

# A New Stop for Unhappiness

## Bus Stop Proximity is Related to Lower Life Satisfaction in Cali Colombia

Friday 11<sup>th</sup> November, 2022 10:08

Using unique 2019 CaliBRANDO data, we study the effect of public transit proximity on life satisfaction in Cali Colombia. Public transit proximity is measured in two ways: having a bus stop in one's neighborhood or having it accessible within a short time. Both measures yield similar negative effect sizes of about .3-.4 on 1-10 life satisfaction scale. Such effect size is comparable to a decrease in one's satisfaction with her health by one step, say from "very good" to "good."

HAPPINESS, LIFE SATISFACTION, SUBJECTIVE WELLBEING, PUBLIC TRANSPORTATION, PUBLIC TRANSIT, BUS, BUS STOP, CALI, COLOMBIA, CALIBRANDO

## Introduction

Transport is the blood of society—transport is intricately linked the wellbeing of the economy, society and communities (e.g., De Vos et al. 2013).

Commuting matters, too. One may work 8hrs per day, but an additional hour or more is usually “wasted” on getting to and from work (Moovit 2022). Notably, of all daily activities, commuting is the very least happy activity (Kahneman et al. 2004).

There is much research on the effect of travel on wellbeing in general (e.g., De Vos et al. 2013, Morris and Guerra 2014, Stutzer and Frey 2003, JAFFE 2014, Quercia 2014, Li et al. 2018a), and specifically the effect of commuting (for a recent review see Manke 2021). Active commute such as walking or cycling is associated with more satisfaction than passive commute such as car driving and especially public transportation such as bus (see discussion in Manke 2021).

For instance, in Xian, China, out of 8 modes—walk, private bike, public bike, bus, subway, electric bike, shuttle bus, and private car—public bus comes with the lowest commute happiness (Zhu and Fan 2018).

There is little research, however, on proximity of public transportation/bus stops and happiness. In Rotterdam, the Netherlands, the more public transit in a neighborhood, the less happiness (Auma and Stavropoulos 2015)—one key problem with more public transit is more noise. In Detroit, the US, Park et al. (2021) finds that the more bus stops per census tract, the less happiness. Authors argue that bus stops can easily turn into crime stops—the two correlate. In Xian, China, proximity of the subway is found to promote happiness through walkability, transit quality, and accessibility pathways (Yin et al. 2021). In Shanghai, Li et al. (2018b) finds that the closer one is to the metro stop, the more happiness. One explanation to reconcile the conflicting findings in the literature is that metro, as opposed to bus, does not disrupt the built environment with noise, light, and air pollutions. Yet Yin et al. (2019) finds that proximity of public transit in general (not only metro) is related to higher happiness across China.

Happiness benefit from higher transportation accessibility is accompanied by happiness penalty due to noise and pollution (Cloutier and Pfeiffer 2015).

Despite some conflicting findings, in general, having easy access/being reasonably close to public transit is rather seen as a positive thing, an amenity, a convenience or comfort—it alleviates car congestion and pollution and promotes interaction and walking/cycling, especially if transit can be easily accessed, is convenient, and good quality (e.g. Mouratidis 2021, Leyden et al. 2011).

Hence, we hypothesize:

*if there is a bus stop in one's proximity, one is happier (benefits outweigh costs).—*

In the present research we study the effect of proximity to public transportation (bus stop) on happiness in Cali, Colombia. Proximity of public transit is an often overlooked aspect of daily commute. Bus stops, especially the major ones, are an important feature of the built environment, and especially in large cities without other public transportation

such as subway/metro such as Cali, Colombia. Residents of Cali spend on average about 50 minutes in public transit on a weekday commute, and they also wait on average 20 minutes for their bus (there is no train or subway in Cali)<sup>1</sup> (Moovit 2022).

It is commonly lamented that much of social scientific research is done on WEIRD people, i.e., Western, Educated, Industrialized, Rich and Democratic. If not entirely WEIRD, the bias is commonly in favor the Global North. SWB research is not an exception—vast majority of SWB research is done in Global North.

Another limitation/gap of SWB research is that almost all the research is done at one of the following levels: person, society/nation, or region/province level. Virtually all SWB research analyzes person level data that are representative of (or nested within) society/nation level and/or sometimes at region/province level. Research at neighborhood/community level is remarkably rare.<sup>2</sup> The present research aims to fill both of these gaps.

To our best knowledge the only SWB dataset representative of neighborhoods/communities in Global South (except China) is CaliBRANDO (Martínez and Short 2020, Martínez 2017).

## City Context

Sebastian de Benalcazar, a Spanish conquistador, founded Cali in 1536, but it only substantially developed economically from 1950s. In 1938 Cali was only 4 sq km and 88k population, and in 1964 it expanded to 91 sq km and 638k population (Dávila 2001).

In 2019 Cali with its 2.4m inhabitants is the third largest city in Colombia (after Bogota and Medellin) (Indígena et al. 2019). It is a major collection and distribution and industrial centre.

In 2002, the national government developed an extensive plan to implement integrated public transport systems in

<sup>1</sup>We use terms “public transit” and “bus” interchangeably.

<sup>2</sup>Nationally representative datasets sometimes ask about certain community/neighborhood characteristics (eg US GSS or German SOEP), including in Latin America, e.g., ISSP (Gandelman et al. 2012), but the data are typically not identifying actual communities/neighborhoods, and if they do (e.g., restricted version of US GSS), the data are not representative of communities/neighborhoods. There are only a handful of exceptions, and all of them in Global North (and China): Ma et al. (2017), Helliwell et al. (2018), Ziogas et al. (2020), Mouratidis (2017, 2020b,a), Mouratidis and Yiannakou (2022), Weckroth et al. (2022), Anon (2021), Pfeiffer et al. (2020), Ciorici and Dantzler (2019), Du et al. (2017), Ala-Mantila et al. (2017), Wang et al. (2019).

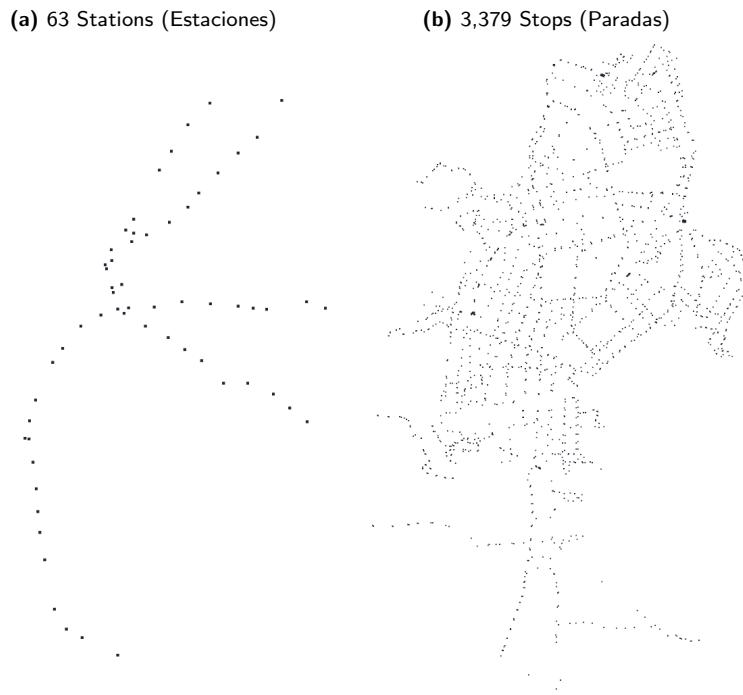
the main cities in the country, following the experience in Bogota with Transmilenio, a Bus Rapid Transit (BTR) model (de Panificacion (DNP) 2002). The national plan was in line with the modernization scheme of several cities in Latin America that were implementing large urban renovation programs through BTR systems to reduce inequalities, integrate the population living in the periphery, and provide better and safer public transportation (Scholl et al. 2016). Until 2000, Cali's transportation system was highly segmented, unregulated, partially informal, and polluting. Almost 40% of the buses were more than 20 years old, and the average bus speed was 8-12 km per hour, taking about 90 minutes to cover routes of 40 km (Scholl et al. 2015).lina: this doesn't make sense: at speed of 10kmph, route of 40km takes 4hrs, not 90min; so guess just drop 90min 40km part?

Cali undertook a major urban renovation plan to implement the BTR called MIO. The system aimed at connecting low and middle-income areas with employment clusters in the city and the modernization of urban infrastructure (terminals, stations, corridors, and patios for bus operators) to offer sustainable and affordable public transportation (Scholl et al. 2015). The project suffered major delays and was in operation in 2009 with low capacity. At project inception, MIO was planned to have 911 buses circulating. In 2009 the operation started with 39 buses, and by 2019 680 buses were circulating daily across the city using the north-south axis in which the main infrastructure was built (Metrocali 2019)—see figure 1 panel a)—and smaller stops cover of the city (panel b).



The implementation of MIO comes with mixed results. The system has reduced travel time for some users and has improved air quality, but user satisfaction is low, buses are overcrowded, and the system has significant issues with financial stability (Scholl et al. 2016). While the system faces challenges in providing quality service, Cali is experiencing a pattern observed across the developing world. The city transportation is becoming increasingly dominated by private car or motorcycle ownership, contributing to congestion, pollution, and the use reduction of public transportation (Pojani and Stead 2015). Between 2000 and 2016, private car or motorcycle ownership increased by 157%, and motorcycles

**Figure 1:** Cali's MIO (bus) stops; for bus stops overlayed on streets simply see Google Maps search for bus stops: <https://www.google.com/maps/search/bus+stop/@3.340885,-76.5360469,16z> (note need to retain much zoom to see small bus stops retained; and for MIO lines see SOM.). Source: POLIS, Universidad Icesi, Cali.



alone increased by 211% in the same period, with 86,3 motorcycles per 100,000 inhabitants in 2016 (de Cali MOVIS 2017).

On top of poor quality, one of the significant problems in the system is the high rate of petty crime. Constantly, the media reports massive number of assaults and cellphone and wallet robberies, making the mass transit one of the top spots for crime in the city (de Occidente 2022). Moreover, bus stations are one of the main targets for vandalism in riots and demonstrations. In 2021, during one of the more extensive riots in the country, 58 bus stations were left out of service rendering the system unable to cope with the demands for transportation (Semana 2022). Bus stations also attract informal economy, traffic, and noise.

## Data and Method

We use 2019 Calibrando, a survey representative of Cali, conducted by the Observatory of Public Policies (POLIS) of Universidad Icesi (Martínez and Short 2020, Martínez 2017). Face-to-face interviews were administered by trained pollsters to randomly selected adults (18 and older). The Calibrando covers: life satisfaction, living standards, socio-demographics, and notably the respondent's neighborhood.

The dependent variable is life satisfaction, and the main independent variable is whether there is public transit (MIO) in the neighborhood or time to get to it. All variables, including standard control variables, are defined in table

1. Additional descriptive statistics including distributions and cross-correlations are in Supplementary Online Material (SOM).

We control for an usual set of SWB predictors following Okulicz-Kozaryn and Valente (2018). In addition, we control for perceptions of crime, security, and police presence—such variables are not only predictive of SWB, but may also confound with public transit perceptions and use. For instance, public transit may be avoided in certain areas, especially by women, and at night. Also note that Cali is a relatively dangerous city, say as compared to Western cities (e.g., Review 2020). Also, we include two sets of dummy variables that are likely to capture varying public transit accessibility and other intricacies of the communities. We include dummies for 23 Cali neighborhoods (“Comuna”), and we include dummies for 6 socioeconomic strata (“Estrato Socioeconómico”).

**Table 1:** Variable definitions.

name	description
life satisfaction	"On a scale of one to ten, rate how satisfied are you with your life."
MIO in neighborhood	"Walking from your home, what public transport you have access in the neighborhood where you live ?: MIO"
time to MIO	"How many takes minutes from home to go to the following places walking or means of transport commonly used to go to that place? MIO"
age	age
age squared	age squared
female	"female"
income	"How much on average income?"
race	white, half blood, indigenous, black, or other
marital status	"What is your marital status?"
education	primary, secondary, technical, professional, postgraduate, or none
health satisfaction	"Would you say that in general your health is?"
heard of crime in neighb	"In the past 6 months, did you have heard of some kind of crime in their neighborhood?"
neighb not maintained	"Are there places in your neighborhood that are not properly maintained? (Batch vacant)"
police in neighb	"The police routinely patrol your neighborhood?"
neighborhood safe	"You think your neighborhood is safe?"
safe in city	"Do you feel safe in the city?"
neighborhood	"What neighborhood do you live in?"
socio-economic strata	"What is the socio-economic strata of your home?" 1-5 (strata 5 and 6 were combined together as there were very few respondents living in strata 6)

We use ordinary least squares (OLS). Although OLS assumes cardinality of the outcome variable, and SWB measures are technically ordinal, OLS is an appropriate estimation method. Ferrer-i-Carbonell and Frijters (2004) has shown that OLS results are substantially the same as those from discrete models, and OLS has become the default method in happiness research (Blanchflower and Oswald 2011). Theoretically, while there is still debate about the cardinality of SWB, there are strong arguments to treat it as a cardinal variable (Ng 1996, 1997, 2011).

## Results

Most residents of Cali report having access to MIO in their neighborhood, about 1150 or 92%, and about 100 or 8% say that there is no MIO in their neighborhood. This is expected—MIO is ubiquitous throughout Cali.<sup>3</sup>

Regression results are in table 4. Column a1 is a bivariate regression of happiness on MIO—Colombians are very happy as indicated by constant term, >8 on 1-10 scale. But, contrary to our hypothesis, a presence of MIO in a neighborhood is associated with a decrease in happiness by .3.

.3 on a 1-10 happiness scale may seem small. Yet, it needs to be remembered that about half of happiness is determined by genes (Schnittker 2008, Lykken and Tellegen 1996, Brooks 2013), and then most important are person level characteristics such as health and social relations, and only a small fraction is left for environmental influences such as built environment and bus stops.

The negative effect of MIO is robust to the model specification in subsequent columns a2-a6, and actually increases to .4. More elaborate specifications in table 4 use the extensive set of controls including safety/crime, socio-economic-strata, and neighborhood dummies (“comuna.”)

	a1	a2	a3	a4	a5	a6
MIO in neighborhood	-0.30*	-0.33*	-0.34*	-0.36*	-0.38*	-0.40*
age		-0.02	-0.02	-0.02	-0.02	-0.02
age squared		0.00	0.00	0.00	0.00	0.00
female		0.21+	0.24*	0.23*	0.19+	0.25*
health satisfaction		0.29***	0.28***	0.29***	0.27***	0.27***
heard of crime in neighb			-0.21+			-0.19
neighb not maintained			0.05			0.07
police in neighb			0.08			0.06
neighborhood safe			-0.01			-0.07
safe in city			0.27*			0.33**
constant	8.83***	8.09***	8.05***	8.20***	8.10***	8.16***
neighbourhood dummies	no	no	no	yes	no	yes
socio-economic strata dummies	no	no	no	no	yes	yes
income, race, marital status, and education dummies	no	yes	yes	yes	yes	yes
N	1268	1211	1194	1204	1207	1183

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

Table 2: OLS regressions of life satisfaction.

What is distinctive about CaliBRANDO is the rich information on the distance to various amenities such as park, doctor, store, restaurant, etc. MIO is the only amenity among 10 amenities, where people are the happiest living farthest

<sup>3</sup>In SOM we cross tabulate presence of MIO by barrio. Many barrios have a person or two reporting not having access to MIO, and while MIO is ubiquitous throughout Cali, it is perfectly reasonable for a respondent to live in a section of a barrio that is relatively far from MIO

from it (table 5. Time to other amenities has mostly no effect on happiness, with the exception of time to biblioteca—its proximity is positively related to happiness. For estimates see Supplementary Online Material (SOM).

Next, we measure proximity of MIO in an alternative way, instead of asking about its presence, we measure time it takes one to get to it. To account for potential nonlinearities we create 5 quintile dummies. Regression results are shown in table 5. Only the 5th quintile is significant—the 20% of sample with longest time to MIO, i.e., 18 min or more, are happier by about .3 or .35.

	a1	a2	a3	a4	a5	a6
<b>time to MIO (base: 1st quantile):</b>						
quantile=2	-0.09	-0.13	-0.16	-0.14	-0.11	-0.13
quantile=3	0.17	0.12	0.09	0.13	0.13	0.12
quantile=4	-0.09	-0.07	-0.08	-0.06	-0.07	-0.07
quantile=5	0.25	0.25	0.26	0.27	0.29+	0.34+
age		-0.02	-0.01	-0.02	-0.02	-0.02
age squared		0.00	0.00	0.00	0.00	0.00
female		0.19+	0.22+	0.22+	0.17	0.22+
health satisfaction		0.29***	0.28***	0.29***	0.27***	0.27***
heard of crime in neighb			-0.23+			-0.22+
neighb not maintained			0.05			0.07
police in neighb			0.13			0.11
neighborhood safe			-0.03			-0.09
safe in city			0.25*			0.29**
constant	8.50***	7.89***	7.89***	8.06***	7.85***	8.01***
neighbourhood dummies	no	no	no	yes	no	yes
socio-economic strata dummies	no	no	no	no	yes	yes
income, race, marital status, and education dummies	no	yes	yes	yes	yes	yes
N	1166	1116	1103	1109	1112	1092

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust std err

**Table 3:** OLS regressions of life satisfaction. Note: 5th quintile of time to MIO is 18 min or more.

Both operationalizations of proximity of public transit yield similar effect sizes: about .3 to .4. Such effect size can be considered a moderate to large effect (given that bus stop is an ecological/environmental and not personal variable). It is slightly larger than one step decrease on the health variable, say from “Very Good” to “Good.” This is a considerable effect size.

The most elaborate above models used 23 neighborhood (“comuna”) dummies. In rich CaliBRANDO data, there are also smaller neighborhoods (“barrio”) identified, over 100 of them. In supplementary online material we estimate the “barrio” fixed effects model, results are similar, and if anything stronger at -.5.

## Conclusion and Discussion

The United Nations set the Sustainable Development Goals (SDGs), and the 11th SDG reads: “Make cities inclusive, safe, resilient and sustainable” ([un.org/sustainabledevelopment/cities](http://un.org/sustainabledevelopment/cities)) (Ramaswami 2020). Again, transport is the blood of society—it is vital (e.g., De Vos et al. 2013). In present research we have focused on the proximity of public transit, an often overlooked aspect of daily commute.

We find, unexpectedly, that proximity to public transit is related to lower, not higher, subjective wellbeing (SWB) or life satisfaction. Our conclusion is similar to that of Ciorici and Dantzler (2019), “surprisingly, the analysis showed that [...] access to transportation have an inverse relationship with the satisfaction of residents”

One possible mechanism is pollution, notably air, but also light and noise—we know that pollution kills happiness (Kumari et al. 2021, Poon 2018, Lee 2016, Metcalfe 2016, Weinhold 2013, Rehdanz and Maddison 2008).

Yet it is not necessarily that disamenities (noise, pollution, etc) of public transit outweigh its amenities in general. It may simply be the poor quality (and safety) of public transit in Cali, which may arguably translate into dissatisfaction with having public transit in one’s neighborhood. Complaints about MIO are that it is crowded, disorganized, and unsafe (a lot of petty crime), and while homicides decline in Cali, petty crime is increasing in Cali (Martínez and Short 2020).

As a sidenote, various rankings of public transit in general prefer subways over buses, if anything, the only one advantage of bus system is easier implementation and hence wider coverage<sup>4</sup> [links to bib](#)

Short of a costly subway system, MIO can be improved. As reviewed earlier, what matters for quality public transit is safety, convenience, accessibility, and ease of use. For instance, as of 2022, MIO tickets are still being sold by a person at a station—one way to improve is to digitize everything (Forum 2019).

