Widowed 0.0340 -0.2249^* (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) (0.0458) Has Migration Background -0.0412^* (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) (0.0275) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)	Is Divorced		-0 1419***		-0.0957
Is Widowed (0.0001) (0.0011) Is Widowed 0.0340 -0.2249^* (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) Has Migration Background -0.0412^* (0.0249) (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)	15 Divolecta		(0.0394)		(0.0944)
Is willowed (0.0497) (0.1262) Has Very Good Health 0.9769^{***} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) Has Migration Background -0.0412^{*} (0.0249) (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)	Is Widowed		0.0340		-0 2249*
Has Very Good Health 0.9769^{**} 0.3642^{***} (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) Has Migration Background -0.0412^{*} (0.0249) (0.0212) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)			(0.0497)		(0.1262)
Instruction (0.0298) (0.0306) Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465) (0.0475) (0.0475) Is Disabled -0.3142^{***} -0.1614^{***} (0.0286) (0.0458) (0.0458) Has Migration Background -0.0412^{*} (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)	Has Very Good Health		0.9769***		0.3642***
Has Very Bad Health -2.2185^{***} -1.2265^{***} (0.0465)(0.0475)Is Disabled -0.3142^{***} -0.1614^{***} (0.0286)(0.0458)Has Migration Background -0.0412^* (0.0249)(0.0249)Has Tertiary Degree 0.0326 -0.1028 (0.0212)(0.0748)Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275)(0.1018)			(0.0298)		(0.0306)
$\begin{array}{cccccc} & (0.0465) & (0.0475) \\ \text{Is Disabled} & & -0.3142^{***} & & -0.1614^{***} \\ & & (0.0286) & (0.0458) \\ \text{Has Migration Background} & & -0.0412^{*} \\ & & & (0.0249) \\ \text{Has Tertiary Degree} & & 0.0326 & & -0.1028 \\ & & & (0.0212) & (0.0748) \\ \text{Has Lower Than Secondary Degree} & & -0.1465^{***} & & -0.0218 \\ & & & (0.0275) & (0.1018) \end{array}$	Has Very Bad Health		-2.2185***		-1.2265***
Is Disabled -0.3142^{***} -0.1614^{***} Is Disabled -0.3142^{***} (0.0286) (0.0458) Has Migration Background -0.0412^{*} (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)			(0.0465)		(0.0475)
$\begin{array}{cccc} & (0.0286) & (0.0458) \\ \text{Has Migration Background} & & -0.0412^{*} \\ & & & & \\ & & & $	Is Disabled		-0.3142***		-0.1614***
Has Migration Background -0.0412^* (0.0249) (0.0249) Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)			(0.0286)		(0.0458)
$\begin{array}{cccc} & & & & & & \\ & & & & & & \\ & Has Tertiary Degree & & & & & & \\ & & & & & & & \\ & & & &$	Has Migration Background		-0.0412*		· · · ·
Has Tertiary Degree 0.0326 -0.1028 (0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)			(0.0249)		
(0.0212) (0.0748) Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)	Has Tertiary Degree		0.0326		-0.1028
Has Lower Than Secondary Degree -0.1465^{***} -0.0218 (0.0275) (0.1018)	• •		(0.0212)		(0.0748)
(0.0275) (0.1018)	Has Lower Than Secondary Degree		-0.1465***		-0.0218
			(0.0275)		(0.1018)

Table B.1: Results - Final Sample, Satisfaction With Life, OLS/FE Models, Distances

Continued on next page

		Satisfaction	With Life	
Regressors	OLS	OLS	\mathbf{FE}	\mathbf{FE}
Is in Education		-0.0622		0.1147
		(0.0741)		(0.0832)
Is Full-Time Employed		-0.1862***		0.0461
		(0.0395)		(0.0416)
Is Part-Time Employed		-0.0736**		-0.0316
		(0.0369)		(0.0421)
Is on Parental Leave		0.3627***		0.2905^{***}
		(0.0644)		(0.0653)
Is Unemployed		-0.9212^{***}		-0.5218^{***}
		(0.0412)		(0.0447)
Individual Income ^a		0.1208^{***}		0.0454^{**}
		(0.0236)		(0.0200)
Has Child in Household		-0.0025		0.0226
		(0.0258)		(0.0370)
Household Income ^a		0.2947^{***}		0.1372^{***}
,		(0.0173)		(0.0241)
Lives in House ^b		0.0098		0.0102
		(0.0427)		(0.0305)
Lives in Small Apartment Building		0.0308		0.0130
		(0.0424)		(0.0339)
Lives in Large Apartment Building		-0.0364		-0.0163
		(0.0298)		(0.0298)
Lives in High Rise		-0.0460		-0.0167
		(0.0700)		(0.0453)
Number of Rooms per Individual		0.1225^{***}		0.0138
		(0.0156)		(0.0202)
Unemployment Rate		-0.0323^{***}		-0.0223***
A		(0.0035)		(0.0048)
Average Household Income		(0.0000)		(0.0001)
Constant	7 9590***	(0.0001)	6 5941***	(0.0002)
Constant	(0.0452)	(0.2103)	(0.9241)	(0.4662)
	(0.0432)	(0.2103)	(0.2712)	(0.4002)
Number of Observations	$42,\!256$	33,782	42,256	33,782
Number of Individuals	8,014	6,959	8,014	$6,\!959$
F-Statistic	37.8500	160.7500	2.6600	369.8400
\mathbb{R}^2	0.0108	0.2024	0.0029	0.0575
Adjusted R ²	0.0105	0.2015	0.0018	0.0556

Continued from previous page

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective distance is measured as the Euclidean distance in 100 metres between households and the border of the nearest area of interest. All figures are rounded to four decimal places.

Regressors	OLS	Satisfaction OLS	n With Life FE	\mathbf{FE}
Coverage of Greens	-0.0003	0 0097***	0 0038*	0 0066***
Coverage of Orcello	(0.0010)	(0.0021)	(0.0030)	(0.0000)
Coverage of Forests	0.0010)	0.0010)	(0.0022)	(0.0020)
Coverage of Polests	(0.0072)	(0.0022)	-0.0017	-0.0019
Correspondence of Westerra	(0.0008)	(0.0008)	(0.0017)	(0.0020)
Soverage of waters	(0.0025)	(0.0015)	-0.0012	-0.0040
Coverage of Abandoned Areas	(0.0014)	(0.0013)	(0.0020)	0.0205***
Coverage of Abalidoned Areas	-0.0400	-0.0340	-0.0342	-0.0395
Coverage of Groops Squared	0.0070)	0.00009)	0.0000*	0.00145)
Coverage of Greens Squared	(0,0000)	(0,0000)	(0,0000)	(0.0001)
Coverage of Forests Squared	0.0000	0.0000)	0.0000)	0.0000
Coverage of Porests Squared	(0,0000)	(0,0000)	(0.0000)	(0.0000)
Coverage of Waters Squared	0.0000)	0.0000)	0.0000)	(0.0000)
coverage or maters squared	(0,0000)	(0,0000)	(0,0000)	(0,0001)
Coverage of Abandoned Areas Severad	0.0000	0.0000)	0.0000)	(0.0000) 0.0015*
Joverage of Abaliquited Areas Squared	(0.0010°)	(0,0009	(0,0013)	(0.0010)
A go	(0.0007)	0.0000	(0.0009)	0.0009)
nge		-0.0020***		-0.0230 ⁺⁺ (0.0119)
Ago Squarod		0.00058		(0.0112) 0.0002**
nge oquated		(0.0000)		-0.0002 ⁺⁺ (0.0001)
la Fomolo		(0.0000)		(0.0001)
is remate		(0.0042^{++})		
Ia Manniad		(0.0192) 0.1201***		0.0065
is married		(0.1321)		-0.0000
In Dimonood		(0.0500)		(0.0050)
Is Divorced		-0.1452^{+++}		-0.0910
la Widowod		(0.0394)		(0.0940)
is wildowed		(0.0390)		-0.2140
Hag Very Cood Health		(0.0497)		(0.1202)
has very Good nearth		(0.9801)		(0.020°)
		(0.0298)		(0.0300)
Has Very Bad Health		-2.2225		$-1.2264^{-1.1}$
a Disablad		(U.U400) 0.2105***		(0.0475)
IS DISADIED		-0.3105		-0.1390***
Lag Mignotion Declarge d		(0.0286)		(0.0458)
nas migration background		-0.0435°		
U Trutiana Damas		(0.0249)		0 1100
has fertiary Degree		0.0312		-0.1193
		(0.0211)		(0.0748)
has Lower Than Secondary Degree		-0.1456***		-0.0195
		(0.0275)		(0.1017)
s in Education		-0.0648		0.1156
		(0.0742)		(0.0832)
s Full-Time Employed		-0.1873***		0.0449
		(0.0391)		(0.0415)
s Part-Time Employed		-0.0792**		-0.0308
		(0.0368)		(0.0421)
s on Parental Leave		0.3548***		0.2782***
		(0.0644)		(0.0653)
s Unemployed		-0.9190***		-0.5215***
		(0.0412)		(0.0447)

Table B.2:	Results -	Final S	ample,	Satisfaction	With 1	Life,	OLS/FE	Models,	Coverages

Continued on next page

		Satisfaction	with Life	
Regressors	OLS	OLS	\mathbf{FE}	\mathbf{FE}
Individual Income ^a		0.1198***		0.0442**
		(0.0233)		(0.0199)
Has Child in Household		-0.0023		0.0195
		(0.0258)		(0.0370)
Household Income ^a		0.2957***		0.1380***
		(0.0173)		(0.0241)
Lives in House ^b		0.0087		0.0095
		(0.0413)		(0.0305)
Lives in Small Apartment Building		0.0370		0.0120
		(0.0426)		(0.0340)
Lives in Large Apartment Building		-0.0465		-0.0165
		(0.0303)		(0.0301)
Lives in High Rise		-0.0635		-0.0172
		(0.0700)		(0.0451)
Number of Rooms per Individual		0.1251^{***}		0.0142
		(0.0156)		(0.0204)
Unemployment Rate		-0.0375^{***}		-0.0222***
		(0.0033)		(0.0048)
Average Household Income		0.0000		0.0002
		(0.0001)		(0.0002)
Constant	6.9919^{***}	4.6442^{***}	6.7291^{***}	6.8627^{***}
	(0.0204)	(0.2090)	(0.1187)	(0.3773)
Number of Observations	42,256	33,782	42,256	33,782
Number of Individuals	8,014	$6,\!959$	8,014	$6,\!959$
F-Statistic	30.6700	175.3200	2.8400	391.3500
\mathbb{R}^2	0.0055	0.2013	0.0027	0.0575
Adjusted \mathbb{R}^2	0.0053	0.2005	0.0018	0.0557

Continued from previous page

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective coverage is measured as the hectares covered by the area of interest in a pre-defined buffer area of 1,000 metres around households. All figures are rounded to four decimal places.

	Satisf	action With Life
egressors	OLS - (1)	$\mathrm{FE}-(2)$
istance to Greens	-0.0379***	-0.0415***
	(0.0104)	(0.0137)
tance to Forests	-0.0085***	-0.0017
	(0.0026)	(0.0051)
stance to Waters	-0.0098**	0.0051
	(0.0039)	(0.0069)
stance to Abandoned Areas	0.0169^{***}	0.0272^{***}
	(0.0064)	(0.0101)
stance to Greens Squared	0.0022^{***}	0.0012^{*}
	(0.0007)	(0.0006)
tance to Forests Squared	0.0001^{***}	-0.0000
	(0.0000)	(0.0001)
tance to Waters Squared	0.0001	-0.0001
	(0.0001)	(0.0002)
tance to Abandoned Areas Squared	-0.0004	-0.0009**
	(0.0002)	(0.0004)
stance to City Centre	0.0002	-0.0008
	(0.0011)	(0.0029)
stance to City Periphery	0.0062^{***}	-0.0006
	(0.0022)	(0.0042)
tance to City Centre Squared	-0.0000	0.0000
	(0.0000)	(0.0000)
stance to City Periphery Squared	-0.0001***	0.0000
	(0.0000)	(0.0000)
2	-0.0177***	-0.0253*
	(0.0058)	(0.0151)
Squared	0.0002^{***}	0.0000
	(0.0001)	(0.0001)
Temale	0.0081	. ,
	(0.0294)	
Married	0.1384^{***}	-0.0990
	(0.0473)	(0.0754)
Divorced	-0.0698	-0.2950***
	(0.0620)	(0.1095)
Widowed	0.0712	-0.4654**
	(0.0665)	(0.1848)
s Very Good Health	1.0803***	0.3766^{***}
-	(0.0489)	(0.0386)
very Bad Health	-2.0663***	-1.3418***
	(0.0637)	(0.0683)
Disabled	-0.3204***	-0.2195***
	(0.0392)	(0.0662)
s Migration Background	-0.0186	· /
-	(0.0396)	
s Tertiary Degree	-0.0295	-0.1396
	(0.0321)	(0.0855)
S Lower Than Secondary Degree	-0.0121	-0.1645
v 0 ·	(0.0420)	(0.1207)
	()	
n Education	-0.0032	0.1781^{*}

1000000000000000000000000000000000000	Table B.3: Re	esults - Non-M	over/Mover Su	b-Samples,	Satisfaction	With Life,	, OLS/FE Model	s, Distances
---------------------------------------	---------------	----------------	---------------	------------	--------------	------------	----------------	--------------

	<u>s i rs</u> Satisf	action With Life
Regressors	$\mathrm{OLS}-(1)$	${ m FE}-(2)$
Is Full-Time Employed	-0.2024***	0.0891*
1 0	(0.0592)	(0.0540)
Is Part-Time Employed	-0.0896	-0.0362
	(0.0576)	(0.0536)
Is on Parental Leave	0.4196^{***}	0.2876***
	(0.1301)	(0.0749)
Is Unemployed	-0.8328***	-0.4954***
	(0.0693)	(0.0567)
Individual Income ^a	0.1114^{***}	0.0564^{*}
	(0.0342)	(0.0281)
Has Child in Household	-0.0411	0.0590
	(0.0433)	(0.0432)
Household Income ^a	0.3116^{***}	0.1469^{***}
	(0.0267)	(0.0290)
Lives in House ^b	0.0231	0.0105
	(0.0726)	(0.0383)
Lives in Small Apartment Building	0.0059	0.0089
	(0.0524)	(0.0451)
Lives in Large Apartment Building	-0.0154	-0.0225
	(0.0430)	(0.0297)
Lives in High Rise	0.0217	-0.0337
	(0.0936)	(0.0644)
Number of Rooms per Individual	0.1190^{***}	0.0202
	(0.0205)	(0.0268)
Unemployment Rate	-0.0353***	-0.0214***
	(0.0053)	(0.0064)
Average Household Income	0.0000	-0.0001
	(0.0001)	(0.0003)
Constant	3.8213^{***}	6.3752***
	(0.3303)	(0.5253)
Number of Observations	14,828	18,938
Number of Individuals	3,552	$3,\!407$
F-Statistic	81.6600	13.7500
\mathbb{R}^2	0.1957	0.2143
Adjusted \mathbb{R}^2	0.1936	0.2126

Continued from previous page

(1) Non-Mover Sub-Sample, (2) Mover Sub-Sample

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective distance is measured as the Euclidean distance in 100 metres between households and the border of the nearest area of interest. All figures are rounded to four decimal places.

