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Domestic servants and diffusion of fertility control in Flanders, 1830–1930

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This article uses a mixed method approach to analyse whether urban domestic service functioned as a diffusion channel in the fertility decline. The central hypothesis is that nineteenth century female, rural-born domestic servants were influenced by the reproductive habits of their middle and upper-class employers, who were vanguards in the adoption of family size limitation within marriage. This happened via a process of *social learning*, a mechanism of social influence in heterogeneous social networks. Female domestic servants are an excellent research population to study reproductive ideas and behaviour because they were large in number and had a particular social position in between the working and upper classes and in between rural and urban environments. This paper is unique in its use of qualitative information to analyse social fertility diffusion and in the incorporation of geographical mobility in the statistical part.

Keywords: fertility decline; social diffusion; female work; migration; nineteenth and early twentieth century

This article investigates social learning by servants from three different angles: domestic service as an *information source* on contraception, the position of former employers as a *reference group* for reproductive decision making and the *behavioural outcomes* of servant experience. Using a broad range of narrative data, I argue that the service provided young women with knowledge about contraceptive practices. Yet, testimonial evidence shows that servants themselves did not denote their former employers as a reference group for their own reproductive behaviour. The statistical analysis is used to determine the actual outcomes of the urban servant experience on later life fertility. The models suggest that living in an urban area during childbearing was more important than having been a servant. Finally, some attention is paid to the type of birth control that servants used, indicating a combination of spacing and stopping.

1. Literature

From a recent overview of fertility research using individual data, it became clear that concerning reproductive behaviour there was:

a broad divide between the on the one hand white collar, bourgeois classes adopting stopping behaviour relatively soon, and on the other hand the rest of the population who followed suit sooner or later (Van Bavel, 2010, p. 447).

All over Europe, there were clear signs of family size limitation within marriage among the elites from the early eighteenth century onwards (Livi-Bacci, 1986). In the rest of the

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population, the decline of fertility did not occur before the end of the nineteenth century in
 most countries.

52 Evidence on how ideas and practices concerning family size limitation spread between the social classes during the fertility transition (social diffusion) has been collected during 53 the last two decades but is still rather sparse (Van Bavel, 2010). These empirical studies 54 55 are based on theories of social diffusion, which state that behavioural change can occur as 56 a mere result of interaction between individuals or groups of people (Casterline, 2001). 57 The ideas and behaviours of people with whom an individual interacts (his or her social 58 *network*) influence his or her own life choices, even though these people 'do not officially have a say in the reproductive process' (Bernardi, 2003, p. 529). One hypothesis, 59 60 concerning the diffusion of fertility, states that in heterogeneous local societies, a process of embourgeoisement occurred (Oris, 1993). This involves that the fertility decline started 61 62 among a pioneering group and gradually spread through the population in later stages. 63 Particular social groups, often referred to as *cultural intermediaries*, could function as channels of diffusion in this process, facilitating the spread of new habits through the rest 64 of the population. For nineteenth century Vottem for example, a Belgian French speaking 65 village, a combination of quantitative and qualitative material convincingly showed that 66 armourers identified themselves with the petty bourgeoisie rather than with the working 67 classes, increasingly invested in schooling for their children and reduced the size of their 68 families before others did (Leboutte, 1991). 69

Next to social differentiation in the adoption of fertility control, geographical variation
 existed as well. In Flanders, fertility levels dropped markedly earlier in large cities than in
 the surrounding countryside (Lesthaeghe, 1977). The diffusion of fertility between
 localities has not been empirically investigated. The study of servants' fertility is most
 valuable to study social as well as geographical diffusion since servants had a position on
 the crossroad between various social classes and between town and countryside

76 Domestic servants have been investigated as cultural intermediaries (Roche, 1978). 77 During the nineteenth century domestic service was most frequent in large cities and was a 78 predominantly female occupation (Fauve-Chamoux & Fiavola, 1997; Sarti, 2006). Most 79 servants were rural born working-class women, who were unmarried, between 15 and 25 years old and lived in the house of their middle or upper class employers. Because of this 80 proximity, chances for being influenced by the employers' lifestyle were obvious and have 81 been documented regarding clothing and bank savings (Roche, 1978). Of course servants 82 83 also had a potential influence on the employers, and mainly on their children. In this article however, I focus merely on top-down diffusion. 84

As early as 1974, gender historians suggested that there was an influence on the level 85 86 of reproductive habits as well (Davidoff, 1974; McBride, 1974). In 1981, Joseph Banks argued that male servants were the first working-class people to realise the social benefits 87 88 of small families (Banks, 1981). Yet, researchers like Banks and McBride only had access to aggregate or cross-sectional data, which are inadequate to study the diffusion of fertility 89 practices (Vanhaute & Matthys, 2007). To effectively analyse behaviour, individual-level 90 data are required. Furthermore, to study marital fertility, these data need to be longitudinal, 91 given the fact that domestic service was strongly linked to the stage in life before marriage. 92 Only a limited number of studies that refer to servants have thus far used empirical 93 94 evidence of this kind; Diana Gittins used retrospective interviews with English working 95 class women (1930–1939) in a qualitative study (Gittins, 1982), while Janssens (2007) and Van Bavel (2002) based their quantitative studies on life course data. 96

97 Gittins concluded that former servants were more ignorant about and more reluctant 98 towards fertility control than factory workers. The shared working experiences and

frequent interaction of men and women in factories lead towards shared and modern norms 99 and beliefs towards family size limitation. Women working in isolated occupations, such 100 as domestic service, lacked such common work floor cultures. As a result, they were less 101 informed and less exposed to a collective belief and norm system on reproduction. The 102 absence of a clear conceptual framework in the work of Gittins hampers the interpretation and evaluation of the outcomes. Additionally, she fails to recognize that people adjust their 104 responses to the social acceptability of their time. In this article I use a central concept in 105 theories of social interaction, namely social learning, to improve our understanding of how 106 107 exchanges of information and norms occurred between masters and servants. The statistical studies by Janssens and Van Bavel also suggest that Gittins' findings should not 108 be generalised to different contexts and time periods. After all, both in the nineteenth-109 century city of Enschede (the Netherlands) and Leuven (Belgium) former female servants 110 had lower marital fertility than women who had not been servants. In these two studies, the 111 fertility of working class couples was analysed within one selected town and domestic 112 113 service was treated as an occupational category. Yet, servants should also be considered as a very particular group of migrants (Piette, 2000). Migrants have received little attention in 114 115 fertility studies (Creighton, Matthys, & Quaranta, 2012). The few studies that did account for migrants' fertility took the point of view of the receiving context, investigating how 116 immigrants adapted to the fertility regime in their destination. These analyses showed that 117 people moving from a more traditional region to an area where family size limitation was 118 common, tended to become accustomed to the new regime, while migrants from a modern 119 to a traditional region maintained their contraceptive habits. My own research starts from 120 the opposite perspective, taking the places of origin as a starting point and examining the 121 122 effects of rural-urban migrant trajectories. Contrary to analysing the contribution of 123 servants to urban fertility, I examine if and how servant migration made a difference in the reproductive lives of women. As such, servants are an extremely interesting research 124 population concerning the social and geographical spread of the fertility decline: not only 125 were they intermediaries between working- and upper-class cultures, but also between 126 rural and urban ways of life. 127