A different explanation for our unexpected result of unhappy public transit proximity could be that ignorance is bliss—the poor may be relatively segregated and isolated into their neighborhoods, not knowing better, and thus being satisfied

---

<sup>4</sup><https://www.internationalteflacademy.com/blog/the-top-10-public-transportation-systems-around-the-world>      <https://gobackpacking.com/public-transportation-south-america/>

with little of what they have. Similarly, to women in rural China, who only became unhappy once they became exposed to higher standard of living (Rosenthal 1999).

Resilience in isolated areas may play a role, too. Martínez and Short (2020) reports that Cali residents in the poorest districts were more satisfied with their lives, and speculates that it may be so due to the high resilience of this population being affected by crime, poor health, and insufficient provision of public goods.

Likewise, in our present research, with transportation, it is also perhaps that public transportation exposes to more comparisons, and as people tend to make upward comparisons (Frey and Stutzer 2002, Frey et al. 2008), it may result in relative deprivation and lower happiness, just as neighbors act as negatives (Luttmer 2005). Incidentally, there is a similar hint from another location in Colombia: inhabitants of poor municipalities in the Choco are happy to know only that environment in which they were born and raised, but when they know and live in other municipalities with greater socio-economic development their demands and expectations increase (Muñoz-Cardona 2018). In other words, again, ignorance may be a bliss. Future research could test such hypotheses.

## References

- ALA-MANTILA, S., J. HEINONEN, S. JUNNILA, AND P. SAARSALMI (2017): "Spatial nature of urban well-being," *Regional Studies*, 1–15.
- ANON (2021): "Urbanity, neighbourhood characteristics and Quality of Life (QoL) – analysis of individual and contextual determinants for perceived QoL in 3300 postal code areas in Finland," *Social Indicators Research*.
- AUMA, S. AND S. STAVROPOULOS (2015): "Connectivity and Happiness," .
- BLANCHFLOWER, D. G. AND A. J. OSWALD (2011): "International happiness: A new view on the measure of performance," *The Academy of Management Perspectives*, 25, 6–22.

- BROOKS, A. C. (2013): "Formula for Happiness," *The New York Times*.
- CIORICI, P. AND P. DANTZLER (2019): "Neighborhood satisfaction: A study of a low-income urban community," *Urban affairs review*, 55, 1702–1730.
- CLOUTIER, S. AND D. PFEIFFER (2015): "Sustainability through happiness: A framework for sustainable development," *Sustainable Development*, 23, 317–327.
- DÁVILA, J. D. (2001): *Urban Poverty Reduction Experiences in Cali, Colombia: Lessons from the Work of Local Non-profit Organisations*, JSTOR.
- DE CALI MOVIS, A. (2017): "Observatorio MOVIS: Tasa de motorizacion," Retrieved from: <https://www.cali.gov.co/observatorios/publicaciones/137387>.
- DE OCCIDENTE, D. (2022): "Pasajeros de un bus del MIO padecieron robo masivo," *occidente.co*.
- DE PANIFICACION (DNP), D. N. (2002): "COMPES: 3166: Sistema Integrado de Transporte Masivo de pasajeros de Santiago de Cali y su Area de Influencia - seguimiento," *Bogota DNP*.
- DE VOS, J., T. SCHWANEN, V. VAN ACKER, AND F. WITLOX (2013): "Travel and subjective well-being: A focus on findings, methods and future research needs," *Transport Reviews*, 33, 421–442.
- DU, P., A. WOOD, N. DITCHMAN, AND B. STEPHENS (2017): "Life Satisfaction of Downtown High-Rise vs. Suburban Low-Rise Living: A Chicago Case Study," *Sustainability*, 9, 1052.
- FERRER-I-CARBONELL, A. AND P. FRIJTERS (2004): "How Important is Methodology for the Estimates of the Determinants of Happiness?" *Economic Journal*, 114, 641–659.
- FORUM, W. (2019): "Latin America is a mass-transit powerhouse. But it needs fine-tuning," *WEF Forum*.

FORUM, W. E. (2017): "The travel & tourism competitiveness report," World Economic Forum, [https://www3.weforum.org/docs/WEF\\_TTCR\\_2017\\_web\\_0401.pdf](https://www3.weforum.org/docs/WEF_TTCR_2017_web_0401.pdf).

FREY, B. S. AND A. STUTZER (2002): "What Can Economists Learn from Happiness Research?" *Journal of Economic Literature*, 40, 402–435.

FREY, B. S. ET AL. (2008): "Happiness: A revolution in economics," *MIT Press Books*, 1.

GANDELMAN, N., G. PIANI, AND Z. FERRE (2012): "Neighborhood Determinants of Quality of Life," *Journal of Happiness Studies*, 13, 547–563.

HELLIWELL, J. F., H. SHIPLETT, AND C. P. BARRINGTON-LEIGH (2018): "How Happy are Your Neighbours? Variation in Life Satisfaction among 1200 Canadian Neighbourhoods and Communities," Tech. rep., National Bureau of Economic Research.

INDÍGENA, D. P. ET AL. (2019): "Resultados del Censo Nacional de Población y Vivienda 2019," *Dirección Nacional de Estadística: Bogotá, Colombia*.

JAFFE, E. (2014): *City Lab*.

KAHNEMAN, D., A. B. KRUEGER, D. A. SCHKADE, N. SCHWARZ, AND A. A. STONE (2004): "A survey method for characterizing daily life experience: The day reconstruction method," *Science*, 306, 1776–1780.

KUMARI, N., P. KUMAR, AND N. C. SAHU (2021): "Do energy consumption and environmental quality enhance subjective wellbeing in G20 countries?" *Environmental Science and Pollution Research*, 1–22.

LEE, R. (2016): "Air Pollution Is Fourth Leading Cause Of Death Worldwide: Polluted Air Claims 5.5 Million Lives Per Year," *The New York Times*.

- LEYDEN, K. M., A. GOLDBERG, AND P. MICHELBACH (2011): "Understanding the pursuit of happiness in ten major cities," *Urban affairs review*, 47, 861–888.
- LI, W., B. SUN, C. YIN, T. ZHANG, AND Q. LIU (2018a): "Does metro proximity promote happiness? Evidence from Shanghai," *Journal of Transport and Land Use*, 11.
- (2018b): "Does metro proximity promote happiness? Evidence from Shanghai," *Journal of Transport and Land Use*, 11, 1271–1285.
- LUTTMER, E. F. P. (2005): "Neighbors as Negatives: Relative Earnings and Well-Being," *Quarterly Journal of Economics*, 120, 963–02.
- LYKKEN, D. AND A. TELLEGREN (1996): "Happiness is a Stochastic Phenomenon," *Psychological Science*, 7, 186–189.
- MA, J., G. DONG, Y. CHEN, AND W. ZHANG (2017): "Does satisfactory neighbourhood environment lead to a satisfying life? An investigation of the association between neighbourhood environment and life satisfaction in Beijing," *Cities*.
- MANKE, A. (2021): "Exploring the relationship of built environment, commute, and walkability with subjective wellbeing in metro areas of United States," Ph.D. thesis, Rutgers University-Camden Graduate School.
- MARTÍNEZ, L. (2017): "Life satisfaction data in a developing country: CaliBRANDO measurement system," *Data in brief*, 13, 600–604.
- MARTÍNEZ, L. AND J. R. SHORT (2020): "Life satisfaction in the city," *Scienze Regionali*, 0–0.
- METCALFE, J. (2016): "The Worldwide Light-Pollution Plague," *City Lab*.
- METROCALI (2019): "El MIO cumple 10 años de operación, más de 1208 millones de pasajeros ha movilizado el sistema."

Moovit (2022): "Bogota Public Transit Statistics. Commute patterns by SITP, Transmilenio & Funicular in Bogota, Colombia – Analytics, Usage Data and Quick Facts." *The Moovit Public Transit*.

MORRIS, E. A. AND E. GUERRA (2014): "Mood and mode: does how we travel affect how we feel?" *Transportation*, 1–19.

MOURATIDIS, K. (2017): "Is compact city livable? The impact of compact versus sprawled neighbourhoods on neighbourhood satisfaction," *Urban Studies*, 0042098017729109.

——— (2020a): "Commute satisfaction, neighborhood satisfaction, and housing satisfaction as predictors of subjective well-being and indicators of urban livability," *Travel Behaviour and Society*, 21, 265–278.

——— (2020b): "Neighborhood characteristics, neighborhood satisfaction, and well-being: The links with neighborhood deprivation," *Land Use Policy*, 99, 104886.

——— (2021): "Urban planning and quality of life: A review of pathways linking the built environment to subjective well-being," *Cities*, 115, 103229.

MOURATIDIS, K. AND A. YIANNAKOU (2022): "What makes cities livable? Determinants of neighborhood satisfaction and neighborhood happiness in different contexts," *Land Use Policy*, 112, 105855.

MUÑOZ-CARDONA, Á.-E. (2018): "La felicidad social: un deber hacia la felicidad intersubjetiva en el Chocó colombiano," *Búsqueda*, 5, 88–108.

NG, Y.-K. (1996): "Happiness surveys: Some comparability issues and an exploratory survey based on just perceptible increments," *Social Indicators Research*, 38, 1–27.

——— (1997): "A case for happiness, cardinalism, and interpersonal comparability," *The Economic Journal*, 107, 1848–1858.

——— (2011): “Happiness is absolute, universal, ultimate, unidimensional, cardinally measurable and interpersonally comparable: A basis for the environmentally responsible Happy Nation Index,” Tech. rep., Monash University, Department of Economics.

OKULICZ-KOZARYN, A. AND R. R. VALENTE (2018): “No Urban Malaise for Millennials,” *Regional Studies*.

PARK, Y., M. KIM, AND K. SEONG (2021): “Happy neighborhoods: Investigating neighborhood conditions and sentiments of a shrinking city with Twitter data,” *Growth and Change*, 52, 539–566.

PFEIFFER, D., M. M. EHLENZ, R. ANDRADE, S. CLOUTIER, AND K. L. LARSON (2020): “Do Neighborhood Walkability, Transit, and Parks Relate to Residents’ Life Satisfaction? Insights From Phoenix,” *Journal of the American Planning Association*, 86, 171–187.

POJANI, D. AND D. STEAD (2015): “Sustainable urban transport in the developing world: beyond megacities,” *Sustainability*, 7, 7784–7805.

POON, L. (2018): “More Lights, More Diseases?” *City Lab*.

QUERCIA, D. (2014): “Happy maps,” Ted Talk, [http://www.ted.com/talks/daniele\\_quercia\\_happy\\_maps?language=en&imm\\_mid=0cb30b&cmp=em-data-na-na-newsltr\\_20150121#t-413372](http://www.ted.com/talks/daniele_quercia_happy_maps?language=en&imm_mid=0cb30b&cmp=em-data-na-na-newsltr_20150121#t-413372).

RAMASWAMI, A. (2020): “Unpacking the urban infrastructure nexus with environment, health, livability, well-being, and equity,” *One Earth*, 2, 120–124.

REHDANZ, K. AND D. MADDISON (2008): “Local environmental quality and life-satisfaction in Germany,” *Ecological economics*, 64, 787–797.

REVIEW, T. P. (2020): *Princeton Review AP English Language & Composition Premium Prep 2021: 7 Practice Tests+ Complete Content Review+ Strategies & Techniques*, Princeton Review.

- ROSENTHAL, E. (1999): "Women's Suicides Reveal Rural China's Bitter Roots," *New York Times*.
- SCHNITTKER, J. (2008): "Happiness and Success: Genes, Families, and the Psychological Effects of Socioeconomic Position and Social Support," *American Journal of Sociology*, 114, S233–S259.
- SCHOLL, L., C. P. BOUILLO, D. OVIEDO, L. CORSETTO, M. JANSSON, AND C. GRAY (2016): "Urban transport and poverty: Mobility and accessibility effects of IDB-supported BRT systems in Cali and Lima," *Washington, DC: IDB*.
- SCHOLL, L., A. GUERRERO, O. QUINTANILLA, M. CELSE L'HOSTE, AND P. SADEGHI (2015): "Comparative case studies of three IDB-supported urban transport projects," *Washington, DC*. <http://dx.doi.org/10.18235/0000019>.
- SEMANA, R. (2022): "Esto costaran las reparaciones del MIO en Cali tras danos por vandalismo." *The New York Times*.
- STUTZER, A. AND B. FREY (2003): "Stress That Doesn't Pay Off: The Commuting Paradox," *IZA Discussion Paper*.
- WANG, D., T. SCHWANEN, AND Z. MAO (2019): "Does exposure to richer and poorer neighborhoods influence wellbeing?" *Cities*, 95, 102408.
- WECKROTH, M., S. ALA-MANTILA, D. BALLAS, T. ZIOGAS, AND J. IKONEN (2022): "Urbanity, Neighbourhood Characteristics and Perceived Quality of Life (QoL): Analysis of Individual and Contextual Determinants for Perceived QoL in 3300 Postal Code Areas in Finland," *Social Indicators Research*, 1–26.
- WEINHOLD, D. (2013): "The Happiness-Reducing Costs of Noise Pollution," *Journal of regional science*, 53, 292–303.
- YIN, C., C. SHAO, C. DONG, AND X. WANG (2019): "Happiness in urbanizing China: The role of commuting and multi-scale built environment across urban regions," *Transportation Research Part D: Transport and Environment*, 74, 306–317.

YIN, J., X. J. CAO, AND X. HUANG (2021): "Association between subway and life satisfaction: Evidence from Xi'an, China," *Transportation Research Part D: Transport and Environment*, 96, 102869.

ZHU, J. AND Y. FAN (2018): "Commute happiness in Xi'an, China: Effects of commute mode, duration, and frequency," *Travel Behaviour and Society*, 11, 43–51.

ZIOGAS, T., D. BALLAS, S. KOSTER, AND A. EDZES (2020): "How happy are my neighbours? Modelling spatial spillover effects of well-being," *arXiv preprint arXiv:2007.11580*.

## ONLINE APPENDIX

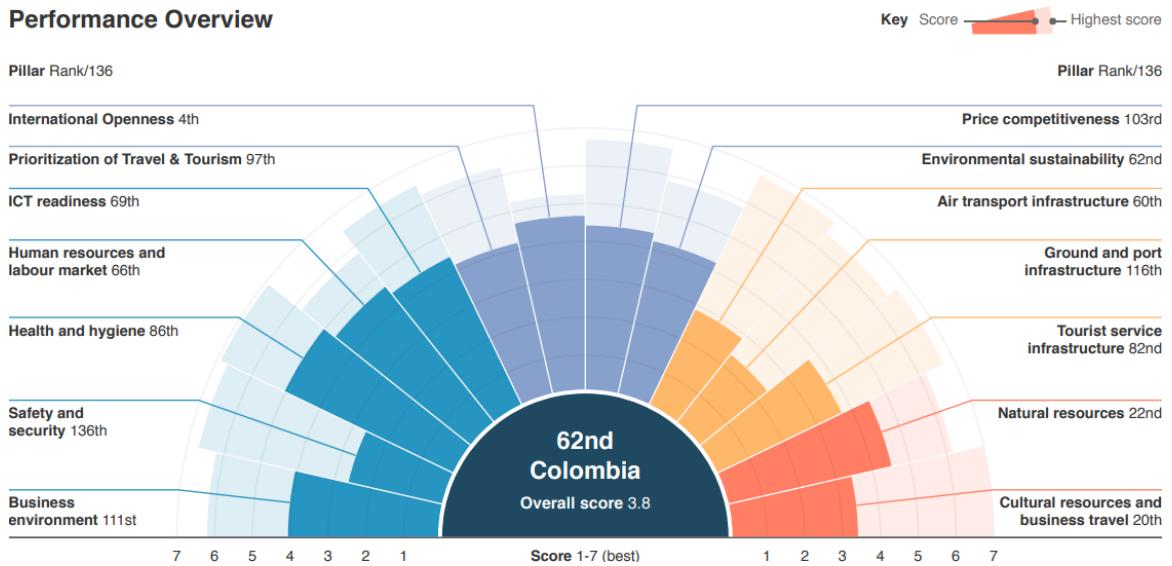
[note: this section will NOT be a part of the final version of the manuscript, but will be available online instead]

### World Economic Forum report 2017

The World Economic Forum scores and ranks countries on a number of indicators, and perhaps unexpectedly Colombia scores worst on "ground and port infrastructure," a score even lower than on "safety and security," a widely recognized challenge for Colombia (Forum 2017). Can poor quality of public transportation hamper its multiple advantages?<sup>5</sup>

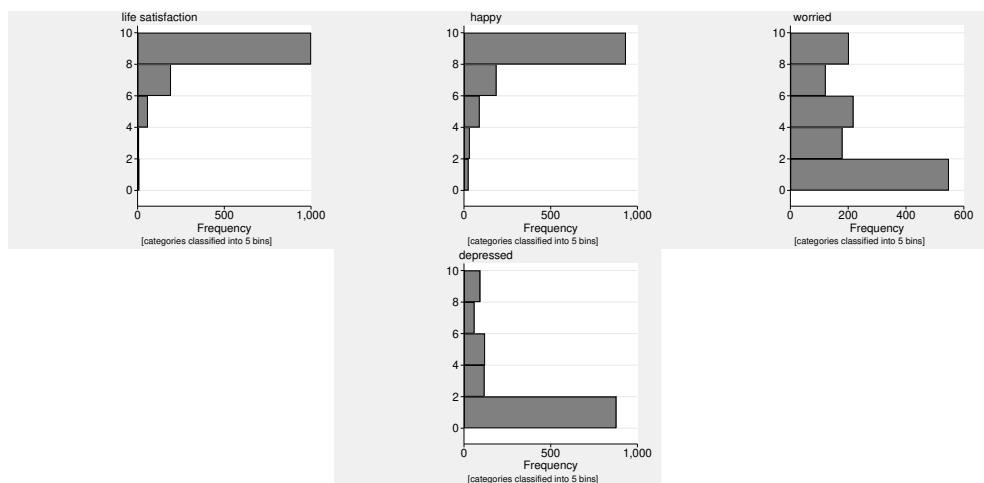
---

<sup>5</sup>We were unable to find rankings of public transportation across Colombian cities.



