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Regional Differences in Job Satisfaction

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Regional Differences in Job Satisfaction

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ABSTRACT

Job satisfaction is significantly higher in Wales than in London and the South East, the rest of England and Scotland. This is despite the fact that among these four regions, earnings are lowest in Wales. Using data from the British Household Panel Survey (BHPS), we investigate the determinants of job satisfaction and attempt to explain why workers in Wales are happier in their work than workers in other parts of the UK. We find that workers in Wales appear to be less concerned about pay than workers in other regions. We suggest that because lower earnings tend to be associated with higher levels of unemployment and inactivity, being in work may be regarded more favourably in more economically depressed regions. We also suggest the climate of industrial relations, as perceived by workers, is better in Wales than elsewhere.

Keywords: Job satisfaction, Wales, regional labour markets.

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INTRODUCTION

In recent years economists have used worker reported job satisfaction to examine the utility obtained from work. Standard micro-economic theory suggests there is a trade-off between earnings and hours of work, with satisfaction rising as wage income increases and decreasing as hours of work rise. However, there is evidence to suggest that these features are not the only or even the most important determinants of job satisfaction. In particular, individuals obtain satisfaction from the nature of work itself, from feelings of job security, from relationships with coworkers and much else besides. (Clark 2001). Both absolute pay and relative pay have been found to influence job satisfaction as workers feelings of job equity are governed not only by what they earn but also by what other workers in similar positions earn. (Rees 1993, Baxter 1973 and 1993). There are also differences between men and women in the levels of reported satisfaction and their determinants, with women being less driven by pay than is the case with men. (Sloane and Williams 2000)

Among previous papers in this journal examining aspects of job satisfaction Idson (1990) has focused on establishment size, Meng (1990) on trade unions, Belfield and Harris (2002) on education, Brown and McIntosh (2003) on the low wage service sector and Gazioglu and Tansel (2006) on a range of individual and job-related factors. Another group of papers has focused on differences in job satisfaction across nations. Thus Sousa-Poza and Sousa-Posa (2000) compared 21 countries using data from the 1997 International Social Survey Program. They found that levels of job satisfaction varied across countries and these differences could be partly attributed to differences in work role inputs and outputs. Further, while some

determinants of job satisfaction, such as having an interesting job and good relations with management, were important in all countries, others such as pay and job security tended to be country specific. There are also gender differences in job satisfaction across country with women reporting significantly higher job satisfaction than men in the UK, the US, Hungary and New Zealand, but significantly lower satisfaction in some other countries, notably Spain. (See Sousa-Poza and Sousa-Posa, 2000). Diaz-Serrano and Cabral Vieira (2005) examined the difference in job satisfaction between lower and higher paid workers within the European Union using the European Union Community Household Panel data over the period 1994-2001. They find that low paid workers report a significantly lower level of job satisfaction than higher paid workers in most countries, but that the reverse applies in the UK. Green and Tsitsianis (2005) attempt to explain trends in job satisfaction over time in Britain and Germany. Contrary to expectations they find that changing job insecurity does not explain the modest fall in job satisfaction in either country, but intensification of work effort and declining task discretion can explain part of the decline in job satisfaction in Britain. In this paper we focus on regional differences in job satisfaction within a single country, which to our knowledge has not been analysed before. To the extent that there are regional differences in earnings we might expect this to be reflected in reported job satisfaction. However, this may be moderated by the fact that lower earnings go hand in hand with higher levels of unemployment and inactivity, so that being in work may be regarded more favourably in more economically depressed regions.

We make use of the British Household Panel Survey (BHPS) which asks individuals all things considered, how satisfied or dissatisfied they are with their present job overall on a scale of 1 to 7, where 1 represents completely dissatisfied, 4 neither satisfied nor dissatisfied and 7 completely satisfied. Similar questions using the same scale were asked about total pay (including any overtime or bonuses), job security, hours of work and the actual work itself. Recent boosts to the BHPS in Scotland and Wales have increased the sample size, which allows for more detailed regional comparisons. Further, waves 6 - 10 contained questions on overall life satisfaction which allows for comparisons in each region between life satisfaction of the employed, unemployed and inactive and job satisfaction.

Earlier studies have shown that low-paid workers have job satisfaction which is as high, if not higher, than higher paid workers, though in part this may be the result of compositional effects (Leontaridi, Sloane and Jones 2004.) This paper extends the analysis to regions with differing concentrations of high and low paid workers and enables us to control for both industry and occupational groups.

1. MODEL SPECIFICATION AND ESTIMATION

Our starting point is that job satisfaction is a reasonable proxy for the utility of work.

As Hamermesh (2001) suggests,

"A potentially useful view is that job satisfaction is the resultant of the worker's weighing in his/her mind of all the job's aspects. It can be viewed as a single metric that allows a worker to compare the current job to other labour market opportunities."

Of course, we cannot be certain that individual workers will use the 1 to 7 ranking scale in exactly the same way, but empirical regularities can be observed using such job satisfaction measures. Thus, Hamermesh (1977), Freeman (1978), Akerlof, Rose and Yellen (1988) and Clark (2001) have all found that recorded job satisfaction is a strong predictor of quit behaviour, while Mangione and Quinn (1975) and Clegg (1983) found that there was a negative correlation between job satisfaction and both worker absence and productivity. Job satisfaction can be considered to be a type of sub-utility function u within an overall utility function, v, representing overall life satisfaction.

Thus,

$$v = v \{ u(h, i, j) \mu \}.$$
 (1)

Where u is the utility from work and μ the utility obtained from other sources or non-work spheres of activity. As work is an important component of life in general

² As Kristensen and Westergaard-Nielsen (2004) point out, if job satisfaction is used on the right-hand side to explain variables such as quit behaviour and simply depended on personal sentiments and the standard observed variables such as age and education, no new or additional information would be contained in measures of job satisfaction themselves which would then be endogenous. However, this variable is likely to capture unobservables such as work organisation, physical work conditions and the workers perception of the quality of the job match which allow for exogenous variation.

we would expect there to be a positive association between utility from work and overall life satisfaction. The utility from work then takes the form,

$$u = u(y, h, i, j)$$

$$(2)$$

where y equals wage income, h represents hours of work and i and j are vectors of individual and job specific characteristics, respectively.

A prominent view in the psychology literature is that happiness, in part, depends on relative income or what others earn. In the economics literature Easterlin (1974) first put forward the hypothesis that overall well being depended on relative rather than absolute income in the context of inter-country comparisons and within-country time series. Rees (1993) also suggested that there was an inverse relationship between a worker's satisfaction and the pay of other workers. Baxter (1973 and 1993) formalised this in the concept of relative deprivation. That is, as a worker's level of earnings falls relative to that of others, the individual will feel relatively deprived and happiness will decline. To incorporate this idea we extend the utility function by including an additional variable y^* to proxy an individual's reference income. Thus, $u = u(y, y^*, h, i, j)$

We do not directly observe y* but the psychology literature suggests that such comparisons tend to be narrowly drawn. Thus, Major and Forcey (1985) found that individuals preferred to make comparisons within the same sex and job rather than across these dimensions.³ Our reference income is obtained by estimating a wage equation and then using the results to estimate a predicted wage for each individual based on their personal and job characteristics. There are potential econometric

³ Frank (1985) showed that wage distributions within firms were much more compressed than would be expected if relative income were unimportant. Further, the incidence of piece-work pay was much lower and the frequency of strikes much higher than if this were not the case.

problems in making comparison income the residual in a human capital regression. Therefore, we derive our comparison pay from the Labour Force Survey (LFS) corresponding to the date of interview⁴. Thus, if actual pay is below the pay predicted from the LFS we would expect this to reduce job satisfaction.

A further consideration is that job satisfaction and wages may be endogenous. For example, wages and job satisfaction could be simultaneously determined were wages to compensate for the degree of risk in a job which, in turn, could lower job satisfaction if an individual were risk averse. Or, suppose more satisfied workers tend to increase the degree of work effort and this, in turn, raises pay, then again the two variables will be endogenous. There are standard ways of dealing with this problem, but finding appropriate exclusion restrictions can be problematical. Lydon and Chevalier (2002) made a rare attempt to deal with the problem by using characteristics of a respondent's partner or spouse as instruments in a sample of graduates and this produced significantly higher own wage effects in their job satisfaction equation than when wages were treated as exogenous. However, this result is obtained at the cost of restricting the sample to married individuals or those with partners and we do not attempt to deal with this potential problem here. Failing to deal with this problem may be less crucial in our case, given that our main concern is with regional differences in job satisfaction.

One advantage of using the BHPS is that one can make use of the panel element to control for individual heterogeneity. The unobserved component can be treated as either a random variable or as a fixed effect, when it is treated as a parameter to be

⁴ Because we have observations of pay in different years we deflate the pay variable by the retail price index so that we are always considering real pay.

estimated for each cross section observation. Choosing between these two alternatives is not straightforward, but since the BHPS draws individuals randomly from a large population the random effects approach is an appropriate specification and avoids a loss of degrees of freedom that would result from using a fixed effects model. Further, when using fixed effects it is not possible to distinguish between the effects of time-constant observables and those of the time-constant unobservables, so that individual factors such as gender cannot be included as independent regressors. Such variables are important in the context of our study and hence we utilise a random effects ordered probit model.

2. **SOME DESCRIPTIVES**

According to wave 11 of the BHPS in 2002 job satisfaction was higher in Wales than in any other part of Britain. Looking at the descriptive statistics (table 2) features tending to raise job satisfaction in Wales on the basis of earlier studies are a high female/male employment ratio, high job tenure and age, a low proportion with university degrees, high public sector employment and low travel to work times. Features tending to lower job satisfaction in Wales relative to elsewhere are low wages, high hours of work, a high proportion of home-owners⁵, less extensive promotion prospects and high trade union membership.

Table One about here.

In every region there has been some decline in recorded levels of job satisfaction compared to wave 1 (1991), though a degree of caution is required interpreting these results due to the small sample size in Scotland and particularly Wales prior to the boosts to the BHPS in these two regions (figure one). Further, there has been some increase in recorded job satisfaction over the last three waves. It should also be noted that in contrast to the trend in overall job satisfaction, there has been an upward trend between waves 1 and 11 in the recorded levels of satisfaction with pay (figure two), with Wales having the highest recorded level at the end of the period despite the lower mean level of pay there.

⁵ A number of studies (e.g. Clark and Oswald, 1996, and Sloane and Williams, 2000 have found a relationship between home ownership (or more particularly having a mortgage) and job satisfaction. The need to pay for the costs of a mortgage may increase the need to earn more and thereby increase the intensity of work and reduce job satisfaction, but there are other possibilities. Thus Clark (1996), who finds renters are more satisfied at work than home owners, attributes this to renting making it easier to change jobs and, therefore, get a better job match.

One reason for variation in job satisfaction across regions is that the variable may depend on possible alternatives such as unemployment and inactivity – as Kristensen and Westergaard-Nielsen (2004) point out one would expect individuals with good outside alternative job opportunities to be less satisfied than individuals with none. They find that average job satisfaction increases with the unemployment rate.