	Satis	sfaction With Life
legressors	OLS - (1)	${ m FE}-(2)$
Coverage of Greens	-0.0008	0.0065**
Ŭ	(0.0014)	(0.0026)
Coverage of Forests	0.0010	-0.0021
	(0.0011)	(0.0020)
overage of Waters	0.0054**	-0.0044
Ŭ	(0.0023)	(0.0031)
Coverage of Abandoned Areas	-0.0308**	-0.0376**
-	(0.0133)	(0.0148)
overage of Greens Squared	-0.0000	-0.0001***
	(0.0000)	(0.0000)
overage of Forests Squared	0.0000	0.0000
с <u>-</u>	(0.0000)	(0.0000)
overage of Waters Squared	-0.0001**	0.0001^{*}
	(0.0000)	(0.0000)
Voverage of Abandoned Areas Squared	0.0018	0.0014
	(0.0015)	(0.0009)
1 ge	-0.0178***	-0.0248*
-0-	(0.0058)	(0.0150)
ge Squared	0.0002***	0.0000
-0 1	(0.0001)	(0.0001)
s Female	0.0049	(0.000-)
	(0.0295)	
5 Married	0.1440***	-0.0932
	(0.0472)	(0.0755)
Divorced	-0.0594	-0.2893***
Divolecu	(0.0621)	(0.1096)
s Widowed	0.0823	-0 4457**
11 Idowed	(0.0663)	(0.1847)
as Very Good Health	1 0727***	0.3741***
	(0.0490)	(0.0386)
as Very Bad Health	-2.0644***	-1 3419***
as very bad fication	(0.0638)	(0.0683)
a Disabled	-0.3208***	-0.2148***
Disabled	(0.0392)	(0.0662)
as Migration Background	-0.0238	(0.0002)
as migration Dackground	(0.0200)	
las Tertiary Degree	-0.0471	-0 1587*
as fernary Degree	(0.0320)	(0.0855)
as Lower Than Secondary Degree	-0.0213	-0 1593
as hower than becondary Degree	(0.0213)	(0.1206)
in Education	(0.0422) 0.0173	0.1785*
S III Education	(0.1606)	(0.0045)
Full Time Employed	0.1000)	(0.0945)
run-rune Employed	-0.2000 (0.0587)	(0.0540)
Part Time Employed	0.0307)	0.0345
s r art- r nne ranpioyeu	-0.0001	-0.0340
on Parantal Lasva	(0.0070) 0.4300***	(U.UJJU) 0.9796***
, on ratental Leave	(0.1201)	(0.0740)
Unomployed	(0.1301) 0.0420***	(U.U/49) 0 4055***
	-0.8478	-0.4955

10000 100000 100000 100000 100000 100000 10000000000	Table B.4: Results -	Non-Mover/	Mover Sub-Sam	ples, Satisfaction	With Life,	OLS/FE Models,	Coverages
--	----------------------	------------	---------------	--------------------	------------	----------------	-----------

	v I	Satisfaction With Life
Regressors	$\mathrm{OLS}-(1)$	${ m FE}-(2)$
Individual Income ^a	0.1084***	0.0543*
	(0.0338)	(0.0281)
Has Child in Household	-0.0315	0.0548
	(0.0432)	(0.0432)
Household Income ^a	0.3147***	0.1475***
	(0.0266)	(0.0289)
Lives in House ^b	0.0196	0.0093
	(0.0709)	(0.0381)
Lives in Small Apartment Building	0.0082	0.0072
	(0.0534)	(0.0449)
Lives in Large Apartment Building	-0.0249	-0.0227
	(0.0439)	(0.0302)
Lives in High Rise	-0.0105	-0.0347
	(0.0968)	(0.0640)
Number of Rooms per Individual	0.1215^{***}	0.0208
	(0.0203)	(0.0271)
Unemployment Rate	-0.0380***	-0.0212***
	(0.0050)	(0.0064)
Average Household Income	0.0000	-0.0001
	(0.0001)	(0.0003)
Constant	3.7212^{***}	6.3184^{***}
	(0.3307)	(0.4443)
Number of Observations	14,828	18,938
Number of Individuals	3,552	$3,\!407$
F-Statistic	88.6900	14.5100
R^2	0.1934	0.2146
Adjusted \mathbb{R}^2	0.1914	0.2131

Continued from previous page

(1) Non-Mover Sub-Sample, (2) Mover Sub-Sample

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective coverage is measured as the hectares covered by the area of interest in a pre-defined buffer area of 1,000 metres around households. All figures are rounded to four decimal places.

Table B.5: Results - Other Sub-Samples, Satisfaction With Life, FE Models, Distances

Ē	(1)	(0)	(6)	Satisfaction	Nith Life	(9)	Ĩ	(9)
Regressors	(1)	(2)	(3)	(4)	(c)	(0)	(2)	(8)
Distance to Greens	-0.0351^{*}	-0.0450^{**}	-0.1811^{***}	-0.0170	-0.0168	-0.0448	-0.0127	-0.0865***
	(0.0187)	(0.0197)	(0.0388)	(0.0150)	(0.0205)	(0.0279)	(0.0254)	(0.0215)
Distance to Forests	0.0030	-0.0065	-0.0130	-0.0034	0.0020	-0.0037	-0.0261^{**}	0.0082
	(0.0072)	(0.0071)	(0.0114)	(0.0058)	(0.0084)	(0.0078)	(0.0112)	(0.0063)
Distance to Waters	0.0112	-0.0002	0.0326^{*}	-0.0039	0.0162	-0.0015	0.0017	0.0046
	(0.0094)	(0.0098)	(0.0169)	(0.0076)	(0.0123)	(0.0101)	(0.0145)	(0.0088)
Distance to Abandoned Areas	0.0247^{*}	0.0305^{**}	0.0689^{***}	0.0153	0.0665^{***}	-0.0047	0.0165	0.0282^{**}
	(0.0139)	(0.0144)	(0.0235)	(0.0113)	(0.0161)	(0.0151)	(0.0194)	(0.0130)
Distance to Greens Squared	0.0006	0.0019^{**}	0.0089^{***}	0.0003	0.0005	0.0015	0.0003	0.0049^{***}
	(0.0009)	(0.0009)	(0.0023)	(0.0007)	(0.0007)	(0.0018)	(0.0009)	(0.0015)
Distance to Forests Squared	-0.0001	-0.0000	0.0000	0.0000	-0.0001	0.0001	0.0003^{*}	-0.0001^{*}
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0002)	(0.0001)
Distance to Waters Squared	-0.0002	-0.0000	-0.0007	0.0001	-0.0004	0.0000	0.0001	-0.0002
	(0.0002)	(0.0003)	(0.0005)	(0.0002)	(0.0003)	(0.0003)	(0.0004)	(0.0002)
Distance to Abandoned Areas Squared	-0.0008	-0.0010^{*}	-0.0021^{**}	-0.0006	-0.0020^{***}	-0.0000	-0.0002	-0.0009*
	(0.0005)	(0.0005)	(0.0008)	(0.0004)	(0.0006)	(0.0005)	(0.0007)	(0.0005)
Distance to City Centre	0.0033	-0.0055	-0.0159^{**}	0.0026	-0.0104^{**}	0.0047	0.0009	0.0029
	(0.0039)	(0.0042)	(0.0070)	(0.0047)	(0.0048)	(0.0045)	(0.0073)	(0.0034)
Distance to City Periphery	-0.0031	0.0027	-0.0433^{***}	0.0096^{**}	-0.0018	0.0030	0.0169^{*}	-0.0037
	(0.0060)	(0.0059)	(0.0108)	(0.0047)	(0.0069)	(0.0067)	(0.0091)	(0.0053)
Distance to City Centre Squared	-0.0000	0.0000	0.0000	-0.0000	0.0001^{**}	0.0000	-0.0000	-0.0000
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Distance to City Periphery Squared	0.0000	-0.0000	0.0004^{***}	-0.0001	0.0000	-0.0000	-0.0002**	0.0001
	(0.0001)	(0.0001)	(0.0001)	(0.0000)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
Age	-0.0106	-0.0408^{**}	0.0729^{**}	-0.0580**	-0.0329^{*}	-0.0247	-0.1261^{***}	-0.0069
	(0.0152)	(0.0168)	(0.0307)	(0.0242)	(0.0172)	(0.0172)	(0.0378)	(0.0141)
Age Squared	-0.0003**	-0.0001	-0.0010^{***}	0.0003	-0.0000	-0.0003**	0.0009^{*}	-0.0003***
	(0.0001)	(0.0001)	(0.0002)	(0.0003)	(0.0002)	(0.0001)	(0.0005)	(0.0001)
Is Married	-0.0367	0.0103	0.1888	0.0135	0.0301	-0.0757	-0.2300	0.1126
	(0.0932)	(0.0934)	(0.2325)	(0.0696)	(0.0896)	(0.1213)	(0.1418)	(0.0879)
Is Divorced	-0.1331	-0.0476	0.1130	-0.0406	0.0005	-0.0505	-0.2550	0.0563
	(0.1311)	(0.1373)	(0.2590)	(0.1119)	(0.1393)	(0.1575)	(0.1963)	(0.1249)
Is Widowed	-0.2622*	-0.1871	-0.1191	0.1617	-0.2263	-0.3302*	-0.1677	-0.1233
	(0.1585)	(0.2270)	(0.2568)	(0.5319)	(0.2511)	(0.1875)	(0.5173)	(0.1433)
Has Very Good Health	0.3908***	0.3341^{***}	0.3805^{***}	0.3555***	0.3273***	0.3692^{***}	0.2954^{***}	0.3697***
	(0.0439)	(0.0428)	(0.0607)	(0.0360)	(0.0389)	(0.0516)	(0.0559)	(0.0380)
Has Very Bad Health	-1.2075^{***}	-1.2483***	-1.1941***	-1.2842***	-1.4036^{***}	-1.1158***	-1.0596^{***}	-1.2139^{***}
	(0.0629)	(0.0727)	(0.0550)	(0.0982)	(0.0804)	(0.0627)	(0.1386)	(0.0509)
Is Disabled	-0.1378**	-0.1881***	-0.1388***	-0.2778***	-0.0527	-0.2075^{**}	0.0025	-0.1726^{++}
: : :	(0.0640)	(0.0657)	(0.0520)	(0.1058)	(0.0710)	(0.0649)	(0.1554)	(0.0486)
Has Tertiary Degree	0.0804	-0.3274***	-0.0834	-0.1445°	-0.0260	-0.2870^{**}	-0.1086	-0.1144
Une I amon Theor Considering Design	0.1771	(0.1076)	(0.2869)	(0.0804)	(0.1133) 0.9495	(0.1211) 0.9555*	(0801.0) 0 471 9**	0.1055
nas Lower 1 nan Secondary Degree	(0 1726)	1771.0	-0.00/9 /0.990E)	(0 106E)	0.2433	-0.2000	-0.4/10	0.1965)
Is in Education	(0.14/0)	(0.1428)	(0.3595) 0.4631	(0.1724**	-0.0555 -0.0555	(0.0784**	(0.2000) 0.4196**	(0.1203) 0.0984
	(0.1194)	(0.1184)	(1.6926)	(0.0863)	(0.1265)	(0.1244)	(0.1931)	(0.0975)
	1	Cont	inued on next	na.ae	1	/ /		<pre>/ - · · > > · > /</pre>
)	and	~ And				