2. Data and methods

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2.1 The case of Flanders

The effect of service on marital fertility is studied here for Flanders. In this region, marital 132 133 fertility did not fall decisively before 1900 (Lesthaeghe, 1977). Yet, particular upper class groups stood out. Between 1680 and 1830 age-specific marital fertility rates of the nobility 134 and the urban industrial bourgeoisie were considerably lower than those of the rest of the 135 population (Vandenbroeke, 1976). This gap persisted until the end of the nineteenth century 136 (Van Bavel, 2002). In the decades before Flemish working class fertility dropped (1850-137 138 1900), the number of rural girls who left their home to become an urban servant gradually 139 increased. In 1890, female domestic servants in Belgium accounted for almost 14% of the female active population (Piette, 2000, p. 53). A substantial part of the servants moved back 140 and forth between the city and their hometown and it is likely that servants also helped to 141 diffuse ideas and behaviour across regions. It is not my intention to investigate the potential 142 143 link between the two phenomena on the macro-level. Rather I am interested in how 144 domestic service affected individual attitudes. To analyse the effect of domestic service on subsequent marital fertility, a twofold approach is used. In a first part of the analysis I use 145 testimonial and other qualitative evidence to document how service functioned as an 146 147 information channel on reproductive issues and whether former employers were designated

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as reference groups in fertility decision making. A second quantitative part reveals whether the fertility outcomes of women who had been urban servants differed from others.

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2.2 Qualitative sources and analysis

153 Oualitative evidence has been largely overlooked in fertility research. Yet, in historical statistical studies, motivations are usually derived from behavioral outcomes, impeding a 154 profound understanding of the underlying changing attitudes. The few exceptional studies 155 156 that did consider narrative sources raised attention for previously ignored issues such as marital affection, sexuality and desired family size (Fisher, 2000). Rather than just counting 157 births, qualitative studies focus on the conscious and unconscious processes involved in 158 fertility decision making. I use a wide variety of sources offering different perspectives on 159 160 reproduction in Flanders (Matthys, 2012). The Annals and Bulletins of the Ghent Medical Society (1835–1918) provide unique data on the reproductive health of all social classes 161 162 from the viewpoint of local medical doctors. Testimonial evidence from lawsuits concerning infanticide and illegal practice of midwifery (nineteenth century), give 163 information on childbirth customs (Gryson, 2009). Family archives of noble families 164 contain ego-documents that report about the everyday coexistence of masters and their 165 servants. Catholic publications on gendered rural-urban migration and Neo-Malthusianism 166 reflect the dominant discourses on these topics. Published interviews with testimonies of 167 women about reproductive matters and servant experience are available, covering the first 168 half of the twentieth century (De Keyzer, 1997, 2005; Steverlynck, 2000). 169

Since the use of qualitative material in historical fertility studies is to date still relatively 170 rare, I have opted for an exploratory approach. Most of the data are available from earlier 171 172 research on various topics. This tactic has its drawbacks. The collection of raw data did not happen in function of the research question addressed here. As a result, the material used 173 is very diverse. Yet, this offers the opportunity to grasp the issue from a multitude 174 of perspectives. Potential bias in one source can be detected by examining another. 175 For instance, medical writings and court records both report on practices surrounding 176 177 pregnancy and childbirth from very different angles. By combining them, a more accurate picture emerges. It should also be noted that all of the data from medical reports and part of 178 the data from family archives were collected by the author specifically for this study. 179 Another problem with qualitative data is that it is hard to find testimonial evidence from 180 working class women for the period before 1900. This causes some imbalance in the 181 dominant time frame of the qualitative and the quantitative part of this article. Yet, I intend 182 to demonstrate the possibilities of the use of narrative material for the study of reproduction, 183 thus laying a foundation for further research. All quotes in the text were originally in Dutch 184 (see Matthys, 2012). I have used my own translation here. 185

Qualitative analysis is used here to enhance our understanding of the mechanisms of 186 interpersonal interaction underlying fertility behaviour. In particular, I focus on social 187 learning. Mechanisms of social interaction are ways in which information and norms from 188 reference groups are processed by the individual. An individual's social network can 189 consist of multiple reference groups: the group 'that provides information and sets norms 190 with respect to reproductive behavior' can be distinct from social network members who 191 192 act as references for other types of behaviour (Montgomery & Casterline, 2010. p.459). 193 The mechanisms of interaction at play are also affected by the composition of the 194 reference group.

Social learning is the mechanism that has received most attention with regard to diffusion of fertility. It points to situations where information exchange in informal

interaction provides additional knowledge that contributes to the individual's decision 197 making process. Social learning typically occurs in heterogeneous groups. No verbal 198 communication is necessary; social learning can take place through observation-only 199 (Casterline, 2001). Observation-only mechanisms allow for the spread of innovative 200 information between people who differ in language, social status or cultural background. 201 An analysis of police records on disputes between masters and servants showed that 202 servants, especially when working as children's maids or chambermaids, had access to the 203 most intimate details of their employer's life (Schlegel, 1983). They were thus in a good 204 205 position to acquire knowledge through observation-only. The first half of the qualitative part focuses on the transmission of information during service. 206

The second half analyses to whom women referred as their reference groups with 207 regard to fertility norms. After all, it has long been accepted that the acquisition of 208 information alone is not sufficient to explain decreasing fertility. The social acceptability 209 of family size limitation is another important requirement (Coale, 1973). Prevailing group 210 norms are crucial to the acceptability of birth control. I analyse whether women referred to 211 their former employers as normative examples. Other members of the social network, such 212 213 as family members and social peers, may have acted as reference groups as well. In the latter case, other mechanisms of social influence were likely at play. Among these are 214 contagion and social pressure, which prevail in dense and homogeneous networks with 215 21[Q1] frequent contacts (Rossier & Bernardi, 2009). Contagion refers to the motivation to comply with the preferences in one's social environment, based on unconscious or 217 emotional grounds. In the case of social pressure, the individual rationally evaluates the 218 social sanctions and rewards to certain behaviour and behaves accordingly. Contagion and 219 220 social pressure can explain why structural changes did not immediately result in altering 221 behaviour but instead led to the preservation of existing norms.

2.3 Quantitative sources and analysis

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The quantitative part focuses on the Flemish city of Ghent and its rural environs. During 225 226 the nineteenth century Ghent was one of the largest and most industrialized cities in 227 Belgium. In this urban centre, marital fertility dropped decisively already around 1860, while in the surrounding rural areas this did not happen before 1900 (Lesthaeghe, 1977). 228 Within Flanders, Ghent was thus a clear forerunner in the fertility decline. It was also a 229 place where the struggle between social classes and between Catholic, liberal and socialist 230 231 ideologies was very strong during the second half of the nineteenth century (Van Praag, 1977). Some of the freethinking cells advocated Neo-Malthusianism. The most famous 232 example of this is socialist-feminist Emilie Claeys (1855-1943), who in 1894 published a 233 brochure with explicit contraceptive information. It is however unclear to what extent 234 these isolated initiatives had a broad effect on the - predominantly Catholic - working 235 class population. After all, Neo-Malthusianism was heavily condemned in the Catholic 236 237 discourse. Ghent was also a major attraction pole for rural immigrants in general and for servants coming from the countryside in particular. Around 1830 one fifth of the female 238 active population in Ghent were servants and one third of the households had at least one 239 domestic employee (Vermeulen, 1981). Most domestic staff were employed by noblemen, 240 241 proprietors, farmers, professors, high-ranking officials, liberal professions, wholesalers 242 and food businesses. During the second half of the nineteenth century servant immigration 243 even increased.