In terms of overall life satisfaction, data for which are available up to wave 10, Wales also has the highest recorded level at the end of the period, with the level being stable between waves 8 and 10 when there were declines in the other regions (figure three). When the sample is divided into employed, unemployed and inactive (figure five) life satisfaction is clearly higher for the employed group and lowest for the unemployed group in each of the regions. The sample was further divided into those expressing low job satisfaction (1 and 2), medium job satisfaction (3, 4 and 5) and high job satisfaction (6 and 7), (figure three). Overall life satisfaction was clearly highest for those with high job satisfaction and lowest for those with low job satisfaction, the same being true for all regions.

The finding of high overall life satisfaction in Wales is not quite matched by the inactive group which record figures not very different from those in other regions. This suggests that in the regression analysis we should control for sample selection, by using the Heckman two step procedure. However, inserting the inverse Mills ratio into an ordered probit equation is not a standard procedure and could itself insert a bias into our results. Therefore, in our reported results we merely attempt to insert additional explanatory variables into our estimating equations to pick up such effects.

2. **Results**

Experimentation with different regions led to the conclusion that splitting Great Britain into four regions would make for the neatest comparisons, as division into smaller regions reduces sample size. Thus, our regions are London and the South-East, the Rest of England, Scotland and Wales. We then combine waves 9, 10 and 11, the years when the boosts are available for Scotland and Wales. This enables us to apply a random effects ordered probit model to correct for unobservables, in which observations in separate years for the same individuals are treated as separate observations. We utilise an unbalanced panel as restricting the analysis to a balanced panel leads to a substantial decline in sample size since less than half of the individuals in the unbalanced panel answer the job satisfaction question in the three waves being considered. We estimate a balanced panel for the national sample and find that the coefficients are very similar to those obtained using the unbalanced panel estimation, but generally have larger standard errors.

Examining first the results for the whole sample, (Table 2), it is clear that Wales is different. With Wales as the omitted category overall job satisfaction is significantly lower in the other three regions. We tested whether this is due to being Welsh or living in Wales by estimating the model including a dummy variable indicating whether the individual was born in Wales or not. The variable was found to be insignificant at conventional levels suggesting that it is living in Wales which is important. The wave dummies are consistent with a decline in job satisfaction over this period. In general the results are in line with those of earlier studies using the BHPS. Women express themselves as more satisfied at work than men⁶ and the level

⁶ These results are not reported here, but are available on request.

of pay does not significantly raise the level of satisfaction of women, unlike the case with men.⁷ Indeed, when interaction terms between gender and the absolute pay variable were included in the overall regression the coefficient was positive and significant (t = 4.17), indicating that earnings have a significantly greater impact on the job satisfaction of men than of women⁸.

There is a problem of multi-collinearity, however, when we include comparison pay, age and education in the same equations, as comparison pay becomes insignificant in this case. If education and age are omitted comparison pay becomes significant both for men and for women. Hence we report equations with and without the comparison pay variable. The absolute pay variable is gross usual monthly pay converted to an hourly rate and hours are usual hours. As expected, hours of work are negative and significant so that, ceteris paribus workers prefer shorter hours. We also include the pattern of hours. It appears that workers dislike most working in the evenings or nights, though on its own, working at night is insignificant at conventional levels. There are, however, some gender differences. Women, but not men, have a preference for working in the mornings only, but do not have significantly lower job satisfaction from working evenings or nights, while men appear to dislike split shifts and rotating shifts.

Similarly, while men employed in the public sector have lower satisfaction than those employed in the private sector, the sign on public sector employment is positive for women. For both sexes job satisfaction is higher for part-time workers

⁷ Sousa-Poza and Sousa-Poza (2003) show using the first 10 waves of the BHPS that women's satisfaction declined substantially in the 1990's, whereas men's job satisfaction remained fairly constant. This resulted in a halving of the gender job satisfaction differential. Nevertheless, we find that the difference is still significant.

⁸ However in the case of Wales we find this term is insignificantly different from zero.

than full-time workers. In terms of other job characteristics the availability of promotion opportunities, together with incremental pay systems, employment in small establishments with less than 100 employees and shorter journey to work times significantly raise job satisfaction. As for personal characteristics we find that satisfaction is U shaped in age and tenure, increases with good health and declines with higher levels of education and home ownership. There is also a significant negative relationship with trade union membership which may reflect omitted variables such as the quality of industrial relations or alternatively that dissatisfied workers are more likely to join unions. To see whether an individual's recent work history plays some part in explaining differences in satisfaction, we include two variables, one of which measures the number of weeks in which an individual was not working in the previous year and the other which is a dummy for whether or not the individual voluntarily quit his or her last job. Both of these turn out to be highly significant with expected signs.

When the sample is split by region the most striking feature for Wales (Table 2), is that comparative pay is never a significant determinant of job satisfaction for either men or women and for the latter usual pay is never significant either. For women the voluntary quits and inactivity variables are insignificant at conventional levels. This story is, in the main, replicated for most variables, in the other regions, save for the fact that the comparative wage is significant for both genders in the Rest of England for men (at the 10% level) in London and the South-East and (also at the

⁹ Bender and Sloane (1998), using the Social and Economic Life Initiative dataset, found that when a variable measuring the quality of industrial relations was included in a job satisfaction equation the negative sign on trade union membership disappeared. Consistent with this hypothesis Drinkwater and Ingram (2003) found using the Social Attitudes Survey that workers in Wales were significantly more likely to report good industrial relations and workplace harmony than workers in other regions.

10% level) for all workers in Scotland. This variable is also significant for women, as well as men, in Scotland and the Rest of England, where the inactivity variable is also significant for women at the 10% level.

When the regressions were run with education excluded real predicted pay, always significant at the national level, was also significant for women in Scotland, and for both men and women in London and the South-East and the Rest of England. However, it was insignificant in Wales. This points to the fact that pay appears to have a less important effect on job satisfaction in Wales than it does in the rest of Britain. ¹⁰

We also include a model for Wales with a dummy variable included for areas with Objective One status. The reason for this is that West Wales and the Valleys receive substantial support from the European Social Fund as GDP in these areas is less than 75% of the European Union average. If higher job satisfaction in Wales is a consequence of higher inactivity in Wales, then we would also expect that job satisfaction would be higher in West Wales and the Valleys for the same reason. By way of illustration according to the Welsh Local Labour Force Survey 2001-2002 the inactivity rate (working age) was 28.6% for the Objective One area compared to 23.9% for the Objective Three area (the rest of Wales) and according to NES data the gross weekly wage in 2002 in the Objective One area was £384.88 compared to £418.36 in the Objective Three area. There is a slight problem in defining our dummy variable as the BHPS combines Torfaen (in the Objective One area) with the

¹⁰ Oswald (1997) found that overall happiness was determined much more by whether the individual had a job than by the level of income. The worst thing about losing a job was not the drop in takehome pay but the non-pecuniary distress which it caused. Mental distress was twice as high among the unemployed as among the employed.

neighbouring Monmouthshire (in the Objective 3 area), so it is necessary to drop these Unitary Authorities from our analysis with the Objective One dummy included. This results in a loss of 8.66% of the observations from the Welsh sample, which is sufficiently small that it should not invalidate the exercise.

The sign on the Objective One coefficient is always positive and significant at the 10% level for the whole sample and for women. However, regional unemployment and inactivity rates were insignificant when included in the jobs satisfaction equations and did not affect the significance of the regional dummies. Thus, it seems unlikely that low activity rates for Wales explain the high levels of job satisfaction there. This is reinforced by the fact that job satisfaction is significantly higher in Wales than elsewhere after controlling for number of weeks not employed in the last year. 12

It should also be bourne in mind that it is the younger and more educated that tend to migrate from Wales and outward migration is substantial. In April 2001 1.24% of those resident in England were born in Wales (Drinkwater and Blackaby, 2004). Thus, some of the more dissatisfied workers in Wales in the past, may now be working outside of Wales. However, when a dummy variable for born in Wales was included in a job satisfaction equation for England it turned out to be insignificant. Thus, the Welsh in England are similar to those born in England. However, we

¹¹ We also change our omitted group in the national regressions from Wales to the objective one region in Wales. Thus we included the objective three in Wales region as another region. We find that London and the South East, the rest of England and Scotland are significantly different from the Wales objective one region but the Wales objective three region is not.

¹² We also included 16 local authority dummies to see if there were significant differences in job satisfaction at this level of dis-aggregation. Four local authority areas had significantly higher than elsewhere (at the 10% level or higher), all of them in the Objective One area.

cannot identify if whether this is a consequence of location or movement into a better job.

We also attempted a decomposition based on the predictions of the ordered probit model using the Welsh coefficients with the characteristics means from the other regions. If those in Wales had the same average characteristics as those in other regions mean satisfaction would rise slightly for all workers and women more substantially in comparison to London and the South East. Therefore, it does not appear that the personal characteristics in our model are driving the higher job satisfaction found in Wales. 13 on found in Wales.

¹³ We also experimented with OLS and found that the major difference was in the intercept term, suggesting that omitted variables were driving the higher job satisfaction found in Wales.

CONCLUSIONS

The aim of this paper was to explain why job satisfaction should be significantly higher in Wales than in the rest of Britain, despite the lower GDP per head employment and earnings in that region. There are a number of possible explanations for these findings. First, the higher levels of inactivity and unemployment may lead to the in work state being regarded more favourably than where job openings are more plentiful.

We find that those individuals who had a period out of work in the last year and those who quit their last job voluntarily had higher levels of satisfaction in their current job, but this is not sufficient to remove the significantly higher job satisfaction in Wales. Further, job satisfaction is just as high in the economically depressed Objective One area of Wales as in the rest of Wales and, in the case of women, higher.

Another possibility is that the climate of industrial relations, as perceived by workers, is better in Wales than elsewhere and there is evidence for this from another study. (Drinkwater and Ingram 2003). This is important as Wales has relatively high union density, a factor which generally lowers job satisfaction. A third possibility is that workers in Wales are less concerned about their level of pay than workers elsewhere. Hourly wages are only significant at the 10% level for workers in Wales, as opposed to the 1% level for Britain as a whole and relative wages are insignificant, and for women in Wales hourly wages are insignificant too (though this is also the case elsewhere).

A final possibility is that the most dissatisfied workers in Wales tend to move out of the region and increase recorded job satisfaction for those who remain there, but because personal characteristics of those in Wales are not more favourable to high job satisfaction than in other regions suggests that this is not a major cause of the difference.

It may be that socio-psychological factors or cultural factors which we cannot control for are responsible for some of these differences. There is, for example, a particular Welsh culture and identity, reinforced by a separate language, which may play some part in increasing job satisfaction in addition to the factors which we have referred to in the paper. Whatever the cause there may be some labour market advantages for firms choosing to locate in Wales, given the combination of relatively higher job satisfaction and relatively low wages.