			л г	r 0				
Regressors	(1)	(2)	(3)	Satisfaction (4)	n With Life (5)	(9)	(2)	(8)
		01000	10100	***	17		01000	**000000
is ruit-time Employed	0.0800	0000-	-0.0124	T007.0	-0.0141	0.14/2	0.1339	0.0002
	(0.0581)	(0.0611)	(0.0607)	(0.0601)	(0.0573)	(0.0672)	(0.0943)	(0.0488)
Is Part-Time Employed	-0.0006	-0.0974	-0.1339^{*}	0.1015^{*}	0.0325	-0.0557	0.0878	-0.1069^{**}
	(0.0515)	(0.0824)	(0.0688)	(0.0562)	(0.0575)	(0.0677)	(0.0783)	(0.0527)
Is on Parental Leave	0.2950^{***}	0.5278^{**}	0.1710	0.4057^{***}	0.3202^{***}	0.2477^{**}	0.2454^{***}	0.5380^{**}
	(0.0709)	(0.2619)	(0.7787)	(0.0689)	(0.0885)	(0.1092)	(0.0817)	(0.2683)
Is Unemployed	-0.4676^{***}	-0.5912^{***}	-0.5068***	-0.4410^{***}	-0.5133^{***}	-0.4988***	-0.4061^{***}	-0.5903^{***}
	(0.0627)	(0.0649)	(0.0678)	(0.0622)	(0.0745)	(0.0628)	(0.0900)	(0.0541)
Individual Income ^a	0.0225	0.0714^{**}	0.0201	0.0775^{**}	0.0437	0.0454	0.0326	0.0467*
	(0.0282)	(0.0308)	(0.0274)	(0.0306)	(0.0285)	(0.0321)	(0.0487)	(0.0235)
Has Child in Household	-0.0405	0.0846	0.1603^{*}	-0.0073	0.0279	-0.0517		
	(0.0523)	(0.0521)	(0.0864)	(0.0447)	(0.0456)	(0.0705)		
Household Income ^a	0.1471^{***}	0.1227^{***}	0.1384^{***}	0.1274^{***}	0.0963^{*}	0.1149^{***}	0.2215^{***}	0.1145^{***}
	(0.0339)	(0.0354)	(0.0427)	(0.0302)	(0.0539)	(0.0390)	(0.0666)	(0.0274)
Lives in House ^b	0.0209	-0.0017	0.0005	0.0270	0.0287	-0.0200	0.0031	0.0062
	(0.0532)	(0.0498)	(0.0409)	(0.0498)	(0.0334)	(0.0493)	(0.0556)	(0.0359)
Lives in Small Apartment Building	0.0166	0.0083	0.0198	0.0173	0.0130	0.0120	0.0237	0.0087
	(0.0535)	(0.0473)	(0.0596)	(0.0452)	(0.0380)	(0.0565)	(0.0603)	(0.0440)
Lives in Large Apartment Building	0.0004	-0.0357	-0.0149	-0.0096	0.0096	-0.0447	-0.0215	-0.0184
	(0.0421)	(0.0357)	(0.0419)	(0.0317)	(0.0324)	(0.0476)	(0.0415)	(0.0398)
Lives in High Rise	0.0140	-0.0485	0.0144	-0.0256	-0.0402	0.0204	-0.0531	0.0052
	(0.0825)	(0.0689)	(0.0602)	(0.0751)	(0.0641)	(0.0667)	(0.1085)	(0.0504)
Number of Rooms per Individual	0.0110	0.0202	0.0388	-0.0210	0.0322	0.0050	-0.0490	0.0278
	(0.0324)	(0.0241)	(0.0312)	(0.0274)	(0.0275)	(0.0318)	(0.0772)	(0.0249)
Unemployment Rate	-0.0255^{***}	-0.0183^{***}	-0.0258***	-0.0128^{*}	-0.0094	-0.0330^{***}	-0.0135	-0.0274^{***}
	(0.0067)	(0.0070)	(0.0068)	(0.0072)	(0.0066)	(0.0075)	(0.0107)	(0.0056)
Average Household Income	0.001	0.0003	0.0006*	-0.0002	-0.0002	0.0006^{*}	0.0002	0.0002
	(0.0003)	(0.0003)	(0.0003)	(0.0003)	(0.0003)	(0.0004)	(0.0005)	(0.0003)
Constant	6.6440^{***}	7.7063^{***}	6.2500^{***}	6.5588 * * *	7.6760^{***}	6.7902^{***}	7.3581^{***}	6.4217^{***}
	(0.6563)	(0.6740)	(1.2801)	(0.6477)	(0.7809)	(0.7546)	(1.1134)	(0.5834)
Number of Observations	17,886	15,896	16,524	17,258	17,153	16,629	8,226	25,556
Number of Individuals	3,647	3,312	3,248	4,309	4,392	4,271	2,170	5,702
F-Statistic	335.8400	602.1700	1,167.3600	177.0500	6,133.4500	442.2200	90.5700	298.3500
$ m R^2$	0.0570	0.0632	0.0667	0.0546	0.0546	0.0618	0.0495	0.0619
Adjusted \mathbb{R}^2	0.0535	0.0592	0.0640	0.0509	0.0514	0.0580	0.0443	0.0594
^a Annually in Euro/Inflation-Adjusted	l (Base Year 20	00), ^b Detacł	ied, Semi-Deta	ached, or Terr	aced			

Continued from previous page

Female Sub-Sample, (2) Male Sub-Sample, (3) Old-Age Sub-Sample, (4) Young-Age Sub-Sample,
 High-Income Sub-Sample, (6) Low-Income Sub-Sample, (7) Child Sub-Sample, (8) Non-Child Sub-Sample

псоше зивъзащие, (о) дом-лисоние завъзаниис, (т) Оним завъзанирие, (о) толи-Оним завъзанирие

Robust standard errors in parentheses *** p<0.01, ** p<0.05, * p<0.1

Note: The respective distance is measured as the Euclidean distance in 100 metres between households and the border of the nearest area of interest. All figures are rounded to four decimal places.

Table B.6: Results - Other Sub-Samples, Satisfaction With Life, FE Models, Coverages

ſ	(+)		(0)	Satisfaction	With Life	(0)	Ĩ	107
Kegressors	(1)	(2)	(3)	(4)	(c)	(0)	(j)	(8)
Coverage of Greens	0.0064^{*}	0.0064^{*}	0.0184^{***}	0.0036	0.0080^{**}	0.0099^{**}	0.0062	0.0059^{*}
	(0.0035)	(0.0037)	(0.0061)	(0.0029)	(0.0039)	(0.0040)	(0.0052)	(0.0032)
Coverage of Forests	-0.0015	-0.0025	-0.0004	-0.0012	0.0010	-0.0047	0.0043	-0.0030
	(0.0025)	(0.0033)	(0.0046)	(0.0023)	(0.0038)	(0.0030)	(0.0037)	(0.0027)
Coverage of Waters	-0.0083*	-0.0011	-0.0037	-0.0037	-0.0151^{**}	0.0079*	-0.0215^{***}	0.0026
	(0.0046)	(0.0042)	(0.0076)	(0.0035)	(0.0059)	(0.0048)	(0.0077)	(0.0038)
Coverage of Abandoned Areas	-0.0437^{*}	-0.0310	-0.0663**	-0.0201	-0.1957***	0.0004	-0.0166	-0.0542***
;	(0.0230)	(0.0193)	(0.0292)	(0.0190)	(0.0412)	(0.0214)	(0.0296)	(0.0183)
Coverage of Greens Squared	-0.0000	-0.0001**	-0.0002***	-0.0000	-0.0001	-0.0001***	-0.0001	-0.0001^{*}
	(0.0000)	(0.0000)	(0.0001)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)
Coverage of Forests Squared	0.0000	0.0000	0.0000	0.0000	-0.0000	0.0000	-0.0000	0.0000
	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.0000)	(0.000.0)
Coverage of Waters Squared	0.0001^{*}	0.0000	0.0000	0.0001^{*}	0.0002^{**}	-0.0000	0.0002^{**}	-0.0000
Commence of Abradiand Among Samuard	(0.0001)	(0.0000)	(0.0001)	(00000)	(0.0001)	(0.0001)	(0.0001)	(0.0000) 0.0000**
Coverage of Abandoned Areas oquared		(0100 0) / TOO'O		-0.0004 /0.001r/	(0,00,0)	1000.0	(e100.0-	0.00197
Age	(01000) -0.0116	-0.0392**	(0.0012) 0.0754**	(0100.0) -0.0588**	(0.0040) -0.0362**	-0.0211	-0.1213***	-0.0059
20	(0.0152)	(0.0168)	(0.0306)	(0.0242)	(0.0172)	(0.0172)	(0.0376)	(0.0141)
Age Squared	-0.0003**	-0.0001	-0.0010^{***}	0.0003	-0.0000	-0.0003**	0.0009*	-0.0003***
•	(0.0001)	(0.0001)	(0.0002)	(0.0003)	(0.0002)	(0.0001)	(0.0005)	(0.0001)
Is Married	-0.0274	0.0067	0.1655	0.0189	0.0352	-0.0641	-0.2040	0.1160
	(0.0932)	(0.0934)	(0.2327)	(0.0697)	(0.0897)	(0.1211)	(0.1414)	(0.0878)
Is Divorced	-0.1213	-0.0546	0.0709	-0.0373	0.0278	-0.0453	-0.2099	0.0591
	(0.1311)	(0.1375)	(0.2591)	(0.1120)	(0.1395)	(0.1572)	(0.1966)	(0.1249)
Is Widowed	-0.2420	-0.1875	-0.1054	0.1622	-0.1965	-0.3172^{*}	-0.1409	-0.1135
	(0.1583)	(0.2269)	(0.2570)	(0.5314)	(0.2505)	(0.1868)	(0.5170)	(0.1433)
Has Very Good Health	0.3902^{***}	0.3302^{***}	0.3791^{***}	0.3530^{***}	0.3269^{***}	0.3640^{***}	0.2955^{***}	0.3709^{***}
	(0.0439)	(0.0428)	(0.0608)	(0.0360)	(0.0388)	(0.0516)	(0.0559)	(0.0380)
has very bad health	-1.2092***	-1.248(***	-1.2014***		-1.4018***	-1.1130***	-1.0498***	-1.2101 ***
Ic Disabled	(0.1020) -0.1371**	(0.0121) -0 1860***	(0.000) -0.1346**	(0.09692**	(U.U8U4) -0.0545	(1200.0) 	(0.1384) 0.0046	(0.0009) -0 1696***
	(0.0640)	(0.0657)	(0.0521)	(0.1057)	(6020,0)	(0.0648)	(0.1553)	(0.0486)
Has Tertiary Degree	0.0632	-0.3300***	-0.0843	-0.1598^{**}	-0.0330	-0.2844^{**}	-0.1133	-0.1241
)	(0.1063)	(0.1075)	(0.2873)	(0.0804)	(0.1132)	(0.1212)	(0.1585)	(0.0918)
Has Lower Than Secondary Degree	-0.1715	0.1287	-0.5888	0.0097	0.2526	-0.2534^{*}	-0.4628^{**}	0.1219
	(0.1473)	(0.1425)	(0.3901)	(0.1064)	(0.1562)	(0.1524)	(0.2079)	(0.1264)
Is in Education	0.1229	0.0748	0.4660	0.1776^{**}	-0.0690	0.2910^{**}	0.4297 **	0.0980
	(0.1190)	(0.1183)	(1.6600)	(0.0863)	(0.1265)	(0.1244)	(0.1926)	(0.0974)
Is Full-Time Employed	0.0795	-0.0118	-0.0781	0.1999^{***}	-0.0141	0.1470^{**}	0.1555^{*}	0.0008
	(0.0581)	(0.0611)	(0.0606)	(0.0602)	(0.0571)	(0.0668)	(0.0915)	(0.0487)
Is Part-Time Employed	-0.0004	-0.0980	-0.1424^{**}	0.1018^{*}	0.0270	-0.0540	0.0984	-0.1057**
Is on Parental Levie	(GIGU.O) 0 9819***	(0.0824)	(0.0688) 0.1691	(0.0563) 0 3040***	(0.0575) 0 3140***	(0.0676) 0.2253**	(0.0773) 0 9788***	(0.0527) 0.4085*
	(0.070)	(0.2619)	(0.7798)	(0.0689)	(0.0885)	(0.1090)	(0.0814)	(0.2682)
Is Unemployed	-0.4709***	-0.5913^{***}	-0.5109^{***}	-0.4424^{***}	-0.5167^{***}	-0.4967^{***}	-0.3871^{***}	-0.5927 * * *
	(0.0627)	(0.0649)	(0.0678)	(0.0623)	(0.0744)	(0.0626)	(0.0876)	(0.0540)
		Conti	nued on next	vage				

		Continu	ed from previo	us page				
				Satisfaction	ı With Life			
Regressors	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)
Individual Income ^a	0.0215	0.0705^{**}	0.0174	0.0766^{**}	0.0418	0.0449	0.0398	0.0461^{*}
	(0.0282)	(0.0307)	(0.0272)	(0.0307)	(0.0282)	(0.0315)	(0.0398)	(0.0232)
Has Child in Household	-0.0455	0.0840	0.1539^{*}	-0.0084	0.0200	-0.0508		
	(0.0523)	(0.0521)	(0.0864)	(0.0447)	(0.0455)	(0.0704)		
Household Income ^a	0.1506^{***}	0.1207^{***}	0.1400^{***}	0.1293^{***}	0.0991^{*}	0.1126^{***}	0.2090^{***}	0.1143^{***}
	(0.0338)	(0.0353)	(0.0427)	(0.0302)	(0.0538)	(0.0389)	(0.0648)	(0.0274)
Lives in House ^b	0.0205	-0.0024	-0.0016	0.0278	0.0249	-0.0175	0.0096	0.0050
	(0.0540)	(0.0491)	(0.0407)	(0.0497)	(0.0334)	(0.0502)	(0.0456)	(0.0359)
Lives in Small Apartment Building	0.0158	0.0079	0.0171	0.0156	0.0122	0.0127	0.0450	0.0085
	(0.0536)	(0.0469)	(0.0585)	(0.0451)	(0.0384)	(0.0555)	(0.0566)	(0.0437)
Lives in Large Apartment Building	-0.0000	-0.0358	-0.0174	-0.0096	0.0095	-0.0442	0.0001	-0.0188
	(0.0424)	(0.0361)	(0.0421)	(0.0322)	(0.0325)	(0.0467)	(0.0388)	(0.0396)
Lives in High Rise	0.0114	-0.0465	0.0079	-0.0245	-0.0413	0.0207	-0.1345	0.0052
	(0.0819)	(0.0685)	(0.0610)	(0.0754)	(0.0650)	(0.0664)	(0.0873)	(0.0503)
Number of Rooms per Individual	0.0110	0.0205	0.0384	-0.0199	0.0278	0.0044	-0.1104^{**}	0.0267
	(0.0328)	(0.0241)	(0.0309)	(0.0274)	(0.0274)	(0.0313)	(0.0490)	(0.0248)
Unemployment Rate	-0.0251^{***}	-0.0185^{***}	-0.0237^{***}	-0.0132^{*}	-0.0096	-0.0330^{***}	-0.0154	-0.0271^{***}
	(0.0067)	(0.0070)	(0.0068)	(0.0072)	(0.0066)	(0.0075)	(0.0106)	(0.0056)
Average Household Income	0.0001	0.0003	0.0006^{*}	-0.0002	-0.0001	0.0006^{*}	0.0001	0.0002
	(0.0003)	(0.0003)	(0.0003)	(0.0003)	(0.0003)	(0.0004)	(0.0005)	(0.0003)
Constant	6.8905^{***}	7.3775^{***}	4.3171^{***}	6.8238^{***}	7.8716^{***}	6.8743^{***}	7.3522^{***}	6.6755^{***}
	(0.5256)	(0.5536)	(1.1226)	(0.5603)	(0.6762)	(0.6106)	(1.0055)	(0.4745)
Number of Observations	17,886	15,896	16,524	17,258	17,153	16,629	8,226	25,556
Number of Individuals	3,647	3,312	3,248	4,309	4,392	4,271	2,170	5,702
F-Statistic	358.9500	634.7800	1,246.8500	187.3400	5,134.3200	478.0600	97.9100	314.3900
${ m R}^2$	0.0571	0.0627	0.0638	0.0545	0.0546	0.0624	0.0486	0.0614
Adjusted \mathbb{R}^2	0.0538	0.0590	0.0613	0.0510	0.0516	0.0588	0.0438	0.0591
^a Annually in Euro/Inflation-Adjusted	l (Base Year 200	00), ^b Detach	ied, Semi-Deta	ched, or Terra	aced			

Female Sub-Sample, (2) Male Sub-Sample, (3) Old-Age Sub-Sample, (4) Young-Age Sub-Sample,
 High-Income Sub-Sample, (6) Low-Income Sub-Sample, (7) Child Sub-Sample, (8) Non-Child Sub-Sample

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective coverage is measured as the hectares covered by the area of interest in a pre-defined buffer area of 1,000 metres around households. All figures are rounded to four decimal places.