The research population consists of four birth cohorts of women (1830, 1846, 1860 and laso) selected in two rural local contexts, Assenede and Eine-Heurne-Mullem, both located

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about 25 kilometres from Ghent.¹ The choice for two separate birth contexts originates from 246 the assumption that the demographic regime in the place of origin affected people's fertility 247 in later life. After all, it has been indicated in local studies that the region of origin was often 248 reflected in the fertility behaviour of migrants (Eggerickx, 2001; Perrenoud, 1995). 249 Assenede and Eine-Heurne-Mullem were comparable in population size and road and rail 250 network, but differed in socio-economic organization and level of secularization. In 251 Assenede, situated partly in the polder area, large farms dominated the employment market, 252 which was mainly based on casual or contractual labour. Eine-Heurne-Mullem was located 253 254 in inner Flanders where self-supporting farms prevailed and agrarian labour was supplemented with home-based linen industries. Episcopal reports furthermore signalled 255 that Assenede was a parochia minima devota, while the people of Eine-Heurne-Mullem 256 were considered good Catholics (Art, 1979). On the demographic level, the traditional 257 Malthusian escapes, such as restricted marriage and outmigration, seemed to be less 258 259 vigorously present in Assenede than in Eine-Heurne-Mullem (Matthys, 2012).

The life courses of the individuals in the cohorts were reconstructed using longitudinal 260 data from population registers. Population registers are a unique source for historical 261 demographic studies in the sense that they combine frequent cross-sectional overviews of 262 all inhabitants of a municipality with interim updates on the individual level (Matthys, 263 2012). For example, changes in marital status, the births of children and migrations are 264 reported in the registers. As a result, it is possible to reconstruct the life courses of mobile 265 populations. In this case, I consulted population registers in the two rural birth places and 266 in Ghent. The core group consists of those individuals who migrated to Ghent as domestic 267 servants. Their behaviour was compared to that of those who were never servants or who 268 269 only held servant jobs in the countryside. Table 1 overviews the entire research population.

Rural servants during the nineteenth and early twentieth century have not received the 270 same amount of attention as their urban counterparts. Yet, there are several reasons to 271 272 include them in this study as a separate category. To begin with, rural servants shared with urban servants the fact that they left their parental home to live with their employer. They 273 274 thus became more independent from the family of origin than those girls who never 275 entered service. Secondly, rural and urban servants share some demographic peculiarities. 276 It has, for instance, been shown that both rural and urban servants had higher ages at first marriage than other locals (Devos, 1999; McBride, 1974). Furthermore, rural service was 277 sometimes a stepping stone towards urban servant employment (Bras, 2004). Only those 278 279 women who were most deprived (in terms of economic capital, literacy, etc.) usually did not make it to the city in the end. In this study as well, rural servants in general came from 280 the lowest social background, compared to urban and non-servants (Matthys, 2012). Yet, 281 28<mark>[Q2</mark>] the motivations to leave home may have the same than among women who finally became urban servants. The main differences between rural and urban servants is that the former 283 moved in general stayed closer to their birthplace and were less exposed to very different 28[Q3] 285 normative and behavioural patterns than the latter. Most rural servants worked with

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Table 1. Overview of research population.

	Assenede	Eine-Heurne-Mullem
Urban servants	212	184
Rural servants	114	49
Non-servants	384	418
Fotal	710	651

farmers, who usually belonged to the most conservative groups when it comes to 295 demographic behaviour. 296

Multivariate survival analysis was used to determine whether former urban servants 297 had lower marital fertility than others. The technique used here is event history analysis, 298 which is especially appropriate to deal with individual longitudinal data (Box-299 Steffensmeier & Bradford, 2004). For this study I used the Cox model. Unlike other 300 statistical techniques, event history models can account for life courses that are only 301 partially observed (censoring) and are fit to deal with time varying covariates, such as age 302 303 or occupation.

Qualitative analysis 3.

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This qualitative part offers a critical reading of narrative sources, examining two facets of 307 social learning. Firstly, I focus on servant employment as a channel for facilitated access to contraceptive information. Secondly, I investigate whether former servants viewed their 309 past employers as reference groups with regard to reproductive behaviour. Before that, it is 310 important to consider the position of (former) employers in the social networks of young 311 women. 312

3.1 The social networks of servants

As stated before, Gittins, using interviews with working class women, was convinced that servants were in an isolated position and thus had less opportunity to exchange reproductive information and ideas than factory workers (Gittins, 1982). However, she tends to accept women's claims about social isolation and sexual ignorance without further argumentative contextualization. Yet, her interviews considered the interwar period, a time during which prudishness reflected respectability. Therefore, as Kling stated:

The demonstration of sexual ignorance can therefore be said to include a claim for respectability (Kling, 2007, p. 183).

It is possible that former servants were keener to pretext sexual unawareness than former factory workers, which would mean they had been more penetrated by concerns about respectability than women who had worked in factories.

Fuchs and Moch, in contrast, argued that domestic servants were not isolated, but in 327 fact had access to more extended and varied reproductive networks than women who 328 worked at home or in manufactories (Fuchs & Moch, 1995). Reproductive networks 329 represent information networks influencing partner choice, knowledge of contraceptive 330 practices, abortion and childcare. Contrary to the personal networks of other working class 331 women, those of servants included people of higher social status, namely their employers. 332 From legal documents and other testimonial evidence, it showed that some servants relied 333 on their employers for advice or support in case of pregnancy: for instance to give a 334 335 favourable statement to charity officials. Whether servants were also influenced by their masters' reproductive norms or knowledge about contraceptives, was not investigated. 336

It is hard to draw a general picture of how much servants and masters were attached to 337 each other. The strength and stability of the relationship depended on many factors, 338 339 including the length of employment, and personal characteristics of both employer and employee. In nineteenth-century Flanders there are some examples of lifelong contacts. 340 For example, Monica Bos and Petrus Vermeire, who had been servants with a doctor in 341 Ghent for no less than 15 years, employed one of their former employers' maids after they 342 settled on their own (Matthys, 2012). During service, the doctor had also helped Monica to 343

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accumulate bank savings. The following example from a letter written in 1859 by a
 noblewoman to her sister likewise reflects a close affective bond between mistress and
 servant:

I jump like a bird from branch to branch because now I will tell you about our little Charlotte who returned to her parents in Knesselare (as cited in Hemelsoet, 2004, p. 70).

349 It is likely that close relationships like these were exceptions, but they nevertheless show 350 that servants and masters could have a strong impact on each other's lives. It is unclear if 351 there was a development over time. In the first half of the twentieth century many 352 employers looked back with nostalgia to former times when servants were still attached to 353 their masters, but at the same time French speaking Catholic columnist Adolphe Hardy 354 criticised bourgeois women in Belgium for being too confidential with their maidservants 355 (Vanderpelen, 2001). He believed that many female employers were too open with their 356 servants about intimate matters. Even when employers and servants did not have close 357 personal relationships, it was still possible for servants to be influenced by their masters' 358 behaviour by means of social learning. 359

3.2 Service and information exchange

Social learning involves that individuals acquired new information via social interaction. With regard to domestic service, the central issue is whether servants learned about contraceptive practices through observation of their employers' behaviour.

To begin with, there are indications that domestic servants were perceived by medical doctors to be aware of the sexual and reproductive habits of their masters. In the writings of the Ghent Medical Society, housemaids were mentioned as informants in such delicate matters. For example, in 1839 doctors investigated a young girl with overall serious health problems. In order to find out the mysterious cause, her nursemaid slept with her in the same bed and

observed her more attentively, and confided to the doctors that this unfortunate girl frequently committed the act of onanism (Société de Médecine de Gand, 1839, p. 223)

This quote indicates that the domestic employee in this case was considered capable of observing and understanding the sexual experiments of her employers' children.