TABLE 1

	MEN	WOMEN	ALL WORKER
London and the South East	5.23	5.49	5.37
Rest of England	5.22	5.49	5.36
Scotland	5.15	5.46	5.32
Wales	5.40	5.67	5.54
Great Britain	5.23	5.49	5.37

Table 2A: Descriptive Statistics: Males and Females

Wales Wales									
		(including	(excluding						
		objective 1	objective 1		London and				
	National	variable)	variable)	Scotland	South East	Rest of England			
Job Satisfaction	5.32	5.45	5.45	5.31	5.26	5.31			
Gender	0.47	0.48	0.48	0.45	0.46	0.48			
Log usual real	0.47	0.40	0.40	0.43	0.40	0.40			
gross hourly									
wage	1.75	1.68	1.69	1.75	1.90	1.70			
Log usual hours	3.46	3.46	3.46	3.46	3.48	3.46			
Job Tenure	52.84	61.51	62.61	58.75	42.21	51.67			
Tenure Squared	7327.00	9104.82	9476.65	8573.86	5075.30	7054.03			
Age	37.24	37.68	37.92	36.75	37.71	37.01			
Age square	1509.22	1541.17	1558.39	1467.66	1556.90	1488.34			
University degree	0.17	0.14	0.13	0.20	0.22	0.15			
Vocational	0.17	0.14	0.13	0.20	0.22	0.13			
qualifications	0.31	0.30	0.30	0.28	0.32	0.32			
A - levels plus	0.15	0.15	0.15	0.17	0.13	0.14			
O - levels plus	0.20	0.19	0.20	0.19	0.18	0.21			
Commercial or	0.20	0.15	0.20	0.17	0.10	0.21			
Apprentice	0.07	0.08	0.08	0.04	0.07	0.08			
Married	0.56	0.60	0.62	0.55	0.52	0.57			
Mortgage house	0.66	0.71	0.71	0.66	0.61	0.67			
Paid outright									
house	0.12	0.14	0.15	0.08	0.13	0.12			
Promotion									
Opportunities	0.52	0.51	0.51	0.55	0.53	0.50			
Public Sector	0.32	0.35	0.35	0.38	0.32	0.28			
Works mornings									
only	0.05	0.06	0.05	0.04	0.05	0.05			
Works evenings	0.05	0.05	0.05	0.05	0.02	0.05			
or nights Variable shift	0.05	0.05	0.05	0.05	0.03	0.05			
patterns	0.13	0.17	0.17	0.16	0.09	0.13			
Fair health	0.23	0.21	0.21	0.21	0.23	0.24			
Good health	0.23	0.43	0.43	0.44	0.48	0.46			
Excellent health	0.40	0.43	0.43	0.44	0.48	0.40			
Trade union	0.23	0.28	0.28	0.28	0.23	0.22			
member	0.32	0.40	0.40	0.35	0.24	0.31			
Temporary Job	0.06	0.06	0.05	0.06	0.06	0.05			
Incremental pay	0.47	0.45	0.44	0.54	0.47	0.44			
Part Time	0.80	0.79	0.79	0.80	0.82	0.79			
Travel Time	23.32	20.23	20.31	23.08	29.32	21.50			
Size 25 - 99	0.26	0.25	0.25	0.26	0.26	0.25			
Size 100 - 499	0.23	0.23		0.20	0.20	0.25			
Size 500 plus			0.23						
•	0.18	0.18	0.18	0.20	0.19	0.17			
Utilities	0.02	0.02	0.02	0.02	0.01	0.01			
Construction	0.03	0.04	0.05	0.02	0.02	0.04			
Retail	0.08	0.09	0.09	0.07	0.07	0.09			
Catering	0.08	0.10	0.09	0.07	0.06	0.09			
Transport	0.03	0.04	0.04	0.03	0.03	0.03			
Financial	0.19	0.19	0.18	0.18	0.18	0.20			

Other business	0.06	0.05	0.05	0.06	0.06	0.07
Public	0.13	0.09	0.10	0.12	0.19	0.12
Other	0.36	0.37	0.37	0.41	0.37	0.33
Professional	0.10	0.10	0.10	0.10	0.12	0.09
Associate						
Professional	0.12	0.10	0.10	0.14	0.15	0.11
Clerical	0.19	0.17	0.17	0.18	0.20	0.19
Services	0.21	0.23	0.23	0.21	0.18	0.22
Sales	0.08	0.07	0.07	0.08	0.07	0.08
Operative and						
Assembly	0.09	0.12	0.12	0.07	0.05	0.11
Other	0.08	0.08	0.08	0.09	0.06	0.08
Voluntarily Quit	0.09	0.07	0.07	0.10	0.10	0.09
Number of weeks						
not employed in						
the last year	3.06	3.10	2.99	3.58	3.21	2.75
Wave10	0.34	0.34	0.34	0.34	0.33	0.34
Wave11	0.32	0.32	0.32	0.32	0.32	0.32
Rest of England	0.42					
London and						
South East	0.21					
Scotland	0.21					
Objective one		0.61				
area		0.61				

Table 2B: Descriptive Statistics: Males Only

Table 2B: Desc	riptive Statis		-			
		Wales	Wales			
		(including	(Excluding			
	N T 4* 1	objective 1	objective 1	G 41 1	London and	D 4 6E 1 1
	National	variable)	variable)	Scotland	South East	Rest of England
Job	7.0 0	~ O.4				7 10
Satisfaction	5.20	5.34	5.35	5.17	5.14	5.18
Log usual real						
gross hourly						
wage	1.88	1.80	1.82	1.84	2.05	1.83
Log usual						
hours	3.64			3.61	3.64	
Job Tenure	56.07	66.82	67.78	64.88	43.28	53.79
Tenure						
Squared	8497.39	10848.60	11165.59	10660.75	5598.66	7897.62
Age	37.34	37.36	37.71	36.91	38.08	37.05
Age square	1522.37	1520.52	1547.11	1489.94	1588.19	1496.66
University						
degree	0.18	0.15	0.15	0.20	0.24	0.16
Vocational						
qualifications	0.32	0.33	0.33	0.29	0.32	0.34
A - levels plus	0.15	0.14	0.14	0.19	0.13	0.14
O - levels plus	0.17		0.18	0.18	0.16	
Commercial or	0.17	0.17	0.10	0.10	0.10	0.10
Apprentice	0.07	0.07	0.07	0.04	0.06	0.09
Married	0.57		0.61	0.56		
Mortgage	0.57	0.00	0.01	0.50	0.54	0.57
house	0.66	0.72	0.72	0.67	0.61	0.66
Paid outright	0.00	0.72	0.72	0.07	0.01	0.00
house	0.12	0.14	0.14	0.08	0.14	0.12
Promotion	0.12	0.14	0.14	0.00	0.14	0.12
Opportunities	0.56	0.55	0.54	0.58	0.57	0.54
Public Sector	0.22			0.38		
Works	0.22	0.23	0.24	0.28	0.23	0.17
	0.02	0.03	0.03	0.02	0.02	0.02
mornings only Works	0.02	0.03	0.03	0.02	0.02	0.02
evenings or						
nights	0.04	0.04	0.03	0.05	0.03	0.04
Variable shift	0.04	0.04	0.03	0.03	0.03	0.04
patterns	0.17	0.22	0.22	0.18	0.12	0.17
Fair health						
	0.22		0.20	0.21	0.22	
Good health	0.45	0.43	0.43	0.44	0.45	0.45
Excellent	0.07	0.20	0.20	0.20	0.07	0.24
health	0.27	0.29	0.29	0.29	0.27	0.24
Trade union	0.21	0.41	0.42	0.22	0.22	0.21
member	0.31	0.41	0.42	0.33	0.23	
Temporary Job	0.05	0.05	0.04	0.05	0.05	0.04
Incremental	0.40			0.40	0.40	0.40
pay	0.43		0.41	0.49		
Part Time	0.96	0.96	0.96	0.94	0.96	0.96
Travel Time	25.71	22.52	22.97	24.50	33.34	23.58
Size 25 - 99	0.26	0.26	0.26	0.26	0.24	0.26
Size 100 - 499	0.27			0.24		
Size 500 plus	0.19			0.23		
sic2	0.03			0.23		
sic3	0.05	0.08	0.08	0.03	0.03	0.06

sic4	0.14	0.15	0.16	0.12	0.12	0.15
sic5	0.11	0.14	0.13	0.10	0.07	0.13
sic6	0.06	0.08	0.08	0.07	0.05	0.06
sic7	0.15	0.12	0.12	0.14	0.15	0.16
sic8	0.09	0.08	0.07	0.09	0.10	0.10
sic9	0.14	0.09	0.09	0.13	0.21	0.13
sic10	0.22	0.23	0.23	0.27	0.25	0.19
Professional	0.10	0.10	0.11	0.10	0.12	0.09
Associate						
Professional	0.11	0.07	0.07	0.11	0.15	0.10
Clerical	0.11	0.09	0.09	0.13	0.10	0.10
Services	0.25	0.27	0.27	0.26	0.21	0.25
Sales	0.04	0.03	0.03	0.04	0.05	0.04
Operative and						
Assembly	0.15	0.20	0.20	0.12	0.09	0.18
Other	0.07	0.09	0.08	0.08	0.06	0.08
Voluntarily				0.00	0.4-	
Quit	0.10	0.07	0.08	0.09	0.12	0.09
Number of weeks not						
employed in						
the last year	2.41	2.72	2.59	2.79	2.57	2.08
Wave10	0.34	0.34	0.34	0.34	0.33	0.34
Wave11	0.32	0.31	0.31	0.32	0.33	0.31
Rest of						
England	0.43					
London and						
South East	0.21					
Scotland	0.20					
Objective one						
area		0.61				