			Mental Health	1	
Regressors	(1)	(2)	(3)	(4)	(5)
Distance to Greens	0.1064	0.0890	0.1174	-0.0073	0.0004
	(0.0792)	(0.0788)	(0.0810)	(0.0823)	(0.0836)
Distance to Forests	-0.0679**	-0.0708**	-0.0371	0.0099	-0.0513
	(0.0309)	(0.0307)	(0.0316)	(0.0321)	(0.0325)
Distance to Waters	-0.0086	-0.0117	-0.0131	0.0029	0.0446
	(0.0408)	(0.0406)	(0.0417)	(0.0424)	(0.0430)
Distance to Abandoned Areas	0.0279	-0.0541	0.0243	0.2121***	-0.0156
	(0.0604)	(0.0601)	(0.0618)	(0.0628)	(0.0637)
Distance to Greens Squared	0.0014	0.0003	0.0022	0.0027	0.0004
	(0.0034)	(0.0034)	(0.0035)	(0.0035)	(0.0036)
Distance to Forests Squared	0.0010^{**}	0.0012^{***}	0.0004	-0.0000	0.0008*
	(0.0004)	(0.0004)	(0.0004)	(0.0004)	(0.0004)
Distance to Waters Squared	0.0006	0.0006	0.0004	-0.0002	-0.0004
	(0.0011)	(0.0010)	(0.0011)	(0.0011)	(0.0011)
Distance to Abandoned Areas Squared	0.0010	0.0033	0.0000	-0.0055**	0.0023
	(0.0022)	(0.0021)	(0.0022)	(0.0022)	(0.0023)
Distance to City Centre	-0.0014	-0.0165	-0.0117	0.0429^{**}	-0.0216
	(0.0174)	(0.0173)	(0.0178)	(0.0180)	(0.0183)
Distance to City Periphery	-0.0303	-0.0148	0.0088	-0.0329	-0.0141
	(0.0261)	(0.0260)	(0.0267)	(0.0272)	(0.0276)
Distance to City Centre Squared	-0.0000	0.0000	0.0001	-0.0002*	0.0001
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
Distance to City Periphery Squared	0.0001	-0.0001	-0.0002	0.0004	-0.0000
	(0.0003)	(0.0003)	(0.0003)	(0.0003)	(0.0003)
Age	0.2374^{***}	0.1658^{**}	0.1023	0.1732^{**}	0.1599^{**}
	(0.0744)	(0.0741)	(0.0760)	(0.0775)	(0.0785)
Age Squared	-0.0022***	-0.0021***	-0.0016**	-0.0034***	-0.0033***
	(0.0006)	(0.0006)	(0.0006)	(0.0006)	(0.0006)
Is Married	0.4562	0.4370	0.3392	0.3373	-0.4167
	(0.3833)	(0.3813)	(0.3919)	(0.3984)	(0.4042)
Is Divorced	-0.3317	-0.1028	0.1562	-0.7194	-1.2911**
T TT7·1 1	(0.5620)	(0.5589)	(0.5748)	(0.5843)	(0.5928)
Is Widowed	-2.7768^{***}	-3.4564^{***}	-1.8066**	-0.7540	-0.8507
Har Vanne Carad Harlth	(0.7070)	(0.7632)	(0.7857)	(0.7979)	(0.8092)
has very Good nearth	(0.1748)	(0.1728)	(0.1797)	(0.18100)	(0.1944)
Hag Vowy Pad Haalth	(0.1740) 2.6720***	(0.1730) 2.6010***	(0.1707) 2 7261***	(0.1010) 4 7951***	(0.1044)
has very bad health	$-3.0720^{-3.0}$	(0.2710)	-3.7301 (0.2787)	-4.7201	-3.2293
Is Disabled	(0.2720) 1 1440***	(0.2710) 1.3400***	(0.2707) 1.6884***	(0.2032)	(0.2071) 1.2102***
IS DISabled	(0.2703)	(0.2686)	(0.2766)	-0.9007	(0.2850)
Has Tortiary Dogroo	1 4810***	1 3001***	1.2340***	(0.2810) 0.4427	(0.2000) 1 1679**
has reithary Degree	(0.4362)	(0.4330)	(0.4459)	(0.4427)	(0.4597)
Has Lower Than Secondary Degree	-0.8908	-1 3032**	-0.3069	-0 1094	-1 8464***
has hower than secondary begree	(0.6066)	(0.6019)	(0.6191)	(0.6294)	(0.6384)
Is in Education	-0.4264	-0.4921	0.1663	-0.1730	-0.9711*
	(0.4910)	(0.4879)	(0.5017)	(0.5107)	(0.5180)
Is Full-Time Employed	-0.6616***	-1.0747***	0.1640	-0.3598	-0.5713**
	(0.2492)	(0.2502)	(0.2420)	(0.2644)	(0.2608)
Is Part-Time Employed	-0.1103	-0.2694	0.5372**	-0.2200	-0.4148
1 J J J	(0.2410)	(0.2399)	(0.2424)	(0.2511)	(0.2538)
	Continued of	on next page	·/	()	(

Table B.7: Results - Final Sample, Mental Health, FE Models, Distances

	<i>v</i>	1 10	Mental Health	1	
Regressors	(1)	(2)	(3)	(4)	(5)
Is on Parental Leave	0.6220	0.4754	1.0907***	0.0560	-0.4245
	(0.3802)	(0.3781)	(0.3892)	(0.3960)	(0.4006)
Is Unemployed	-0.7272***	-0.5750**	-0.4701*	-0.5987**	-0.4694*
	(0.2586)	(0.2581)	(0.2630)	(0.2722)	(0.2715)
Individual Income ^a	-0.0597	-0.0144	-0.0197	-0.0904	-0.0174
	(0.1328)	(0.1379)	(0.1126)	(0.1520)	(0.1301)
Has Child in Household	0.0155	0.2369	0.1578	-0.3143	0.0316
	(0.2243)	(0.2236)	(0.2292)	(0.2332)	(0.2363)
Household Income ^a	0.1214	0.1006	0.2071	0.0528	-0.0631
	(0.1389)	(0.1393)	(0.1425)	(0.1455)	(0.1470)
Lives in House ^b	0.0295	-0.0270	0.1556	-0.0070	0.0111
	(0.2236)	(0.2311)	(0.1645)	(0.1690)	(0.2185)
Lives in Small Apartment Building	0.1103	0.1609	0.0638	0.0294	0.0543
	(0.2243)	(0.2201)	(0.2362)	(0.1759)	(0.2267)
Lives in Large Apartment Building	0.0579	0.0134	0.1013	0.0999	0.0163
	(0.1503)	(0.1221)	(0.1761)	(0.1467)	(0.1921)
Lives in High Rise	0.0374	-0.0516	-0.0527	0.1039	0.2351
	(0.4149)	(0.4047)	(0.3451)	(0.4165)	(0.2997)
Number of Rooms per Individual	-0.0036	0.05897	0.0487	-0.1844	0.1844
	(0.1174)	(0.1176)	(0.1199)	(0.1219)	(0.1236)
Unemployment Rate	0.0301	-0.0203	0.0367	0.0336	0.0480
	(0.0278)	(0.0277)	(0.0285)	(0.0289)	(0.0293)
Average Household Income	-0.0004	-0.0006	0.0019	0.0027^{*}	0.0002
	(0.0014)	(0.0014)	(0.0014)	(0.0015)	(0.0015)
Constant	43.0761^{***}	49.8542^{***}	41.6980^{***}	41.5054^{***}	52.8272
	(2.9493)	(2.9248)	(3.0142)	(3.0648)	(3.0984)
Number of Observations	$24,\!389$	$24,\!391$	$24,\!391$	$24,\!391$	$24,\!391$
Number of Individuals	$5,\!510$	$5,\!510$	$5,\!510$	5,510	$5,\!510$
F-Statistic	1,737.6900	797.8900	2,034.0400	$2,\!270.5200$	247.5800
R^2	0.0250	0.0298	0.0240	0.0283	0.0254
Adjusted \mathbb{R}^2	0.0222	0.0270	0.0212	0.0255	0.0227

Continued from previous page

(1) Mental Health Summary Scale, (2) Mental Health in General,

(3) Role-Emotional Functioning, (4) Social Functioning, (5) Vitality

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective distance is measured as the Euclidean distance in 100 metres between households and the border of the nearest area of interest. All figures are rounded to four decimal places.

			Montol Hoolth		
Rogrossors	(1)	(2)	(3)	(4)	(5)
Regressors	(1)	(2)	(5)	(4)	(0)
Coverage of Greens	0.0159	0.0071	-0.0028	0.0366^{**}	0.0291^{*}
	(0.0148)	(0.0147)	(0.0151)	(0.0154)	(0.0156)
Coverage of Forests	0.0166	0.0254^{**}	-0.0026	0.0232*	0.0125
	(0.0125)	(0.0124)	(0.0128)	(0.0130)	(0.0132)
Coverage of Waters	0.0058	-0.0159	0.0239	0.0242	0.0007
~	(0.0189)	(0.0188)	(0.0193)	(0.0196)	(0.0199)
Coverage of Abandoned Areas	-0.3885***	-0.2661***	-0.2092**	-0.4867***	-0.1641*
	(0.0882)	(0.0877)	(0.0902)	(0.0916)	(0.0930)
Coverage of Greens Squared	-0.0003*	-0.0001	-0.0001	-0.0005***	-0.0002
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
Coverage of Forests Squared	-0.0001	-0.0001	0.0000	-0.0001	-0.0000
~	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
Coverage of Waters Squared	-0.0001	0.0003	-0.0001	-0.0003	-0.0003
	(0.0002)	(0.0002)	(0.0002)	(0.0002)	(0.0002)
Coverage of Abandoned Areas Squared	0.0166^{***}	0.0092^{**}	0.0086*	0.0235^{***}	0.0073
	(0.0047)	(0.0047)	(0.0048)	(0.0049)	(0.0050)
Age	0.2399^{***}	0.1642^{**}	0.0984	0.1727^{**}	0.1681^{**}
	(0.0742)	(0.0739)	(0.0759)	(0.0773)	(0.0783)
Age Squared	-0.0022***	-0.0021***	-0.0016**	-0.0034***	-0.0034***
	(0.0006)	(0.0006)	(0.0006)	(0.0006)	(0.0006)
Is Married	0.4428	0.4045	0.3175	0.3425	-0.4350
	(0.3828)	(0.3808)	(0.3915)	(0.3976)	(0.4036)
Is Divorced	-0.2965	-0.1026	0.1521	-0.6579	-1.2735^{**}
	(0.5620)	(0.5590)	(0.5749)	(0.5839)	(0.5928)
Is Widowed	-2.7533^{***}	-3.4557^{***}	-1.8248^{**}	-0.7056	-0.7985
	(0.7669)	(0.7627)	(0.7851)	(0.7967)	(0.8084)
Has Very Good Health	0.6747^{***}	1.4653^{***}	0.9377^{***}	0.8044^{***}	1.3837^{***}
	(0.1749)	(0.1739)	(0.1788)	(0.1815)	(0.1844)
Has Very Bad Health	-3.6645^{***}	-3.6825***	-3.7322***	-4.7255^{***}	-3.2241***
	(0.2726)	(0.2710)	(0.2787)	(0.2830)	(0.2871)
Is Disabled	-1.1566^{***}	-1.3557^{***}	-1.6868^{***}	-0.9204***	-1.3285^{***}
	(0.2703)	(0.2686)	(0.2765)	(0.2807)	(0.2849)
Has Tertiary Degree	1.4150^{***}	1.3613^{***}	1.1549^{***}	0.4250	1.1261^{**}
	(0.4354)	(0.4331)	(0.4451)	(0.4526)	(0.4588)
Has Lower Than Secondary Degree	-0.9378	-1.3270**	-0.3730	-0.1113	-1.8663^{***}
	(0.6063)	(0.6018)	(0.6190)	(0.6287)	(0.6381)
Is in Education	-0.4578	-0.5387	0.1619	-0.1842	-0.9944*
	(0.4906)	(0.4876)	(0.5014)	(0.5100)	(0.5176)
Is Full-Time Employed	-0.6791^{***}	-1.0778^{***}	0.1438	-0.3746	-0.5967^{**}
	(0.2486)	(0.2497)	(0.2418)	(0.2637)	(0.2604)
Is Part-Time Employed	-0.1385	-0.2864	0.5140**	-0.2466	-0.4432*
	(0.2408)	(0.2398)	(0.2424)	(0.2507)	(0.2537)
Is on Parental Leave	0.6027	0.4729	1.0540***	-0.0140	-0.4055
	(0.3805)	(0.3785)	(0.3896)	(0.3961)	(0.4009)
Is Unemployed	-0.7406***	-0.5895**	-0.4818*	-0.6162^{**}	-0.4699*
	(0.2585)	(0.2580)	(0.2632)	(0.2720)	(0.2715)
Individual Income ^a	-0.0598	-0.0176	-0.0148	-0.0933	-0.0164
	(0.1317)	(0.1370)	(0.1125)	(0.1511)	(0.1299)
Has Child in Household	0.0167	0.2293	0.1693	-0.3375	0.0722
	(0.2244)	(0.2238)	(0.2293)	(0.2331)	(0.2363)
	Continued o	on next page	- /	. ,	