**Figure 2:** World Economic Forum report 2017. [https://www3.weforum.org/docs/WEF\\_TTCR\\_2017\\_web\\_0401.pdf](https://www3.weforum.org/docs/WEF_TTCR_2017_web_0401.pdf)

## Variables' definitions, coding, and distributions

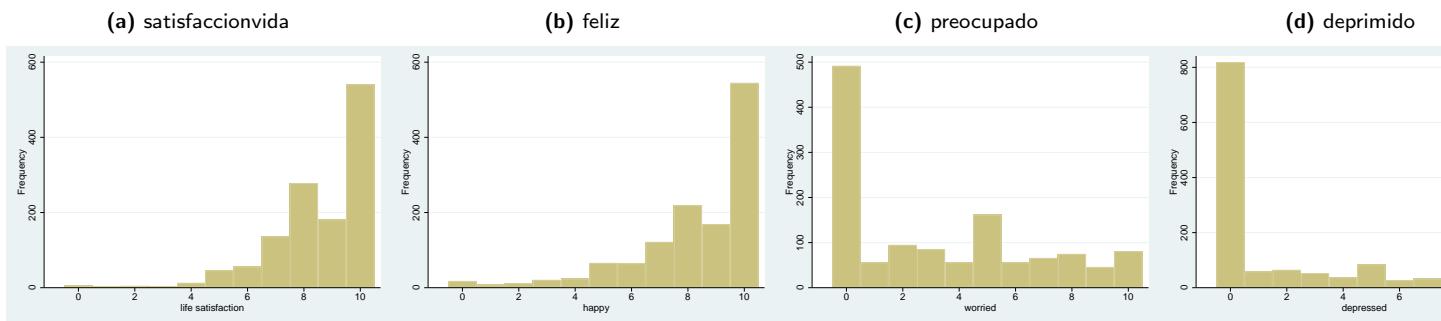


**Figure 3:** Variables' distribution.

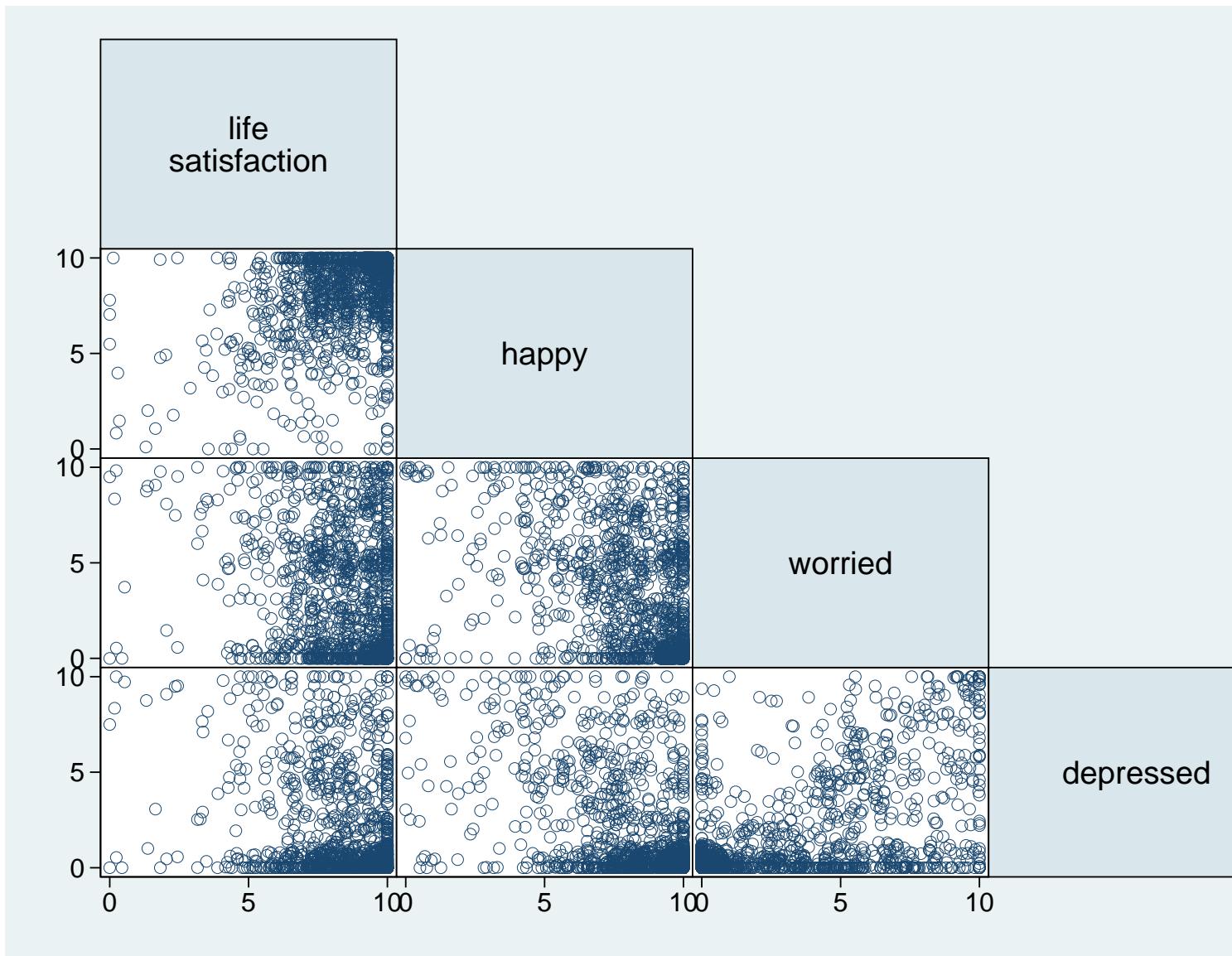
Pairwise correlations all significant at .05

	satisfaccionvida	feliz	preocupado	deprimido
satisfaccionvida	1.0			

**Figure 4:** SWB measures' distributions.

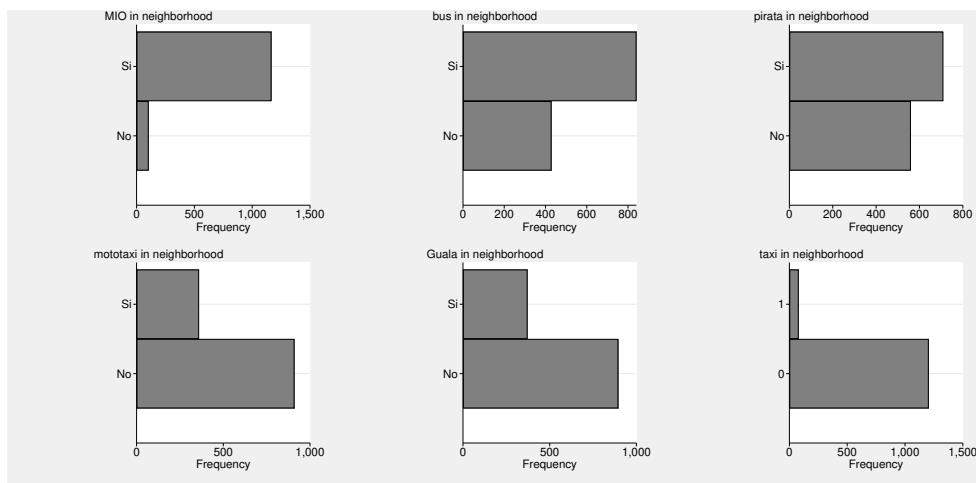


feliz	0.4	1.0		
preocupado	-0.2	-0.4	1.0	
deprimido	-0.3	-0.5	0.5	1.0



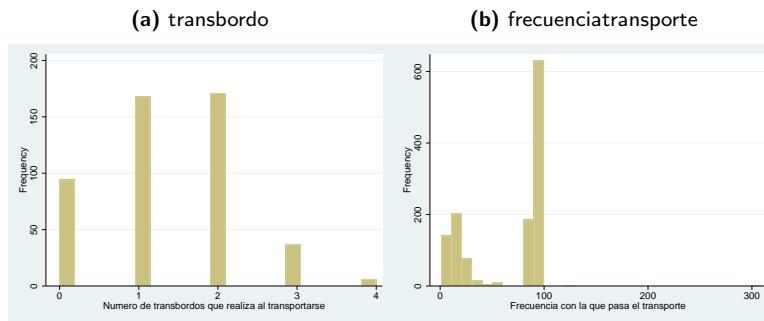
**Figure 5:** Scatterplot matrix.

So in fig 5: depression may be low around 0 for many people, but among those the other 3 vars differ widely. And then for life satisfaction many at 10, but among those preoccupation varies a lot.

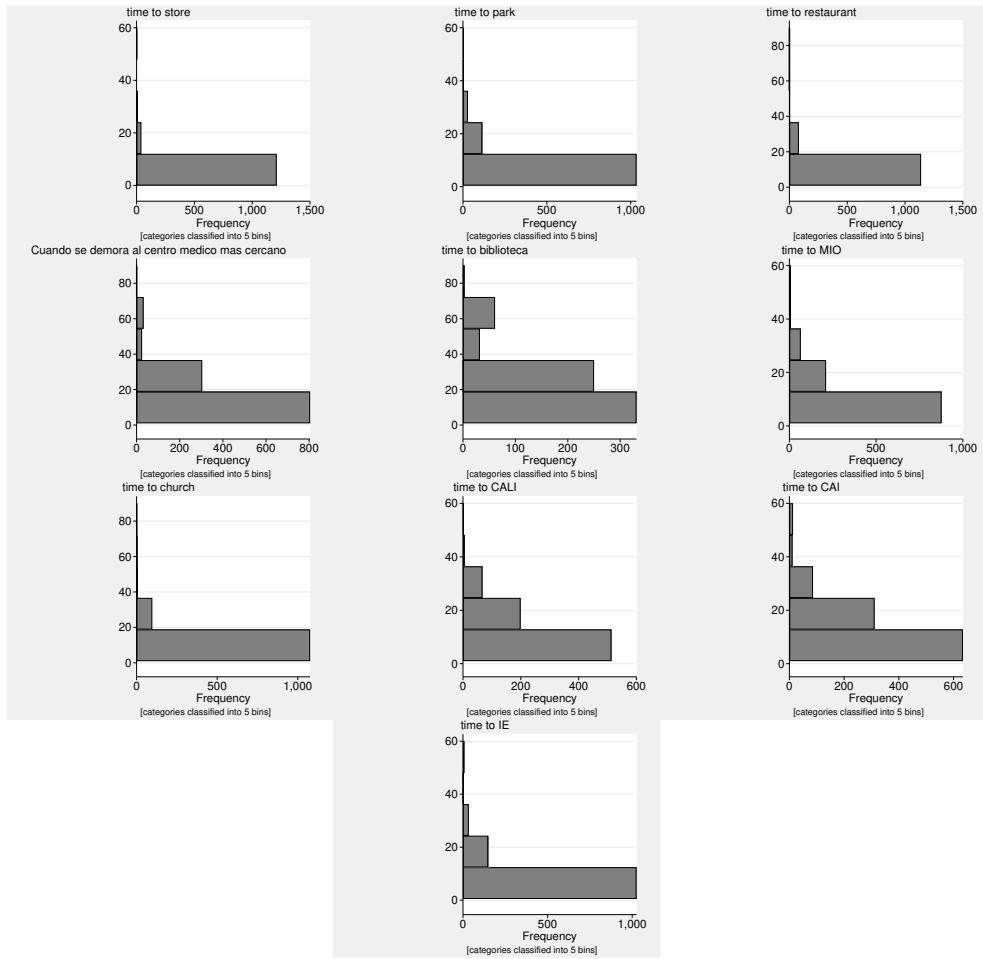


**Figure 6:** Variables' distribution.

**Figure 7:** Transpo.



Interesting wide variability here in terms of time to various amenities



**Figure 8:** Variables' distribution.

## 1 Results

Note that income is expressed in terms of monthly minimum wage (SMMLV).

### 1.1 Mala MIO

When you think about MIO or MIO bus stop, many things may come to mind, but happiness is not one of them.

MIO often is a stressful and unhappy experience around it and inside of it due to crowding and traffic—for instace see pictures taken by one of the authors.

**Figure 9:** MIO crowding around station and inside.



Another figure 10 highlights that bus stops are made of plentiful of metal and concrete.

**Figure 10:** Metal and concrete.



	a1	a2	a3	a4	a5	a6
Acceso a medio de transporte: MIO	-0.30*	-0.33*	-0.34*	-0.36*	-0.38*	-0.40*
Edad	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.21+	0.24*	0.23*	0.19+	0.25*	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	0.00
Mas de 1 SMMLV y menos de 2 SMMLV	0.29*	0.30*	0.25+	0.28*	0.26+	
Mas de 2 SMMLV y menos de 4 SMMLV	0.41*	0.43*	0.38+	0.35+	0.37+	
Mas de 4 SMMLV y menos de 8 SMMLV	0.72**	0.75**	0.70*	0.57*	0.60*	
Mas de 8 SMMLV	0.74+	0.70+	0.73+	0.45	0.39	
No tiene ingresos	-0.03	-0.01	-0.06	-0.07	-0.08	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.05	0.09	0.03	0.08	0.09	
Indigena	0.14	0.12	0.09	0.14	0.06	
Negro/afro	-0.06	-0.05	-0.04	-0.02	-0.02	
Otro	0.14	0.09	0.12	0.18	0.13	
Ninguno	0.64*	0.63*	0.62*	0.66*	0.64*	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.05	0.05	0.04	0.07	0.07	
Separado/divorciado	-0.65**	-0.69**	-0.69**	-0.64**	-0.74**	
Soltero(a)	-0.35*	-0.36*	-0.36*	-0.34*	-0.36*	
Viudo(a)	0.08	0.08	0.01	0.12	0.07	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	0.01	0.02	-0.01	-0.03	0.00	
Tecnica	-0.19	-0.16	-0.22	-0.25	-0.22	
Profesional	-0.19	-0.18	-0.23	-0.34	-0.30	
Posgrado	-0.29	-0.28	-0.30	-0.53+	-0.45	
Ninguno	2.01***	1.66***	1.72***	1.99***	1.41***	
Estado de salud	0.29***	0.28***	0.29***	0.27***	0.27***	
En su barrio ha ocurrido algun tipo de crimen		-0.21+			-0.19	
Lugares baldios en su barrio		0.05			0.08	
Presencia de policia en su barrio		0.08			0.07	
Siente que su barrio es seguro		-0.01			-0.07	
Siente que su barrio es seguro		0.00				
Percepcion de seguridad		0.27*			0.33**	
Comuna=1			0.00		0.00	
Comuna=2			-0.09		-0.30	
Comuna=3			0.11		0.03	
Comuna=4			0.25		0.11	
Comuna=5			-0.03		-0.18	
Comuna=6			0.15		0.08	
Comuna=7			-0.33		-0.48	
Comuna=8			-0.29		-0.30	
Comuna=9			0.15		-0.03	
Comuna=10			0.10		-0.10	
Comuna=11			0.05		-0.06	
Comuna=12			-0.04		-0.18	
Comuna=13			-0.24		-0.24	
Comuna=14			-0.19		-0.14	
Comuna=15			-0.37		-0.42	
Comuna=16			0.34		0.26	
Comuna=17			0.13		-0.19	
Comuna=18			0.07		0.07	
Comuna=19			-0.10		-0.39	
Comuna=20			0.11		0.10	
Comuna=21			0.24		0.20	
Comuna=22			0.44		0.10	
Comuna=23			-0.42		-0.56	
Estrato Socioeconomico=1				0.00	0.00	
Estrato Socioeconomico=2				0.13	0.13	
Estrato Socioeconomico=3				0.16	0.22	
Estrato Socioeconomico=4				0.23	0.35	
Estrato Socioeconomico=5				0.65**	0.84**	
Estrato Socioeconomico=6				0.49	0.60	
Siente que su barrio es seguro					0.00	
constant	8.83***	8.13***	8.06***	8.27***	8.17***	8.24***
N	1268	1211	1194	1204	1207	1183

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

Table 4: OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of miotempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of miotempo=2	-0.09	-0.13	-0.16	-0.14	-0.11	-0.14
5 quantiles of miotempo=3	0.17	0.12	0.09	0.13	0.13	0.12
5 quantiles of miotempo=4	-0.09	-0.07	-0.08	-0.06	-0.07	-0.07
5 quantiles of miotempo=5	0.25	0.25	0.26	0.27	0.29+	0.34+
Edad	-0.02	-0.01	-0.02	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.19+	0.22+	0.22+	0.17	0.22+	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.37*	0.37*	0.33*	0.37*	0.33*	
Mas de 2 SMMLV y menos de 4 SMMLV	0.45*	0.46*	0.42+	0.41+	0.41+	
Mas de 4 SMMLV y menos de 8 SMMLV	0.81**	0.86**	0.78**	0.67*	0.69*	
Mas de 8 SMMLV	0.72+	0.65	0.70+	0.45	0.34	
No tiene ingresos	0.01	0.03	-0.01	-0.03	-0.03	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.01	0.04	-0.02	0.04	0.04	
Indigena	0.10	0.07	0.04	0.11	-0.02	
Negro/afro	-0.12	-0.12	-0.11	-0.10	-0.10	
Otro	0.04	-0.02	0.04	0.09	0.06	
Ninguno	0.47	0.51+	0.42	0.51+	0.50	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.04	0.03	0.04	0.06	0.06	
Separado/divorciado	-0.61*	-0.67**	-0.64*	-0.60*	-0.70**	
Soltero(a)	-0.37*	-0.38*	-0.38*	-0.36*	-0.38*	
Viudo(a)	0.00	0.02	-0.09	0.08	0.01	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.08	-0.08	-0.09	-0.13	-0.08	
Tecnica	-0.35	-0.33	-0.35	-0.44+	-0.37	
Profesional	-0.27	-0.25	-0.25	-0.42+	-0.33	
Posgrado	-0.40	-0.39	-0.33	-0.65*	-0.50	
Ninguno	1.72***	1.33***	1.46***	1.68***	1.11**	
Estado de salud	0.29***	0.28***	0.29***	0.27***	0.27***	
En su barrio ha ocurrido algun tipo de crimen		-0.23+			-0.22+	
Lugares baldios en su barrio	0.05				0.07	
Presencia de policia en su barrio	0.13				0.11	
Siente que su barrio es seguro	-0.03				-0.09	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.25*				0.29**	
Comuna=1		0.00			0.00	
Comuna=2		-0.21			-0.39	
Comuna=3		0.08			0.05	
Comuna=4		0.18			0.09	
Comuna=5		-0.27			-0.34	
Comuna=6		0.09			0.04	
Comuna=7		-0.39			-0.54	
Comuna=8		-0.34			-0.30	
Comuna=9		0.08			-0.04	
Comuna=10		0.01			-0.14	
Comuna=11		0.06			-0.03	
Comuna=12		-0.16			-0.28	
Comuna=13		-0.34			-0.32	
Comuna=14		-0.27			-0.20	
Comuna=15		-0.54			-0.57	
Comuna=16		0.24			0.12	
Comuna=17		-0.06			-0.34	
Comuna=18		-0.04			0.04	
Comuna=19		-0.28			-0.50	
Comuna=20		0.04			0.07	
Comuna=21		0.11			0.08	
Comuna=22		0.32			-0.03	
Comuna=23		-0.79			-0.88	
Estrato Socioeconomico=1			0.00		0.00	
Estrato Socioeconomico=2				0.20	0.21	
Estrato Socioeconomico=3			0.16		0.20	
Estrato Socioeconomico=4			0.19		0.33	
Estrato Socioeconomico=5				0.68**	0.90**	
Estrato Socioeconomico=6			0.56		0.63	
Siente que su barrio es seguro					0.00	
constant	8.50***	7.88***	7.86***	8.07***	7.88***	8.04***
N	1166	1116	1103	1109	1112	1092

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 5:** OLS regressions of satisfaccionvida.note 5th quintile is 18 min or more

The negative effect of MIO is in contrast to the positive effect<sup>6</sup> of Bus in 6.