Table 2C: Descriptive Statistics: Females Only

Table 2C: Descriptive Statistics: Females Only								
		Wales	Wales					
		(including	(Excluding					
	37 .A 1	objective 1	objective 1		London and	D (45 1 1		
	National	variable)	variable)	Scotland		Rest of England		
Job Satisfaction	5.43	5.54	5.54	5.41	5.37	5.43		
Log usual real gross hourly								
wage	1.64	1.57	1.57	1.67	1.78	1.58		
Log usual hours	3.31	3.28	3.29	3.34	3.34	3.28		
Job Tenure								
	49.98	56.58	57.75	53.75				
Tenure Squared	6291.87	7481.82	7888.88	6871.15				
Age	37.15	37.98	38.11	36.61	37.39	36.96		
Age square	1497.59	1560.39	1569.00	1449.48	1530.19	1480.71		
University								
degree	0.16	0.13	0.12	0.20	0.20	0.14		
Vocational								
qualifications	0.29	0.28	0.28	0.28	0.32	0.29		
A - levels plus	0.15	0.16	0.15	0.17	0.13	0.14		
O - levels plus	0.22	0.22	0.22	0.20	0.20	0.24		
Commercial or								
Apprentice	0.07	0.09	0.09	0.05	0.07	0.07		
Married	0.56	0.61	0.62	0.54	0.50	0.57		
Mortgage								
house	0.66	0.70	0.70	0.65	0.61	0.69		
Paid outright								
house	0.11	0.15	0.15	0.08	0.13	0.11		
Promotion								
Opportunities	0.49	0.47	0.48	0.53	0.50	0.47		
Public Sector	0.41	0.45	0.44	0.46	0.39	0.38		
Works								
mornings only	0.07	0.08	0.07	0.06	0.07	0.07		
Works								
evenings or								
nights	0.05	0.07	0.07	0.05	0.04	0.06		
Variable shift								
patterns	0.10	0.12	0.12	0.14		0.09		
Fair health	0.23	0.22	0.21	0.22	0.24	0.25		
Good health	0.47	0.44	0.44	0.45	0.50	0.47		
Excellent								
health	0.23	0.27	0.27	0.27	0.20	0.20		
Trade union								
member	0.32	0.38	0.38	0.37	0.25	0.31		
Temporary Job	0.06	0.06	0.06	0.06	0.07	0.06		
Incremental								
pay	0.50	0.48	0.47	0.58	0.51	0.47		
Part Time	0.66	0.64	0.64	0.68	0.70	0.63		
Travel Time	21.21	18.10	17.80	21.93	25.89	19.60		
Size 25 - 99	0.26	0.25	0.25	0.27				
Size 100 - 499	0.20	0.18	0.18	0.19				
Size 500 plus	0.20	0.17	0.16	0.17				
sic2	0.17	0.17	0.10	0.17				
sic3	0.01	0.01	0.01	0.01				
sic4	0.03		0.04	0.03				
sic5	0.05	0.06	0.06	0.05	0.05	0.06		

sic6	0.01	0.01	0.01	0.01	0.01	0.01
sic7	0.23	0.24	0.25	0.22	0.21	0.24
sic8	0.04	0.03	0.03	0.04	0.03	0.04
sic9	0.13	0.10	0.10	0.12	0.18	0.12
sic10	0.48	0.50	0.50	0.52	0.47	0.45
Professional	0.10	0.09	0.09	0.10	0.12	0.09
Associate	0.10	0.07	0.07	0.10	0.12	0.07
Professional	0.13	0.13	0.13	0.16	0.15	0.11
Clerical	0.26	0.25	0.25	0.22	0.29	0.28
Services	0.18	0.20	0.20	0.17	0.16	0.18
Sales	0.11	0.12	0.11	0.12	0.09	0.11
Operative and						
Assembly	0.04	0.05	0.05	0.04	0.02	0.04
Other	0.08	0.07	0.07	0.09	0.06	0.08
Voluntarily						
Quit	0.09	0.07	0.07	0.10	0.09	0.09
Number of						
weeks not						
employed in	2.55	2.45	2.24	4.00	2.75	2.20
the last year	3.65	3.46	3.36	4.22	3.76	3.38
Wave10	0.33	0.33	0.33	0.33	0.34	0.34
Wave11	0.32	0.32	0.32	0.33	0.31	0.32
Rest of	0.41					
England London and	0.41					
South East	0.22					
Scotland	0.22					
Objective one	0.22					
area		0.61				
		0.01				

Table 3A: OVERALL JOB SATISFACTION - Males and Females							
14010 0111 0 122	National			th objective	e WALES without		
			1 variable	ū	objective 1	variable	
	(1)	(2)	(3)	(4)	(5)	(6)	
Gender	-0.218***	-0.205***	-0.204**	-0.221***	-0.158**	-0.175**	
	(6.785)	(6.393)	(2.401)	(2.584)	(1.965)	(2.169)	
Log usual real	0.180***	0.120***	0.181*	0.125	0.154*	0.111	
gross hourly	(5.263)	(3.661)	(1.912)	(1.355)	(1.717)	(1.272)	
wage							
Log usual hours	-0.214***	-0.221***	-0.112	-0.116	-0.073	-0.077	
	(4.195)	(4.341)	(0.878)	(0.904)	(0.597)	(0.632)	
Job Tenure	-0.002***	-0.002***	-0.002	-0.002	-0.003**	-0.002**	
	(4.534)	(3.185)	(1.559)	(1.156)	(2.327)	(1.970)	
Tenure Squared	0.000***	0.000***	0.000	0.000	0.000*	0.000**	
1	(3.121)	(3.071)	(1.093)	(1.293)	(1.939)	(2.179)	
Age	-0.023**	(2.3.2)	-0.001	(/	0.001	(=/	
8-	(2.550)		(0.060)		(0.050)		
A 22 2211242	0.000***		0.000		0.000		
Age square							
I Industrial	(3.306) -0.542***		(0.622)		(0.544) -0.533***		
University			-0.626***				
degree	(8.641) -0.327***		(3.912)		(3.528)		
Vocational			-0.403***		-0.338***		
qualifications	(6.332) -0.288***		(3.219) -0.438***		(2.888) -0.377***		
A - levels plus							
0 111	(5.034) -0.200***		(3.134)		(2.864)		
O - levels plus			-0.292**		-0.245**		
C	(3.791)		(2.289)		(2.060)		
Commercial or	-0.165**		-0.163		-0.246*		
Apprentice	(2.519)	0.100***	(1.058)	0.242***	(1.721)	0.252***	
Married	0.116***	0.188***	0.118	0.243***	0.130*	0.253***	
Mantagas hayas	(3.791)	(6.612)	(1.467)	(3.237)	(1.692)	(3.540)	
Mortgage house	-0.100***	-0.117***	-0.072	-0.134	-0.076	-0.131	
Daid autoialet	(2.986)	(3.487)	(0.698)	(1.303)	(0.773)	(1.343)	
Paid outright	-0.060	-0.011	-0.039	-0.019	-0.030	-0.006	
house	(1.236) 0.292***	(0.240) 0.264***	(0.301)	(0.145)	(0.241)	(0.049)	
Promotion Opportunities			0.261***	0.217***	0.272***	0.232***	
Public Sector	(11.336)	(10.366) -0.057	(3.700)	(3.090)	(4.102) 0.045	(3.523)	
rubiic Sector	-0.056	(1.304)	0.105 (0.884)	0.092		0.034	
Works	(1.268) 0.119*	0.149**	0.172	(0.776) 0.254*	(0.403) 0.159	(0.297) 0.226	
	(1.915)	(2.381)	(1.140)	(1.691)	(1.093)	(1.551)	
mornings only Works evenings	-0.139**	-0.139**	-0.019	-0.051	-0.065	-0.091	
or nights	(2.328)	(2.322)	(0.126)	(0.335)	(0.444)	(0.620)	
Variable shift	-0.033	-0.024	0.088	0.082	0.033	0.030	
patterns	(0.875)	(0.646)	(0.927)	(0.863)	(0.373)	(0.333)	
Fair health	0.873)	0.113**	0.092	0.092	0.077	0.077	
ran neam	(2.516)	(2.429)	(0.735)	(0.731)	(0.638)	(0.638)	
Good health	0.297***	0.282***	0.733)	0.267**	0.294**	0.273**	
Good Health							
E 11 (1 1d	(6.474)	(6.139)	(2.417)	(2.206)	(2.542)	(2.350) 0.457***	
Excellent health	0.520***	0.494***	0.485***	0.441***	0.492***		
TD 1 '	(10.471)	(9.950)	(3.805)	(3.450)	(4.028)	(3.736)	
Trade union	-0.217***	-0.212***	-0.344***	-0.343***	-0.288***	-0.284***	
member	(6.768)	(6.595)	(4.282)	(4.271)	(3.793)	(3.735)	
Temporary Job	-0.267***	-0.282***	-0.427***	-0.449***	-0.420***	-0.447***	
In anarra 1	(5.068)	(5.370)	(3.031)	(3.183)	(3.081)	(3.270)	
Incremental pay	0.203***	0.194***	0.307***	0.287***	0.292***	0.271***	
D T:	(7.968)	(7.624)	(4.440)	(4.139)	(4.456)	(4.132)	
Part Time	-0.139***	-0.125**	-0.115	-0.146	-0.218*	-0.244*	
	(2.617)	(2.328)	(0.829)	(1.050)	(1.654)	(1.833)	

Travel Time	-0.002**	-0.002*** (2.891)	-0.004** (2.032)	-0.004** (2.130)	-0.004** (2.153)	-0.004** (2.246)
Size 25 - 99	(2.517) -0.156*** (4.888)	-0.148*** (4.638)	-0.187** (2.150)	-0.167* (1.903)	-0.196** (2.384)	-0.181** (2.184)
Size 100 - 499	-0.217*** (6.193)	-0.207*** (5.840)	-0.088 (0.905)	-0.083 (0.833)	-0.108 (1.163)	-0.100 (1.064)
Size 500 plus	-0.199*** (5.136)	-0.190*** (4.871)	-0.206* (1.937)	-0.207* (1.916)	-0.207** (2.048)	-0.209** (2.034)
Voluntarily	0.321***	0.315***	0.237*	0.228*	0.228**	0.217*
Quit	(8.008)	(7.857)	(1.917)	(1.833)	(1.977)	(1.877)
Number of	0.005***	0.004***	0.009***	0.008**	0.008***	0.007**
weeks not	(4.077)	(3.398)	(2.839)	(2.514)	(2.615)	(2.312)
employed in the						
last year Wave10	-0.088***	-0.085***	0.046	0.051	0.056	0.062
wavelo	(3.757)	(3.632)	(0.725)	(0.798)	(0.929)	(1.030)
Wave11	-0.046*	-0.027	0.092	0.096	0.092	0.097
	(1.776)	(1.027)	(1.240)	(1.260)	(1.306)	(1.353)
Rest of England	-0.169***	-0.175***	` /	` /	,	,
-	(4.314)	(4.458)				
London and	-0.291***	-0.254***				
South East	(6.337)	(5.424)				
Scotland	-0.213***	-0.221***				
	(4.929)	(5.108)				
Log real		-0.364***		-0.105		-0.035
comparative		(3.399)		(0.364)		(0.128)
wage				0.4404		
Objective 1			0.122*	0.119*		
area	471444	4.25***	(1.690) -4.20***	(1.646)	2 00***	4 11444
Cut 1	-4.71*** (17.41)	-4.35*** (10.73)		-4.29*** (7.24)	-3.99***	-4.11***
Cut 2	(17.41) -4.07***	(19.73) -3.71***	(5.93) -3.54***	(7.24) -3.63***	(5.93) -3.35***	(7.32) -3.47***
Cut 2	(-15.14)	(-16.97)	(-5.05)	(-6.22)	(-5.03)	(-6.27)
Cut 3	-3.37***	-3.01***	-2.91***	-3.00***	-2.71***	-2.84***
Cut 5	(-12.59)	(-13.85)	(-4.18)	(-5.19)	(-4.10)	(-5.17)
Cut 4	-2.93***	-2.57***	-2.47***	-2.57***	-2.27***	-2.40***
	(-10.96)	(-11.85)	(-3.57)	(-4.47)	(-3.44)	(-4.39)
Cut 5	-1.97***	-1.61***	-1.52**	-1.62***	-1.33**	-1.46***
	(-7.42)	(-7.50)	(-2.20)	(-2.84)	(-2.03)	(-2.70)
Cut 6	0.08	0.44**	0.53	0.42	0.68	0.55
	(0.33)	(2.05)	(0.78)	(0.75)	(1.05)	(1.03)
Log likelihood	-22334	-22388	-3052	-3069	-3333	-3349
Observations	15916	15911	2230	2229	2429	2428
		13711			>	_ 120