Table B.8: Results - Final Sample, Mental Health, FE Models, Coverages

~	J	Free Free Free Free Free Free Free Free			
]	Mental Health	1	
Regressors	(1)	(2)	(3)	(4)	(5)
Household Income ^a	0.1398	0.1125	0.2262	0.0554	-0.0298
	(0.1385)	(0.1390)	(0.1422)	(0.1452)	(0.1466)
Lives in House ^b	0.0391	-0.0216	0.1634	-0.0045	0.0137
	(0.2258)	(0.2327)	(0.1658)	(0.1676)	(0.2185)
Lives in Small Apartment Building	0.1146	0.1634	0.0645	0.0352	0.0577
	(0.2262)	(0.2218)	(0.2366)	(0.1776)	(0.2266)
Lives in Large Apartment Building	0.0574	0.0152	0.0985	0.0967	0.0165
	(0.1517)	(0.1228)	(0.1770)	(0.1463)	(0.1927)
Lives in High Rise	0.0452	-0.0427	-0.0442	0.1050	0.2295
	(0.4161)	(0.4052)	(0.3452)	(0.4158)	(0.2979)
Number of Rooms per Individual	0.0117	0.0644	0.0594	-0.1651	0.1975
	(0.1173)	(0.1177)	(0.1197)	(0.1217)	(0.1235)
Unemployment Rate	0.0296	-0.0210	0.0345	0.0339	0.0475
	(0.0278)	(0.0277)	(0.0285)	(0.0289)	(0.0293)
Average Household Income	-0.0003	-0.0005	0.0020	0.0028^{*}	0.0002
	(0.0014)	(0.0014)	(0.0014)	(0.0014)	(0.0015)
Constant	41.6706^{***}	47.7226***	40.9261^{***}	44.9021^{***}	50.6260^{***}
	(2.4580)	(2.4375)	(2.5106)	(2.5519)	(2.5780)
Number of Observations	$24,\!389$	$24,\!391$	$24,\!391$	$24,\!391$	24,391
Number of Individuals	$5,\!510$	5,510	5,510	5,510	5,510
F-Statistic	1,779.8700	838.3400	$2,\!146.7100$	$2,\!396.1200$	258.4200
\mathbb{R}^2	0.0249	0.0295	0.0236	0.0294	0.0255
Adjusted \mathbb{R}^2	0.0224	0.0269	0.0210	0.0269	0.0230

Continued from previous page

^a Annually in Euro/Inflation-Adjusted (Base Year 2000), ^b Detached, Semi-Detached, or Terraced

Mental Health Summary Scale, (2) Mental Health in General,
 Role-Emotional Functioning, (4) Social Functioning, (5) Vitality

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective coverage is measured as the hectares covered by the area of interest in a pre-defined buffer area of 1,000 metres around households. All figures are rounded to four decimal places.

		I	Physical Healt	h	
Regressors	(1)	(2)	(3)	(4)	(5)
Distance to Greens	-0.0757	-0.0484	-0.0036	-0.0653	-0.0616**
	(0.0600)	(0.0750)	(0.0746)	(0.0627)	(0.0164)
Distance to Forests	0.0349	-0.0001	-0.0197	0.0523^{**}	-0.0132**
	(0.0234)	(0.0292)	(0.0290)	(0.0244)	(0.0063)
Distance to Waters	0.0485	0.0280	0.0509	-0.0096	0.0021
	(0.0308)	(0.0385)	(0.0383)	(0.0322)	(0.0084)
Distance to Abandoned Areas	0.0156	-0.0460	-0.0639	0.1310^{***}	-0.0106
	(0.0456)	(0.0570)	(0.0567)	(0.0476)	(0.0125)
Distance to Greens Squared	0.0008	0.0011	0.0012	0.0022	0.0023^{**}
	(0.0026)	(0.0032)	(0.0032)	(0.0027)	(0.0007)
Distance to Forests Squared	-0.0005*	-0.0000	0.0001	-0.0005*	0.0001
	(0.0003)	(0.0004)	(0.0004)	(0.0003)	(0.0001)
Distance to Waters Squared	-0.0015^{*}	-0.0011	-0.0013	-0.0001	0.0002
	(0.0008)	(0.0010)	(0.0010)	(0.0008)	(0.0002)
Distance to Abandoned Areas Squared	-0.0007	0.0017	0.0031	-0.0044***	0.0005
	(0.0016)	(0.0020)	(0.0020)	(0.0017)	(0.0004)
Distance to City Centre	-0.0057	-0.0114	0.0027	0.0093	0.0020
	(0.0131)	(0.0164)	(0.0163)	(0.0137)	(0.0036)
Distance to City Periphery	0.0330^{*}	0.0596^{**}	-0.0005	0.0345^{*}	0.0016
· - ·	(0.0198)	(0.0247)	(0.0246)	(0.0207)	(0.0054)
Distance to City Centre Squared	0.0001^{*}	0.0002^{*}	0.0000	0.0001	-0.0000
<i>v</i> 1	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0000)
Distance to City Periphery Squared	-0.0002	-0.0004*	0.0002	-0.0003	0.0001
v i v i	(0.0002)	(0.0002)	(0.0002)	(0.0002)	(0.0001)
Age	-0.0809	-0.0894	0.1629^{**}	-0.0051	0.3568**
0	(0.0567)	(0.0708)	(0.0703)	(0.0590)	(0.0153)
Age Squared	-0.0032***	-0.0018***	-0.0036***	-0.0047***	-0.0022**
	(0.0005)	(0.0006)	(0.0006)	(0.0005)	(0.0001)
Is Married	-0.4054	-0.0875	-0.2917	-0.5361^{*}	0.1826*
	(0.2890)	(0.3611)	(0.3591)	(0.3018)	(0.0792)
Is Divorced	-0.4003	-0.3123	0.1113	-0.6768	0.3055**
	(0.4256)	(0.5317)	(0.5291)	(0.4446)	(0.1159)
Is Widowed	0.7888	-0.9545	-0.5725	-0.0116	0.7260**
	(0.5823)	(0.7277)	(0.7239)	(0.6083)	(0.1569)
Has Very Good Health	2.7767***	1.1459***	1.3418***	0.8816***	-0.1534**
	(0.1323)	(0.1652)	(0.1644)	(0.1381)	(0.0361)
Has Very Bad Health	-4.6105***	-3.9816***	-4.1242***	-2.8349***	-0.0187
	(0.2072)	(0.2592)	(0.2576)	(0.2164)	(0.0558)
Is Disabled	-1.6948***	-1.6371***	-1.5502***	-2.1676***	0.1307**
	(0.2056)	(0.2568)	(0.2559)	(0.2147)	(0.0554)
Has Tertiary Degree	-0.4218	0.2908	-0.5731	0.5556	-0.1609*
	(0.3313)	(0.4133)	(0.4111)	(0.3454)	(0.0911)
Has Lower Than Secondary Degree	-0.1804	-0.4629	-0.6920	-0.6780	-0.0827
	(0.4598)	(0.5744)	(0.5718)	(0.4804)	(0.1264)
Is in Education	0.6090	0.7714^{*}	1.4554***	-0.3288	0.0786
	(0.3730)	(0.4664)	(0.4636)	(0.3889)	(0.1009)
Is Full-Time Employed	0.1723	-0.3025	0.2937	-0.1519	-0 0244
	(0.2025)	(0.2496)	(0.2424)	(0.1997)	(0.0506)
Is Part-Time Employed	0.1255	-0 2153	0.3868*	0.0150	-0.0785
is rare rine Employed	(0.1865)	(0.2312)	(0.2289)	(0.1913)	(0.0496)
	Continued of	(0.2012)	(0.2200)	(0.1010)	(0.0100)

Table B.9: Results - Final Sample, Physical Health, FE Models, *Distances*

	U U	<u> </u>	Physical Healt	h	
Regressors	(1)	(2)	(3)	(4)	(5)
Is on Parental Leave	-0.2075	0.4756	0.3354	-0.5379*	0.4378***
	(0.2894)	(0.3616)	(0.3599)	(0.3018)	(0.0785)
Is Unemployed	0.1095	0.3442	0.0444	-0.4330**	0.0287
	(0.2036)	(0.2520)	(0.2501)	(0.2081)	(0.0536)
Individual Income ^a	0.0263	0.0764	-0.0629	0.0490	-0.0057
	(0.1276)	(0.1527)	(0.1457)	(0.1132)	(0.0270)
Has Child in Household	-0.0318	-0.1355	-0.4218**	0.3994**	-0.0216
	(0.1702)	(0.2127)	(0.2114)	(0.1776)	(0.0464)
Household Income ^a	-0.0109	-0.0689	0.0726	0.0275	0.0752^{***}
	(0.1058)	(0.1319)	(0.1328)	(0.1102)	(0.0290)
Lives in House ^b	0.0630	0.0836	0.0557	0.0077	0.0319
	(0.1181)	(0.1533)	(0.1758)	(0.1119)	(0.0372)
Lives in Small Apartment Building	-0.0108	-0.0610	-0.0269	0.0611	0.0340
	(0.1327)	(0.1806)	(0.1849)	(0.1295)	(0.0344)
Lives in Large Apartment Building	0.0713	0.0291	0.1034	0.0686	0.0085
	(0.0937)	(0.1048)	(0.1472)	(0.0943)	(0.0388)
Lives in High Rise	0.0496	0.1677	-0.0291	-0.0585	0.0260
	(0.2034)	(0.3949)	(0.2758)	(0.2097)	(0.0523)
Number of Rooms per Individual	0.1226	0.1711	0.0605	0.0508	-0.0282
	(0.0877)	(0.1094)	(0.1096)	(0.0915)	(0.0240)
Unemployment Rate	0.0229	0.0552^{**}	0.1162^{***}	-0.0497^{**}	0.0089
	(0.0211)	(0.0263)	(0.0263)	(0.0220)	(0.0057)
Average Household Income	0.0045^{***}	0.0037^{***}	0.0021	0.0066^{***}	-0.0007**
	(0.0011)	(0.0013)	(0.0013)	(0.0011)	(0.0003)
Constant	54.1710^{***}	52.1199^{***}	43.6738^{***}	52.0289^{***}	13.1646^{***}
	(2.2290)	(2.7771)	(2.7603)	(2.3234)	(0.6061)
Number of Observations	$24,\!542$	$24,\!542$	$24,\!542$	$24,\!542$	$25,\!527$
Number of Individuals	$5,\!556$	$5,\!556$	$5,\!556$	$5,\!556$	$5,\!615$
F-Statistic	335.0100	678.8300	1,791.1800	396.5800	347.3900
\mathbb{R}^2	0.0909	0.0315	0.0363	0.0581	0.0700
Adjusted \mathbb{R}^2	0.0883	0.0288	0.0336	0.0555	0.0675

Continued from previous page

(1) Physical Health Summary Scale, (2) Bodily Pain,(3) Role-Physical Functioning, (4) Physical Functioning, (5) Body-Mass Index

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective distance is measured as the Euclidean distance in 100 metres between households and the border of the nearest area of interest. All figures are rounded to four decimal places.

		Ī	Physical Healt	h	
Regressors	(1)	(2)	(3)	(4)	(5)
Coverage of Greens	0.0120	0.0324**	0.0112	0.0091	0.0023
0	(0.0112)	(0.0140)	(0.0139)	(0.0117)	(0.0031)
Coverage of Forests	0.0095	0.0174	0.0075	0.0135	-0.0051**
0	(0.0094)	(0.0118)	(0.0117)	(0.0098)	(0.0026)
Coverage of Waters	0.0062	-0.0124	0.0076	0.0121	-0.0068*
0	(0.0143)	(0.0178)	(0.0178)	(0.0149)	(0.0039)
Coverage of Abandoned Areas	0.0944	0.0842	0.0382	-0.1389**	0.0464**
-	(0.0666)	(0.0832)	(0.0828)	(0.0696)	(0.0183)
Coverage of Greens Squared	0.0000	-0.0001	-0.0001	-0.0000	-0.0000
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0000)
Coverage of Forests Squared	-0.0001	-0.0001	-0.0001	-0.0001	0.0000**
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0000)
Coverage of Waters Squared	-0.0001	0.0002	-0.0002	-0.0001	-0.0000
	(0.0002)	(0.0002)	(0.0002)	(0.0002)	(0.0000)
Coverage of Abandoned Areas Squared	-0.0044	-0.0043	-0.0011	0.0079^{**}	-0.0029***
	(0.0036)	(0.0045)	(0.0044)	(0.0037)	(0.0010)
Age	-0.0869	-0.0931	0.1664^{**}	-0.0140	0.3583^{***}
	(0.0565)	(0.0706)	(0.0701)	(0.0589)	(0.0153)
Age Squared	-0.0032***	-0.0017^{***}	-0.0037***	-0.0046***	-0.0022***
	(0.0005)	(0.0006)	(0.0006)	(0.0005)	(0.0001)
Is Married	-0.4343	-0.1496	-0.3004	-0.5568*	0.1751^{**}
	(0.2887)	(0.3606)	(0.3587)	(0.3015)	(0.0791)
Is Divorced	-0.4500	-0.3981	0.0732	-0.6681	0.2883^{**}
	(0.4257)	(0.5316)	(0.5291)	(0.4447)	(0.1159)
Is Widowed	0.7755	-0.9867	-0.5943	-0.0028	0.7155^{***}
	(0.5819)	(0.7269)	(0.7234)	(0.6080)	(0.1568)
Has Very Good Health	20.7784***	1.1461***	1.3419***	0.8794***	-0.1481***
	(0.1323)	(0.1652)	(0.1645)	(0.1382)	(0.0361)
Has Very Bad Health	-4.6137***	-3.9768***	-4.1263***	-2.8335***	-0.0184
	(0.2073)	(0.2591)	(0.2576)	(0.2165)	(0.0558)
Is Disabled	-1.6918***	-1.6321***	-1.5617***	-2.1597***	0.1308**
	(0.2055)	(0.2566)	(0.2559)	(0.2147)	(0.0554)
Has Tertiary Degree	-0.3993	0.2820	-0.5874	0.5776^{*}	-0.1567*
II. I man The Course down Down	(0.3306)	(0.4124)	(0.4103)	(0.3447)	(0.0909)
has Lower Than Secondary Degree	-0.1055	-0.4472	-0.7073	-0.0023	-0.0814
Is in Education	(0.4397) 0.6141	(0.5741) 0.7566	(0.3710) 1 4715***	(0.4803)	(0.1204)
IS III Education	(0.2728)	(0.4660)	(0.4622)	-0.3377	(0.0975)
Is Full Time Employed	(0.3728) 0.1685	(0.4000)	(0.4033)	(0.3667)	(0.1008)
is run-rime Employed	(0.2031)	(0.2501)	(0.2432)	(0.2002)	(0.0243)
Is Part Time Employed	(0.2031) 0.1215	(0.2301)	(0.2432) 0.3771	(0.2002)	(0.0504)
Is I art-Time Employed	(0.1213)	(0.2314)	(0.2201)	(0.1015)	(0.0495)
Is on Parental Leave	-0.2367	(0.2314) 0.4339	(0.2231) 0.3227	-0 5768*	0.0430) 0.4522***
	(0.2897)	(0.3619)	(0.3604)	(0.3022)	(0.0786)
Is Unemployed	0.1066	0.3346	0.0423	-0 4464**	0.0328
is enemployed	(0.2039)	(0.2522)	(0.2506)	(0.2084)	(0.0526)
Individual Income ^a	0.0265	0.0738	-0.0604	0.0481	-0.0051
	(0.1288)	(0.1538)	(0.1474)	(0.1144)	(0.0266)
Has Child in Household	-0.0217	-0.1336	-0.4047*	0.3962**	-0.0129
	(0.1702)	(0.2127)	(0.2115)	(0.1776)	(0.0464)
	Quiting 1	((0.2220)	(0)	(0.0101)