To some extent, servants were also involved during the pregnancy and delivery of their 376 377 mistresses in the eighteenth and nineteenth centuries. Evidence from upper-class family shows that they were part of the joy and misery surrounding childbirth: usually they were 378 offered some punch and money when a child in their employer's family was born or 379 380 baptized (Robberechts, 1986). In exceptional circumstances they even actively assisted during their mistress's delivery. This was the case in 1858 when a Ghent noblewoman 381 wrote in a letter to her sister-in-law that one of her servant girls with a little experience 382 383 assisted her successfully at the birth of one of her children in the absence of a doctor. Of course, this was not a common situation, but multiple other records confirm that female 384 servants were often present at the deliveries of their mistresses. It is clear that in these 385 instances the participation of the servants happened with the permission of the employers 386 and was considered normal. 387

In the interviews about early twentieth century there are some accounts of masters who explicitly educated their servants on matters of partner choice, sexuality and even contraception. One servant mentioned that whenever she came back to the house of her employers after a free Sunday afternoon, her mistress joined her. On these occasions she advised her servant about her relationship with her boyfriend, who always wanted to go to

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the movies, a favourite spot for secret kissing and cuddling (De Keyzer, 1997). Another woman even declared that her former mistress unambiguously advocated birth control:

When I had my second child, my last mistress gave me a card for periodical abstinence (as cited in Steverlynck, 2000, p. 131).

Also during the nineteenth century employers sometimes actively assisted their employees in their reproductive choices. In a court case from 1888 the role of a female employer in buying an abortive medicine for her servant was examined (Gryson, 2009, p. 122). Yet, cases like these are not frequently cited and it is unlikely that the overt intervention of employers in their servants' reproductive life was common practice.

As expected, there are a lot more references towards social learning that took place through observation-only. Either servants found information in books or they actually overheard conversations or witnessed contraceptive practices.

Several Catholic handbooks and writings warned servant girls for *bad books* that could be present in the houses of their employers. At a Catholic conference in 1914, Joris Matheussen presented a report about rural immigrants in the city, which stated that:

The bad press spreads and captures the curious, ignorant girl. Because on many job positions there are non-catholic periodicals, sometimes very worldly fashion and other magazines, who are sniffed through by maidservants more than once, before they are thrown in the bin. Often it happens that there are immoral books in the house and the female servant has the opportunity to read them after her work (Matheussen, 1914, p. 192).

The Catholic authors never state clearly what exactly they mean by *bad press* and 414 immoral books. These concepts are probably not limited to books which contain 415 contraceptive information. However, given the harsh discourse against Neo-Malthusian-416 ism that was developed during this period² and the frequent references of Matheussen 417 himself towards this evil, it is clear that books with contraceptive advice were at least an 418 419 non-negligible part of the malicious literature. Even for illiterate women, these books contained useful information as they were extensively illustrated (McLaren, 1983). A 420 421 former servant confirmed that:

everything could be read and seen on drawings (as cited in De Keyzer, 2005, p. 54).

Books were however not the only source of information about contraceptive matters. Those servants who were involved in the most intimate components of personal care, such as helping to bathe and dress their mistresses, became aware of private everyday habits as well. This care for personal hygiene and make up was mainly performed by chambermaids. One former servant indicated that:

The chambermaids were often around the masters' bedroom and therefore heard everything and were a lot brighter (as cited in Steverlynck, 2000, p. 131).

Clearly, acquiring insight and sex and reproductive issues was a gradual process. Several
 women testified how at the beginning of their career, they were very uninformed. One
 servant who walked in on her employers making love, could not make sense of what she
 was seeing and believed that

what they were doing, was certainly something for the rich (as cited in De Keyzer, 1997, p. 241).

There were more testimonies like this. A young servant girl for instance had no idea what the *strange rubber thing* was that stood in a glass next to the master's bed. Several respondents however stated that despite this early naivety they became well informed after spending some time in service:

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later I understood that must have been a condom (as cited in De Keyzer, 1997, p. 241).

443 The above quotes reveal that servants did indeed acquire information about sexuality 444 and reproduction during domestic service, even without conversation. As such the Flemish 445 results are opposite to those of Gittins, whose interviews concern the same time frame as 446 those used here. While this different output could arise from methodological differences, it 447 may also be an indication of regional differences in the European fertility transition. For 448 instance, in Belgium there was a sharp distinction between the fertility decline in French-449 and Dutch-speaking areas (Lesthaeghe, 1977). Van Bavel demonstrated that even within 450 Flanders, French-speaking couples had lower fertility than others (Van Bavel, 2002). Most 451 of the noble and bourgeois households in Ghent were francophone. This linguistic 452 distinction between servants and masters was likely less present in the British case, 453 especially because relatively more maids in Britain worked in middle-class households. 454 Linguistic and social aspects like these determined the master-servant relationship in 455 various European contexts and undoubtedly affected social interaction mechanisms. More 456 comparative research is needed, however, to get a more profound grasp of these processes.

457 Nevertheless, from the results displayed above, it appears that in households where 458 there were multiple servants, information exchange took place between colleagues as well. 459 More experienced servants helped their younger co-workers to frame unfamiliar 460 situations. A 16-year-old chambermaid, for example, had accidentally witnessed a lesbian 461 petting by a member of the employer's family. When she asked the kitchen maid about 462 what she had seen, this woman explained it to her (De Keyzer, 1997, p. 241). Sometimes 463 fellow servants themselves took the initiative to inform their younger colleagues. When a 464 16-year-old girl was approached by a boy in the house where she worked, the kitchen maid 465 gave her a book about sexual education (De Keyzer, 1997, p. 54). 466

Work floor gossip was thus not absent in the lives of servants with co-workers. Those who were the only employee in the household may have had fewer contacts within the household, but more often frequented markets and shops where a lot of contraceptive knowledge was acquired according to testimonies in court cases (Gryson, 2009). On top of that, servants often changed jobs, so most of them were not maids-for-all-work during their entire career.

3.3 Reference groups

Information on contraception is not sufficient to explain fertility control. It should also be
 morally acceptable for the individual to limit childbearing. Reference groups, who set the
 norms for reproductive behaviour, play an important role in this. I examine whether former
 employers were seen as a *reproductive* reference group by women themselves.

It has been demonstrated that normative influence can even be more important than 479 disposing of accurate information to explain practices of fertility control. Using 480 481 interviews, Kate Fisher showed that the adoption of fertility limitation did not necessarily involve being well-informed (Fisher, 2000). Although family size limitation became an 482 integral part of sexuality around 1900, she nevertheless discovered a vague and haphazard 483 approach towards birth control among British couples in the first half of the twentieth 484 century. It appeared that a new ideal of small families was the result of a more oblivious 485 486 mentality change. Being well-informed is thus not sufficient to explain family size limitation. There must also be a motivation that is stronger than the social prohibitions on 487 fertility control (Van Bavel, 2010). Servants witnessed the lifestyle, perceptions and 488 489 behaviour of the middle and upper classes from nearby and may therefore not only have been more informed but also more motivated to control their family size than other women 490

because they were more influenced by bourgeois family values. After all, diffusion studies
have already shown that spatial proximity to low fertility couples had a negative impact on
one's own fertility (Van Bavel, 2004).