**TODO explain difference here**

<sup>6</sup>Though insignificant in more elaborate specifications.

	a1	a2	a3	a4	a5	a6
Acceso a medio de transporte: Bus	0.19+	0.18+	0.19+	0.16	0.17	0.15
Edad	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.20+	0.23*	0.22*	0.17	0.23*	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	0.00
Mas de 1 SMMLV y menos de 2 SMMLV	0.27+	0.28*	0.23+	0.27+	0.25+	
Mas de 2 SMMLV y menos de 4 SMMLV	0.37+	0.39+	0.35	0.32	0.34	
Mas de 4 SMMLV y menos de 8 SMMLV	0.69**	0.73**	0.68*	0.55*	0.58*	
Mas de 8 SMMLV	0.76*	0.73+	0.74+	0.45	0.40	
No tiene ingresos	-0.04	-0.02	-0.07	-0.08	-0.08	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.05	0.09	0.02	0.07	0.08	
Indígena	0.18	0.16	0.12	0.18	0.09	
Negro/afro	-0.07	-0.05	-0.05	-0.04	-0.03	
Otro	0.23	0.20	0.22	0.29	0.24	
Ninguno	0.69*	0.68*	0.67*	0.71**	0.69*	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.06	0.06	0.05	0.08	0.08	
Separado/divorciado	-0.64**	-0.69**	-0.68**	-0.63**	-0.73**	
Soltero(a)	-0.36*	-0.37*	-0.36*	-0.34*	-0.36*	
Viudo(a)	0.10	0.10	0.05	0.13	0.09	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	0.01	0.01	-0.01	-0.02	0.00	
Tecnica	-0.20	-0.18	-0.23	-0.26	-0.23	
Profesional	-0.21	-0.20	-0.24	-0.33	-0.31	
Posgrado	-0.32	-0.31	-0.33	-0.54+	-0.48	
Ninguno	2.06***	1.72***	1.76***	2.01***	1.45***	
Estado de salud	0.28***	0.27***	0.29***	0.27***	0.27***	
En su barrio ha ocurrido algun tipo de crimen		-0.22+			-0.20	
Lugares baldios en su barrio		0.06			0.07	
Presencia de policia en su barrio		0.06			0.06	
Siente que su barrio es seguro		-0.02			-0.08	
Siente que su barrio es seguro		0.00				
Percepcion de seguridad		0.26*			0.31**	
Comuna=1			0.00		0.00	
Comuna=2			-0.25		-0.47	
Comuna=3			-0.08		-0.19	
Comuna=4			0.03		-0.13	
Comuna=5			-0.22		-0.38	
Comuna=6			-0.09		-0.17	
Comuna=7			-0.51		-0.67+	
Comuna=8			-0.48		-0.50	
Comuna=9			-0.06		-0.25	
Comuna=10			-0.11		-0.31	
Comuna=11			-0.19		-0.32	
Comuna=12			-0.21		-0.37	
Comuna=13			-0.44		-0.46	
Comuna=14			-0.38		-0.37	
Comuna=15			-0.56		-0.62	
Comuna=16			0.13		0.03	
Comuna=17			-0.07		-0.39	
Comuna=18			-0.09		-0.13	
Comuna=19			-0.27		-0.58	
Comuna=20			-0.04		-0.08	
Comuna=21			0.05		-0.02	
Comuna=22			0.21		-0.15	
Comuna=23			-0.57		-0.74	
Estrato Socioeconomico=1				0.00	0.00	
Estrato Socioeconomico=2				0.08	0.10	
Estrato Socioeconomico=3				0.10	0.18	
Estrato Socioeconomico=4				0.17	0.31	
Estrato Socioeconomico=5				0.60**	0.79**	
Estrato Socioeconomico=6				0.49	0.62	
Siente que su barrio es seguro					0.00	
constant	8.43***	7.77***	7.72***	8.04***	7.81***	8.05***
N	1268	1211	1194	1204	1207	1183

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 6:** OLS regressions of satisfaccionvida.

Similarly in SOM: How to get to the nearest MIO location (Como se moviliza al paradero del MIO mas cercana) in table 7 those who take motorcycle or car (Moto o carro) or those who reply NS/NR –they are happier.<sup>7</sup>

<sup>7</sup>We postpone to SOM as there are only 42 obs on "Moto o carro" and 37 on "NS/NR," vast majority, 84% walks "Caminando."

	a1	a2	a3	a4	a5	a6
Caminando	0.00	0.00	0.00	0.00	0.00	0.00
Moto o carro	0.40*	0.40*	0.44*	0.35+	0.41*	0.44*
MIO o bus	-0.06	-0.01	0.01	-0.03	-0.01	0.01
Bicicleta	-0.78	-0.67	-0.65	-0.63	-0.70	-0.63
NS/NR	0.69***	0.77***	0.79***	0.73***	0.74***	0.71**
No hay	-0.04	0.01	-0.07	-0.03	0.04	-0.08
Edad	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.21+	0.24*	0.23*	0.18+	0.24*	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.29*	0.30*	0.25+	0.29*	0.27+	
Mas de 2 SMMLV y menos de 4 SMMLV	0.39+	0.40+	0.36+	0.35	0.35	
Mas de 4 SMMLV y menos de 8 SMMLV	0.68**	0.71*	0.67*	0.55*	0.57+	
Mas de 8 SMMLV	0.64+	0.59	0.63	0.35	0.29	
No tiene ingresos	-0.05	-0.02	-0.07	-0.09	-0.08	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.04	0.07	0.01	0.07	0.07	
Indigena	0.10	0.08	0.05	0.11	0.02	
Negro/afro	-0.08	-0.07	-0.07	-0.05	-0.05	
Otro	0.12	0.06	0.14	0.17	0.13	
Ninguno	0.62*	0.60*	0.59*	0.65*	0.62*	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union libre	0.07	0.06	0.06	0.09	0.09	
Separado/divorciado	-0.65**	-0.70**	-0.69**	-0.63**	-0.74**	
Soltero(a)	-0.35*	-0.36*	-0.35*	-0.33*	-0.36*	
Viudo(a)	0.02	0.01	-0.03	0.08	0.03	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.01	-0.01	-0.02	-0.04	-0.02	
Tecnica	-0.24	-0.22	-0.26	-0.30	-0.27	
Profesional	-0.22	-0.21	-0.24	-0.35	-0.32	
Posgrado	-0.28	-0.27	-0.27	-0.50	-0.42	
Ninguno	1.97***	1.64***	1.71***	1.96***	1.42***	
Estado de salud	0.29***	0.28***	0.30***	0.28***	0.27***	
En su barrio ha ocurrido algun tipo de crimen		-0.23+			-0.21+	
Lugares baldios en su barrio	0.04				0.06	
Presencia de policia en su barrio	0.09				0.07	
Siente que su barrio es seguro	-0.04				-0.10	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.27*				0.32**	
Comuna=1		0.00			0.00	
Comuna=2		-0.22			-0.45	
Comuna=3		-0.02			-0.13	
Comuna=4		0.09			-0.09	
Comuna=5		-0.26			-0.42	
Comuna=6		-0.03			-0.13	
Comuna=7		-0.44			-0.61	
Comuna=8		-0.43			-0.47	
Comuna=9		-0.03			-0.23	
Comuna=10		-0.07			-0.28	
Comuna=11		-0.10			-0.25	
Comuna=12		-0.22			-0.39	
Comuna=13		-0.40			-0.43	
Comuna=14		-0.33			-0.33	
Comuna=15		-0.54			-0.62	
Comuna=16		0.18			0.07	
Comuna=17		-0.06			-0.37	
Comuna=18		-0.07			-0.10	
Comuna=19		-0.27			-0.57	
Comuna=20		-0.01			-0.06	
Comuna=21		0.07			-0.01	
Comuna=22		0.21			-0.18	
Comuna=23		-0.56			-0.73	
Estrato Socioeconomico=1			0.00		0.00	
Estrato Socioeconomico=2			0.12		0.14	
Estrato Socioeconomico=3			0.12		0.20	
Estrato Socioeconomico=4			0.16		0.29	
Estrato Socioeconomico=5			0.61**		0.80**	
Estrato Socioeconomico=6			0.50		0.59	
Siente que su barrio es seguro					0.00	
constant	8.53***	7.88***	7.84***	8.12***	7.90***	8.13***
N	1260	1205	1188	1198	1201	1177
+ 0.10 * 0.05 ** 0.01 *** 0.001; robust std err						

Table 7: OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
Numero de transbordos que realiza al transportarse=0	0.00	0.00	0.00	0.00	0.00	0.00
Numero de transbordos que realiza al transportarse=1	0.33	0.44+	0.45+	0.40	0.38	0.38
Numero de transbordos que realiza al transportarse=2	0.20	0.24	0.32	0.22	0.23	0.30
Numero de transbordos que realiza al transportarse=3	-0.15	0.04	0.09	0.02	0.01	0.08
Numero de transbordos que realiza al transportarse=4	0.13	0.81	0.97*	0.82+	0.67	0.94
Edad	-0.00	-0.01	-0.00	0.00	-0.01	
edad2	0.00	0.00	-0.00	-0.00	0.00	
RECODE of sexo (Sexo)	0.21	0.26	0.22	0.23	0.30+	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.14	0.18	0.01	0.10	0.04	
Mas de 2 SMMLV y menos de 4 SMMLV	-0.09	-0.08	-0.09	-0.23	-0.20	
Mas de 4 SMMLV y menos de 8 SMMLV	0.92*	0.80*	0.61	0.76+	0.48	
Mas de 8 SMMLV	-0.70*	-0.82*	-1.51***	-0.74*	-1.53**	
No tiene ingresos	0.07	0.17	-0.01	0.05	0.05	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	-0.26	-0.16	-0.26	-0.24	-0.16	
Indígena	-0.60	-0.66	-0.66	-0.52	-0.70	
Negro/afro	-0.39+	-0.38+	-0.26	-0.33	-0.20	
Otro	-1.47***	-1.56***	-1.50***	-1.44***	-1.53**	
Ninguno	1.47***	1.45***	1.19***	1.56***	1.28***	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.08	0.14	0.09	0.05	0.11	
Separado/divorciado	-0.83*	-0.83+	-0.85*	-0.89*	-0.84*	
Soltero(a)	-0.29	-0.26	-0.33	-0.37	-0.35	
Viudo(a)	0.59	0.54	0.55	0.47	0.38	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	0.30	0.35	0.22	0.34	0.32	
Tecnica	-0.02	0.03	-0.10	0.00	0.01	
Profesional	-0.16	-0.16	-0.24	-0.21	-0.24	
Posgrado	-0.08	0.04	-0.28	-0.47	-0.40	
Estado de salud	0.33***	0.33***	0.33***	0.32***	0.33***	
En su barrio ha ocurrido algun tipo de crimen		-0.09			-0.01	
Lugares baldios en su barrio	0.22				0.16	
Presencia de policia en su barrio	0.10				0.12	
Siente que su barrio es seguro	-0.00				-0.12	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.38*				0.43*	
Comuna=1		0.00			0.00	
Comuna=2		-0.32			-0.40	
Comuna=3		0.31			0.20	
Comuna=4		0.51			0.42	
Comuna=5		0.47			0.34	
Comuna=6		0.27			0.31	
Comuna=7		-0.02			-0.01	
Comuna=8		-0.12			-0.24	
Comuna=9		0.21			0.16	
Comuna=10		0.14			-0.16	
Comuna=11		-0.04			-0.07	
Comuna=12		-0.70			-0.80	
Comuna=13		-0.46			-0.47	
Comuna=14		-0.41			-0.49	
Comuna=15		-0.56			-0.61	
Comuna=16		0.05			-0.01	
Comuna=17		-0.02			-0.43	
Comuna=18		0.46			0.40	
Comuna=19		0.45			-0.01	
Comuna=20		0.04			-0.08	
Comuna=21		0.66			0.50	
Comuna=22		-1.34+			-1.89+	
Comuna=23		-1.57+			-1.47	
Estrato Socioeconomico=1			0.00		0.00	
Estrato Socioeconomico=2			-0.24		-0.18	
Estrato Socioeconomico=3			0.01		0.01	
Estrato Socioeconomico=4			0.23		0.41	
Estrato Socioeconomico=5			0.91*		1.24*	
Estrato Socioeconomico=6			1.24***		1.77***	
Siente que su barrio es seguro					0.00	
constant	8.37***	7.40***	6.92***	7.52***	7.42***	7.21***
N	475	454	447	453	453	445

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 8:** OLS regressions of satisfaccionvida. Interesting, just 500 obs, would be significant otherwise, big coef magnitude, the last one sig at .11 (but not .10)

## Access to Mio across neighborhoods

### Troncales, Pretroncales y Alimentadoras



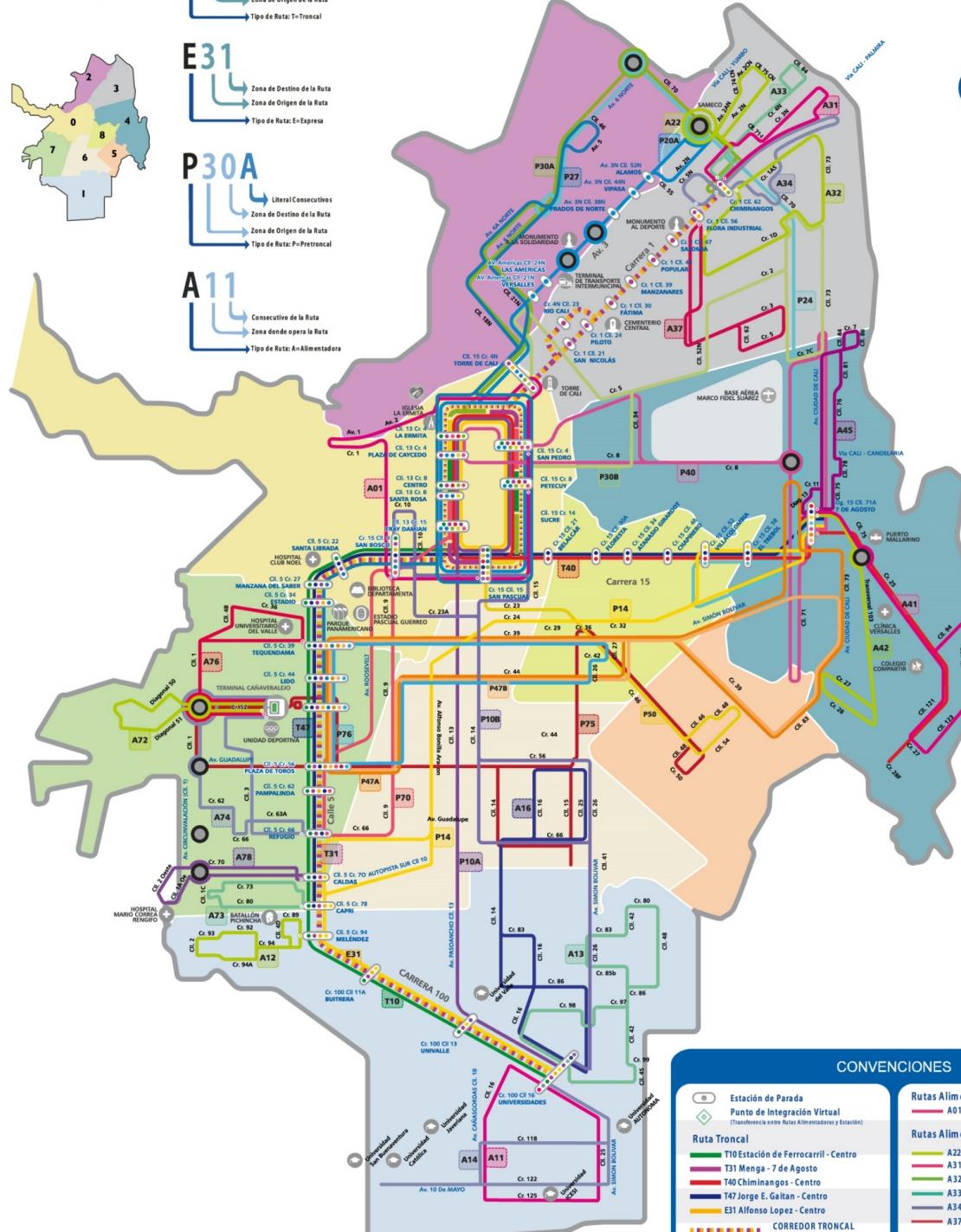
#### ZONIFICACIÓN SITM MIO

**T4 7**  
 Zona de Destino de la Ruta  
 Zona de Origen de la Ruta  
 Tipo de Ruta: T=Troncal

**E31**  
 Zona de Destino de la Ruta  
 Zona de Origen de la Ruta  
 Tipo de Ruta: E=Expresa

**P30A**  
 Literal Consecutivos  
 Zona de Destino de la Ruta  
 Zona de Origen de la Ruta  
 Tipo de Ruta: P=Pretroncal

**A11**  
 Consecutivo de la Ruta  
 Zona donde opera la Ruta  
 Tipo de Ruta: A=Alimentadora



#### CONVENCIONES

- Estación de Parada
- Punto de Integración Virtual

##### Ruta Troncal

- T10 Estación de Ferrocarril - Centro
- T31 Menga - 7 de Agosto
- T40 Chiminangos - Centro
- T41 Jorge G. Gaitán - Centro
- E31 Alfonso López - Centro
- CORREDOR TRONCAL T31-E31

##### Ruta Pretroncal

- P10A Universidades - Centro Cl 13
- P10B Universidades - Centro Cl 14
- P14 Universidades - 7 de Agosto Aut. Sur
- P20A Alamos - Centro Av. 3 N
- P24 Chipaque - 7 de Agosto
- P30A Chiminangos - Centro
- P30B Jorge G. Gaitán - Centro Cl 5
- P40 7 de Agosto - Centro Cl 8
- P47A 7 de Agosto - Unidad Deportiva Av. ciudad de callao
- P47B 7 de Agosto - Unidad Deportiva Av. Simón Bolívar

##### Rutas Alimentadoras Zona Centro

##### Rutas Alimentadoras Zona Norte

- A2 Brisa de los alamos
- A31 Florala - Chiminangos
- A32 Chiminangos - Flora Industrial
- A33 Ciudadela Flora - Chiminangos
- A34 Alcázares - Flora Industrial
- A37 SENA - Flora Industrial

##### Rutas Alimentadoras Zona Oriente

- A41 7 de Agosto - Desezap
- A42 7 de Agosto - Alfonso Bonilla Aragón
- A45 Alfonso López

##### Rutas Alimentadoras Zona Occidental

- A72 Calaveraje - Siloé
- A73 Nápoles - Capit
- A74 Refugio - Calaveraje

##### Rutas Alimentadoras Zona Sur

- A11 Universidades - Icesi
- A12 Meléndez

#### Horarios Rutas Pretroncales y Alimentadoras

##### Rutas Pretroncales

Lunes a Viernes: 5:00 AM a 11 PM

Sábado: 5:00 AM a 11 PM

##### Rutas Alimentadoras

Lunes a Viernes: 4:30 AM a 11 PM

Sábado: 5:00 AM a 11:30 PM

Below is a listing of access to MIO by comuna and barrio.

Comuna 1 has by far most people saying "No," and almost all comunas have few people saying "No."