Absolute value of z statistics in parentheses

^{*}significant at 10%; ** significant at 5%; *** significant at 1%

	Scot	land		and South	Rest of	England
Gender	(7) -0.204***	(8) -0.170***	(9) -0.259***	(10) -0.246***	(11) -0.241***	(12) -0.231***
Gender	(3.172)	(2.638)	(3.801)	(3.597)	(4.542)	(4.349)
Log usual real gross	0.138*	0.088	0.155**	0.105	0.239***	0.169***
hourly wage	(1.922)	(1.282)	(2.192)	(1.569)	(4.234)	(3.104)
Log usual hours	-0.049	-0.066	-0.219**	-0.215**	-0.367***	-0.389***
	(0.431)	(0.576)	(2.026)	(1.983)	(4.512)	(4.783)
Job Tenure	-0.002*	-0.001	-0.003**	-0.002*	-0.002**	-0.001
	(1.946)	(1.431)	(2.483)	(1.774)	(2.206)	(1.292)
Tenure Squared	0.000	0.000	0.000**	0.000**	0.000	0.000
	(1.073)	(1.572)	(2.435)	(2.044)	(0.705)	(0.570)
Age	-0.068***		0.001		-0.017	
	(3.646)		(0.038)		(1.201)	
Age square	0.001***		0.000		0.000	
I I nim mitter de me	(4.339)		(0.066)		(1.461)	
University degree	-0.269**		-0.629***		-0.678***	
Vocational	(2.062) -0.159		(4.472) -0.456***		(6.536) -0.349***	
qualifications	(1.448)		(3.688)		(4.204)	
A - levels plus	-0.087		-0.315**		-0.337***	
F	(0.752)		(2.291)		(3.585)	
O - levels plus	-0.003		-0.456***		-0.178**	
•	(0.027)		(3.530)		(2.101)	
Commercial or	-0.049		-0.241		-0.198*	
Apprentice	(0.311)		(1.548)		(1.940)	
Married	0.102	0.174***	0.068	0.118*	0.143***	0.207***
Mantagas	(1.588)	(2.901)	(1.016)	(1.933)	(2.926)	(4.521)
Mortgage house	-0.116*	-0.121*	0.082	0.070	-0.204***	-0.222***
Paid outright house	(1.692) 0.053	(1.760) 0.161	(1.193) 0.162*	(1.032) 0.185*	(3.753) -0.229***	(4.098) -0.201***
r and oddright house	(0.474)	(1.456)	(1.660)	(1.934)	(2.943)	(2.647)
Promotion	0.243***	0.191***	0.216***	0.205***	0.369***	0.352***
Opportunities	(4.327)	(3.451)	(3.941)	(3.774)	(9.137)	(8.767)
Public Sector	-0.007	0.018	-0.125	-0.143	-0.062	-0.070
	(0.074)	(0.189)	(1.372)	(1.576)	(0.870)	(0.972)
Works mornings only	0.232	0.226	0.005	0.053	0.115	0.132
	(1.574)	(1.526)	(0.041)	(0.401)	(1.170)	(1.339)
Works evenings or	-0.032	-0.041	-0.258*	-0.248*	-0.185**	-0.183**
nights	(0.259)	(0.332)	(1.735)	(1.671)	(2.025)	(1.999)
Variable shift patterns	-0.015 (0.196)	-0.016 (0.207)	-0.029 (0.314)	-0.022 (0.237)	-0.060 (1.004)	-0.047 (0.786)
Fair health	0.040	0.032	0.193*	0.188*	0.134*	0.132*
T dir ficultii	(0.371)	(0.294)	(1.886)	(1.833)	(1.930)	(1.898)
Good health	0.195*	0.187*	0.439***	0.415***	0.282***	0.272***
	(1.854)	(1.768)	(4.333)	(4.102)	(4.050)	(3.907)
Excellent health	0.483***	0.451***	0.662***	0.636***	0.481***	0.460***
	(4.316)	(4.026)	(6.010)	(5.782)	(6.265)	(5.996)
Trade union member	-0.245***	-0.235***	-0.217***	-0.216***	-0.177***	-0.167***
	(3.645)	(3.479)	(2.954)	(2.930)	(3.417)	(3.240)
Temporary Job	-0.325***	-0.312***	-0.191*	-0.210**	-0.225***	-0.248***
Ingramantal par-	(2.844)	(2.733) 0.246***	(1.789) 0.244***	(1.980)	(2.615)	(2.888)
Incremental pay	0.255*** (4.624)	(4.452)	(4.473)	0.240*** (4.400)	0.125*** (3.142)	0.119*** (2.981)
Part Time	-0.380***	-0.336***	-0.120	-0.122	0.037	0.058
I are I mile	(3.359)	(2.915)	(1.010)	(1.016)	(0.445)	(0.683)
Travel Time	-0.004***	-0.004***	-0.000	-0.000	-0.001	-0.002
	(2.619)	(2.649)	(0.053)	(0.255)	(1.237)	(1.475)
				•		•

Size 25 - 99	-0.061	-0.041	-0.093	-0.089	-0.231***	-0.229***
	(0.901)	(0.599)	(1.365)	(1.291)	(4.596)	(4.527)
Size 100 - 499	-0.200***	-0.190**	-0.201***	-0.186**	-0.281***	-0.273***
	(2.652)	(2.490)	(2.662)	(2.437)	(5.148)	(4.952)
Size 500 plus	-0.131	-0.108	-0.152*	-0.137*	-0.263***	-0.250***
Eller Coo Fina	(1.636)	(1.340)	(1.859)	(1.657)	(4.157)	(3.931)
Voluntarily Quit	0.241***	0.228***	0.355***	0.353***	0.382***	0.380***
Voluntarily Quit	(2.741)	(2.586)	(4.406)	(4.389)	(6.122)	(6.082)
Number of weeks not	0.004	0.003	0.005**	0.004*	0.004**	0.002)
employed in the last	(1.573)	(1.321)	(2.110)	(1.874)	(2.021)	(1.534)
	(1.575)	(1.321)	(2.110)	(1.674)	(2.021)	(1.554)
year Wave10	-0.103**	-0.093*	-0.127**	-0.130***	-0.109***	-0.108***
wavelu						
XX 11	(2.007)	(1.802)	(2.526)	(2.579)	(3.016)	(2.993)
Wave11	-0.086	-0.059	-0.065	-0.058	-0.062	-0.039
	(1.430)	(0.978)	(1.241)	(1.094)	(1.587)	(0.979)
Log real		-0.473*		-0.275		-0.452***
comparative wage		(1.915)		(1.167)		(2.786)
Cut 1	-4.86***	-3.94***	-4.16***	-3.93***	-4.84***	-4.57***
	(8.35)	(8.17)	(6.97)	(8.10)	(11.37)	(13.36)
Cut 2	-4.14***	-3.23***	-3.49***	-3.26***	-4.24***	-3.97***
	(-7.20)	(-6.77)	(-5.88)	(-6.77)	(-10.01)	(-11.69)
Cut 3	-3.45***	-2.53***	-2.74***	-2.51***	-3.53***	-3.26***
	(-6.03)	(-5.36)	(-4.64)	(-5.25)	(-8.37)	(-9.65)
Cut 4	-3.01***	-2.10***	-2.32***	-2.09***	-3.07***	-2.80***
	(-5.28)	(-4.45)	(-3.93)	(-4.38)	(-7.29)	(-8.31)
C4.5	1			, ,		, ,
Cut 5	-2.09***	-1.18**	-1.40**	-1.17**	-2.06***	-1.80***
	(-3.69)	(-2.51)	(-2.38)	(-2.47)	(-4.92)	(-5.37)
Cut 6	0.01	0.91*	0.70	0.91*	0.01	0.26
	(0.02)	(1.94)	(1.19)	(1.93)	(0.02)	(0.79)
Log likelihood	-4819	-4837	-4725	-4737	-9350	-9374
-						
Observations	3403	3402	3392	3391	6692	6690

Absolute value of z statistics in parentheses

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Table 3B: OVERALL JOB SATISFACTION - MALES