Table B.10: Results - Final Sample, Physical Health, FE Models, Coverages

Continued on next page

			N 1 1 1 1	1	
	(1	'hysical Healt	h	()
Regressors	(1)	(2)	(3)	(4)	(5)
Household Income ^a	-0.0059	-0.0549	0.0743	0.0375	0.0758^{***}
	(0.1057)	(0.1316)	(0.1326)	(0.1100)	(0.0288)
Lives in House ^b	0.0542	0.0776	0.0544	0.0021	0.0304
	(0.1198)	(0.1535)	(0.1767)	(0.1118)	(0.0374)
Lives in Small Apartment Building	-0.0120	-0.0634	-0.0256	0.0619	0.0325
	(0.1348)	(0.1816)	(0.1841)	(0.1305)	(0.0343)
Lives in Large Apartment Building	0.0692	0.0288	0.1022	0.0661	0.0081
	(0.0933)	(0.1046)	(0.1468)	(0.0942)	(0.0384)
Lives in High Rise	0.0418	0.1610	-0.0368	-0.0568	0.0224
	(0.2033)	(0.3915)	(0.2759)	(0.2098)	(0.0524)
Number of Rooms per Individual	0.1221	0.1669	0.0665	0.0519	-0.0292
	(0.0877)	(0.1093)	(0.1095)	(0.0915)	(0.0240)
Unemployment Rate	0.0214	0.0530^{**}	0.1154^{***}	-0.0512^{**}	0.0091
	(0.0211)	(0.0263)	(0.0263)	(0.0220)	(0.0057)
Average Household Income	0.0045^{***}	0.0037^{***}	0.0022	0.0066^{***}	-0.0007**
	(0.0011)	(0.0013)	(0.0013)	(0.0011)	(0.0003)
Constant	56.0114^{***}	53.1314^{***}	44.4040***	54.7648^{***}	13.2096^{***}
	(1.8598)	(2.3152)	(2.2971)	(1.9355)	(0.5025)
Number of Observations	24,542	24,542	24,542	24,542	25,527
Number of Individuals	$5,\!556$	5,556	$5,\!556$	$5,\!556$	$5,\!615$
F-Statistic	352.1400	700.9800	1,889.1800	419.4400	367.5800
\mathbb{R}^2	0.0904	0.0318	0.0359	0.0575	0.0695
Adjusted \mathbb{R}^2	0.0881	0.0292	0.0334	0.0550	0.0671

Continued from previous page

(1) Physical Health Summary Scale, (2) Bodily Pain,(3) Role-Physical Functioning, (4) Physical Functioning, (5) Body-Mass Index

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: The respective coverage is measured as the hectares covered by the area of interest in a pre-defined buffer area of 1,000 metres around households. All figures are rounded to four decimal places.