Comuna	Acceso a medio de transporte: MIO			Total
	No	Si		
1	35	18		53
2	8	76		84
3	2	47		49
4	2	52		54
5	2	40		42
6	3	88		91
7	6	37		43
8	2	50		52
9	0	46		46
10	4	52		56
11	0	43		43
12	1	27		28
13	6	78		84
14	6	81		87
15	4	38		42
16	5	58		63
17	3	103		106
18	5	54		59
19	2	58		60
20	4	40		44
21	2	47		49
22	1	19		20
23	1	6		7
Total	104	1,158		1,262

And more fine resolution by barrio. Many barrios have a person or two reporting not having access to MIO, and while MIO is ubiquitous throughout Cali, it is perfectly reasonable for a respondent to live in a section of a barrio that is relatively far from MIO [REDACTED]

One barrio, Terron Colorado, clearly stands out with 33 people saying "No" Second biggest has 9, third biggest has 4, and all others 3 or fewer. most barrios/neighborhoods dont have anyone saying no access, still the spread is quite large, a few dozen neighborhoods have at least one person saying no access

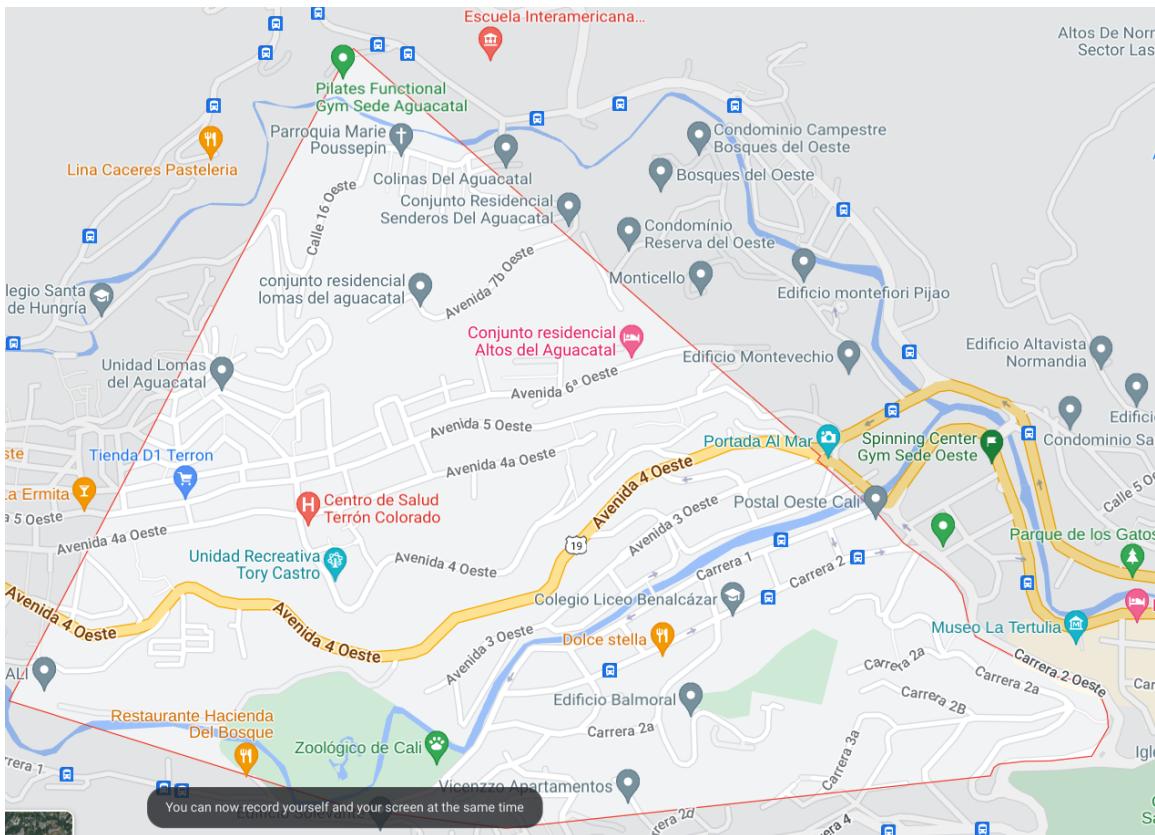
Barrio de residencia	Acceso a medio de transporte: MIO			Total
	No	Si		
.	0	2		2
Aguablanca	0	4		4
Aguablanca	0	2		2
Aguacatala	1	4		5
Alameda	0	4		4
Alameda	0	3		3
Alferez Real	0	1		1
Alfonso Barberena	0	1		1
Alfonso Bonilla Ara..	1	12		13
Alfonso Lopez	4	16		20
Alfonso Lopez III	0	2		2
Alirio Mora Beltran	0	5		5
Alto Napolis	1	2		3
Alto Napolis	0	1		1
Altos de Menga	0	1		1
Antonio Narino	2	11		13
Aranjuez	0	5		5
Asturias	0	2		2
Asturias	0	1		1
Atanasio Girardot	0	3		3
Barrio Departamental	0	3		3
Barrio Obrero	0	3		3
Barrio Olaya Herrera	0	1		1
Barrio San Carlos	0	5		5
Belalcazar	0	1		1
Belalcazar	0	2		2
Belen	0	5		5

Belisario Caicedo	0	2	2
Bellavista	2	7	9
Bolivariano	0	2	2
Bolivariano	0	1	1
Bretana	0	12	12
Brisas de Mayo	0	5	5
Brisas de los Alamos	1	14	15
Brisas del Limonar	0	1	1
Buenos Aires	0	4	4
Caldas	0	4	4
Calima	0	7	7
Calimio	1	6	7
Desepaz	0	4	4
Calypso	0	2	2
Calypso	0	2	2
Camino Real - Joaqu..	0	4	4
Canaverales - Los S..	0	2	2
Caney	0	27	27
Capri	0	6	6
Caaverales - Los ..	0	1	1
Centenario	0	5	5
Champagnat	0	4	4
Champagnat	0	1	1
Chapinero	0	2	2
Charco Azul	0	1	1
Chiminangos I	0	1	1
Chiminangos II	0	2	2
Chipichape	0	1	1
Ciudad 2000	1	5	6
Ciudad Cordoba	1	21	22
Ciudad Talanga	0	2	2
Ciudad los Alamos	0	2	2
Ciudadela Floralia	2	52	54
Ciudadela del Rio --	0	1	1
Ciudadela del Rio --	0	2	2
Ciudadela del campo	0	1	1
Colseguros Andes	0	2	2
Colseguros Andes	0	4	4
Compartir	0	5	5
Compartir	0	3	3
Cristobal Colon	0	4	4
Cuarto de Legua - G..	0	1	1
Danubio	0	1	1
Doce de Octubre	0	1	1
El Bosque	0	4	4
El Diamante	1	7	8
El Diamante	0	1	1
El Dorado	0	3	3
El Guabal	0	6	6
El Ingenio	0	9	9
El Jardin	0	6	6
El Jordan	0	2	2
El Lido	0	3	3
El Limonar	0	6	6
El Morichal	9	117	126
El Mortinal	0	1	1
El Nacional	0	2	2
El Paraiso	0	3	3
El Piloto	0	1	1
El Poblado	3	21	24
El Poblado II	0	6	6
El Recuerdo	0	1	1
El Recuerdo	0	2	2
El Refugio	1	3	4
El Remanso	0	4	4
El Rodeo	0	5	5
El Sena	0	1	1
El Trebol	0	1	1
El Trebol	0	1	1
El Troncal	0	7	7
El Vergel	1	6	7
El laguito	0	1	1
Flora Industrial	0	4	4
Granada	0	8	8
Guayaquil	0	3	3
Guayaquil	0	4	4
Industrial	0	1	1
Industrial los mangos	0	1	1
Jorge Eliecer Gaitan	0	4	4
Jorge Isaacs	0	1	1
Jose Manuel Marroqu..	0	3	3
Jose Manuel Marroqu..	0	1	1
Jose Maria Cordoba	0	1	1
Juanambu	0	1	1
Junin	0	8	8
La Alianza	0	1	1
La Base	0	3	3
La Cascada	0	2	2
La Esmeralda	0	1	1
La Flora	0	10	10
La Floresta	0	4	4
La Fortaleza	0	3	3
La Gran Colombia	0	1	1
La Hacienda	0	8	8
La Independencia	0	2	2

La Isla	1	1	2
La Libertad	0	1	1
La Merced	0	3	3
La Playa	1	0	1
La Rivera	0	4	4
La Selva	0	2	2
Las Acacias	0	1	1
Las Americas	0	1	1
Las Delicias	0	2	2
Las Granjas	0	3	3
Las Orquideas	0	10	10
Las Palmas	0	1	1
Las Quintas de Don ..	0	6	6
Las acacias	0	2	2
Laureano Gomez	0	1	1
Leon XIII	0	3	3
Lili	0	11	11
Lleras Camargo	1	1	2
Lleras Restrepo	0	1	1
Los Alcazares	0	6	6
Los Andes	1	9	10
Los Andes B - La Ria..	0	1	1
Los Chorros	2	8	10
Los Comuneros I Etapa	0	6	6
Los Comuneros II Et..	0	2	2
Los Conquistadores	0	2	2
Los Guaduales	0	1	1
Los Guayacanes	0	2	2
Los Lagos	0	1	1
Los Libertadores	0	1	1
Los Naranjos I	0	6	6
Los Parques Barranq..	0	2	2
Los Pinos	0	1	1
Los Portales- Nuevo..	0	1	1
Los Robles	0	1	1
Los Sauces	0	2	2
Lourdes	0	2	2
Lourdes	0	2	2
Manuela Beltran	1	23	24
Manzanares	0	1	1
Mariano Ramos	0	19	19
Melendez	0	14	14
Menqa	1	2	3
Metropolitano del N..	0	1	1
Miraflores	0	1	1
Mojica	0	1	1
Municipal	0	2	2
Napoles	0	1	1
Normandia	0	1	1
Normandia	1	3	4
Nueva Floresta	0	8	8
Nueva Tequendama	0	1	1
Olimpico	0	2	2
Omar Torrijos	0	1	1
Pampa Linda	0	2	2
Panamericano	0	4	4
Parcelaciones Pance	0	3	3
Petecuy Primera Etapa	0	3	3
Petecuy Segunda Etapa	0	1	1
Pizamos I	0	4	4
Polvorines	0	1	1
Popular	1	7	8
Porvenir	0	6	6
Potrero Grande	0	9	9
Prados del Norte	0	1	1
Prados del Oriente	0	3	3
Prados del Sur	0	3	3
Primavera	0	1	1
Primero de Mayo	0	4	4
Primitivo Crespo	0	1	1
Puerta del Sol	3	13	16
Puerto Mallarino	0	3	3
Rafael Uribe Uribe	1	0	1
Republica de Israel	0	13	13
Ricardo Balcazar	0	3	3
Rodrigo Lara Bonilla	0	1	1
Saavedra Galindo	0	4	4
Salomia	0	15	15
San Antonio	1	5	6
San Cayetano	0	1	1
San Fernando Nuevo	0	6	6
San Fernando Viejo	0	4	4
San Juan Bosco	0	9	9
San Judas Tadeo II	1	1	2
San Luis	0	9	9
San Luis II	0	1	1
San Marino	2	3	5
San Nicolas	1	2	3
San Pascual	0	22	22
San Pedro	0	1	1
San Pedro Claver	0	1	1
Santa Anita - La Se..	0	2	2
Santa Barbara	0	1	1
Santa Elena	3	3	6

Santa Fe	1	4	5
Santa Isabel	0	1	1
Santa Monica	0	2	2
Santa Monica	0	1	1
Santa Monica Popular	0	5	5
Santa Teresita	0	5	5
Santander	0	1	1
Santo Domingo	0	4	4
Sector Alto Jordan	0	1	1
Sector Alto de los ..	0	1	1
Sector Altos de Nor..	2	3	5
Sector Caaveral..	0	2	2
Seminario	0	1	1
Siete de Agosto	0	5	5
Siloe	3	30	33
Simon Bolivar	0	1	1
Sindical	1	1	2
Sucre	0	1	1
Suerte 90	0	1	1
Terron Colorado	33	11	44
Torres de Comfandi	0	5	5
Ulpliano Lloreda	1	4	5
Unicentro Cali	0	2	2
Unidad Residencial ..	0	2	2
Union de Vivienda P..	2	7	9
Urbanizacion Calimio	0	2	2
Urbanizacion Ciudad..	1	3	4
Urbanizacion Nueva ..	0	1	1
Urbanizacion San Jo..	1	1	2
Urbanizacion Tequen..	0	2	2
Urbanizacion la Nue..	0	3	3
Vallado	2	9	11
Valle Grande	0	9	9
Villa Colombia	0	6	6
Villa del Lago	1	3	4
Villa del Prado - E..	0	6	6
Villa del Sur	0	2	2
Villanueva	0	3	3
Villanueva	0	1	1
Vipasa	0	4	4
Vista Hermosa	2	0	2
Total	104	1,165	1,269

Let's zoom in on Terron Colorado in figure 12. Indeed much of it without MIO stops but there are around it at the top on Avenida 15 Oeste and Calle 11 Oeste; and south Cra 1,2, and 4. Indeed, the assessment of whether there is Mio is somewhat subjective, again the actual question is "Walking from your home, what public transport you have access in the neighborhood where you live ?: MIO"



**Figure 12:** Google Maps image of Terron Colorado: <https://www.google.com/maps/place/Terron+Colorado,+Cali,+Valle+del+Cauca/@3.4539485,-76.5546414,16z>

One of the authors, a long term resident of Cali, has observed that Terron Colorado is served by Gualas instead of a regular bus service

And note robustness checks later in this supplementary material—it is only regular bus service, MIO, not other types of transportation, that is robustly related to lower happiness.

Also, as a sidenote, it is not just the reality, but perception of it that matter for SWB, e.g., it's one thing that there is a bus stop nearby, and another thing that a person thinks there is one; one aspect that matters for whether it registers in person's mind is arguably salience—how important/prominent a bus stop is; future research can look more at actual presence v self report.

## Circa o Lehos

Only MIO (again) if far away 5th quintile then good; and biblioteca—anything further than couple minutes bad

	a1	a2	a3	a4	a5	a6
5 quantiles of tiendatiempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of tiendatiempo=2	0.26+	0.22	0.19	0.23	0.18	0.16
5 quantiles of tiendatiempo=3	0.01	-0.02	-0.04	-0.03	-0.05	-0.07
5 quantiles of tiendatiempo=4	-0.07	-0.15	-0.16	-0.16	-0.18	-0.20
5 quantiles of tiendatiempo=5	0.17	0.18	0.18	0.18	0.12	0.14
Edad	-0.03	-0.02	-0.03	-0.03	-0.03	-0.03
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.20+	0.23*	0.22+	0.17	0.23*	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	0.00
Mas de 1 SMMLV y menos de 2 SMMLV	0.28*	0.30*	0.25+	0.28*	0.27+	
Mas de 2 SMMLV y menos de 4 SMMLV	0.42*	0.43*	0.39+	0.36+	0.37+	
Mas de 4 SMMLV y menos de 8 SMMLV	0.73**	0.77**	0.72*	0.60*	0.64*	
Mas de 8 SMMLV	0.70+	0.67	0.72+	0.43	0.41	
No tiene ingresos	-0.06	-0.03	-0.08	-0.10	-0.09	
Blanco	0.00	0.00	0.00	0.00	0.00	0.00
Mestizo	0.06	0.09	0.03	0.09	0.10	
Indígena	0.18	0.16	0.14	0.19	0.10	
Negro/afro	-0.05	-0.05	-0.04	-0.03	-0.02	
Otro	0.16	0.12	0.18	0.22	0.19	
Ninguno	0.65*	0.63*	0.62*	0.67*	0.64*	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.06	0.06	0.05	0.08	0.08	
Separado/divorciado	-0.68**	-0.72**	-0.72**	-0.67**	-0.77**	
Soltero(a)	-0.36*	-0.38*	-0.37*	-0.35*	-0.38*	
Viudo(a)	0.08	0.09	0.03	0.12	0.09	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.01	-0.00	-0.02	-0.04	-0.01	
Tecnica	-0.22	-0.20	-0.25	-0.29	-0.25	
Profesional	-0.21	-0.20	-0.24	-0.35	-0.31	
Posgrado	-0.32	-0.31	-0.33	-0.55+	-0.47	
Ninguno	1.97***	1.63***	1.72***	1.92***	1.39***	
Estado de salud	0.29***	0.28***	0.29***	0.27***	0.27***	
En su barrio ha ocurrido algun tipo de crimen		-0.22+			-0.20+	
Lugares baldios en su barrio	0.05				0.07	
Presencia de policia en su barrio	0.07				0.05	
Siente que su barrio es seguro	-0.04				-0.10	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.28*				0.32**	
Comuna=1		0.00			0.00	
Comuna=2		-0.32			-0.55+	
Comuna=3		-0.09			-0.21	
Comuna=4		0.01			-0.16	
Comuna=5		-0.33			-0.48	
Comuna=6		-0.08			-0.19	
Comuna=7		-0.53			-0.70+	
Comuna=8		-0.54			-0.58+	
Comuna=9		-0.06			-0.27	
Comuna=10		-0.13			-0.34	
Comuna=11		-0.18			-0.31	
Comuna=12		-0.26			-0.42	
Comuna=13		-0.44			-0.47	
Comuna=14		-0.38			-0.37	
Comuna=15		-0.61			-0.68	
Comuna=16		0.13			0.02	
Comuna=17		-0.08			-0.41	
Comuna=18		-0.13			-0.16	
Comuna=19		-0.25			-0.57	
Comuna=20		-0.08			-0.11	
Comuna=21		0.00			-0.06	
Comuna=22		0.15			-0.21	
Comuna=23		-0.67			-0.85+	
Estrato Socioeconomico=1			0.00		0.00	
Estrato Socioeconomico=2			0.12		0.15	
Estrato Socioeconomico=3			0.10		0.21	
Estrato Socioeconomico=4			0.23		0.36	
Estrato Socioeconomico=5			0.60**		0.80**	
Estrato Socioeconomico=6			0.43		0.59	
Siente que su barrio es seguro			0.00			
constant	8.49***	7.96***	7.92***	8.26***	8.02***	8.29***
N	1263	1206	1189	1199	1202	1178

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

Table 9: OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of parquetiempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of parquetiempo=2	0.15	0.20	0.20	0.20	0.20	0.21
5 quantiles of parquetiempo=4	0.32*	0.32*	0.34*	0.33*	0.32*	0.33*
5 quantiles of parquetiempo=5	0.19	0.20	0.21	0.22	0.20	0.22
Edad	-0.02	-0.02	-0.03	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.18+	0.21+	0.20+	0.16	0.21+	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.27+	0.27+	0.22	0.26+	0.24	
Mas de 2 SMMLV y menos de 4 SMMLV	0.34	0.36	0.29	0.29	0.30	
Mas de 4 SMMLV y menos de 8 SMMLV	0.67*	0.70*	0.64*	0.51+	0.53+	
Mas de 8 SMMLV	0.80*	0.77+	0.72+	0.48	0.40	
No tiene ingresos	-0.03	-0.01	-0.05	-0.07	-0.06	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.04	0.08	0.01	0.07	0.08	
Indígena	0.13	0.08	0.06	0.13	-0.00	
Negro/afro	-0.05	-0.04	-0.03	-0.02	0.01	
Otro	0.19	0.16	0.20	0.25	0.22	
Ninguno	0.55+	0.56+	0.52+	0.58*	0.57+	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union libre	0.10	0.10	0.10	0.13	0.12	
Separado/divorciado	-0.66**	-0.71**	-0.71**	-0.64**	-0.76**	
Soltero(a)	-0.34*	-0.35*	-0.34*	-0.33*	-0.34*	
Viudo(a)	-0.16	-0.10	-0.22	-0.13	-0.11	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.04	-0.04	-0.06	-0.08	-0.07	
Tecnica	-0.30	-0.29	-0.34	-0.37	-0.36	
Profesional	-0.22	-0.22	-0.28	-0.37	-0.36	
Posgrado	-0.37	-0.36	-0.38	-0.61+	-0.53	
Ninguno	1.78***	1.37***	1.43***	1.74***	1.07**	
Estado de salud	0.28***	0.27***	0.28***	0.26***	0.26***	
En su barrio ha ocurrido algun tipo de crimen		-0.30*			-0.26*	
Lugares baldios en su barrio	0.10				0.11	
Presencia de policia en su barrio	0.06				0.06	
Siente que su barrio es seguro	-0.06				-0.12	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.27*				0.32**	
Comuna=1		0.00			0.00	
Comuna=2		-0.20			-0.46	
Comuna=3		-0.04			-0.16	
Comuna=4		0.06			-0.11	
Comuna=5		-0.29			-0.45	
Comuna=6		-0.07			-0.17	
Comuna=7		-0.63			-0.80+	
Comuna=8		-0.45			-0.47	
Comuna=9		-0.05			-0.25	
Comuna=10		-0.11			-0.32	
Comuna=11		-0.13			-0.28	
Comuna=12		-0.28			-0.46	
Comuna=13		-0.52+			-0.57+	
Comuna=14		-0.55+			-0.58+	
Comuna=15		-0.53			-0.61	
Comuna=16		0.22			0.07	
Comuna=17		-0.06			-0.41	
Comuna=18		-0.08			-0.14	
Comuna=19		-0.27			-0.59	
Comuna=20		-0.02			-0.10	
Comuna=21		0.07			-0.04	
Comuna=22		0.24			-0.18	
Comuna=23		-0.51			-0.75	
Estrato Socioeconomico=1			0.00	0.00		
Estrato Socioeconomico=2			0.10	0.10		
Estrato Socioeconomico=3			0.12	0.17		
Estrato Socioeconomico=4			0.20	0.30		
Estrato Socioeconomico=5			0.63**	0.78*		
Estrato Socioeconomico=6			0.81*	0.91*		
Siente que su barrio es seguro			0.00	0.00		
constant	8.42***	7.88***	7.84***	8.15***	7.91***	8.20***
N	1184	1129	1114	1123	1125	1104