Table 3B: OVERALL JOB SATISFACTION - MALES							
	Nati	onal	WALES v	vith	WALES w	vithout	
			objective 1	variable	objective 1	variable	
	(1)	(2)	(3)	(4)	(5)	(6)	
Log usual real gross	0.328***	0.264***	0.331**	0.315**	0.324**	0.328**	
hourly wage	(6.282)	(5.306)	(2.203)	(2.155)	(2.280)	(2.380)	
Log usual hours	-0.266**	-0.286**	-0.442	-0.384	-0.221	-0.172	
. 8	(2.270)	(2.444)	(1.424)	(1.231)	(0.738)	(0.571)	
Job Tenure	-0.002***	-0.001**	-0.002	-0.001	-0.002	-0.002	
	(2.964)	(2.013)	(0.827)	(0.423)	(1.225)	(0.827)	
Tenure Squared	0.000**	0.000**	0.000	0.000	0.000	0.000	
remare squares	(2.171)	(2.069)	(0.700)	(0.628)	(1.192)	(1.163)	
Age	-0.031**	(2.00)	0.061	(0.020)	0.059*	(11100)	
1-50	(2.274)		(1.631)		(1.679)		
A			,				
Age square	0.000***		-0.001		-0.001		
TT : 1/2 1	(2.655)		(1.380)		(1.354)		
University degree	-0.578***		-0.762***		-0.640***		
	(6.175)		(3.105)		(2.746)		
Vocational	-0.359***		-0.567***		-0.574***		
qualifications	(4.662)		(3.041)		(3.232)		
A - levels plus	-0.337***		-0.633***		-0.569***		
	(3.895)		(2.900)		(2.755)		
O - levels plus	-0.234***		-0.437**		-0.405**		
	(2.877)		(2.195)		(2.173)		
Commercial or	-0.185*		-0.178		-0.286		
Apprentice	(1.850)		(0.731)		(1.238)		
Married	0.042	0.113***	-0.078	0.099	-0.056	0.126	
	(0.889)	(2.589)	(0.601)	(0.818)	(0.454)	(1.107)	
Mortgage house	-0.158***	-0.175***	-0.110	-0.186	-0.123	-0.196	
	(3.098)	(3.445)	(0.678)	(1.133)	(0.796)	(1.259)	
Paid outright house	-0.056	-0.017	-0.008	-0.069	-0.070	-0.103	
	(0.776)	(0.234)	(0.038)	(0.332)	(0.360)	(0.527)	
Promotion	0.370***	0.346***	0.393***	0.356***	0.383***	0.359***	
Opportunities	(9.566)	(9.037)	(3.624)	(3.269)	(3.760)	(3.518)	
Public Sector	-0.146**	-0.151**	0.018	0.039	-0.047	-0.039	
	(2.041)	(2.101)	(0.099)	(0.209)	(0.268)	(0.218)	
Works mornings only	-0.052	-0.022	0.042	0.128	0.080	0.145	
	(0.390)	(0.169)	(0.145)	(0.435)	(0.280)	(0.501)	
Works evenings or	-0.246**	-0.240**	-0.490*	-0.464	-0.433	-0.426	
nights	(2.502)	(2.443)	(1.745)	(1.636)	(1.594)	(1.554)	
Variable shift patterns	-0.082	-0.076	-0.162	-0.167	-0.146	-0.162	
•	(1.559)	(1.453)	(1.164)	(1.176)	(1.108)	(1.211)	
Fair health	0.311***	0.307***	0.397**	0.368*	0.324*	0.296	
	(4.376)	(4.305)	(2.081)	(1.906)	(1.744)	(1.579)	
Good health	0.469***	0.455***	0.562***	0.503***	0.537***	0.477***	
	(6.648)	(6.449)	(3.002)	(2.662)	(2.960)	(2.608)	
Excellent health	0.703***	0.675***	0.884***	0.780***	0.823***	0.725***	
	(9.272)	(8.926)	(4.451)	(3.903)	(4.296)	(3.767)	
Trade union member	-0.133***	-0.126**	-0.381***	-0.374***	-0.375***	-0.365***	
	(2.719)	(2.571)	(3.042)	(2.947)	(3.163)	(3.047)	
Temporary Job	-0.309***	-0.318***	-0.664***	-0.638***	-0.675***	-0.656***	
	(3.565)	(3.654)	(2.715)	(2.582)	(2.875)	(2.767)	
Incremental pay	0.219***	0.212***	0.317***	0.280***	0.305***	0.271***	
merementar pay	(5.785)	(5.618)	(3.103)	(2.724)	(3.159)	(2.789)	
Part Time	-0.206	-0.185	-0.255	-0.268	-0.544	-0.562	
- 320 - 2220	(1.447)	(1.296)	(0.623)	(0.645)	(1.395)	(1.422)	
Travel Time	-0.002*	-0.002**	-0.008***	-0.008***	-0.008***	-0.008***	
Havel Hille	(1.928)	(2.064)	(2.979)	(2.821)	(3.206)	(3.123)	
Size 25 - 99	-0.219***	-0.213***	-0.186	-0.168	-0.204	-0.187	
5120 23 - JJ	(4.446)	(4.293)	(1.345)	(1.193)	(1.544)	(1.390)	
	(1.170)	(7.273)	(1.575)	(1.173)	(1.577)	(1.370)	

Size 100 - 499 Size 500 plus	-0.272*** (5.173) -0.243*** (4.113)	-0.261*** (4.904) -0.233*** (3.926)	-0.060 (0.400) -0.064 (0.381)	-0.083 (0.544) -0.091 (0.529)	-0.079 (0.552) -0.121 (0.764)	-0.100 (0.683) -0.153 (0.943)
Voluntarily Quit	0.349*** (5.880)	0.341*** (5.723)	0.319* (1.704)	0.328* (1.736)	0.316* (1.823)	0.324* (1.848)
Number of weeks not employed in the last	0.008*** (3.851)	0.007*** (3.508)	0.016*** (2.885)	0.015*** (2.608)	0.015*** (2.802)	0.014** (2.548)
year Wave10	-0.049	-0.055	0.068	0.078	0.102	0.111
,, a, c, c	(1.434)	(1.582)	(0.714)	(0.822)	(1.133)	(1.221)
Wave11	-0.059	-0.086**	0.028	0.031	0.046	0.049
D	(1.543)	(2.189)	(0.249)	(0.262)	(0.430)	(0.443)
Rest of England	-0.236*** (4.006)	-0.237*** (4.016)				
London and South East	-0.403***	-0.342***				
	(5.750)	(4.795)				
Scotland	-0.271***	-0.270***				
	(4.132)	(4.111)				
Log real comparative wage		-0.569*** (3.289)		0.064 (0.135)		0.007 (0.016)
		(3.209)				(0.010)
Objective Larea			0.121	() 144		
Objective 1 area			0.121 (1.060)	0.144 (1.241)		
Objective 1 area	-5.05***	-4.63***	0.121 (1.060) -4.23***	0.144 (1.241) -4.93***	-3.62***	-4.35***
Objective 1 area Cut 1	(-10.88)	(-11.07)	(1.060) -4.23*** (-3.48)	(1.241) -4.93*** (-4.36)	(-3.11)	(-4.02)
Cut 1	(-10.88) -4.38***	(-11.07) -3.96***	(1.060) -4.23*** (-3.48) -3.57***	(1.241) -4.93*** (-4.36) -4.26***	(-3.11) -2.97**	(-4.02) -3.71***
· ·	(-10.88) -4.38*** (-9.50)	(-11.07) -3.96*** (-9.53)	(1.060) -4.23*** (-3.48) -3.57*** (-2.96)	(1.241) -4.93*** (-4.36) -4.26*** (-3.80)	(-3.11) -2.97** (-2.57)	(-4.02) -3.71*** (-3.45)
Cut 1 Cut 2	(-10.88) -4.38*** (-9.50) -3.65***	(-11.07) -3.96*** (-9.53) -3.22***	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97**	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66***	(-3.11) -2.97** (-2.57) -2.37*	(-4.02) -3.71*** (-3.45) -3.10***
Cut 1	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93)	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79)	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47)	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28)	(-3.11) -2.97** (-2.57) -2.37* (-2.06)	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90)
Cut 1 Cut 2	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80)	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53)	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97**	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66***	(-3.11) -2.97** (-2.57) -2.37*	(-4.02) -3.71*** (-3.45) -3.10***
Cut 1 Cut 2 Cut 3 Cut 4	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80) -2.11***	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53) -1.69***	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47) -2.39* (-2.00) -1.31	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28) -3.08*** (-2.77) -1.99*	(-3.11) -2.97** (-2.57) -2.37* (-2.06) -1.79 (-1.56) -0.73	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90) -2.51** (-2.37) -1.45
Cut 1 Cut 2 Cut 3	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80) -2.11*** (-4.61)	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53) -1.69*** (-4.10)	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47) -2.39* (-2.00) -1.31 (-1.10)	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28) -3.08*** (-2.77) -1.99* (-1.81)	(-3.11) -2.97** (-2.57) -2.37* (-2.06) -1.79 (-1.56) -0.73 (-0.64)	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90) -2.51** (-2.37) -1.45 (-1.37)
Cut 1 Cut 2 Cut 3 Cut 4 Cut 5	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80) -2.11*** (-4.61) 0.04	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53) -1.69*** (-4.10) 0.46	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47) -2.39* (-2.00) -1.31 (-1.10) 0.94	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28) -3.08*** (-2.77) -1.99* (-1.81) 0.27	(-3.11) -2.97** (-2.57) -2.37* (-2.06) -1.79 (-1.56) -0.73 (-0.64) 1.50	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90) -2.51** (-2.37) -1.45 (-1.37) 0.80
Cut 1 Cut 2 Cut 3 Cut 4	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80) -2.11*** (-4.61)	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53) -1.69*** (-4.10)	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47) -2.39* (-2.00) -1.31 (-1.10)	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28) -3.08*** (-2.77) -1.99* (-1.81)	(-3.11) -2.97** (-2.57) -2.37* (-2.06) -1.79 (-1.56) -0.73 (-0.64)	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90) -2.51** (-2.37) -1.45 (-1.37)
Cut 1 Cut 2 Cut 3 Cut 4 Cut 5 Cut 6	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80) -2.11*** (-4.61) 0.04 (0.08)	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53) -1.69*** (-4.10) 0.46 (1.11)	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47) -2.39* (-2.00) -1.31 (-1.10) 0.94 (0.79)	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28) -3.08*** (-2.77) -1.99* (-1.81) 0.27 (0.25)	(-3.11) -2.97** (-2.57) -2.37* (-2.06) -1.79 (-1.56) -0.73 (-0.64) 1.50 (1.32)	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90) -2.51** (-2.37) -1.45 (-1.37) 0.80 (0.76)
Cut 1 Cut 2 Cut 3 Cut 4 Cut 5	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80) -2.11*** (-4.61) 0.04	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53) -1.69*** (-4.10) 0.46	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47) -2.39* (-2.00) -1.31 (-1.10) 0.94	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28) -3.08*** (-2.77) -1.99* (-1.81) 0.27	(-3.11) -2.97** (-2.57) -2.37* (-2.06) -1.79 (-1.56) -0.73 (-0.64) 1.50	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90) -2.51** (-2.37) -1.45 (-1.37) 0.80
Cut 1 Cut 2 Cut 3 Cut 4 Cut 5 Cut 6	(-10.88) -4.38*** (-9.50) -3.65*** (-7.93) -3.12*** (-6.80) -2.11*** (-4.61) 0.04 (0.08) -10713	(-11.07) -3.96*** (-9.53) -3.22*** (-7.79) -2.70*** (-6.53) -1.69*** (-4.10) 0.46 (1.11) -10734	(1.060) -4.23*** (-3.48) -3.57*** (-2.96) -2.97** (-2.47) -2.39* (-2.00) -1.31 (-1.10) 0.94 (0.79)	(1.241) -4.93*** (-4.36) -4.26*** (-3.80) -3.66*** (-3.28) -3.08*** (-2.77) -1.99* (-1.81) 0.27 (0.25)	(-3.11) -2.97** (-2.57) -2.37* (-2.06) -1.79 (-1.56) -0.73 (-0.64) 1.50 (1.32)	(-4.02) -3.71*** (-3.45) -3.10*** (-2.90) -2.51** (-2.37) -1.45 (-1.37) 0.80 (0.76)