According to Catholic authors the upper classes had a strong impact on the spread of contraceptive intentions within the working classes (Vermeersch, 1909). By limiting the size of their own families, they set a bad example to the masses, which associated upper class behaviour with respectability and *higher intellectual culture*. The relatively unspoiled rural immigrants, who sought employment in town, were soon affected by these attitudes:

And so the rural immigrant soon knows the burden of childbearing, and he feels humiliated when he sees Sir or Madam disgusted about coming into their house with 6-7-8 children. Ugh! (Matheussen, 1914, p. 101).

On top of that, the elites were believed to put pressure on medical doctors to *transmit* their morals onto the working classes (Vermeersch, 1909).

Yet, from medical reports and testimonies there is little evidence that the upper classes were seen as a reference group by working class women, motivating contraceptive practices among the working classes.

508 The reasons to practice family size limitation expressed by Flemish women in the 509 first half of the twentieth century were strikingly similar to those distinguished by Kling 510 for Sweden (Kling, 2007). The main incentives were related to preserving one's standard 511 of living and to the health status of the woman. It was not extreme poverty that led people 512 to the use of fertility control, but the ideas about the appropriate resources to raise 513 children. These ideas were clearly inspired by bourgeois perceptions of childrearing, but 514 there were never explicit references to the habits of the upper classes. Respectable 515 childrearing was defined within working class networks: in the early twentieth century, 516 women with many children were pitied by their neighbours or friends (De Keyzer, 2005; 517 Steverlynck, 2000).

518 When it came to health issues, women sometimes referred to their own former negative 519 experiences with childbearing (for example De Keyzer, 2005, p. 382; Steverlynck, 2000, 520 p. 143). During the nineteenth century, similar references to reproductive health were still 521 rare. In general, the doctors of the Ghent Medical Society complained about the strong 522 reluctance of working class people with regard to health care (Société de Médecine de 523 Gand, 1868). More often than making allusions to their own lives, however, the twentieth-524 century respondents referred to their mothers as dreadful examples of how the burden of a 525 large family harmed physical and emotional wellbeing. One woman born in 1902 claimed: 526

My mother was constantly pregnant between the ages of twenty and forty. [...] Her entire sexual life was grafted on childbearing. It was torture [...] I definitely knew I did not want so many children (as cited in Steverlynck, 2000, p. 145–146).

Another woman said:

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My mother was in no condition for such a large family. Her pregnancies were torture. She lost weight before our very eyes. The deliveries were long and hard. [...] I took my fate in own hands (as cited in Steverlynck, 2000, p. 146).

No direct or indirect references to servants' employers or middle and upper class habits
 in general could be found. The negative experiences of mothers appeared to be the main
 stimuli to use birth control, but there are also regular allusions to the opinions of other
 peers, such as neighbours who lamented mothers with many children (Steverlynck, 2000).
 Middle- and upper-class acquaintances or former employers were not designated as
 reference groups.

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Yet, concern about maternal health reflects a typical upper-class preoccupation. This 540 gives away that a process of *embourgoisement* of values has taken place even though 541 women did not explicitly refer to the behaviour of the bourgeois (Banks, 1981; Velle, 542 1986). This apparent paradox reveals that embourgeoisement was a complex process that 543 took place to a large extent on the unconscious level.³ Quantitative analysis might help to 544 reveal such patterns of diffusion that remain hidden in the narrative evidence. For 545 example, using a Ghent survey from around 1900, Van den Eeckhout argued that that as 546 soon their husbands' wages permitted it, married women chose jobs in the domestic 547 548 sphere, although this was usually not the best choice from an economic perspective (Van den Eeckhout, 1993). This suggests that some segments of the working class population 549 pursued the bourgeois male breadwinner ideal. In contrast to testimonial data, quantitative 550 data for Flemish working class populations are also available on a large scale for the 551 nineteenth century. This allows covering exactly the period of change that remains largely 552 553 out of sight in the qualitative material and during which working-class pioneers of fertility 554 control stood out from the rest of the masses. In the following statistical analysis, I will analyse whether former urban domestic servants had lower fertility than other women. 555

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4. Quantitative analysis

In the qualitative part it was shown that servants collected information about birth control 559 via their older colleagues and via their masters. Furthermore, the main incentives to limit 560 family size – state preservation and maternal health – were undeniably inspired by 561 bourgeois family values. Yet, when women explained their own fertility choices, they did 562 563 not refer to their former employers or other upper-class individuals. Instead, the experiences of peers – family, friends and neighbours, served as examples. Nevertheless, 564 it is possible that more unconscious and latent mechanisms of social influence have 565 operated here. In order to measure these unspoken channels of influence, the marital 566 fertility of former servants needs to be confronted with that of women who never had the 567 servant experience. To this end, life course information was used of four cohorts of women 568 569 born in two rural places around Ghent.

4.1 Marital fertility of former servants

573 The main hypothesis is that those women who had been servants in Ghent were influenced 574 by reproductive behaviour of their employers – a pioneering group in the use of marital 575 family size limitation – and applied similar behaviour when they were having children 576 within marriage themselves. Former urban servants are thus expected to have lower 577 marital fertility than women who had not been in service.

In the subsequent longitudinal analysis, servant status is a categorical variable distinguishing among women who were never a servant (non), women who were a servant only on the countryside (rural) and women who were servants in the city (urban). It is thus considered a fixed characteristic of the individual based on particular *previous life experiences*, of which rural–urban forms an integral part, rather than a simple occupational category at the time of childbearing.

Figure 1 shows the age-specific marital fertility rates of former servants and women who were never servants in all cohorts.⁴ The graph indicates that the urban servants indeed had considerably lower fertility than non-servants.

In all age groups, the fertility level of non-servants is higher than that of former urban servants, resulting in a difference of more than two births in the total marital fertility rate.





Figure 1. Age-specific marital fertility of servants and non-servants.

In addition, the curve of the non-servants has a clear convex shape, which might suggest 610 the absence of fertility control at later ages (stopping or parity dependent fertility control). 611 This sharp outline is noticeably disrupted in the curve of former urban servants. Yet, 612 variations like these might also be attributable to intertwining factors, such as differences 613 in the average marriage age of various groups. To control for this a multivariate event 614 history analysis is carried out. I have made five models, each time adding a different set of 615 explanatory variables. The covariates used in the statistical models are displayed in Table 2 616 and described below. 617

618 Next to servant status, two important variables of interest are place of birth and birth cohort. As mentioned before, two separate birth places were chosen because studies on 619 migrants' fertility behaviour have shown that the fertility regime in the place of origin had 620 an effect on migrants' childbearing. Eine-Heurne-Mullem was situated in the heartland of 621 the restrictive marriage pattern in Flanders, while the Malthusian pattern was less strict in 622 Assenede. It can therefore be expected that among the women born in Eine-Heurne-623 Mullem fertility was controlled more through marriage than within marriage compared to 624 those from Assenede. Birth cohort is measured with a variable in which each cohort is a 625 category: G1830, G1846, G1860 and G1880. The women of the different cohorts were 626 born in different stages of the fertility decline. I expect fertility to be significantly lower in 627 the last two cohorts. 628

The basic model also accounts for general characteristics associated with fertility: age 629 of the woman at the time of childbirth, death of the previous infant, age at marriage and 630 parity. All of these variables usually have a strong influence on the probability of another 631 birth, even in the absence of efficient birth control. Both in contexts of natural and 632 633 controlled fertility, childbearing gradually declined as women aged and marriage duration and parities increased as a result of biological factors and of decreased coital frequency. 634 Age is a categorical variable using 5-year age intervals. Death of the previous infant is a 635 636 variable related to breastfeeding and potential child replacement. Breastfeeding prolongs the period of postpartum amenorrhea, the temporary sterility after giving birth, and 637