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 10:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of restaurante tiempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of restaurante tiempo=2	-0.05	-0.06	-0.05	-0.08	-0.03	-0.04
5 quantiles of restaurante tiempo=4	0.07	0.06	0.05	0.07	0.07	0.07
5 quantiles of restaurante tiempo=5	-0.05	-0.14	-0.10	-0.14	-0.13	-0.09
Edad	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.16	0.18	0.16	0.13	0.18	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.27+	0.28+	0.24+	0.27+	0.26+	
Mas de 2 SMMLV y menos de 4 SMMLV	0.38+	0.41+	0.36+	0.35	0.36	
Mas de 4 SMMLV y menos de 8 SMMLV	0.67*	0.71*	0.66*	0.55*	0.58*	
Mas de 8 SMMLV	0.66+	0.62	0.68+	0.39	0.35	
No tiene ingresos	-0.07	-0.05	-0.10	-0.10	-0.11	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.09	0.12	0.07	0.12	0.13	
Indígena	0.19	0.15	0.15	0.20	0.10	
Negro/afro	-0.00	-0.00	0.01	0.03	0.03	
Otro	0.23	0.17	0.26	0.29	0.26	
Ninguno	0.64*	0.62*	0.60*	0.67*	0.63*	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union libre	0.10	0.09	0.09	0.11	0.11	
Separado/divorciado	-0.68**	-0.69**	-0.73**	-0.67**	-0.74**	
Soltero(a)	-0.36*	-0.37*	-0.36*	-0.35*	-0.36*	
Viudo(a)	0.01	0.02	-0.05	0.05	0.02	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.06	-0.05	-0.06	-0.09	-0.05	
Tecnica	-0.23	-0.20	-0.23	-0.28	-0.23	
Profesional	-0.25	-0.23	-0.26	-0.37	-0.32	
Posgrado	-0.35	-0.34	-0.31	-0.56+	-0.47	
Estado de salud	0.28***	0.27***	0.29***	0.27***	0.26***	
En su barrio ha ocurrido algun tipo de crimen		-0.22+			-0.21+	
Lugares baldios en su barrio	0.04				0.05	
Presencia de policía en su barrio	0.11				0.10	
Siente que su barrio es seguro	-0.06				-0.10	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.25*				0.29**	
Comuna=1		0.00			0.00	
Comuna=2		-0.28			-0.50	
Comuna=3		-0.04			-0.14	
Comuna=4		0.01			-0.16	
Comuna=5		-0.30			-0.43	
Comuna=6		-0.05			-0.16	
Comuna=7		-0.29			-0.47	
Comuna=8		-0.53			-0.55	
Comuna=9		-0.04			-0.21	
Comuna=10		-0.12			-0.32	
Comuna=11		-0.12			-0.26	
Comuna=12		-0.25			-0.41	
Comuna=13		-0.39			-0.44	
Comuna=14		-0.31			-0.32	
Comuna=15		-0.55			-0.64	
Comuna=16		0.15			0.01	
Comuna=17		-0.09			-0.42	
Comuna=18		-0.18			-0.17	
Comuna=19		-0.32			-0.62	
Comuna=20		-0.01			-0.07	
Comuna=21		-0.01			-0.10	
Comuna=22		0.24			-0.14	
Comuna=23		-0.24			-0.43	
Estrato Socioeconomico=1			0.00		0.00	
Estrato Socioeconomico=2			0.14		0.16	
Estrato Socioeconomico=3			0.08		0.16	
Estrato Socioeconomico=4			0.17		0.33	
Estrato Socioeconomico=5			0.58**		0.80**	
Estrato Socioeconomico=6			0.41		0.57	
Siente que su barrio es seguro			0.00			
constant	8.58***	7.99***	7.94***	8.26***	8.01***	8.26***
N	1223	1168	1152	1162	1165	1143

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 11:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of medicotiempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of medicotiempo=2	0.02	0.05	0.08	0.03	0.06	0.08
5 quantiles of medicotiempo=3	-0.17	-0.12	-0.09	-0.12	-0.13	-0.08
5 quantiles of medicotiempo=4	-0.09	-0.14	-0.08	-0.14	-0.16	-0.08
5 quantiles of medicotiempo=5	-0.17	-0.14	-0.11	-0.14	-0.15	-0.12
Edad	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.19+	0.21+	0.20+	0.16	0.20+	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.30*	0.31*	0.27+	0.30*	0.30*	
Mas de 2 SMMLV y menos de 4 SMMLV	0.36+	0.37+	0.35	0.33	0.34	
Mas de 4 SMMLV y menos de 8 SMMLV	0.58*	0.63*	0.58*	0.45	0.51+	
Mas de 8 SMMLV	0.65+	0.60	0.63	0.35	0.31	
No tiene ingresos	-0.12	-0.10	-0.15	-0.16	-0.16	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.02	0.05	-0.01	0.05	0.05	
Indigena	0.15	0.11	0.10	0.14	0.05	
Negro/afro	-0.11	-0.10	-0.11	-0.09	-0.09	
Otro	0.42	0.40	0.38	0.51	0.43	
Ninguno	0.71**	0.68*	0.70*	0.73**	0.71*	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.08	0.07	0.07	0.09	0.08	
Separado/divorciado	-0.59*	-0.63**	-0.62**	-0.58*	-0.67**	
Soltero(a)	-0.34*	-0.36*	-0.34*	-0.33*	-0.35*	
Viudo(a)	0.12	0.12	0.09	0.16	0.14	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	0.02	0.02	0.02	-0.01	0.02	
Tecnica	-0.18	-0.16	-0.19	-0.23	-0.20	
Profesional	-0.12	-0.12	-0.14	-0.24	-0.22	
Posgrado	-0.24	-0.23	-0.24	-0.44	-0.36	
Ninguno	1.81***	1.46***	1.50***	1.75***	1.18**	
Estado de salud	0.24***	0.23***	0.24***	0.22***	0.22***	
En su barrio ha ocurrido algun tipo de crimen		-0.28*			-0.26*	
Lugares baldios en su barrio		0.10			0.12	
Presencia de policia en su barrio		0.04			0.03	
Siente que su barrio es seguro		-0.08			-0.12	
Siente que su barrio es seguro		0.00				
Percepcion de seguridad		0.20+			0.25*	
Comuna=1			0.00		0.00	
Comuna=2			-0.33		-0.56+	
Comuna=3			-0.21		-0.31	
Comuna=4			-0.24		-0.40	
Comuna=5			-0.26		-0.38	
Comuna=6			-0.10		-0.18	
Comuna=7			-0.61		-0.77*	
Comuna=8			-0.57		-0.54	
Comuna=9			-0.21		-0.37	
Comuna=10			-0.20		-0.34	
Comuna=11			-0.30		-0.40	
Comuna=12			-0.31		-0.46	
Comuna=13			-0.53+		-0.55+	
Comuna=14			-0.36		-0.37	
Comuna=15			-0.69		-0.76	
Comuna=16			-0.02		-0.13	
Comuna=17			-0.17		-0.48	
Comuna=18			-0.23		-0.28	
Comuna=19			-0.42		-0.70+	
Comuna=20			-0.18		-0.24	
Comuna=21			0.01		-0.07	
Comuna=22			0.13		-0.23	
Comuna=23			-0.70		-0.90+	
Estrato Socioeconomico=1				0.00	0.00	
Estrato Socioeconomico=2				0.09	0.13	
Estrato Socioeconomico=3				0.03	0.14	
Estrato Socioeconomico=4				0.12	0.27	
Estrato Socioeconomico=5				0.56*	0.76*	
Estrato Socioeconomico=6				0.46	0.57	
Siente que su barrio es seguro					0.00	
constant	8.63***	8.12***	8.15***	8.49***	8.20***	8.58***
N	1165	1114	1098	1107	1110	1087

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 12:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of bibliotecatiempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of bibliotecatiempo=2	-0.56**	-0.48*	-0.48*	-0.45*	-0.47*	-0.43*
5 quantiles of bibliotecatiempo=3	-0.31	-0.27	-0.25	-0.25	-0.29	-0.26
5 quantiles of bibliotecatiempo=4	-0.34*	-0.39*	-0.36*	-0.38*	-0.41*	-0.38*
5 quantiles of bibliotecatiempo=5	-0.35+	-0.35+	-0.31	-0.34+	-0.36+	-0.31
Edad	-0.04*	-0.04*	-0.04*	-0.04*	-0.04*	-0.04*
edad2	0.00*	0.00+	0.00+	0.00+	0.00+	0.00+
RECODE of sexo (Sexo)	-0.00	0.01	0.01	-0.00	0.01	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.13	0.11	0.11	0.14	0.13	
Mas de 2 SMMLV y menos de 4 SMMLV	0.34	0.32	0.31	0.36	0.34	
Mas de 4 SMMLV y menos de 8 SMMLV	0.37	0.33	0.40	0.22	0.19	
Mas de 8 SMMLV	-0.23	-0.34	-0.23	-0.60	-0.73	
No tiene ingresos	0.09	0.09	0.11	0.08	0.09	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	-0.07	-0.06	-0.10	-0.08	-0.12	
Indigena	-0.36	-0.36	-0.40	-0.36	-0.42	
Negro/afro	-0.24	-0.27	-0.21	-0.25	-0.24	
Otro	-0.51	-0.67	-0.59	-0.48	-0.73	
Ninguno	0.33	0.21	0.24	0.32	0.09	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.18	0.17	0.20	0.21	0.22	
Separado/divorciado	-0.55*	-0.59*	-0.60*	-0.52+	-0.58*	
Soltero(a)	-0.49**	-0.50**	-0.48*	-0.48*	-0.47*	
Viudo(a)	0.22	0.25	0.23	0.19	0.21	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	0.31	0.35	0.33	0.33	0.41	
Tecnica	0.06	0.12	0.08	0.08	0.20	
Profesional	0.08	0.14	0.09	0.08	0.20	
Posgrado	0.15	0.20	0.21	0.11	0.28	
Ninguno	1.57***	1.43***	1.61**	1.51***	1.51**	
Estado de salud	0.22***	0.21**	0.20**	0.22***	0.20**	
En su barrio ha ocurrido algun tipo de crimen		-0.13			-0.14	
Lugares baldios en su barrio	-0.04				-0.06	
Presencia de policia en su barrio	0.08				0.04	
Siente que su barrio es seguro	-0.09				-0.10	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.24+				0.24+	
Comuna=1		0.00			0.00	
Comuna=2		-0.46			-0.44	
Comuna=3		-0.32			-0.22	
Comuna=4		-0.34			-0.24	
Comuna=5		-0.43			-0.27	
Comuna=6		-0.24			-0.10	
Comuna=7		-0.68			-0.55	
Comuna=8		-0.33			-0.23	
Comuna=9		-0.34			-0.19	
Comuna=10		-0.39			-0.15	
Comuna=11		-0.49			-0.32	
Comuna=12		-0.79			-0.75	
Comuna=13		-0.89*			-0.78+	
Comuna=14		-0.54+			-0.47	
Comuna=15		-0.84			-0.71	
Comuna=16		-0.11			0.05	
Comuna=17		-0.45			-0.45	
Comuna=18		-0.47			-0.25	
Comuna=19		-0.39			-0.29	
Comuna=20		-0.54			-0.46	
Comuna=21		-0.55			-0.53	
Comuna=22		-0.51			-0.54	
Comuna=23		-1.27			-1.15	
Estrato Socioeconomico=1			0.00		0.00	
Estrato Socioeconomico=2			-0.08		-0.16	
Estrato Socioeconomico=3			-0.07		-0.18	
Estrato Socioeconomico=4			-0.29		-0.39	
Estrato Socioeconomico=5			0.47+		0.50	
Estrato Socioeconomico=6			0.37		0.38	
Siente que su barrio es seguro					0.00	
constant	8.86***	8.95***	8.93***	9.46***	9.00***	9.42***
N	676	647	642	643	647	638

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 13:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of miotempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of miotempo=2	-0.09	-0.13	-0.16	-0.14	-0.11	-0.14
5 quantiles of miotempo=3	0.17	0.12	0.09	0.13	0.13	0.12
5 quantiles of miotempo=4	-0.09	-0.07	-0.08	-0.06	-0.07	-0.07
5 quantiles of miotempo=5	0.25	0.25	0.26	0.27	0.29+	0.34+
Edad	-0.02	-0.01	-0.02	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.19+	0.22+	0.22+	0.17	0.22+	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.37*	0.37*	0.33*	0.37*	0.33*	
Mas de 2 SMMLV y menos de 4 SMMLV	0.45*	0.46*	0.42+	0.41+	0.41+	
Mas de 4 SMMLV y menos de 8 SMMLV	0.81**	0.86**	0.78**	0.67*	0.69*	
Mas de 8 SMMLV	0.72+	0.65	0.70+	0.45	0.34	
No tiene ingresos	0.01	0.03	-0.01	-0.03	-0.03	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.01	0.04	-0.02	0.04	0.04	
Indigena	0.10	0.07	0.04	0.11	-0.02	
Negro/afro	-0.12	-0.12	-0.11	-0.10	-0.10	
Otro	0.04	-0.02	0.04	0.09	0.06	
Ninguno	0.47	0.51+	0.42	0.51+	0.50	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.04	0.03	0.04	0.06	0.06	
Separado/divorciado	-0.61*	-0.67**	-0.64*	-0.60*	-0.70**	
Soltero(a)	-0.37*	-0.38*	-0.38*	-0.36*	-0.38*	
Viudo(a)	0.00	0.02	-0.09	0.08	0.01	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.08	-0.08	-0.09	-0.13	-0.08	
Tecnica	-0.35	-0.33	-0.35	-0.44+	-0.37	
Profesional	-0.27	-0.25	-0.25	-0.42+	-0.33	
Posgrado	-0.40	-0.39	-0.33	-0.65*	-0.50	
Ninguno	1.72***	1.33***	1.46***	1.68***	1.11**	
Estado de salud	0.29***	0.28***	0.29***	0.27***	0.27***	
En su barrio ha ocurrido algun tipo de crimen		-0.23+			-0.22+	
Lugares baldios en su barrio	0.05				0.07	
Presencia de policia en su barrio	0.13				0.11	
Siente que su barrio es seguro	-0.03				-0.09	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.25*				0.29**	
Comuna=1		0.00			0.00	
Comuna=2		-0.21			-0.39	
Comuna=3		0.08			0.05	
Comuna=4		0.18			0.09	
Comuna=5		-0.27			-0.34	
Comuna=6		0.09			0.04	
Comuna=7		-0.39			-0.54	
Comuna=8		-0.34			-0.30	
Comuna=9		0.08			-0.04	
Comuna=10		0.01			-0.14	
Comuna=11		0.06			-0.03	
Comuna=12		-0.16			-0.28	
Comuna=13		-0.34			-0.32	
Comuna=14		-0.27			-0.20	
Comuna=15		-0.54			-0.57	
Comuna=16		0.24			0.12	
Comuna=17		-0.06			-0.34	
Comuna=18		-0.04			0.04	
Comuna=19		-0.28			-0.50	
Comuna=20		0.04			0.07	
Comuna=21		0.11			0.08	
Comuna=22		0.32			-0.03	
Comuna=23		-0.79			-0.88	
Estrato Socioeconomico=1			0.00	0.00		
Estrato Socioeconomico=2			0.20	0.21		
Estrato Socioeconomico=3			0.16	0.20		
Estrato Socioeconomico=4			0.19	0.33		
Estrato Socioeconomico=5			0.68**	0.90**		
Estrato Socioeconomico=6			0.56	0.63		
Siente que su barrio es seguro				0.00		
constant	8.50***	7.88***	7.86***	8.07***	7.88***	8.04***
N	1166	1116	1103	1109	1112	1092

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 14:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of iglesiatempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of iglesiatempo=2	-0.07	-0.08	-0.08	-0.08	-0.08	-0.09
5 quantiles of iglesiatempo=3	-0.30	-0.25	-0.27	-0.26	-0.27	-0.31
5 quantiles of iglesiatempo=4	0.11	0.07	0.05	0.08	0.04	0.00
5 quantiles of iglesiatempo=5	0.04	0.04	0.05	0.05	0.04	0.05
Edad	-0.02	-0.02	-0.03	-0.02	-0.02	-0.02
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.18	0.22+	0.19+	0.15	0.21+	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.33*	0.34*	0.29+	0.32*	0.30*	
Mas de 2 SMMLV y menos de 4 SMMLV	0.43*	0.45*	0.40+	0.38+	0.38	
Mas de 4 SMMLV y menos de 8 SMMLV	0.83**	0.86**	0.81**	0.67*	0.68*	
Mas de 8 SMMLV	0.74+	0.71+	0.74+	0.43	0.35	
No tiene ingresos	-0.07	-0.05	-0.10	-0.11	-0.12	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.04	0.07	0.01	0.07	0.07	
Indigena	0.09	0.05	0.05	0.10	-0.02	
Negro/afro	-0.08	-0.08	-0.08	-0.04	-0.05	
Otro	0.07	0.01	0.06	0.12	0.07	
Ninguno	0.61*	0.57*	0.55+	0.63*	0.58+	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.13	0.12	0.13	0.16	0.16	
Separado/divorciado	-0.58*	-0.59*	-0.64*	-0.56*	-0.63*	
Soltero(a)	-0.32*	-0.33*	-0.33*	-0.30+	-0.32*	
Viudo(a)	0.14	0.14	0.10	0.19	0.19	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.00	0.01	-0.03	-0.05	-0.02	
Tecnica	-0.18	-0.15	-0.21	-0.25	-0.21	
Profesional	-0.16	-0.14	-0.19	-0.31	-0.27	
Posgrado	-0.26	-0.25	-0.25	-0.54+	-0.44	
Ninguno	1.89***	1.58***	1.70***	1.86***	1.39***	
Estado de salud	0.27***	0.26***	0.27***	0.25***	0.24***	
En su barrio ha ocurrido algun tipo de crimen		-0.18			-0.16	
Lugares baldios en su barrio		0.05			0.07	
Presencia de policia en su barrio		0.07			0.07	
Siente que su barrio es seguro		-0.00			-0.06	
Siente que su barrio es seguro		0.00				
Percepcion de seguridad		0.27*			0.31**	
Comuna=1			0.00		0.00	
Comuna=2			-0.30		-0.55+	
Comuna=3			-0.13		-0.26	
Comuna=4			-0.05		-0.26	
Comuna=5			-0.28		-0.46	
Comuna=6			-0.12		-0.25	
Comuna=7			-0.56		-0.76+	
Comuna=8			-0.43		-0.47	
Comuna=9			-0.02		-0.25	
Comuna=10			-0.10		-0.33	
Comuna=11			-0.14		-0.32	
Comuna=12			-0.32		-0.51	
Comuna=13			-0.52+		-0.57+	
Comuna=14			-0.38		-0.38	
Comuna=15			-0.60		-0.70	
Comuna=16			0.11		-0.03	
Comuna=17			-0.14		-0.52	
Comuna=18			-0.22		-0.22	
Comuna=19			-0.35		-0.70+	
Comuna=20			-0.08		-0.10	
Comuna=21			-0.09		-0.16	
Comuna=22			0.12		-0.28	
Comuna=23			-0.28		-0.47	
Estrato Socioeconomico=1				0.00	0.00	
Estrato Socioeconomico=2				0.15	0.18	
Estrato Socioeconomico=3				0.16	0.24	
Estrato Socioeconomico=4				0.22	0.38	
Estrato Socioeconomico=5				0.75***	1.00**	
Estrato Socioeconomico=6				0.36	0.55	
Siente que su barrio es seguro					0.00	
constant	8.57***	7.98***	7.88***	8.32***	8.00***	8.28***
N	1183	1129	1113	1122	1126	1103