Regressors OLS OLS Access to Greens Below 10 Minutes 0.399*** 1.1382*** (0.2708) (0.3042) Access to Greens Between 10 to 20 Minutes 0.7451*** 1.0349*** Access to Greens Above 20 Minutes 0.7226** 0.6822** (0.2706) (0.0307) Age 0.0199 Age 0.0191 Age Squared 0.0003* (0.0002) Is Female 0.1705** 0.0003* Is Married 0.0078 0.0190 Is Married 0.0081 0.1705** Is Divorced 0.1308) 0.1308) Is Widowed 0.2592 0.0481 Has Very Good Health 1.0596*** 0.0239* Has Very Bad Health -2.8643*** 0.02398) Is Disabled 0.4329*** 0.0212) Has Migration Background -0.1667 0.0212) Has Inducation 0.1775 0.1175 Is Disabled 0.0228) 0.1333) Is in Education 0.1775 0.1177 Is Numerina Secon			· · · · · · · · · · · · · · · · · · ·
Integressors OLS OLS Access to Greens Below 10 Minutes 0.939*** 1.1382*** Access to Greens Between 10 to 20 Minutes 0.7451*** 1.0349*** Access to Greens Above 20 Minutes 0.2768) 0.03090 Access to Greens Above 20 Minutes 0.2768) 0.03275) Age 0.0199 0.0003* Age Squared 0.0003* 0.0003* Seguared 0.0003* 0.0003* is Married 0.0078 0.1705** Is Married 0.0301 0.1705** Is Divorced 0.1308) 0.2592 Has Very Good Health 0.2592 0.1796) Has Very Bad Health 0.2592 0.1667 (0.2012) Has Migration Background -0.1667 Has Migration Background -0.1667 0.1313) Is in Education 0.1775 0	D	Satisi	action With Life
Access to Greens Below 10 Minutes 0.3939^{***} 1.1382^{***} (0.2708) (0.3042) Access to Greens Between 10 to 20 Minutes (0.2746) (0.3090) Access to Greens Above 20 Minutes 0.7226^{**} 0.6822^{**} (0.2746) (0.3090) (0.3775) Age -0.0199 (0.0191) Age Squared 0.0003^* (0.0002) Is Female 0.1705^{**} (0.0002) Is Female 0.0078 (0.1206) Is Divorced 0.08801 (0.1308) Is Widowed 0.2592 $(0.1796)^*$ Has Very Good Health -2.8643^{***} (0.2388) Is Disabled 0.4329^{***} (0.00828) Has Wery Bad Health -2.8643^{***} (0.2398) Is Disabled 0.1303 (0.2126) Has Lower Than Secondary Degree -0.107 (0.1746) Is Full-Time Employed -0.2268^* (0.1330) Is Part-Time Employed 0.150^* (0.7535) Is Unemployed 0.0625 (0.735) Is Onernatal Leave 0.6865^{****	Regressors	OLS	ULS
(0.2708) (0.3042) Access to Greens Between 10 to 20 Minutes 0.7451^{***} 1.0349^{***} (0.2746) (0.3090) Access to Greens Above 20 Minutes 0.7226^{**} 0.6822^{**} (0.2708) (0.0390) Age -0.0199 (0.0191) (0.0002) Is Female 0.0003^* (0.0002) (0.0002) Is Female 0.0003^* $(0.1706)^*$ $(0.1706)^*$ Is Divorced 0.0001 (0.1206) (0.1308) Is Widowed 0.2592 (0.1796) (0.1308) Is Very Good Health $(0.0632)^*$ (0.0149) (0.2398) Is Disabled $(0.4329^{***})^*$ Is Disabled (0.2308) Is Disabled (0.0602) Has Lower Than Secondary Degree (0.1076) Is Part-Time Employed (0.1298) Is Part-Time Employed (0.1298) Is Part-Time Employed (0.1298) Is Part-Time Employed (0.0625) Is Unemployed (0.0625) </td <td>Access to Greens Below 10 Minutes</td> <td>0.9399^{***}</td> <td>1.1382^{***}</td>	Access to Greens Below 10 Minutes	0.9399^{***}	1.1382^{***}
Access to Greens Between 10 to 20 Minutes 0.7451^{***} 1.0340^{***} 0.2746° 0.6822^{**} 0.6822^{**} Access to Greens Above 20 Minutes 0.726^{**} 0.6822^{**} 0.2860° 0.0199° 0.003^{*} Age 0.0003^{*} 0.0003^{*} Age Squared 0.0003^{*} 0.0003^{*} Age Squared 0.0003^{*} 0.0003^{*} Is Female 0.1705^{**} 0.0007^{**} Is Married 0.0078^{*} 0.0078^{*} Is Divorced 0.0801^{**} 0.1206^{**} Is Widowed 0.2592^{**} 0.1796^{**} Itas Very Good Health 1.0596^{***} 0.1796^{**} Itas Very Bad Health 2.8643^{***} 0.2398^{**} Is Disabled 0.4329^{***} 0.00828^{**} Itas Is Disabled 0.4229^{***} 0.00828^{**} Itas Tertiary Degree -0.1667^{**} 0.0092^{**} Itas Lower Than Secondary Degree -0.1017^{**} 0.1313^{**} Ita Is an Education 0.1775^{**} 0.1775^{**} Is on Parental Leave $-0.$		(0.2708)	(0.3042)
(0.2746) (0.3090) Access to Greens Above 20 Minutes 0.7226^{**} (0.6822^{**}) Age -0.0199 (0.0191) Age Squared (0.0003^*) (0.0003^*) Is Female (0.1705^{**}) (0.0003^*) Is Female (0.1705^{**}) (0.1206) Is Divorced (0.1308) (0.1206) Is Divorced (0.1308) (0.1796) Has Very Good Health (0.592^{**}) (0.1796) Has Very Bad Health 0.2592 (0.1796) Has Very Bad Health 0.2398 (0.1208) Is Disabled 0.4329^{***} (0.0492) Has Migration Background -0.1667 (0.2012) Has Tertiary Degree -0.1017 (0.2012) Has Lower Than Secondary Degree -0.1017 (0.1303) Is in Education (0.1775) (0.1298) Is Part-Time Employed -0.2268^{*} (0.1330) Is on Parental Leave -0.8134 $(0.623)^{**}$ Individual Income ^a $(0.6864)^{**}$ $(0.6633^{**})^{**}$ Has Child in Household <td>Access to Greens Between 10 to 20 Minutes</td> <td>0.7451***</td> <td>1.0349***</td>	Access to Greens Between 10 to 20 Minutes	0.7451***	1.0349***
Access to Greens Above 20 Minutes $0.722^{6^{**}}$ $0.682^{2^{**}}$ (0.2860) 0.3275) Age -0.0199 (0.0003* $0.0003*$ (0.0002) Is Female 0.1705^{**} Is Female 0.1705^{**} $0.0002*$ Is Married 0.0978 (0.1206) Is Divorced 0.0801 (0.1308) Is Widowed 0.2592 (0.1796) Has Very Good Health 1.0596^{***} (0.1049) Has Very Good Health 0.3298 (0.3298) Is Disabled 0.4329^{***} (0.0828) Has Migration Background -0.1667 (0.2012) Has Tertiary Degree -0.1017 (0.2012) Has Lower Than Secondary Degree -0.1017 (0.1313) Is in Education (0.1775) (0.1300) Is on Parental Leave -0.8134 $(0.268*)$ Individual Income ^a (0.6033^{**}) (0.07535) Is Unemployed -0.6633^{**} (0.07535) Has Child in Household 0.1728 (0.0799) Lives in House ^b </td <td></td> <td>(0.2746)</td> <td>(0.3090)</td>		(0.2746)	(0.3090)
Age -0.0199 Age Squared 0.0003* Age Squared 0.0003* (0.0002) Is Female 0.1705** (0.0088) Is Married 0.0978 (0.1206) Is Divorced 0.0801 (0.1206) Is Divorced 0.0801 (0.1206) Is Divorced 0.0801 (0.1206) Is Divorced 0.2592 Has Very Good Health 1.0596*** (0.0499) Has Very Good Health -2.8643*** (0.02398) Is Disabled 0.4329*** (0.0828) Has Migration Background -0.1667 Has Migration Background -0.1667 (0.2012) Has Tertiary Degree -0.2704*** (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1446) Is Full-Time Employed -0.1850 (0.1298) Is Part-Time Employed -0.2268* (0.1330) Is on Parental Leave -0.8134 (0.7535) Is Unemployed -0.6633** (0.0623) Has Child in Household 0.1728 (0.0792) Lives in House ^b 0.0709	Access to Greens Above 20 Minutes	0.7226^{**}	0.6822^{++}
Age -0.0193 Age Squared (0.0191) Age Squared (0.0191) Is Female 0.1705^{**} (0.0002) Is Female Is Married 0.0978 (0.1206) Is Divorced Is Divorced (0.1308) Is Widowed 0.2592 (0.1796) Has Very Good Health (0.1796) Has Very Bad Health -2.8643^{***} (0.02398) Is Disabled 0.4329^{***} (0.0828) 0.4329^{***} (0.0828) 0.4329^{***} (0.0828) 0.4329^{***} (0.0828) 0.4329^{***} (0.0828) 0.4329^{***} Has Migration Background -0.1667 (0.0828) 0.1313 Is in Education 0.1775 (0.1300) 0.1313 Is in Education 0.1775 (0.1298) 0.1330 Is on Parental Leave -0.6033^{**} (0.7533) 0.1580^{**} Is Unemployed -0.6033^{**} (0.0625) 0.1728 </td <td>A mo</td> <td>(0.2800)</td> <td>(0.3275)</td>	A mo	(0.2800)	(0.3275)
Age Squared (0.0003^*) Is Female (0.0003^*) Is Married 0.0705^** Is Married (0.0688) Is Married (0.0206) Is Divorced (0.1308) Is Widowed 0.2592 (0.1308) (0.1308) Is Widowed 0.2592 (0.1796) (0.1796) Has Very Good Health (0.0598^**) (0.2398) (0.2398) Is Disabled 0.4329^{***} (0.2398) (0.2398) Is Disabled 0.4329^{***} (0.2012) (0.0828) Has Migration Background -0.1667 (0.2012) Has Lower Than Secondary Degree -0.1017 (0.1313) Is in Education 0.1775 (0.1208) Is Part-Time Employed -0.1850 (0.1298) Is On Parental Leave -0.6033^{**} (0.0753) Is Unemployed -0.6033^{**} Individual Income ^a 0.0586^{**} Has Child in Household 0.1728 Has Child in Household 0.0709	Age		(0.0199)
Ingo optimized (0.0002) Is Female $(0.1705^{**}$ Is Married (0.0688) Is Divorced (0.1206) Is Divorced (0.1308) Is Widowed (0.2592) Has Very Good Health (0.1049) Has Very Bad Health -2.8643^{***} (0.1049) Has Very Bad Health (0.2398) Is Disabled (0.2398) Is Disabled (0.0828) (0.0828) Has Migration Background -0.1667 (0.2012) Has Tertiary Degree (0.0692) (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) Is in Education 0.1775 (0.1446) Is Full-Time Employed -0.2268^* (0.1330) Is on Parental Leave -0.8134 (0.2684) (0.1618) Individual Income ^a 0.6865^{**} (0.0625) Has Child in Household 0.1728 (0.0792) (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0792) Lives in Small A	Age Squared		0.0003*
Is Female 0.770^{5*} Is Married (0.0688) Is Married 0.0978 0.1206 0.0801 Is Divorced 0.0801 0.1796 0.2592 0.0776 0.1796 Has Very Good Health 1.0596^{***} 0.01796 0.1796 Has Very Bad Health 2.843^{***} 0.2398 0.329^{***} Has Very Bad Health 0.2398 Is Disabled 0.4329^{***} 0.0828 0.4329^{***} 0.0828 0.4329^{***} 0.0828 0.4329^{***} 0.0692 0.1667 (0.2012) 0.3298^{***} Has Migration Background 0.1667 (0.0692) 0.0692 Has Lower Than Secondary Degree -0.1017 (0.0692) 0.1313 Is in Education 0.1775 (0.1298) 0.1330 Is Part-Time Employed -0.2268^{*} (0.1330) 0.0795 Is Unemployed -0.6033^{**} (0.0625)	iigo squarou		(0.0002)
Is Married (0.0688) Is Divorced (0.1206) Is Divorced (0.1308) Is Widowed 0.2592 (0.1308) (0.1308) Is Widowed 0.2592 (0.0796) (0.1308) Has Very Good Health (0.1049) Has Very Bad Health -2.8643*** (0.2012) (0.0828) Is Disabled (0.0828) Has Migration Background -0.1667 (0.0692) (0.0692) Has Tertiary Degree -0.2704*** (0.0692) (0.1313) Is in Education 0.1775 (0.1313) (0.1313) Is returne Employed -0.1850 (0.1298) (0.1330) Is on Parental Leave -0.8134 (0.128) (0.1330) Is Unemployed -0.6033** (0.0625) (0.0625) Has Child in Household 0.1728 (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0792) (0.075)	Is Female		0.1705**
Is Married $0.0978'$ Is Divorced (0.1206) Is Divorced (0.1308) Is Widowed (0.1308) Is Widowed (0.1796) Has Very Good Health (0.01796) Has Very Bad Health -2.8643^{***} (0.1049) Has Very Bad Health (0.2398) Is Disabled (0.0828) Is Output Has Migration Background (0.0828) Has Lower Than Secondary Degree -0.2704^{***} (0.0692) Is in Education 0.1775 Is Full-Time Employed -0.2268^* (0.1330) Is on Parental Leave (0.7535) (0.6284) Individual Income ^a (0.625) (0.625) Has Child in Household 0.1728 (0.0792)			(0.0688)
(0.1206) Is Divorced (0.1308) (0.1308) (0.1308) Is Widowed (0.1308) Is Widowed (0.1796) Has Very Good Health (0.0196) Has Very Bad Health (0.2398) Is Disabled 0.4329*** (0.02398) (0.0828) Has Migration Background (0.02012) Has Tertiary Degree -0.2704*** (0.0692) (0.1313) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1298) Is Full-Time Employed -0.1850 (0.1298) (0.1298) Is Part-Time Employed -0.2268* (0.0735) (0.025) Is Unemployed -0.6033** (0.0625) (0.0625) Has Child in Household 0.1728 (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0792) Lives in Small Apartment Building 0.1325	Is Married		0.0978
Is Divorced 0.0801 (0.1308) (0.1308) Is Widowed 0.2592 (0.1796) (0.1796) Has Very Good Health 1.0596^{***} (0.1049) (0.1049) Has Very Bad Health -2.8643^{***} (0.2398) (0.828) Is Disabled 0.4329^{***} (0.0828) (0.0828) Has Migration Background -0.1667 (0.0692) (0.0692) Has Tertiary Degree -0.2704^{***} (0.0692) (0.1313) Is in Education 0.1775 (0.1313) (0.1446) Is Full-Time Employed -0.1850 (0.1298) (0.1330) Is on Parental Leave -0.8134 (0.1330) (0.6633^{**}) Is Unemployed -0.6033^{**} Individual Income ^a 0.1580^{**} (0.0625) (0.6684) Individual Income ^a (0.0792) Lives in House ^b 0.0709 (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0735)			(0.1206)
Is Widowed (0.1308) Has Very Good Health (0.1796) Has Very Good Health (0.1049) Has Very Bad Health -2.8643*** (0.2398) (0.2398) Is Disabled (0.2398) Is Disabled (0.0828) Has Migration Background -0.1667 (0.0212) (0.0692) Has Tertiary Degree -0.2704*** (0.0692) (0.1313) Is in Education 0.1775 (0.1313) (0.1313) Is returne Employed -0.1850 (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.2684) (0.1330) Is on Parental Leave -0.6033** (0.2684) (0.1625) Has Child in Household 0.1728 Has Child in Household 0.1728 Uives in House ^b 0.00791 Lives in House ^b 0.0709 Uo0975) Lives in Small Apartment Building 0.1324	Is Divorced		0.0801
Is Widowed 0.2592 (0.1796) Has Very Good Health (0.1796) (1009) (0.1049) Has Very Bad Health -2.8643^{***} (0.2398) (0.2398) Is Disabled 0.4329^{***} (0.0828) (0.0828) Has Migration Background -0.1667 (0.2012) (0.2012) Has Tertiary Degree -0.2704^{***} (0.0692) (0.1313) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is in Education 0.1775 (0.1298) (0.1298) Is Part-Time Employed -0.2268^* (0.1298) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.2684) Individual Income ^a 0.1580^{**} (0.0625) (0.1618) Hauschold Income ^a 0.6865^{***} (0.0792) (0.0975) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324			(0.1308)
(0.1796) Has Very Good Health (0.1049) Has Very Bad Health -2.8643^{***} (0.2398) (0.2398) Is Disabled 0.4329^{***} (0.0828) (0.0828) Has Migration Background -0.1667 (0.2012) (0.2012) Has Tertiary Degree -0.1667 (0.2012) (0.2012) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is in Education 0.1775 (0.1446) (0.1446) Is Full-Time Employed -0.1850 (0.1298) (0.1330) Is on Parental Leave -0.8134 (0.1330) (0.1330) Is Unemployed -0.6033^{**} (0.0625) (0.0625) Is Unemployed -0.6033^{**} (0.07535) (0.1580) Has Child in Household 0.1728 (0.0792) (0.0792) Lives in House ^b 0.0709 (100975) Lives in Small Apartment Building 0.1324	Is Widowed		0.2592
Has Very Good Health 1.0596^{***} (0.1049) Has Very Bad Health -2.8643^{***} (0.2398) Is Disabled Is Disabled 0.4329^{***} (0.0828) 0.4329^{***} Has Migration Background -0.1667 (0.2012) Has Tertiary Degree -0.2704^{***} (0.0692) (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is in Education 0.1775 (0.1446) (0.1446) Is Full-Time Employed -0.1850 (0.1298) (0.1330) Is on Parental Leave -0.8134 (0.1330) (0.1330) Is Unemployed -0.603^{**} (0.0625) (0.0625) Is Unemployed 0.1580^{**} (0.02641) (0.1618) Individual Income ^a 0.6865^{***} (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0975) Lives in Small Apartment Building 0.1324			(0.1796)
(0.1049) Has Very Bad Health -2.8643^{***} (0.2398) Is Disabled 0.4329^{***} (0.0828) Has Migration Background -0.1667 (0.2012) Has Tertiary Degree -0.2704^{***} (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is in Education 0.1775 (0.1298) (0.1298) Is Part-Time Employed -0.8130 (0.1298) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.1330) Is Unemployed -0.6033^{**} (0.2684) (0.1618) Individual Income ^a (0.625) Has Child in Household 0.1728 (0.0792) (0.0792) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324	Has Very Good Health		1.0596^{***}
Has Very Bad Health -2.8643^{***} (0.2398) (0.2398) Is Disabled $(0.3298)^{***}$ (0.0828) (0.0828) Has Migration Background -0.1667 (0.2012) (0.2012) Has Tertiary Degree -0.2704^{***} (0.0692) (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is in Education 0.1775 (0.1298) (0.1298) Is Full-Time Employed -0.8150 (0.1298) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.7535) Is Unemployed -0.6033^{**} (0.2684) (0.1625) Individual Income ^a (0.625) Has Child in Household 0.1728 (0.0625) (0.0618) Household Income ^a (0.0792) Lives in House ^b (0.0792) Lives in Small Apartment Building (0.1324			(0.1049)
Is Disabled (0.4329^{***}) Has Migration Background (0.0828) Has Migration Background (0.2012) Has Tertiary Degree -0.1067 (0.0692) (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is n Education 0.1775 (0.1298) (0.1298) Is Full-Time Employed -0.268^* (0.1330) (0.1298) Is on Parental Leave (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.0625) Is Unemployed 0.1580^{**} (0.0625) (0.0625) Has Child in Household 0.1728 (0.0792) (0.0792) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324	Has Very Bad Health		-2.8643***
Is Disabled 0.4329^{***} Has Migration Background 0.01667 (0.2012) 0.2704^{***} Has Tertiary Degree -0.2704^{***} (0.0692) 0.2704^{***} Has Lower Than Secondary Degree -0.1017 (0.1313) 0.1775 (0.1446) 0.1775 (0.1446) 0.1298 Is Full-Time Employed -0.1850 (0.1298) 0.1298 Is Part-Time Employed -0.2268^* (0.1330) 0.1330 Is on Parental Leave -0.8134 (0.7535) 0.1580^{**} Is Unemployed -0.6033^{**} (0.2684) 0.1728 (0.1618) 0.1728 (0.1618) 0.0709 Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324 (0.2135) 0.2135			(0.2398)
Has Migration Background -0.1667 (0.2012) (0.2012) Has Tertiary Degree -0.2704*** (0.0692) (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is in Education 0.1775 (0.1446) (0.1298) Is Full-Time Employed -0.1850 (0.1298) (0.1298) Is Part-Time Employed -0.2268* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.0625) Is Unemployed -0.6033** (0.2684) (0.1618) Household Income ^a 0.6865*** (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0975) (0.0975)	Is Disabled		0.4329***
Has Migration Background -0.1007 (0.2012) (0.2012) Has Tertiary Degree -0.2704*** (0.0692) (0.1313) Has Lower Than Secondary Degree (0.1313) Is in Education 0.1775 (0.1446) (0.1298) Is Full-Time Employed -0.2268* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.2684) Individual Income ^a (0.1580** (0.0625) (0.1618) Household Income ^a (0.6865*** (0.0792) (0.0975) Lives in House ^b 0.0709 (0.2135) (0.2135)	II Mirmetian Deslamound		(0.0828)
Has Tertiary Degree -0.2704^{***} (0.0692) (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) (0.1313) Is in Education 0.1775 (0.1446) (0.1298) Is Full-Time Employed -0.1850 (0.1298) (0.1298) Is Part-Time Employed -0.2268^* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.2684) Individual Income ^a 0.1580^{**} (0.2684) (0.1618) Household Income ^a 0.6865^{***} (0.0792) (0.0792) Lives in House ^b 0.0709 (0.2135) (0.2135)	has Migration Background		-0.1007
Itals Fittually Degree (0.0692) Has Lower Than Secondary Degree -0.1017 (0.1313) Is in Education Is in Education 0.1775 (0.1446) (0.1298) Is Full-Time Employed -0.1850 (0.1298) (0.1298) Is Part-Time Employed -0.2268^* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.2684) Individual Income ^a (0.2684) Individual Income ^a (0.0625) Has Child in Household 0.1728 (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0975) (0.2135)	Has Tertiary Degree		-0.2704***
Has Lower Than Secondary Degree -0.1017 (0.1313) Is in Education (0.1313) 0.1775 (0.1446) (0.1446) Is Full-Time Employed -0.1850 (0.1298) (0.1298) Is Part-Time Employed -0.2268^* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.2684) Individual Income ^a (0.2684) Individual Income ^a (0.0625) Has Child in Household 0.1728 (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0975) (0.0975) Lives in Small Apartment Building 0.1324 (0.2135) 0.2135)	has fertiary Degree		(0.0692)
International of the product of th	Has Lower Than Secondary Degree		-0.1017
Is in Education 0.1775 (0.1446) (0.1446) Is Full-Time Employed -0.1850 (0.1298) (0.1298) Is Part-Time Employed -0.2268^* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.7535) Is Unemployed -0.6033^{**} (0.2684) (0.2684) Individual Income ^a (0.1580^{**}) (0.0625) (0.1618) Household Income ^a 0.6865^{***} (0.0792) (0.0975) Lives in House ^b 0.0709 (0.2135) 0.2135			(0.1313)
(0.1446) Is Full-Time Employed -0.1850 (0.1298) -0.2268* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.7535) Is Unemployed -0.6033** (0.2684) (0.2684) Individual Income ^a (0.1580** (0.0625) (0.1618) Household Income ^a (0.6865*** (0.0792) (0.0792) Lives in House ^b (0.0975) Lives in Small Apartment Building 0.1324 (0.2135) (0.2135)	Is in Education		0.1775
Is Full-Time Employed -0.1850 Is Part-Time Employed -0.2268^* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.7535) Is Unemployed -0.6033^{**} (0.2684) (0.6625) Has Child in Household 0.1728 (0.1618) (0.1618) Household Income ^a 0.6865^{***} (0.0792) (0.0975) Lives in House ^b 0.1324 (0.2135) (0.2135)			(0.1446)
Is Part-Time Employed (0.1298) Is on Parental Leave (0.1330) Is on Parental Leave (0.7535) Is Unemployed -0.6033^{**} (0.2684) (0.2684) Individual Income ^a (0.1298) Has Child in Household 0.1728 (0.1618) (0.0792) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324 (0.2135) (0.2135)	Is Full-Time Employed		-0.1850
Is Part-Time Employed -0.2268^* (0.1330) (0.1330) Is on Parental Leave -0.8134 (0.7535) (0.7535) Is Unemployed -0.6033^{**} (0.2684) (0.2684) Individual Income ^a (0.0625) Has Child in Household 0.1728 (0.1618) (0.1618) Household Income ^a 0.6865^{***} (0.0792) (0.0792) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324 (0.2135) $0.2135)$			(0.1298)
Is on Parental Leave (0.1330) Is Unemployed (0.7535) Is Unemployed -0.6033^{**} (0.2684) (0.2684) Individual Income ^a (0.1580^{**}) (0.0625) (0.1618) Household Income ^a (0.1618) Household Income ^a (0.0792) Lives in House ^b (0.0792) Lives in Small Apartment Building (0.1324) (0.2135) (0.2135)	Is Part-Time Employed		-0.2268*
Is on Parental Leave -0.8134 (0.7535) Is Unemployed -0.6033^{**} (0.2684) Individual Income ^a 0.1580^{**} (0.0625) Has Child in Household 0.1728 (0.1618) Household Income ^a 0.6865^{***} (0.0792) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324 (0.2135) $0.2135)$			(0.1330)
	Is on Parental Leave		-0.8134
Is Unemployed -0.6033^{**} Individual Income ^a (0.2684) Individual Income ^a (0.0625) Has Child in Household 0.1728 (0.1618) (0.1618) Household Income ^a 0.6865^{***} (0.0792) (0.0792) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324 (0.2135) (0.2135)			(0.7535)
$ \begin{array}{c} (0.2684) \\ (0.1580^{**} \\ (0.0625) \\ \\ \text{Has Child in Household} \\ (0.1618) \\ \\ \text{Household Income^a} \\ (0.0792) \\ \\ \\ \text{Lives in House^b} \\ (0.0792) \\ \\ \\ \text{Lives in Small Apartment Building} \\ (0.2135) \\ \end{array} $	Is Unemployed		-0.6033**
Individual Income 0.1380*** (0.0625) Has Child in Household 0.1728 (0.1618) Household Income ^a 0.6865*** (0.0792) Lives in House ^b 0.0709 (0.0975) Lives in Small Apartment Building 0.1324 (0.2135)	т 1 1 т а		(0.2684)
Has Child in Household (0.0623) Has Child in Household (0.1728) (0.1618) (0.0792) Lives in House ^b (0.0792) Lives in Small Apartment Building (0.1324) (0.2135)	Individual Income"		0.1580^{**}
Has Child in Household 0.1125 (0.1618) (0.1618) Household Income ^a 0.6865^{***} (0.0792) (0.0792) Lives in House ^b 0.0709 (0.0975) (0.1324) (0.2135) (0.2135)	Hag Child in Hausschold		(0.0625) 0.1728
Household Income ^a 0.6865*** (0.0792) Lives in House ^b 0.0709 (0.0975) Lives in Small Apartment Building 0.1324 (0.2135)	Has Chind in Household		(0.1728)
Itousened meene (0.0792) Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324 (0.2135)	Household Income ^a		0.6865***
Lives in House ^b 0.0709 Lives in Small Apartment Building 0.1324 (0.2135)			(0.0792)
Lives in Small Apartment Building 0.1324 (0.2135)	Lives in House ^b		0.0709
Lives in Small Apartment Building 0.1324 (0.2135)			(0.0975)
(0.2135)	Lives in Small Apartment Building		0.1324
	-		(0.2135)