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Table 2.	Distribution	of expl	lanatory variables.	
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	Percentage/Mean (Standard deviatio
Servant status	
No servant	77.30
Urban servant	14.70
Rural servant	8.00
Place of birth	
Assenede	56.37
Eine-Heurne-Mullem	43.63
Cohort	45.05
G1830	21.15
G1830 G1846	21.13 26.23
G1860	25.63
G1880	26.99
Age of the woman	
15-19	0.73
20-24	10.7
25-29	21.87
30-34	21.74
35-39	22.83
40-44	14.24
45-49	7.98
Death previous infant	
No	95.33
Yes	4.67
Parity	1.07
1	21.3
2	17.83
3	14.37
4	12.98
5	
	9.43
6	7.11
7	6.01
8 and more	10.97
Age at marriage	25.59 (4.84)
Previous extramarital birth	
No	92.87
Yes	7.13
Previous bridal pregnancy	
No	98.73
Yes	1.27
Literacy	
No	21.37
Yes	43.87
Unknown	34.76
Social status of father	51.70
Low	57.31
Middle	36.39
Upper	2.13
No father	4.17
Social status of husband	52.00
Low	52.99
Middle	33.71
Upper	3.70
Unknown	9.60

(continued)

Table 2 –	continued
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	Percentage/Mean (Standard deviation)
Place of residence	
Rural residence	86.98
Urban residence	8.75
Mixed residence	4.27
N episodes	4350.00
N women	450.00
N births	1877.00
N person years	8132.06

popular beliefs hampered intercourse during the breastfeeding period (which is assumed to 699 be until the first birthday). Alternatively, it is possible that the death of an infant led to the 700 replacement of this child. In both cases, the death of a previous infant was linked with 701 increased fertility. This dummy variable was limited to the intervals 9-17 months after 702 previous childbirth to account for the 9-month time difference between conception and 703 704 birth. Parity refers to the number of childbirths a woman has experienced. A childless 705 woman had parity zero, a woman who had one child has parity one, and so on. In the 706 models used here, first births are excluded. Age at marriage is included as a continuous 707 variable.

708 In a second model, two variables are added that refer to the social background and 709 premarital fertility of the women: social status of the father, literacy and occurrence of 710 extramarital births and bridal pregnancies. It is important to include variables of social 711 status because urban servants might have been selected among particular layers of the 712 population. Urban servants were usually of a working class background, but did not belong 713 to the very poorest groups in society (Bras, 2002). It is expected that literate women had 714 lower fertility than illiterate women because they might have been more open to 715 innovations and literacy facilitated access to Neo-Malthusian information. The variable is 716 based on whether a woman signed the marriage registers or not. Social status of the 717 woman's father is based on the occupational title of the father when a woman was 15. If 718 this was not available, the father's occupational title from her birth register was used. 719 Weavers and (un)skilled workers were categorized as low, farmers and artisans as middle 720 and highly skilled professions as upper class. In both cases of previous illegitimate births 721 and prenuptial conceptions, a fixed dummy variable was created. Studies on the effect of 722 premarital births and conceptions on marital fertility are rare. Yet, Michel Oris found that 723 couples without premarital conceptions - des couples sages - were more likely to control 724 fertility within marriage (Oris, 1993). The underlying idea was that they lived up to 725 bourgeois family values. I distinguished between extramarital births and bridal 726 pregnancies because in the latter case, deviant behaviour was 'corrected' by marriage. 727

As a third step, place of residence was added to the covariates. After all, this study aims 728 to investigate a rural-urban migration trajectory. Some women who left their birthplace to 729 become a servant in Ghent, remained in the city after the end of their career. About one 730 third of the women, however, returned to the countryside after the servant experience. 731 The variable place of residence distinguishes between women who only lived in the 732 countryside during their childbearing years (rural residence); those who lived only in the 733 urban area (urban residence) and those who moved back and forth between Ghent and their 734 735 hometown (mixed residence). Place of residence is linked to the influence of local fertility

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customs during childbearing. It can be seen as a proxy of the influence of social peers onfertility.

Fourthly, I included social status of the husband based on his occupation. The same
criteria as with the social status of the father were used. In Model 4 place of residence was
excluded for reasons explained below; in Model 5 the analysis was run with all
abovementioned variables.

Table 3 below displays the outcomes of the subsequent regressions. The hazard ratios 742 and standard errors are shown. The levels of significance are indicated with stars, defined 743 744 below the table. The models include both open and closed birth intervals. Strictly, the 745 model measures duration so the reading comes down to the interpretation of relative durations. Women who do not experience another birth are considered censored 746 observations. The Cox regressions account for this. In practice, the common interpretation 747 is as follows: for each categorical variable a reference category is selected. Usually this is 748 the category with the highest frequency. In this category the hazard ratio equals one. 749 750 Values lower than one are associated with lower risks of experiencing the event of interest. They should be interpreted as proportional hazards: this means that a ratio of 0.8 can be 751 752 perceived as a 20% lower risk of experiencing the event (Jenkins, 2005). Likewise, values higher than one are associated with higher risks of failure. For example, a value of 1.3 is 753 considered as a 30% higher risk of experiencing the event. Without specifications, the 754 755 model assumes that all events (births in this case) are independent from one another. 756 Therefore, births were clustered per woman in all models. This accounts for the correlation between births of the same woman. 757

In the first model urban service has a significant lowering effect on fertility; former 758 urban servants had a risk 18% lower than non-servants to experience a next birth. Rural 759 760 service had no measurable effect. This suggests that the migration from countryside to town had a greater impact on the reproductive life course, than the mere fact of living and 761 working outside the parental home. The place of birth also affected marital fertility in the 762 anticipated way: it was higher for women born in Eine-Heurne-Mullem than for those born 763 in Assenede. Similarly, the results of the demographic covariates are largely as predicted: 764 765 fertility declines with age and increases particularly strongly when the previous infant died. The risk for another birth for women at parities two, three and four is significantly 766 lower than for women who had only one previous child, but the (not significant) outcomes 767 starting from parity five do suggest increased at the highest parities. Age at marriage has 768 no measurable effect.⁵ After the introduction of variables controlling for social 769 770 background and reproductive history in Model 2, these outcomes persist. None of the new variables added any significant effects. 771

However in Model 3, after the introduction of the social status of the husband, the 772 significance effect of urban servant experience is lost. This indicates that former urban 773 servants differed in partner selection from women in the non-servant and rural servant 774 775 categories; although a descriptive analysis on social mobility through marriage did not 776 produce clear results (see Matthys, 2012). The explanation probably lies with the 9.6% husbands in the unknown category. In 68.26% of the observations these husbands of 777 unknown social status were married to former urban servants. The unknown group is 778 779 also the only category in which fertility was significantly lower. Yet, not only were 780 husbands in the unknown category more common among former urban domestics, 781 they also occurred mainly among couples who lived in the city during their reproductive period (66.16% of all unknown husbands). Occupational registration was 782 less accurate in the urban population registers, especially when people moved a lot 783 within town. 784