	Scot	Scotland London and South East		Rest of England		
	(7)	(8)	(9)	(10)	(11)	(12)
Log usual real gross	0.215**	0.152	0.220*	0.176	0.443***	0.373***
hourly wage	(2.064)	(1.527)	(1.929)	(1.635)	(5.178)	(4.538)
Log usual hours	-0.235	-0.288	-0.607**	-0.600**	-0.166	-0.194
	(1.004)	(1.223)	(2.266)	(2.246)	(0.853)	(1.002)
Job Tenure	-0.002	-0.002	-0.004**	-0.003*	-0.001	-0.001
	(1.495)	(1.260)	(2.383)	(1.901)	(1.246)	(0.579)
Tenure Squared	0.000	0.000	0.000**	0.000**	0.000	0.000
	(0.656)	(1.108)	(2.458)	(2.164)	(0.268)	(0.109)
Age	-0.109***		-0.009		-0.020	
	(3.986)		(0.295)		(0.922)	
Age square	0.002***		0.000		0.000	
	(4.532)		(0.335)		(0.918)	
University degree	-0.142		-0.529**		-0.795***	
	(0.718)		(2.513)		(5.208)	
Vocational	0.058		-0.336*		-0.487***	
qualifications	(0.357)		(1.810)		(3.904)	
A - levels plus	0.067		-0.154		-0.450***	
	(0.388)		(0.743)		(3.151)	
O - levels plus	0.072		-0.420**		-0.275**	
	(0.435)		(2.079)		(2.071)	
Commercial or	0.111		-0.072		-0.391**	
Apprentice	(0.442)		(0.292)		(2.564)	
Married	0.153	0.208**	-0.177*	-0.122	0.119	0.171**
	(1.534)	(2.233)	(1.669)	(1.281)	(1.570)	(2.433)
Mortgage house	-0.150	-0.131	0.193*	0.179*	-0.346***	-0.369***
	(1.457)	(1.259)	(1.803)	(1.681)	(4.219)	(4.528)
Paid outright house	0.003	0.166	0.372**	0.387***	-0.225**	-0.230**
D	(0.015)	(1.003)	(2.488)	(2.638)	(1.967)	(2.057)
Promotion	0.335***	0.271***	0.309***	0.309***	0.426***	0.408***
Opportunities Public Sector	(3.949) -0.179	(3.231) -0.157	(3.647) -0.154	(3.679)	(7.098) -0.156	(6.852)
Public Sector	(1.238)	(1.073)	(1.001)	(1.061)	(1.269)	-0.163 (1.317)
Works mornings only	-0.091	-0.171	-0.512*	-0.470*	0.163	0.195
works mornings only	(0.272)	(0.503)	(1.825)	(1.677)	(0.749)	(0.894)
Works evenings or	-0.104	-0.123	-0.199	-0.200	-0.285*	-0.249*
nights	(0.528)	(0.620)	(0.817)	(0.824)	(1.909)	(1.662)
Variable shift patterns	-0.025	-0.041	-0.099	-0.092	-0.082	-0.070
, arraere sinite patterns	(0.224)	(0.371)	(0.759)	(0.705)	(1.007)	(0.860)
Fair health	0.310*	0.296*	0.394**	0.410***	0.283***	0.277***
	(1.847)	(1.750)	(2.533)	(2.630)	(2.642)	(2.579)
Good health	0.363**	0.371**	0.618***	0.611***	0.427***	0.416***
	(2.197)	(2.240)	(4.009)	(3.965)	(3.966)	(3.861)
Excellent health	0.679***	0.657***	0.892***	0.891***	0.598***	0.577***
	(3.886)	(3.754)	(5.383)	(5.379)	(5.103)	(4.932)
Trade union member	-0.104	-0.080	-0.137	-0.110	-0.071	-0.063
	(1.023)	(0.784)	(1.154)	(0.933)	(0.897)	(0.808)
Temporary Job	-0.474***	-0.414**	-0.427**	-0.430**	-0.094	-0.120
	(2.626)	(2.288)	(2.316)	(2.342)	(0.666)	(0.846)
Incremental pay	0.292***	0.299***	0.188**	0.179**	0.161***	0.162***
	(3.594)	(3.656)	(2.248)	(2.143)	(2.720)	(2.736)
Part Time	-0.270	-0.319	0.227	0.232	-0.227	-0.160
T. 1 T.	(0.941)	(1.097)	(0.707)	(0.727)	(1.008)	(0.706)
Travel Time	-0.004*	-0.004*	0.000	0.000	-0.001	-0.001
	(1.875)	(1.796)	(0.247)	(0.113)	(0.799)	(0.927)

Size 25 - 99	-0.151	-0.144	-0.013	0.005	-0.330***	-0.334***
SIZC 23 - 77	(1.410)	(1.337)	(0.116)	(0.043)	(4.305)	(4.318)
Size 100 - 499	-0.366***	-0.369***	-0.166	-0.143	-0.335***	-0.326***
512C 100 - 477	(3.152)	(3.121)	(1.457)	(1.236)	(4.107)	(3.931)
Size 500 plus	-0.252**	-0.214*	-0.252**	-0.231*	-0.268***	-0.251**
Size 300 pius	(2.085)	(1.766)	(1.990)	(1.812)	(2.767)	(2.575)
Voluntarily Ouit	0.265*	0.237*	0.419***	0.421***	0.336***	0.328***
Voluntarily Quit						
Number of weeks not	(1.937)	(1.719)	(3.493)	(3.511)	(3.661)	(3.579)
Number of weeks not	0.007*	0.007*	0.009**	0.008**	0.004	0.003
employed in the last	(1.710)	(1.718)	(2.052)	(2.001)	(1.070)	(0.833)
year	0.004	0.006	0.062	0.000	0.11644	0.105**
Wave10	0.004	0.006	-0.062	-0.089	-0.116**	-0.125**
***	(0.051)	(0.080)	(0.817)	(1.145)	(2.214)	(2.378)
Wave11	-0.101	-0.116	-0.058	-0.105	-0.104*	-0.137**
	(1.103)	(1.231)	(0.730)	(1.259)	(1.814)	(2.336)
Log real		-0.476		-0.683*		-0.675**
comparative wage		(1.188)		(1.771)		(2.547)
Cut 1	-5.66***	-4.36***	-5.52***	-5.37***	-4.56***	-4.15***
	(-5.94)	(-5.11)	(-5.18)	(-5.59)	(-6.02)	(-6.08)
Cut 2	-4.83***	-3.52***	-4.78***	-4.63***	-3.98***	-3.57***
	(-5.12)	(-4.18)	(-4.51)	(-4.85)	(-5.26)	(-5.24)
Cut 3	-4.14***	-2.84***	-3.96***	-3.81***	-3.19***	-2.78***
	(-4.43)	(-3.40)	(-3.75)	(-4.01)	(-4.23)	(-4.09)
Cut 4	-3.60***	-2.30***	-3.44***	-3.30***	-2.66***	-2.25***
	(-3.87)	(-2.76)	(-3.27)	(-3.48)	(-3.53)	(-3.31)
Cut 5	-2.69***	-1.39*	-2.42**	-2.28**	-1.59**	-1.18*
	(-2.90)	(-1.67)	(-2.31)	(-2.42)	(-2.11)	(-1.73)
Cut 6	-0.59	0.71	-0.14	0.01	0.56	0.96
	(-0.64)	(0.86)	(-0.13)	(0.01)	(0.74)	(1.42)
	. /		, ,	. ,	. ,	. /
Log Likelihood	-2234	-2248	-2171	-2175	-4572	-4584
Observations	1529	1528	1562	1561	3202	3201

Absolute value of z statistics in parentheses

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Table 3C: OVERALL JOB SATISFACTION - FEMALES

Table 3C: OVERALL JOB SATISFACTION - FEMALES						
	Nati	onal	WALE	S with	WALES	without
			objective	1 variable	objective	1 variable
	(1)	(2)	(3)	(4)	(5)	(6)
Log usual real gross	0.078*	0.026	0.072	-0.003	0.044	-0.020
hourly wage	(1.651)	(0.563)	(0.554)	(0.027)	(0.355)	(0.163)
Log usual hours	-0.162***	-0.170***	0.042	0.021	0.037	0.024
8	(2.860)	(2.989)	(0.291)	(0.147)	(0.270)	(0.181)
	(,	(,	(, ,	((/	(
Job Tenure	-0.002***	-0.002**	-0.003	-0.002	-0.004**	-0.003*
	(3.471)	(2.348)	(1.434)	(0.948)	(2.159)	(1.687)
	` /	,	, ,	` /	` /	` /
Tenure Squared	0.000**	0.000**	0.000	0.000	0.000*	0.000*
1	(2.138)	(2.095)	(1.021)	(1.074)	(1.789)	(1.830)
Age	-0.023*	,	-0.043	` /	-0.037	` /
6	(1.861)		(1.285)		(1.160)	
A go square	0.000**		0.001*		0.001*	
Age square						
I Indian acides de sus	(2.504)		(1.829)		(1.699)	
University degree	-0.519***		-0.522**		-0.411**	
	(6.063)		(2.332)		(1.972)	
Manational	-0.301***		0.202*		0.121	
Vocational			-0.303*		-0.131	
qualifications	(4.282)		(1.662)		(0.791)	
A 111	0.255***		0.251*		0.242	
A - levels plus	-0.255***		-0.351*		-0.242	
	(3.306)		(1.814)		(1.360)	
0 111	0.105***		0.207		0.107	
O - levels plus	-0.185***		-0.207		-0.107	
	(2.655)		(1.166)		(0.664)	
Communication	0.177**		0.177		0.202	
Commercial or	-0.177**		-0.177		-0.202	
Apprentice	(2.025)	0.242***	(0.850)	0.272444	(1.076)	0.262***
Married	0.169***	0.242***	0.273**	0.372***	0.276***	0.363***
36	(4.162)	(6.281)	(2.544)	(3.666)	(2.722)	(3.774)
Mortgage house	-0.071	-0.085*	0.009	-0.060	-0.009	-0.065
	(1.589)	(1.904)	(0.067)	(0.434)	(0.066)	(0.500)
Paid outright house	-0.090	-0.029	-0.007	0.044	0.034	0.083
	(1.372)	(0.452)	(0.041)	(0.258)	(0.210)	(0.511)
Promotion	0.233***	0.205***	0.179*	0.128	0.191**	0.149*
Opportunities	(6.720)	(5.955)	(1.856)	(1.340)	(2.111)	(1.666)
Public Sector	0.018	0.025	0.125	0.114	0.091	0.084
	(0.317)	(0.445)	(0.776)	(0.702)	(0.591)	(0.542)
Works mornings only	0.145**	0.174**	0.219	0.281	0.213	0.259
	(2.070)	(2.492)	(1.231)	(1.592)	(1.256)	(1.540)
Works evenings or	-0.067	-0.071	0.171	0.109	0.094	0.054
nights	(0.888)	(0.942)	(0.906)	(0.580)	(0.528)	(0.304)
Variable shift patterns	0.012	0.027	0.309**	0.301**	0.188	0.182
	(0.222)	(0.484)	(2.194)	(2.156)	(1.430)	(1.392)
Fair health	-0.028	-0.028	-0.134	-0.136	-0.089	-0.092
	(0.453)	(0.451)	(0.786)	(0.801)	(0.552)	(0.573)
Good health	0.167***	0.153**	0.081	0.052	0.125	0.101
	(2.766)	(2.537)	(0.497)	(0.320)	(0.814)	(0.662)
Excellent health	0.382***	0.362***	0.193	0.154	0.262	0.237
	(5.789)	(5.482)	(1.120)	(0.900)	(1.606)	(1.462)
Trade union member	-0.259***	-0.259***	-0.312***	-0.322***	-0.217**	-0.223**
- 1000 UMON MONIOO	(5.993)	(5.990)	(2.797)	(2.904)	(2.063)	(2.131)
	(3.773)	(3.770)	(2.171)	(2.707)	(2.003)	(2.131)
Temporary Job	-0.226***	-0.242***	-0.259	-0.306*	-0.264	-0.302*
10mporury 000	(3.408)	(3.672)	(1.453)	(1.723)	(1.529)	(1.760)
Incremental pay	0.194***	0.184***	0.334***	0.314***	0.307***	0.283***
merementar pay	(5.578)	(5.300)	(3.359)	(3.180)	(3.294)	(3.056)
	(3.370)	(3.300)	(3.337)	(3.100)	(3.4)+)	(3.030)