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 15:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of CALtiempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of CALtiempo=2	0.01	0.02	0.00	-0.03	0.04	-0.03
5 quantiles of CALtiempo=4	0.03	0.04	0.03	0.03	0.01	-0.01
5 quantiles of CALtiempo=5	-0.28	-0.26	-0.29	-0.22	-0.28	-0.28
Edad	-0.02	-0.01	-0.02	-0.02	-0.02	-0.01
edad2	0.00	0.00	0.00	0.00	0.00	0.00
RECODE of sexo (Sexo)	0.30*	0.32*	0.28*	0.27*	0.27+	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.27	0.27	0.28	0.30	0.32+	
Mas de 2 SMMLV y menos de 4 SMMLV	0.43	0.44	0.43	0.45+	0.45	
Mas de 4 SMMLV y menos de 8 SMMLV	0.75**	0.78**	0.73**	0.68*	0.66*	
Mas de 8 SMMLV	0.29	0.24	0.32	0.24	0.20	
No tiene ingresos	-0.10	-0.09	-0.06	-0.13	-0.06	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.06	0.08	0.08	0.11	0.14	
Indígena	0.05	0.03	-0.01	0.06	-0.02	
Negro/afro	-0.04	-0.04	0.05	-0.02	0.05	
Otro	-0.06	-0.12	-0.04	-0.07	-0.12	
Ninguno	0.61	0.48	0.57	0.63	0.53	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union íbre	0.07	0.07	0.05	0.08	0.06	
Separado/divorciado	-0.66*	-0.63*	-0.78*	-0.67*	-0.72*	
Soltero(a)	-0.33+	-0.35+	-0.35+	-0.30+	-0.34+	
Viudo(a)	0.58+	0.64*	0.29	0.63*	0.44	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.20	-0.22	-0.23	-0.21	-0.25	
Tecnica	-0.36	-0.37	-0.39	-0.41	-0.43	
Profesional	-0.34	-0.34	-0.37	-0.41	-0.43	
Posgrado	-0.38	-0.35	-0.26	-0.45	-0.34	
Ninguno	1.74***	1.34***	1.42***	1.71***	1.12*	
Estado de salud	0.25***	0.23***	0.25***	0.23***	0.21**	
En su barrio ha ocurrido algun tipo de crimen		-0.31*			-0.31+	
Lugares baldíos en su barrio		0.17			0.14	
Presencia de policía en su barrio		0.08			0.05	
Siente que su barrio es seguro		-0.18			-0.26	
Siente que su barrio es seguro		0.00				
Percepcion de seguridad		0.18			0.24+	
Comuna=1			0.00		0.00	
Comuna=2			-0.46		-0.53	
Comuna=3			-0.14		-0.21	
Comuna=4			-0.39		-0.51	
Comuna=5			-0.53		-0.54	
Comuna=6			-0.18		-0.24	
Comuna=7			-0.27		-0.43	
Comuna=8			-0.77+		-0.58	
Comuna=9			0.22		0.20	
Comuna=10			0.01		-0.04	
Comuna=11			-0.28		-0.33	
Comuna=12			-0.84		-0.98	
Comuna=13			-0.74*		-0.75*	
Comuna=14			-0.77*		-0.83*	
Comuna=15			-0.62		-0.68	
Comuna=16			0.03		-0.09	
Comuna=17			-0.59		-0.75+	
Comuna=18			-0.35		-0.31	
Comuna=19			-0.35		-0.48	
Comuna=20			-0.16		-0.30	
Comuna=21			-0.14		-0.27	
Comuna=22			0.13		-0.12	
Comuna=23			-0.64		-0.79	
Estrato Socioeconomico=1				0.00	0.00	
Estrato Socioeconomico=2				0.05	0.07	
Estrato Socioeconomico=3				0.04	0.04	
Estrato Socioeconomico=4				-0.09	-0.08	
Estrato Socioeconomico=5				0.26	0.49	
Estrato Socioeconomico=6				0.67	0.71	
Siente que su barrio es seguro					0.00	
constant	8.59***	8.03***	8.16***	8.45***	8.10***	8.72***
N	786	749	742	746	747	737

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 16:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of CAAltimo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of CAAltimo=2	-0.09	-0.06	-0.04	-0.07	-0.07	-0.06
5 quantiles of CAAltimo=3	0.07	0.28	0.22	0.21	0.35	0.19
5 quantiles of CAAltimo=4	-0.03	-0.00	-0.00	0.00	0.00	-0.00
5 quantiles of CAAltimo=5	-0.01	-0.07	-0.01	0.00	-0.07	0.04
Edad	-0.04*	-0.04*	-0.04*	-0.05*	-0.04*	
edad2	0.00*	0.00*	0.00*	0.00*	0.00*	0.00*
RECODE of sexo (Sexo)	0.15	0.19	0.16	0.12	0.19	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.21	0.23	0.20	0.21	0.22	
Mas de 2 SMMLV y menos de 4 SMMLV	0.39+	0.40+	0.38	0.38	0.39	
Mas de 4 SMMLV y menos de 8 SMMLV	0.80**	0.88**	0.79**	0.65*	0.71*	
Mas de 8 SMMLV	0.43	0.31	0.38	0.19	-0.00	
No tiene ingresos	-0.17	-0.14	-0.17	-0.22	-0.18	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.03	0.07	0.01	0.07	0.07	
Indigena	0.32	0.26	0.25	0.32	0.19	
Negro/afro	-0.07	-0.06	-0.06	-0.04	-0.04	
Otro	0.16	0.11	0.18	0.17	0.13	
Ninguno	0.81**	0.80**	0.82**	0.85**	0.86**	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.05	0.03	0.05	0.08	0.06	
Separado/divorciado	-0.64*	-0.64*	-0.69*	-0.65*	-0.71*	
Soltero(a)	-0.38*	-0.40*	-0.39*	-0.37*	-0.40*	
Viudo(a)	0.47	0.54+	0.37	0.50	0.52	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	-0.08	-0.07	-0.09	-0.13	-0.09	
Tecnica	-0.35	-0.32	-0.38	-0.44+	-0.40	
Profesional	-0.30	-0.29	-0.31	-0.45+	-0.41	
Posgrado	-0.60	-0.56	-0.58	-0.88*	-0.76+	
Ninguno	1.75***	1.42***	1.47***	1.72***	1.16**	
Estado de salud	0.27***	0.25***	0.27***	0.25***	0.24***	
En su barrio ha ocurrido algun tipo de crimen		-0.20			-0.17	
Lugares baldios en su barrio	0.14				0.16	
Presencia de policia en su barrio	0.11				0.10	
Siente que su barrio es seguro	-0.03				-0.09	
Siente que su barrio es seguro	0.00					
Percepcion de seguridad	0.22+				0.29*	
Comuna=1		0.00			0.00	
Comuna=2		-0.24			-0.48	
Comuna=3		-0.21			-0.33	
Comuna=4		-0.11			-0.33	
Comuna=5		-0.49			-0.68+	
Comuna=6		-0.07			-0.19	
Comuna=7		-0.61			-0.86*	
Comuna=8		-0.46			-0.44	
Comuna=9		0.05			-0.20	
Comuna=10		0.02			-0.20	
Comuna=11		-0.25			-0.44	
Comuna=12		-0.30			-0.51	
Comuna=13		-0.41			-0.45	
Comuna=14		-0.34			-0.33	
Comuna=15		-0.44			-0.58	
Comuna=16		0.03			-0.09	
Comuna=17		-0.20			-0.47	
Comuna=18		-0.13			-0.14	
Comuna=19		-0.16			-0.43	
Comuna=20		-0.17			-0.23	
Comuna=21		0.05			-0.02	
Comuna=22		0.19			-0.17	
Comuna=23		-0.80			-0.93+	
Estrato Socioeconomico=1			0.00	0.00		
Estrato Socioeconomico=2			0.14	0.16		
Estrato Socioeconomico=3			0.21	0.33+		
Estrato Socioeconomico=4			0.07	0.18		
Estrato Socioeconomico=5			0.70**	0.89**		
Estrato Socioeconomico=6			0.45	0.50		
Siente que su barrio es seguro				0.00		
constant	8.59***	8.67***	8.56***	8.88***	8.71***	8.81***
N	1053	1008	993	1002	1005	984

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 17:** OLS regressions of satisfaccionvida.

	a1	a2	a3	a4	a5	a6
5 quantiles of IETiempo=1	0.00	0.00	0.00	0.00	0.00	0.00
5 quantiles of IETiempo=2	-0.14	-0.15	-0.15	-0.13	-0.12	-0.12
5 quantiles of IETiempo=3	0.19	0.14	0.17	0.13	0.17	0.18
5 quantiles of IETiempo=4	0.09	0.04	0.05	0.05	0.02	0.02
5 quantiles of IETiempo=5	0.02	-0.00	-0.01	0.01	-0.01	-0.01
Edad	-0.03	-0.02	-0.03	-0.03	-0.03	-0.03
edad2	0.00+	0.00	0.00+	0.00+	0.00+	0.00+
RECODE of sexo (Sexo)	0.21+	0.24*	0.24*	0.19+	0.26*	
Menos de 1 SMMLV	0.00	0.00	0.00	0.00	0.00	
Mas de 1 SMMLV y menos de 2 SMMLV	0.32*	0.33*	0.28+	0.32*	0.29*	
Mas de 2 SMMLV y menos de 4 SMMLV	0.40+	0.42+	0.37+	0.36	0.37	
Mas de 4 SMMLV y menos de 8 SMMLV	0.66*	0.70*	0.66*	0.53+	0.56+	
Mas de 8 SMMLV	0.63	0.55	0.64	0.33	0.23	
No tiene ingresos	-0.05	-0.03	-0.07	-0.08	-0.09	
Blanco	0.00	0.00	0.00	0.00	0.00	
Mestizo	0.06	0.08	0.03	0.08	0.08	
Indigena	0.15	0.12	0.08	0.16	0.04	
Negro/afro	-0.04	-0.05	-0.04	-0.01	-0.03	
Otro	0.23	0.16	0.23	0.29	0.23	
Ninguno	0.76**	0.71**	0.74**	0.78**	0.74**	
Casado(a)	0.00	0.00	0.00	0.00	0.00	
Union ibre	0.07	0.07	0.07	0.09	0.09	
Separado/divorciado	-0.62*	-0.63**	-0.68**	-0.61*	-0.70**	
Soltero(a)	-0.35*	-0.36*	-0.37*	-0.33*	-0.37*	
Viudo(a)	-0.06	-0.03	-0.16	-0.02	-0.08	
Primaria	0.00	0.00	0.00	0.00	0.00	
Secundaria	0.03	0.04	0.02	0.00	0.03	
Tecnica	-0.17	-0.15	-0.19	-0.24	-0.20	
Profesional	-0.12	-0.10	-0.12	-0.25	-0.21	
Posgrado	-0.22	-0.21	-0.18	-0.48	-0.37	
Ninguno	2.01***	1.67***	1.76***	2.01***	1.47***	
Estado de salud	0.29***	0.28***	0.29***	0.27***	0.27***	
En su barrio ha ocurrido algun tipo de crimen		-0.22+			-0.21	
Lugares baldios en su barrio		0.05			0.08	
Presencia de policia en su barrio		0.11			0.09	
Siente que su barrio es seguro		-0.06			-0.12	
Siente que su barrio es seguro		0.00				
Percepcion de seguridad		0.27*			0.32**	
Comuna=1			0.00		0.00	
Comuna=2			-0.28		-0.53	
Comuna=3			0.15		0.01	
Comuna=4			0.11		-0.11	
Comuna=5			-0.22		-0.40	
Comuna=6			0.06		-0.07	
Comuna=7			-0.45		-0.65	
Comuna=8			-0.47		-0.53	
Comuna=9			0.13		-0.10	
Comuna=10			-0.05		-0.30	
Comuna=11			-0.10		-0.28	
Comuna=12			-0.19		-0.39	
Comuna=13			-0.37		-0.43	
Comuna=14			-0.29		-0.31	
Comuna=15			-0.55		-0.66	
Comuna=16			0.22		0.07	
Comuna=17			-0.03		-0.42	
Comuna=18			-0.08		-0.09	
Comuna=19			-0.31		-0.66	
Comuna=20			0.03		-0.04	
Comuna=21			0.09		-0.01	
Comuna=22			0.29		-0.13	
Comuna=23			-0.66		-0.87+	
Estrato Socioeconomico=1				0.00	0.00	
Estrato Socioeconomico=2				0.15	0.16	
Estrato Socioeconomico=3				0.14	0.22	
Estrato Socioeconomico=4				0.22	0.40	
Estrato Socioeconomico=5				0.68**	0.92**	
Estrato Socioeconomico=6				0.48	0.62	
Siente que su barrio es seguro					0.00	
constant	8.55***	7.90***	7.87***	8.14***	7.92***	8.17***
N	1214	1157	1141	1150	1153	1130

+ 0.10 \* 0.05 \*\* 0.01 \*\*\* 0.001; robust  
std err

**Table 18:** OLS regressions of satisfaccionvida.

## 2 Barrio FE

There are over 100 barrios, and full model fixed effect results with barrio dummies yield even stronger result below than

reported in paper on miobarrio of -.5. This is a remarkably strong result.

```
reg satisfaccionvida miobarrio barriocrimen barriobaldio barriopolicia barrioseguro
> seguro 'sd' i.comuna i.estrato i.bN, robust
```

Linear regression						
	Number of obs = 1,183					
	F(225, 882) = .					
	Prob > F = .					
	R-squared = 0.2746					
	Root MSE = 1.6995					
<hr/>						
satisfaccionvida	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
miobarrio	-.5072881	.2253141	-2.25	0.025	-.9495024	-.0650738
barriocrimen	-.1519741	.1501277	-1.01	0.312	-.4466234	.1426752
barriobaldio	.0585559	.1255517	0.47	0.641	-.187859	.3049707
barriopolicia	-.0294585	.1300722	-0.23	0.821	-.2847456	.2258286
barrioseguro	-.0895904	.1632027	-0.55	0.583	-.4099014	.2307206
seguro	.3216604	.1299407	2.48	0.013	.0666314	.5766894
edad	-.0166817	.0207693	-0.80	0.422	-.0574448	.0240813
edad2	.0001828	.0002239	0.82	0.414	-.0002566	.0006223
mujer	.2189973	.131804	1.66	0.097	-.0396887	.4776833
<hr/>						
promedioingresos						
lt 1 SMMLV	.1242456	.2218443	0.56	0.576	-.3111587	.55965
1-2 SMMLV	.3290293	.1902141	1.73	0.084	-.0442958	.7023543
2-4 SMMLV	.508169	.2738477	1.86	0.064	-.0293823	1.045586
4-8 SMMLV	.6368799	.3432415	1.86	0.064	-.0367855	1.310545
gt 8 SMMLV	.4901427	.5978279	0.82	0.413	-.6831886	1.663474
<hr/>						
etnia						
half blood	.0141653	.1691406	0.08	0.933	-.3177997	.3461304
indigenous	.0026693	.3134945	0.01	0.993	-.612613	.6179516
black	-.0059857	.1909395	-0.03	0.975	-.3807345	.3687631
other	-.3565242	.7344251	-0.49	0.627	-1.797949	1.084901
none	.5589964	.3436762	1.63	0.104	-.1155223	1.233515
<hr/>						
estadocivil						
free union	.0208792	.1740441	0.12	0.905	-.3207097	.3624681
separated/widowed	-.724732	.3054828	-2.37	0.018	-1.32429	-.125174
single	-.3283445	.1756243	-1.87	0.062	-.6730348	.0163458
widow	.0828537	.523952	0.16	0.874	-.9454845	1.111192
<hr/>						
niveleducativo						
secondary	-.0190604	.2323921	-0.08	0.935	-.4751666	.4370457
technical	-.1194617	.2557845	-0.47	0.641	-.6214791	.3825557
professional	-.2382677	.2657324	-0.90	0.370	-.7598093	.2832738
postgraduate	-.2653087	.3776093	-0.70	0.482	-.1006426	.4758089
none	.0474597	.4841196	0.10	0.922	-.9027012	.9976207
<hr/>						
satisfaccionesalud	.2682442	.0640453	4.19	0.000	.1425453	.3939432
<hr/>						
comuna						
2	.1518402	.4489129	0.34	0.735	-.7292219	1.032902
3	1.068803	1.07674	0.99	0.321	-1.04447	3.182075
4	.6794159	1.317552	0.52	0.606	-.1906487	3.265319
5	.7580502	.6461122	1.17	0.241	-.5100466	2.026147
6	-.3336977	1.501564	-0.22	0.824	-3.280753	2.613358
7	.2169394	.6676593	0.32	0.745	-1.093447	1.527326
8	-.1037208	.8066094	-0.13	0.898	-1.686819	1.479377
9	.4317839	1.018434	0.42	0.672	-1.567054	2.430621
10	.7664807	.6835928	1.12	0.262	-.5751777	2.108139
11	1.868524	.7491733	2.49	0.013	.3981533	3.338894
12	-1.196121	1.755873	-0.68	0.496	-4.642298	2.250056
13	.3773884	.6118452	0.62	0.538	-.823454	1.578231
14	1.027012	.6624907	1.55	0.121	-.2731521	2.327175
15	.7053964	.8758623	0.81	0.421	-1.013621	2.424414
16	.7234355	.7349872	0.98	0.325	-.7190926	2.165964
17	-.2384543	.6730162	-0.35	0.723	-1.559354	1.082446
18	.1716081	.6222014	0.28	0.783	-1.04956	1.392776
19	-.1012861	1.117931	-0.09	0.928	-2.295402	2.09283
20	-.2823581	.9699782	-0.29	0.771	-2.186093	1.621377
21	.3176695	1.073926	0.30	0.767	-1.790079	2.425418
22	.0688162	.8423461	0.08	0.935	-1.58442	1.722053
23	.2103123	.6071843	0.35	0.729	-.9813823	1.402007
<hr/>						
estrato						
2	.1880044	.2116971	0.89	0.375	-.2274843	.6034932
3	.2796257	.2529051	1.11	0.269	-.2167403	.7759917
4	.2676222	.3760617	0.71	0.477	-.4704581	1.005702
5	.4344328	.4468779	0.97	0.331	-.4426353	1.311501