Table B.11: Results - Final Sample, Satisfaction With Life, OLS Models, Access

Continued on next page

C	Free Free Proge	
	Satisfac	ction With Life
Regressors	OLS	OLS
Lives in Large Apartment Building		-0.0839
		(0.0762)
Lives in High Rise		0.0050
		(0.1160)
Number of Rooms per Individual		-0.0143
		(0.0328)
Constant	6.5773^{***}	-0.7972
	(0.2686)	(0.8121)
Number of Observations	3,265	2,783
F-Statistic	18.9300	21.2200
\mathbb{R}^2	0.0010	0.1774
Adjusted \mathbb{R}^2	0.0077	0.1691

Continued from previous page

^a Annually in Euro/Inflation-Adjusted (Base Year 2009), ^b Detached, Semi-Detached, or Terraced

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: All figures are rounded to four decimal places.

, $Access$
Models
, OLS
Condition
Medical 6
l Sample,
Fina]
Results -
Table B.12:

		1		Medical (Condition		ŝ	
Regressors	(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)
Access to Greens Below 10 Minutes	-0.0892	-0.0941^{*}	-0.0299	-0.1380^{***}	-0.0228	-0.1475^{**}	-0.0999*	-0.1052^{***}
	(0.0816)	(0.0568)	(0.0232)	(0.0499)	(0.0519)	(0.0626)	(0.0519)	(0.0400)
Access to Greens Between 10 to 20 Minutes	-0.0579	-0.1195^{**}	-0.0459^{*}	-0.1403^{***}	-0.0106	-0.1112^{*}	-0.0793	-0.1011^{**}
A martine Current A have 90 Minutes	(0.0829)	(0.0577)	(0.0235)	(0.0507)	(0.0527)	(0.0636)	(0.0527)	(0.0406)
Access to Greens Above 20 Millutes	0.50.0-	-0.1240	10500)	-0.1034 (0.0537)	-0.0134 (0.0559)	-0.0040 (0.0674)	-0.0550)	-0.0001 (0.0431)
Age	0.0015	-0.0204^{***}	-0.0099***	0.0006	-0.0013	-0.0128^{***}	-0.0035	0.0006
)	(0.0051)	(0.0036)	(0.0015)	(0.0031)	(0.0033)	(0.0039)	(0.0033)	(0.0025)
Age Squared	0.0001	0.0002^{***}	0.0001^{***}	0.0000	0.0000	0.0002^{***}	0.0001^{*}	0.0000
T - TJ TJ -	(0.0000)	(0.000)	(0.0000)	(0.000)	(0.0000)	(0.000)	(0.0000)	(0.0000)
Is remale	-0.0425	-0.0310***	-0.0153***	-0.0522***	0.0232***	(1710) (1710)	0.0035	(00000)
Is Married	0.0462	(0.0120) 0.0341	-0.0061	0.0454^{**}	0.0279	0.0167	0.0014	-0.0280^{*}
	(0.0323)	(0.0225)	(0.0092)	(0.0197)	(0.0205)	(0.0248)	(0.0205)	(0.0158)
Is Divorced	0.0064	0.0109	-0.0054	0.0007	0.0090	0.0015	0.0066	-0.0175
	(0.0350)	(0.0244)	(0.0100)	(0.0214)	(0.0223)	(0.0269)	(0.0223)	(0.0172)
Is Widowed	0.0413	-0.0390	-0.0345^{**}	0.0316	0.0628^{**}	0.0211	0.0432	-0.0585**
	(0.0481)	(0.0335)	(0.0137)	(0.0295)	(0.0306)	(0.0369)	(0.0306)	(0.0236)
IIas very GOUU ILEARUI	(0.0281)	-0.0136)	-0.200-0-	-0.0410 (0.0172)	-0.0203 (0 01 79)	-0.0033	(0.0179)	-0.0214 (0.0138)
Has Very Bad Health	0.0631	0.0561	0.1265^{***}	0.0280	0.1337***	0.0479	0.0809**	0.0787**
	(0.0643)	(0.0448)	(0.0183)	(0.0394)	(0.0409)	(0.0494)	(0.0409)	(0.0315)
Is Disabled	-0.0172	-0.0714^{***}	-0.0388***	-0.1104^{***}	-0.2421^{***}	-0.1356***	-0.1164***	-0.0417^{***}
	(0.0222)	(0.0154)	(0.0063)	(0.0136)	(0.0141)	(0.0170)	(0.0141)	(0.0109)
Has Migration Background	0.0209	0.0382	0.0248	0.0276	-0.0443	-0.0121	-0.0360	0.0113
II That i am a barree	(0.0039) 0.0006	(0.0370)	(901010) 0101***	(0.0330) 0.0148	(0.0343) 0.0970**	(0.0414)	(0.0343)	(0070.0)
nas teruary Degree	-0.0185)	0.01070)	-0.0153)	(0.0148)	(0.0118)	-0.0096 (0.0142)	0.0026 (0.0118)	(0.0091)
Has Lower Than Secondary Degree	-0.0493	-0.0148	-0.0160	0.0229	-0.0038	0.0049	-0.0055	-0.0096
)	(0.0350)	(0.0244)	(0.0100)	(0.0214)	(0.0223)	(0.0269)	(0.0223)	(0.0172)
Is in Education	-0.0089	0.0246	0.0020	-0.0109	0.0113	-0.0083	0.0165	-0.0032
I. Bull Thing Danialand	(0.0388)	(0.0270)	(0.0110)	(0.0237)	(0.0247)	(0.0297)	(0.0247)	(0.0190)
na runt tuno anna an	(0.0347)	(0.0242)	(6600'0)	(0.0212)	(0.0221)	(0.0266)	(0.0221)	(0.0170)
Is Part-Time Employed	-0.0219	0.0097	0.0114	-0.0015	-0.0217	-0.0083	0.0068	-0.0049
	(0.0356)	(0.0248)	(0.0101)	(0.0218)	(0.0226)	(0.0273)	(0.0226)	(0.0174)
Is on Parental Leave	-0.0176	0.2027	0.0206	0.0012	-0.0189	-0.0086	0.0051	0.0096
	(0.2021)	(0.1408)	(0.0574)	(0.1237)	(0.1286)	(0.1551)	(0.1285)	(0.0991)
Is Unemployed	-0.0645	0.0584	0.0133	0.0586	0.0136	-0.0431	-0.0050	0.0226
4 	(0.0720)	(0.0501)	(0.0204)	(0.0440)	(0.0458)	(0.0552)	(0.0458)	(0.0353)
Individual Income"	(70.0167)	0.0037	0.0006	-0.0067	0.0099	-0.0007	/0.00100/	-0.0041 (0.0081)
Has Child in Household	-0.0416	-0.0224	0.0152	(0.0102)	-0.0446	0.0584^{*}	0.0571^{**}	0.0632^{***}
	(0.0434)	(0.0302)	(0.0123)	(0.0265)	(0.0276)	(0.0333)	(0.0276)	(0.0213)
Household Income ^a	0.0138	-0.0017	0.0085	-0.0230^{*}	0.0176	-0.0028	-0.0144	-0.0004
	(0.0212)	(0.0148)	(0.0060)	(0.0130)	(0.0135)	(0.0163)	(0.0135)	(0.0104)
		Continu	ted on next pa	ge				

		Continued	from previous	page				
				Medical (Condition			
Regressors	(1)	(2)	(3)	(4)	(5)	(9)	(2)	(8)
Lives in House ^b	0.0169	0.0288	0.0134^{*}	-0.0023	-0.0013	0.0610^{***}	0.0327^{**}	0.0317^{**}
	(0.0261)	(0.0182)	(0.0074)	(0.0160)	(0.0166)	(0.0200)	(0.0166)	(0.0128)
Lives in Small Apartment Building	0.1124^{**}	-0.0193	0.0604^{***}	0.0169	-0.0350	0.0496	0.0280	0.0188
	(0.0565)	(0.0393)	(0.0160)	(0.0346)	(0.0359)	(0.0433)	(0.0359)	(0.0277)
Lives in Large Apartment Building	0.0053	0.0047	0.0074	-0.0063	-0.0102	0.0671^{***}	0.0427^{***}	0.0165^{*}
	(0.0204)	(0.0142)	(0.0058)	(0.0125)	(0.0130)	(0.0157)	(0.0130)	(0.0100)
Lives in High Rise	0.0829^{***}	-0.0536^{**}	0.0004	0.0258	0.0148	0.0736^{***}	0.0299	0.0260*
	(0.0311)	(0.0217)	(0.0088)	(0.0190)	(0.0198)	(0.0239)	(0.0198)	(0.0153)
Number of Rooms per Individual	-0.0138	-0.0020	-0.0047^{*}	-0.0062	-0.0004	-0.0074	-0.0080	-0.0088**
	(0.0088)	(0.0061)	(0.0025)	(0.0054)	(0.0056)	(0.0067)	(0.0056)	(0.0043)
Constant	0.1715	0.6159^{***}	0.2495^{***}	0.5806^{***}	0.3264^{***}	0.6281^{***}	0.5184^{***}	0.2050^{*}
	(0.2174)	(0.1515)	(0.0618)	(0.1331)	(0.1383)	(0.1669)	(0.1383)	(0.1067)
Number of Observations	2,794	2,794	2,794	2,794	2,794	2,794	2,794	2,794
F-Statistic	19.8900	9.8800	10.3300	7.5100	16.4000	11.61	6.8500	3.7200
$ m R^2$	0.1676	0.0910	0.0947	0.0707	0.1424	0.1052	0.0648	0.0363
Adjusted \mathbb{R}^2	0.1592	0.0817	0.0855	0.0613	0.1337	0.0962	0.0554	0.0265
^a Annually in Euro/Inflation-Adjusted (Ba	ise Vear 2009) b	Detached S	Semi-Detached	or Terraced				

nnually in Euro/Innation-Adjusted (Base Year 2009), ~ Detached, Semi-Detached, of Terraced

(1) Hypertension, (2) Cardiac Disease, (3) Stroke, (4) Diabetes, (5) Cancer, (6) Joint Disease, (7) Back Complaint, (8) Sleep Disorder

Robust standard errors in parentheses *** p < 0.01, ** p < 0.05, * p < 0.1

Note: All figures are rounded to four decimal places.

Figure B.1: Results - Optimal Value of Distance to Greens



Figure B.2: Results - Optimal Value of Distance to Abandoned Areas







Figure B.4: Results - Optimal Value of Coverage of Abandoned Areas



Appendix C. Discussion