	Model 1	Model 2	Model 3	Model 4	Model 5
Servant status					
No servant (ref.)	1.00	1.00	1.00	1.00	1.00
Urban servant	0.82 **	0.84 ^{††}	0.90	0.96	0.98
	(0.07)	(0.07)	(0.08)	(0.09)	(0.09)
Rural servant	1.02	1.02	1.02	1.01	1.01
	(0.76)	(0.80)	(0.78)	(0.89)	(0.86)
Place of birth		(/	()	()	()
Assenede (ref.)	1.00	1.00	1.00	1.00	1.00
Eine-Heurne-Mullem	1.19***	1.21***	1.19***	1.23***	1.22*
	(0.06)	(0.07)	(0.06)	(0.07)	(0.07)
Cohort		()	()	()	(,
G1830 (ref.)	1.00	1.00	1.00	1.00	1.00
G1846	1.01	1.00	1.01	1.01	1.01
	(0.92)	(0.99)	(0.85)	(0.94)	(0.84)
G1860	0.87	0.87	0.90	0.88	0.89*
01000	(0.06)	(0.06)	(0.06)	(0.06)	(0.06)
G1880	0.62***	0.60***	0.61 ***	0.60***	(0.00) 0.61 *
01000	(0.04)	(0.05)	(0.05)	(0.05)	(0.05)
Age of the woman	(0.04)	(0.05)	(0.05)	(0.05)	(0.05)
15–19	1.56	1.53	1.51	1.67 [†]	1.65
15 17	(0.50)	(0.47)	(0.47)	(0.47)	(0.46)
20-24	1.00	1.00	1.00	1.02	1.02
20-24	(0.08)	(0.08)	(0.08)	(0.08)	(0.08)
25-29 (ref.)	1.00	1.00	1.00	1.00	1.00
30-34	0.86**	0.86*	0.86*	0.86 **	0.85*
30-34					
35-39	(0.05) 0.77 ***	(0.05) 0.77 ***	(0.05) 0.76 ***	(0.05) 0.75 ***	(0.05) 0.75 *
33-39					
40 44	(0.06)	(0.06) 0.44 ***	(0.06)	(0.06) 0.42 states	(0.06)
40-44	0.43***		0.44***	0.43***	0.43*
45 40	(0.05) 0.10 state	(0.05)	(0.05)	(0.05)	(0.05)
45-49	0.10***	0.10***	0.10***	0.10***	0.10*
	(0.02)	(0.02)	(0.02)	(0.02)	(0.02)
Death previous infant	1.00	1.00	1.00	1.00	1.00
No (ref.)	1.00	1.00	1.00	1.00	1.00
Yes	2.52***	2.50***	2.47***	2.49***	2.48*
D. I.	(0.15)	(0.15)	(0.15)	(0.15)	(0.15)
Parity	1.00	1.00	1.00	1.00	1.00
1 (ref.)	1.00	1.00	1.00	1.00	1.00
2	0.65***	0.65***	0.65***	0.65***	0.65*
2	(0.05)	(0.05)	(0.05)	(0.05)	(0.05)
3	0.76**	0.76**	0.76**	0.76**	0.76*
	(0.07)	(0.07)	(0.07)	(0.07)	(0.07)
4	0.75**	0.75**	0.75**	0.75**	0.75*
_	(0.07)	(0.08)	(0.08)	(0.08)	(0.08)
5	0.96	0.95	0.95	0.95	0.95
	(0.09)	(0.10)	(0.09)	(0.09)	(0.09)
6	0.87	0.86	0.87	0.86	0.86
	(0.10)	(0.11)	(0.11)	(0.10)	(0.10)
7	0.83	0.83	0.83	0.84	0.84
	(0.12)	(0.12)	(0.12)	(0.12)	(0.12)
8 and more	0.98	0.99	0.98	0.98	0.98
	(0.11)	(0.11)	(0.11)	(0.11)	(0.11)
Age at marriage	1.00	1.00	1.00	1.00	1.00
Age at marriage	1.00 (0.01)	(0.01)	(0.01)	(0.01)	(0.01)

Table 3. Cox proportional hazard models of marital fertility standard errors.

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Table 3 – continued

Ν	Iodel 1 Me	odel 2	Model 3	Model 4	Model 5
No (ref.)		1.00	1.00	1.00	1.00
Yes		0.99	1.01	1.01	1.02
		(0.08)	(0.08)	(0.08)	(0.08
Previous bridal pregnancy					
No (ref.)		1.00	1.00	1.00	1.00
Yes		1.17	1.14	1.13	1.12
		(0.14)	(0.13)	(0.14)	(0.14
Literacy					
No (ref.)		1.00	1.00	1.00	1.00
Yes		1.02	1.00	1.02	1.00
		(0.07)	(0.07)	(0.07)	(0.07
Unknown		0.99	1.02	1.03	1.04
		(0.08)	(0.08)	(0.08)	(0.08
Social status of father					
Low (ref.)		1.00	1.00	1.00	1.00
Middle		0.97	0.96	0.97	0.95
		(0.05)	(0.06)	(0.05)	(0.06
Upper		1.03	1.00	1.09	1.05
		(0.05)	(0.06)	(0.23)	(0.21
No father		1.19	1.17	1.19	1.17
		(0.16)	(0.16)	(0.15)	(0.16
Social status of husband					
Low (ref.)			1.00		1.00
Middle			1.04		1.04
			(0.06)		(0.06
Upper			1.03		1.08
			(0.15)		(0.16
Unknown			0.73 ^{††}		0.83
			(0.10)		(0.13
Place of residence					
Rural residence (ref.)				1.00	1.00
Urban residence				0.67**	0.73
				(0.10)	(0.13
Mixed residence				0.77**	0.78
				(0.10)	(0.10
N episodes			4350		
N women			450		
N births			1877		
N person years		0= (0	8132.06		
		87.69	527.31	527.79	534.60
Log pseudolikelihood -11	111.71 -111	10.07	-11106.18	-11103.96	-11102.37

Note: ${}^{\dagger}p < 0.1$, ${}^{\dagger\dagger}p < 0.05$, *p < 0.01, **p < 0.005, ***p < 0.001.

Therefore, a fourth model was run, excluding once more the social status of the husband, but including the place of residence during childbearing. This model shows that both urban and mixed residence were associated with lower fertility and neutralized the significant impact of urban service. Yet, it should be noted that former urban servants more often had urban or mixed residence during their reproductive career than other women: no less than 61.03% compared to 7.13%. As such, service was the main channel for women to move from the countryside to the city and did have an indirect effect on marital fertility.

Although urban residence and having a husband of unknown social status were closely linked – for over 75% of all women with urban residence the husband's social status is missing – a final model was run, including all variables. The husband's unknown social

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status was no longer significant, but urban and mixed residence were still associated with
 lower fertility significant.