	bN						
Aguablanca	1.156706	1.421685	0.81	0.416	-1.633573	3.946986	
Aguacatal	3.645608	1.222987	2.98	0.003	1.245303	6.045913	
Alameda	1.20305	1.658354	0.73	0.468	-2.051731	4.457831	
Alameda	1.290637	1.581835	0.82	0.415	-1.813962	4.395237	
Alferez Real	3.286216	1.290668	2.55	0.011	.7530769	5.819355	
Alfonso Barberena	3.212959	2.140219	1.50	0.134	-.9875579	7.413476	
Alfonso Bonilla A..	1.241997	1.269321	0.98	0.328	-1.249246	3.73324	
Alfonso Lopez	1.824868	1.416728	1.29	0.198	-.9556846	4.60542	
Alfonso Lopez III	1.840845	1.440246	1.28	0.202	-.9858639	4.667553	
Alirio Mora Beltran	1.185978	1.382251	0.86	0.391	-1.526906	3.898862	
Alto Napoles	2.900814	1.35977	2.13	0.033	.2320513	5.569577	
Alto napoles	4.037963	1.188818	3.40	0.001	1.70472	6.371205	
Altos de Menga	3.766102	1.185206	3.18	0.002	1.439948	6.092256	
Antonio Narino	2.062128	1.221149	1.69	0.092	-.3345697	4.458826	
Aranjuez	2.821982	1.496844	1.89	0.060	-.11581	5.759775	
Asturias	5.001166	2.08545	2.40	0.017	.9081419	9.09419	
Asturias	4.065541	2.075797	1.96	0.050	-.0085361	8.139618	
Atanasio Girardot	3.665557	1.238427	2.96	0.003	1.23495	6.096164	
Barrio Departamen..	.1263869	1.283504	0.10	0.922	-2.392691	2.645465	
Barrio Obrero	2.838832	1.635444	1.74	0.083	-.3709837	6.048647	
Barrio Olaya Herr..	1.960156	1.732552	1.13	0.258	-1.440248	5.360561	
Barrio San Carlos	.8214495	1.297271	0.63	0.527	-1.724649	3.367548	
Belalcazar	2.977993	1.521598	1.96	0.051	-.0083817	5.964369	
Belalcazar	3.203345	1.487722	2.15	0.032	.2834561	6.123234	
Belen	1.771703	1.834345	0.97	0.334	-1.828487	5.371893	
Belisario Caicedo	.7175181	1.9779	0.36	0.717	-3.164422	4.599458	
Bellavista	1.415951	1.831348	0.77	0.440	-2.178358	5.010259	
Bolivariano	2.795368	1.720693	1.62	0.105	-.5817626	6.172498	
Bolivariano	2.670308	1.723087	1.55	0.122	-.7115211	6.052136	
Bretana	2.551446	1.448373	1.76	0.078	-.291214	5.394106	
Brisas de Mayo	3.864649	1.512372	2.56	0.011	.8963801	6.832918	
Brisas de los Ala..	1.418329	1.221028	1.16	0.246	-.978131	3.814789	
Brisas del Limonar	-.0432686	1.194822	-0.04	0.971	-2.388295	2.301757	
Buenos Aires	2.973798	1.439256	2.07	0.039	.149032	5.798563	
Caldas	3.147474	1.301021	2.42	0.016	.5940166	5.700932	
Calima	2.329352	1.74164	1.34	0.181	-.108889	5.747594	
Calimio Desepaz	2.00726	1.616109	1.24	0.215	-1.164607	5.179128	
Calypso	1.753587	1.537754	1.14	0.254	-1.264528	4.771642	
Calypso	.6658251	1.360803	0.49	0.625	-2.004964	3.336615	
Camino Real - Joa..	2.957078	1.587776	1.86	0.063	-.159182	6.073337	
Canaverales - Los..	.0048788	1.706923	0.00	0.998	-3.345227	3.354984	
Caney	3.119151	1.226087	2.54	0.011	.7127626	5.525539	
Capri	3.724545	1.230473	3.03	0.003	1.309549	6.139542	
Caaaverales - Lo..	2.67491	1.267048	2.11	0.035	.1881297	5.161691	
Centenario	2.836717	1.313407	2.16	0.031	.25895	5.414484	
Champagnat	1.248403	1.589896	0.79	0.433	-1.872017	4.368823	
Champagnat	1.123472	1.509632	0.74	0.457	-1.839419	4.086363	
Chapinero	3.231522	1.298147	2.49	0.013	.6837037	5.779341	
Charco Azul	1.796023	1.20069	1.50	0.135	-.5605212	4.152566	
Chiminangos I	2.001687	1.246754	1.61	0.109	-.4452633	4.448638	
Chiminangos II	2.918657	1.227336	2.38	0.018	.5098179	5.327497	
Chipichape	1.779192	1.256325	1.42	0.157	-.6866167	4.244856	
Ciudad 2000	2.582137	1.185869	2.18	0.030	.2546826	4.90959	
Ciudad Cordoba	1.122022	1.115186	1.01	0.315	-1.066706	3.31075	
Ciudad Talanga	2.794068	1.488034	1.88	0.061	-.1264328	5.714568	
Ciudad los Alamos	3.45642	1.207001	2.86	0.004	1.08749	5.82535	
Ciudadela Floralia	3.090866	1.884116	1.64	0.101	-.6070066	6.78874	
Ciudadela del Rio..	3.611188	1.519764	2.38	0.018	.6284123	6.593964	
Ciudadela del Rio..	3.251027	1.491336	2.18	0.030	.3240469	6.178008	
Ciudadela del cam..	2.988229	1.29379	2.31	0.021	.4489632	5.527494	
Colseguros Andes	1.506787	1.465573	1.03	0.304	-1.36963	4.383204	
Colseguros Andes	2.5355303	1.358322	1.87	0.062	-.1306179	5.201224	
Compartir	.8350427	1.742788	0.48	0.632	-2.585453	4.285538	
Compartir	3.018683	1.620935	1.86	0.063	-.1626562	6.200022	
Cristobal Colon	1.441686	1.330652	1.08	0.279	-1.169928	4.053299	
Cuarto de Legua -..	3.661137	1.524967	2.40	0.017	.6681481	6.654125	
Danubio	0.492635	1.225314	0.04	0.968	-2.355608	2.454135	
Doce de Octubre	-.1114841	1.042488	-0.05	0.956	-4.120188	3.89722	
El Bosque	2.502084	1.475803	1.70	0.090	-.3944115	5.39858	
El Diamante	1.626593	1.306931	1.24	0.214	-.9384646	4.191651	
El Diamante	1.202162	1.220536	0.98	0.325	-1.193332	3.597655	
El Dorado	.9881729	2.382279	0.41	0.678	-3.687424	5.663769	
El Guabalo	2.616142	1.256807	2.08	0.038	.1494601	5.082824	
El Ingenio	2.779886	1.246388	2.23	0.026	.3336528	5.226118	
El Jardin	-.8407979	1.03578	-0.81	0.417	-2.873678	1.192082	
El Jordan	2.772492	1.173235	2.36	0.018	.4698345	5.075149	
El Lido	2.949367	1.780395	1.66	0.098	-.5449391	6.443673	
El Limonar	2.389661	1.238932	1.93	0.054	-.0419375	4.821259	
El Morichal	1.87631	1.099501	1.71	0.088	-.2816329	4.034253	
El Nacional	2.571744	1.563275	1.65	0.100	-.496429	5.639917	
El Paraiso	5.168042	2.131554	2.42	0.016	.9845325	9.351551	
El Piloto	2.654609	1.544768	1.72	0.086	-.3772414	5.68646	
El Poblado	2.262677	1.241015	1.82	0.069	-.1730095	4.698364	
El Poblado II	2.236742	1.557348	1.44	0.151	-.8197976	5.293282	
El Recuerdo	1.245627	.9484852	1.31	0.189	-.6159244	3.107178	
El Recuerdo	.8996141	1.416799	0.63	0.526	-.1881077	3.680305	
El Refugio	2.886663	1.549017	1.86	0.063	-.1535269	5.926853	
El Remanso	1.882306	1.639491	1.15	0.251	-.1335452	5.100065	
El Rodeo	3.792184	1.859256	2.04	0.042	.1431014	7.441266	
El Sena	-1.065233	1.246747	-0.85	0.393	-.3.512171	1.381705	
El Trebol	.9652318	1.307048	0.74	0.460	-.1.600055	3.530518	
El Trebol	2.624512	1.30081	2.02	0.044	.0714674	5.177556	
El Troncal	3.287029	1.336122	2.46	0.014	.6646806	5.909378	

El Vergel	1.785286	1.576541	1.13	0.258	-1.308924	4.879496
Flora Industrial	2.17327	1.568862	1.39	0.166	-.9058684	5.252408
Granada	2.261066	1.200845	1.88	0.060	-.0957807	4.617912
Guayaquil	.0930923	1.925045	0.05	0.961	-3.685112	3.871297
Guayaquil	.7785036	1.577915	0.49	0.622	-2.318404	3.875411
Industrial	-1.625145	1.309444	-1.24	0.215	-4.195135	.9448445
Jorge Eliocer Gai..	3.226904	2.129487	1.52	0.130	-.9525479	7.406357
Jorge Isaacs	3.258968	1.771027	1.84	0.066	-.2169507	6.734887
Jose Manuel Marro..	1.528169	1.649732	0.93	0.355	-1.70969	4.766028
Jose Manuel Marro..	1.856212	1.209874	1.53	0.125	-.5183565	4.23078
Jose Maria Cordoba	-1.072532	.9377467	-1.14	0.253	-2.913008	.767943
Juanambu	2.546194	1.279576	1.99	0.047	.0348244	5.057563
Junin	2.824113	1.499602	1.88	0.060	-.1190909	5.767318
La Alianza	2.506101	1.721003	1.46	0.146	-.8716376	5.883839
La Base	2.55072	1.289645	1.98	0.048	.0195899	5.081851
La Cascada	2.017356	1.819018	1.11	0.268	-1.552753	5.587466
La Esmeralda	2.710015	1.755198	1.54	0.123	-.7348377	6.154868
La Flora	2.394539	1.253389	1.91	0.056	-.0654334	4.854512
La Floresta	3.660148	1.359959	2.69	0.007	.991014	6.329281
La Fortaleza	1.779572	.9300553	1.91	0.056	-.0458073	3.604952
La Gran Colombia	1.473011	.9477982	1.55	0.121	-.3871921	3.333214
La Hacienda	3.13605	1.269811	2.47	0.014	.6438457	5.628254
La Independencia	.4758033	.9277494	0.51	0.608	-1.345051	2.296657
La Isla	-.0537228	1.81788	-0.03	0.976	-3.621598	3.514153
La Libertad	2.666708	1.296304	2.06	0.040	.1225071	5.210909
La Merced	2.361237	1.38476	1.71	0.089	-.3565714	5.079045
La Playa	3.876914	1.241155	3.12	0.002	1.440952	6.312876
La Rivera	3.655316	1.530713	2.39	0.017	.6510511	6.659582
La Selva	2.932812	1.221979	2.40	0.017	.5344864	5.331138
Las Acacias	2.811735	1.231407	2.28	0.023	.3949044	5.228565
Las Americas	1.254095	1.370522	0.92	0.360	-.1435769	3.943959
Las Delicias	3.305646	1.711367	1.93	0.054	-.0531803	6.664472
Las Granjas	.5419442	1.259586	0.43	0.667	-1.930192	3.014081
Las Orquideas	1.866602	1.389695	1.34	0.180	-.8608933	4.594098
Las Palmas	-3.180598	1.205755	-2.64	0.008	-5.547083	-.814114
Las Quintas de Do..	3.25646	1.262211	2.58	0.010	.7791711	5.733748
Las acacias	3.002086	1.277131	2.35	0.019	.4955161	5.508656
Leon XIII	1.205244	1.044576	1.15	0.249	-.8449015	3.255389
Lili	2.405439	1.299639	1.85	0.065	-.1453063	4.986185
Lleras Camargo	2.986225	1.500758	1.99	0.047	.0407516	5.931698
Lleras Restrepo	4.1047	1.228263	3.34	0.001	1.694041	6.51536
Los Alcazares	2.598843	2.04054	1.27	0.203	-1.406039	6.603725
Los Andes	1.572709	1.257877	1.25	0.212	-.8960727	4.041491
Los Andes B - La ..	2.910413	1.279172	2.28	0.023	.3998372	5.420988
Los Chorros	2.426262	1.234946	1.96	0.050	.0024873	4.850037
Los Comuneros I E..	1.24742	1.495236	0.83	0.404	-.1687215	4.182055
Los Comuneros II ..	1.65661	1.852706	0.89	0.371	-.1979618	5.292837
Los Conquistadores	2.126328	.9758369	2.18	0.030	.2110945	4.041561
Los Guaduales	4.731016	1.881613	2.51	0.012	1.038054	8.423978
Los Guayacanes	2.253606	1.539645	1.46	0.144	-.7681887	5.2754
Los Lagos	1.076255	1.261588	0.85	0.394	-.1399811	3.55232
Los Naranjos I	1.52615	1.378488	1.11	0.269	-.1.179349	4.231649
Los Parques Barra..	-.5263851	3.103302	-0.17	0.865	-6.617069	5.564367
Los Pinos	1.96004	1.248242	1.57	0.117	-.4898313	4.409912
Los Portales- Nue..	2.843258	1.263974	2.25	0.025	.3625108	5.324006
Los Robles	3.463648	1.217644	2.84	0.005	1.07383	5.853465
Los Sauces	.25335694	1.11524	0.23	0.820	-.1.935265	2.442403
Lourdes	.1390621	1.309668	0.11	0.915	-2.431367	2.709491
Lourdes	.8860303	1.188481	0.75	0.456	-1.446552	3.218612
Manuela Beltran	.989565	1.402471	0.71	0.481	-.1.763006	3.742136
Manzanares	3.487323	1.710788	2.04	0.042	.1296333	6.845012
Mariano Ramos	1.867789	1.231161	1.52	0.130	-.5485577	4.284135
Melendez	2.577195	1.249452	2.06	0.039	.124949	5.02944
Menga	2.969723	1.605093	1.85	0.065	-.1805244	6.11997
Metropolitano del..	.5996801	1.226134	0.49	0.625	-.1.806801	3.006161
Miraflores	3.237104	1.497503	2.16	0.031	.2980191	6.17619
Mojica	3.519002	1.175762	2.99	0.003	1.211384	5.82662
Municipal	2.717554	1.614897	1.68	0.093	-.4519347	5.887043
Napoles	2.582285	1.194738	2.16	0.031	.2374238	4.927145
Normandia	3.571525	1.203846	2.97	0.003	1.208787	5.934262
Normandia	1.82798	1.800937	1.02	0.310	-.1.706642	5.362601
Nueva Floresta	3.051773	1.272637	1.40	0.160	-.1.212368	7.315914
Nueva Tequendama	4.225159	1.553999	2.72	0.007	1.175191	7.275126
Olimpico	2.228995	1.474887	1.51	0.132	-.6734958	5.131485
Omar Torrijos	3.253673	1.238958	2.63	0.009	.8220235	5.685323
Pampa Linda	2.851706	1.763446	1.62	0.106	-.6093336	6.312746
Panamericano	.4549466	1.380395	0.33	0.742	-2.254295	3.164188
Parcelaciones Pan..	3.308947	1.382653	2.39	0.017	.5952735	6.022621
Petecuy Primera E..	3.335494	1.921599	1.74	0.083	-.4359466	7.106934
Petecuy Segunda E..	4.269619	1.928894	2.21	0.027	.4838613	8.055376
Pizamos I	2.226233	1.697062	1.31	0.190	-.1.104517	5.556983
Polvorines	4.111126	1.189969	3.45	0.001	1.775624	6.446627
Popular	2.090203	1.781038	1.17	0.241	-.1.405365	5.585771
Porvenir	1.847538	1.793305	1.03	0.303	-.1.672105	5.367181
Potrero Grande	3.892977	1.53491	2.54	0.011	.8804734	6.90548
Prados del Norte	4.37991	1.217747	3.60	0.000	1.989889	6.769931
Prados del Oriente	-1.032549	1.005664	-1.03	0.305	-.3.006322	.9412249
Prados del Sur	3.126732	1.639149	1.91	0.057	-.0903567	6.34382
Primavera	2.650782	.9545493	2.78	0.006	.7773287	4.524235
Primeros de Mayo	3.413272	1.273556	2.68	0.007	.9137181	5.912827
Primitivo Crespo	4.460541	1.305175	3.42	0.001	1.89893	7.022152
Puerta del Sol	1.264469	1.367999	0.92	0.356	-.1.420443	3.949382
Puerto Mallarino	.2716032	3.2761	0.08	0.934	-.6.158258	6.701465
Rafael Uribe Uribe	-.671497	1.386972	-0.48	0.628	-.3.393648	2.050653

Republica de Israel	2.647589	1.206254	2.19	0.028	.2801268	5.015052
Ricardo Balcazar	1.999172	1.706777	1.17	0.242	-1.350646	5.348989
Rodrigo Lara Boni..	1.834738	1.23098	1.49	0.136	-.5812527	4.250729
Saavedra Galindo	1.844109	1.99329	0.93	0.355	-2.068036	5.756254
Salomia	1.478212	1.879356	0.79	0.432	-2.210319	5.166744
San Antonio	.5655684	1.717953	0.33	0.742	-2.806185	3.937322
San Fernando Nuevo	2.831822	1.590323	1.78	0.075	-.2894365	5.953081
San Fernando Viejo	2.002691	1.641898	1.22	0.223	-1.219792	5.225173
San Juan Bosco	2.001204	1.547977	1.29	0.196	-1.036946	5.039353
San Judas Tadeo II	1.657002	1.370577	1.21	0.227	-1.032971	4.346976
San Luis	2.439278	1.965633	1.24	0.215	-1.418585	6.297141
San Luis II	1.424104	1.878293	0.76	0.449	-2.262342	5.110549
San Marino	.55783	1.622102	0.34	0.731	-2.625801	3.741461
San Nicolas	2.134895	1.76486	1.21	0.227	-1.32892	5.598711
San Pascual	1.228405	1.567609	0.78	0.433	-1.848274	4.305085
San Pedro	.602908	1.543871	0.39	0.696	-2.427182	3.632998
San Pedro Claver	1.893041	0.9629186	1.97	0.050	.003162	3.782921
Santa Anita - La ..	3.151975	1.594482	1.98	0.048	.0225539	6.281396
Santa Elena	1.646522	1.319249	1.25	0.212	-.9427116	4.235756
Santa Fe	2.138687	1.523378	1.40	0.161	-.8511808	5.128556
Santa Isabel	3.420122	1.508263	2.27	0.024	.4599184	6.380325
Santa Monica	1.647834	1.337177	1.23	0.218	-.976586	4.272253
Santa Monica	2.786383	1.199098	2.32	0.020	.432965	5.139801
Santa Monica Popu..	2.321554	1.456377	1.59	0.111	-.5368156	5.179923
Santa Teresita	2.497275	1.258039	1.99	0.047	.0281761	4.966374
Santander	3.475285	1.748338	1.99	0.047	.0438968	6.906673
Santo Domingo	1.30484	1.312938	0.99	0.321	-1.272007	3.881688
Sector Alto Jordan	3.186229	1.199405	2.66	0.008	.8322083	5.54025
Sector Altos de N..	2.028682	1.690211	1.20	0.230	-1.288623	5.345987
Sector Caaaver..	2.294841	1.827071	1.26	0.209	-1.291073	5.880754
Seminario	3.967621	1.640332	2.42	0.016	.7482126	7.18703
Siete de Agosto	2.912815	1.332919	2.19	0.029	.2967517	5.528879
Siloe	3.297386	1.392215	2.37	0.018	.5649463	6.029827
Simon Bolivar	-.4048308	1.33162	-0.30	0.761	-3.018345	2.208684
Sindical	4.350742	2.146896	2.03	0.043	.1371215	8.564363
Sucre	.7664454	1.46532	0.52	0.601	-2.109475	3.642366
Terron Colorado	2.540876	1.196904	2.12	0.034	.1917633	4.889989
Torres de Comfandi	1.536761	1.420869	1.08	0.280	-1.251917	4.32544
Ulptiano Lloreda	2.259722	1.627587	1.39	0.165	-.9346735	5.484117
Unicentro Cali	3.202869	1.23663	2.59	0.010	.7757883	5.62995
Unidad Residencia..	2.060346	1.998203	1.03	0.303	-1.861443	5.982134
Union de Vivienda..	1.84386	1.217063	1.52	0.130	-.5448179	4.232537
Urbanizacion Cali..	4.325102	1.902646	2.27	0.023	.5908601	8.059343
Urbanizacion Ciud..	2.517942	1.414256	1.78	0.075	-.2577584	5.293642
Urbanizacion Nuev..	2.77824	1.513995	1.84	0.066	-.183213	5.759693
Urbanizacion San ..	2.186058	1.586132	1.38	0.168	-.9269754	5.299091
Urbanizacion Tequ..	3.54428	1.613202	2.20	0.028	.3781177	6.710443
Urbanizacion la N..	2.511331	1.323382	1.90	0.058	-.0860155	5.108677
Vallado	1.42071	1.577083	0.90	0.368	-.1.674563	4.515982
Valle Grande	2.311742	1.627515	1.42	0.156	-.8825132	5.505996
Villa Colombia	2.163057	1.381147	1.57	0.118	-.5476621	4.873776
Villa del Lago	1.55257	1.371056	1.13	0.258	-.1.138343	4.243482
Villa del Prado -..	1.273603	1.418861	0.90	0.370	-.1.511136	4.058341
Villa del Sur	.6950872	1.625227	0.43	0.669	-.2.494677	3.884851
Villanueva	3.720309	1.766866	2.11	0.036	.2525561	7.188061
Vipasa	4.376877	2.088689	2.10	0.036	.2774973	8.476257
Vista Hermosa	3.298277	1.58393	2.08	0.038	.1895644	6.406989
_cons	5.663778	1.279888	4.43	0.000	3.151797	8.175759