In summary, the subsequent models demonstrate that the effect of urban service on 885 marital fertility was likely of a more indirect nature, namely by facilitating urban 886 settlement after marriage and/or by selective partner choice. Living in the city had a 887 negative effect on marital fertility, while servant experience did not result in long-lasting 888 social influence on behaviour. It appears that upper class and higher middle class habits 889 were not transmitted to former servants' own lives. This is consistent with the qualitative 890 891 analysis, which showed no direct influence of the employers' habits on those of their servants. However, the testimonial data unquestionably revealed an embourgeoisement of 892 values by the early twentieth century. It is likely that a slower, more latent transmission 893 has taken place during which innovative ideas were not immediately put in practice. From 894 this perspective, domestic service could still have been an important diffusion channel. 895 After all, it was shown that during service useful information could be collected. 896

4.2 Spacing versus stopping?

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So far, the analysis has ignored the *type* of family size limitation. Yet, a considerable 900 amount of literature on the European fertility decline is dedicated to the spacing versus 901 stopping-debate. Spacing refers to the parity-independent prolonging of intervals between 902 births. It has been found in pre-transitional populations and is often considered a more 903 traditional type of birth control (Van Bavel, 2004). Stopping refers to parity-dependent 904 termination of childbearing. The use of stopping was more innovative and was inherent to 905 906 the fertility decline. If servants were influenced by the behaviour of the upper classes, who were forerunners in the use of modern contraception, it is likely that they applied more 907 stopping than other women. In the models above, both closed and open birth intervals were 908 909 included. As a result, the separate effects of spacing and stopping could not be determined: for some covariates spacing and stopping might have opposite effects, thus neutralising 910 each other. 911

912 Until today, specialists do not agree upon an appropriate method to deal with spacing 913 and stopping in multivariate analysis. After all, the two types of family size reduction are 914 not easily distinguishable. What appears to be stopping might, for example, be noncompleted spacing because the woman entered menopause. Jan Van Bavel has developed 915 916 a method in which an event history analysis model of closed birth intervals is used to detect spacing and a logit model to investigate the probability of stopping (Van Bavel, 917 2004). Yet, in several recent unpublished conference contributions, George Alter proposed 918 a different method, using bio-statistical cure models.⁶ An application of Van Bavel's 919 method to the data used here (results not shown here) produced outcomes that were in line 920 with the expectations and with models shown in Table 3: urban service and urban 921 residence were not associated with increased spacing, but urban residence did seem to 922 923 have a positive effect on the more modern type of fertility control, namely stopping.

Until experts reach consensus about the correct method to use, bivariate analyses can 924 925 provide basic insight in the use of spacing and stopping. The average length of all completed birth intervals (N = 2410) was not very different for former urban servants and 926 927 non-servants: respectively 29.79 and 28.66 months. The age at which the last child was 928 born among married women who were under observation until age 50, however, showed a 929 marked distinction: it was only 36.98 years for urban servants and 39.78 for non-servants. 930 This suggests that servants applied more stopping than women who had not been in service. 931 These measures do not account for missing observations. A more advanced tool to detect



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Figure 2. Kaplan-Meier survival estimates of birth intervals by servant status.

spacing and stopping between groups is the Kaplan Meier curve (KM). This frequently used tool in survival analysis offers a graphical display of the estimates of the 'survivor function' and accounts for missing data. In this case it displays the percentage of women without a birth in function of the time since the previous birth for completed and open intervals. First births are excluded. The more abruptly the curve drops, the shorter birth 95[Q6] intervals are. The percentage without a birth provides an indicator of stopping. Figure 2 shows the survivor estimates per servant status. Rural servants were omitted because of the small number of observations.

960 The figure clearly suggests that urban servants used both more spacing and stopping 961 than other women: the curve of former servants drops more rapidly and twice, and the 962 amount of women with open intervals after 6 years is twice as high for urban servants 963 than for non-servants. Evidently, underlying dynamics may be concealed in this 964 bivariate approach. Differences in stopping and spacing might be more strongly 965 affected by other factors, such as place of residence of social status, than by servant 966 experience. It is also possible that selection effects were at play; servants were not 967 entirely randomly recruited within the population. Further research is needed to 968 determine whether the distinctive fertility behaviour of former urban servants is due to 969 factors before or after entering service. The preceding multivariate models seemed to 970 indicate that there was an indirect effect of service on the fertility of rural-urban 971 migrants, by facilitating urban settlement.

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5. Conclusions

The aim of this paper was to determine whether urban domestic service functioned as a 975 976 diffusion channel of fertility control in Flanders. The narratives showed that there was certainly work floor conversation about reproductive issues among servants, yet in the 977 statistical model former servants did not have lower fertility than women who had never 978 979 been servants. There are several possible reasons why the impact of domestic service on marital fertility was not observable in the figures. 980

Firstly, the qualitative analysis revealed that work floor gossip between co-workers 981 and observation-only social learning between servants and masters mainly consisted of 982 information exchange rather than of normative diffusion. This differs from Gittins' 983 statements that servants were less informed about birth control than factory workers 984 because of their isolated social position. Yet, it can be assumed that service was only one 985 986 of many reproductive information channels for the working classes. Other analyses have shown that information exchange indeed took place in factories as well as in male 987 dominated social networks (De Wilde, 2000; Matthys & Devos, 2010) or stressed the role 988 of troubadours and salesmen travelling between town and countryside (Balthazar, 1999). 989 As such, various diffusion channels of information operating within different groups of the 990 working classes and servants are not distinguishable from the rest. 991

Secondly, from the testimonies it became clear that former employers or other upper 992 class acquaintances were not designated as reference persons for fertility choices for one's 993 own behaviour by former servants. Instead, working-class women referred to the life 994 experiences of their family members and other peers when explaining their own fertility 995 choices. Nevertheless, from about 1900 bourgeois values had undoubtedly penetrated the 996 reproductive lives of working class women. It is likely that a slower, more latent and 997 oblique process of influence had taken place, as Fisher's research on Great Britain 998 suggested as well. In this process interaction mechanisms other than social learning are at 999 play. Members of the social network that have a closer and more equal relationship to the 1000 individual than contacts in higher social strata, for instance neighbours, family and friends, 1001 exercise other types of social influence, such as contagion and social pressure. This is 1002 illustrated by the fact that women who lived in an urban environment during their 1003 1004 childbearing years had lower fertility than those in the countryside. Working-class urban 1005 families controlled their fertility much earlier than their rural counterparts. In other words, the reproductive norms and values of the social network differed between town and 1006 1007 countryside. As a result, the effect of urban domestic service on individual fertility may have been neutralised by the weight of group norms in rural areas. However, the large 1008 numbers of servants returning each year to their rural hometowns most likely contributed 1009 1010 to a change in these dominant normative systems on the countryside. If this is the case, the 1011 effect of service operated more on a meso-level rather than that it left traces on the 1012 individual life course.

1013 This paper enhances our understanding of the role of domestic service as a diffusion 1014 channel of fertility control. The unexpected and complex outcomes also prove that the 1015 study of migrants and the use of multifaceted methodologies – combining qualitative 1016 evidence and longitudinal individual data – are the best way to get a profound insight into 1017 the diffusion of innovative ideas and behaviour through different social strata and between 1018 urban and rural areas.

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Notes

1. Eine-Heurne-Mullem in fact consists of the three villages Eine, Heurne and Mullem, which formed a historical and socio-economic unit (Matthys, 2012).

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- 10302.For example, in 1909 cardinal Mercier published a pastoral letter in French about *the duties of*1031*married life* in which contraception was severely condemned. One year later, it was translated1032into Dutch and published as Mercier, D. (1910). Herderlijke brief voor den Vasten over de1032*plichten van het huwelijksleven.* Mechelen.
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 3. Of course, for the twentieth century, I used only the testimonial evidence here that were published, which means that I used secondary sources. Although I am convinced that the main outcomes would be similar, the complete interviews might sketch a more nuanced picture.
- 4. Based on the following information: urban servants = 1901.67 person years (171 women); non-servants = 8080.02 person years (645 women). For reasons of clarity, the rather small number of rural servants (1024.55 person years or 98 women) was omitted.
- Alternatively, the models were run with age at marriage as a categorical variable. This did not affect the outcomes.
- 1040 6. Presentations at for instance Population Association of America 2007; Economic History 1041 Workshop 2010.

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