Part Time	-0.109* (1.920)	-0.091 (1.566)	-0.130 (0.885)	-0.121 (0.815)	-0.207 (1.491)	-0.207 (1.469)
Travel Time	-0.002 (1.525)	-0.002** (1.961)	0.001 (0.411)	0.001 (0.160)	0.001 (0.462)	0.001 (0.356)
Size 25 - 99	-0.111*** (2.652)	-0.097** (2.308)	-0.202* (1.738)	-0.185 (1.595)	-0.199* (1.830)	-0.198* (1.823)
Size 100 - 499	-0.187*** (3.924)	-0.170*** (3.525)	-0.101 (0.737)	-0.090 (0.648)	-0.126 (0.977)	-0.128 (0.984)
Size 500 plus	-0.197*** (3.788)	-0.180*** (3.405)	-0.381*** (2.610)	-0.361** (2.437)	-0.324** (2.345)	-0.319** (2.268)
Voluntarily Quit	0.300*** (5.487)	0.295*** (5.397)	0.225 (1.313)	0.210 (1.224)	0.190 (1.193)	0.172 (1.081)
Number of weeks not employed in the last year	0.003** (2.092)	0.002 (1.475)	0.006 (1.385)	0.005 (1.154)	0.005 (1.164)	0.004 (0.940)
Wave 10	-0.118*** (3.682)	-0.108*** (3.381)	0.056 (0.633)	0.065 (0.736)	0.031 (0.373)	0.040 (0.480)
Wave 11	-0.034 (0.966)	0.022 (0.537)	0.158 (1.557)	0.206* (1.747)	0.124 (1.303)	0.149 (1.346)
Rest of England	-0.117** (2.224)	-0.127** (2.398)				
London and South East	-0.205*** (3.351)	-0.169*** (2.691)				
Scotland	-0.158*** (2.740)	-0.172*** (2.982)				
Log real		-0.393**		-0.307		-0.086
comparative wage		(2.475)		(0.709)		(0.212)
Objective 1 area			0.164*	0.143		
Cut 1	-4.16***	-3.83***	(1.700) -5.48***	(1.493) -4.96***	-5.38***	-4.92***
Cut 1	(-10.98)	(-12.48)	(-4.77)	(-5.09)	(-4.89)	(-5.24)
Cut 2	-3.53***	-3.20***	-4.77***	-4.26***	-4.69***	-4.25***
	(-9.37)	(-10.51)	(-4.20)	(-4.43)	(-4.31)	(-4.58)
Cut 3	-2.85***	-2.52***	-4.07***	-3.57***	-3.98***	-3.55***
	(-7.61)	(-8.34)	(-3.60)	(-3.75)	(-3.68)	(-3.85)
Cut 4	-2.49***	-2.16***	-3.74***	-3.26***	-3.65***	-3.22***
	(-6.65)	(-7.16)	(-3.32)	(-3.42)	(-3.38)	(-3.51)
Cut 5	-1.58***	-1.25***	-2.84**	-2.37**	-2.78**	-2.36**
0	(-4.23)	(-4.16)	(-2.54)	(-2.50)	(-2.59)	(-2.58)
Cut 6	0.44 (1.18)	0.76**	-0.85 (-0.77)	-0.40 (-0.43)	-0.85 (-0.80)	-0.45
	(1.10)	(2.52)	(-0.77)	(-0.43)	(-0.00)	(-0.49)
Log Likelihood	-11542	-11573	-1531	-1542	-1678	-1688
Observations	8446	8444	1155	1154	1252	1251

Absolute value of z statistics in parentheses

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

	Scotland		London and South East		Rest of England	
	(7)	(8)	(9)	(10)	(11)	(12)
Log usual real gross	0.053	0.013	0.113	0.076	0.095	0.042
hourly wage	(0.501)	(0.124)	(1.214)	(0.847)	(1.224)	(0.552)
Log usual hours	0.086	0.084	-0.118	-0.104	-0.384***	-0.407***
8	(0.627)	(0.611)	(0.990)	(0.874)	(4.269)	(4.514)
Job Tenure	-0.003	-0.002	-0.002	-0.001	-0.002*	-0.001
	(1.582)	(1.118)	(1.497)	(0.914)	(1.797)	(0.978)
Tenure Squared	0.000	0.000	0.000	0.000	0.000	0.000
•	(1.183)	(1.301)	(1.480)	(1.226)	(0.383)	(0.242)
Age	-0.028	, ,	0.005	·	-0.029	` ′
	(0.997)		(0.196)		(1.407)	
Age square	0.000		-0.000		0.000*	
	(1.283)		(0.066)		(1.791)	
University degree	-0.404**		-0.745***		-0.532***	
	(2.265)		(3.835)		(3.708)	
Vocational	-0.364**		-0.595***		-0.214*	
qualifications	(2.399)		(3.526)		(1.903)	
A - levels plus	-0.232		-0.431**		-0.228*	
	(1.449)		(2.284)		(1.801)	
O - levels plus	-0.131		-0.582***		-0.085	
	(0.877)		(3.376)		(0.760)	
Commercial or	-0.276		-0.487**		-0.064	
Apprentice	(1.303)	0.151%	(2.363)	0.001 strateste	(0.462)	0.100%
Married	0.060	0.151*	0.241***	0.291***	0.130**	0.199***
Mantagas	(0.677)	(1.822)	(2.726)	(3.490)	(1.995)	(3.226)
Mortgage house	-0.117	-0.125	-0.001	-0.015	-0.095	-0.110
Paid outright house	(1.239) 0.097	(1.325) 0.169	(0.016) -0.008	(0.162) 0.021	(1.288) -0.256**	(1.498) -0.187*
Faid Outright House	(0.624)	(1.103)	(0.064)	(0.161)	(2.398)	(1.798)
Promotion	0.024)	0.128*	0.158**	0.140*	0.338***	0.321***
Opportunities	(2.198)	(1.695)	(2.159)	(1.924)	(6.116)	(5.859)
Public Sector	0.163	0.180	-0.082	-0.104	-0.016	-0.010
	(1.292)	(1.429)	(0.712)	(0.908)	(0.177)	(0.112)
Works mornings only	0.336**	0.363**	0.093	0.152	0.075	0.092
2 3	(1.999)	(2.163)	(0.624)	(1.029)	(0.693)	(0.846)
Works evenings or	0.044	0.050	-0.260	-0.236	-0.128	-0.143
nights	(0.266)	(0.303)	(1.366)	(1.241)	(1.104)	(1.235)
Variable shift patterns	0.004	0.005	0.035	0.038	-0.070	-0.049
	(0.033)	(0.045)	(0.250)	(0.276)	(0.760)	(0.531)
Fair health	-0.171	-0.181	0.034	0.022	0.034	0.039
	(1.172)	(1.242)	(0.244)	(0.159)	(0.372)	(0.426)
Good health	0.047	0.033	0.299**	0.268**	0.193**	0.181**
	(0.337)	(0.237)	(2.192)	(1.970)	(2.112)	(1.987)
Excellent health	0.350**	0.329**	0.495***	0.455***	0.420***	0.404***
	(2.343)	(2.207)	(3.299)	(3.038)	(4.110)	(3.962)
Trade union member	-0.347***	-0.333***	-0.306***	-0.321***	-0.217***	-0.206***
T 1.1	(3.717)	(3.578)	(3.199)	(3.358)	(3.098)	(2.947)
Temporary Job	-0.209	-0.211	-0.071	-0.093	-0.274**	-0.287***
Inaramantal	(1.370)	(1.385)	(0.540)	(0.711) 0.280***	(2.520)	(2.654)
Incremental pay	0.215***	0.203***	0.283***		0.113**	0.103*
Part Time	(2.770) -0.411***	(2.619) -0.360***	(3.862) -0.096	(3.834) -0.118	(2.069) 0.085	(1.892) 0.108
rait riiic	(3.226)	(2.758)	(0.747)	(0.900)	(0.952)	(1.184)
Travel Time	-0.004**	-0.005**	-0.001	-0.001	-0.002	-0.002
-10.01 11110	(1.991)	(2.150)	(0.449)	(0.573)	(0.961)	(1.200)
	(= / -/	(=)	(/	(()	()

Size 25 - 99	0.032	0.054	-0.158*	-0.154*	-0.140**	-0.127*
	(0.352)	(0.597)	(1.787)	(1.722)	(2.089)	(1.889)
Size 100 - 499	-0.076	-0.047	-0.272***	-0.246**	-0.240***	-0.232***
	(0.739)	(0.451)	(2.596)	(2.323)	(3.214)	(3.076)
Size 500 plus	-0.105	-0.083	-0.117	-0.086	-0.271***	-0.254***
•	(0.955)	(0.745)	(1.055)	(0.772)	(3.214)	(2.985)
Voluntarily Quit	0.235**	0.237**	0.300***	0.298***	0.415***	0.414***
, ,	(2.003)	(2.017)	(2.674)	(2.656)	(4.813)	(4.794)
Number of weeks not	0.001	0.001	0.003	0.002	0.004*	0.003
employed in the last	(0.401)	(0.186)	(0.896)	(0.689)	(1.726)	(1.248)
year	, ,	, ,	` ′	` ′	` ′	, ,
Wave10	-0.176**	-0.162**	-0.168**	-0.161**	-0.110**	-0.096*
	(2.510)	(2.302)	(2.478)	(2.376)	(2.187)	(1.924)
Wave11	-0.083	-0.013	-0.063	-0.050	-0.042	0.036
	(1.020)	(0.144)	(0.873)	(0.617)	(0.781)	(0.579)
Log real		-0.589	, ,	-0.099	, ,	-0.515**
comparative wage		(1.613)		(0.274)		(2.132)
Cut 1	-4.33***	-3.96***	-2.89***	-2.56***	-4.13***	-3.85***
	(-5.22)	(-5.88)	(-3.30)	(-3.52)	(-7.11)	(-8.30)
Cut 2	-3.70***	-3.33***	-2.24**	-1.92**	-3.50***	-3.22***
	(-4.50)	(-5.01)	(-2.58)	(-2.65)	(-6.07)	(-7.01)
Cut 3	-2.98***	-2.61***	-1.54*	-1.22*	-2.87***	-2.59***
	(-3.64)	(-3.94)	(-1.77)	(-1.68)	(-4.98)	(-5.66)
Cut 4	-2.63***	-2.26***	-1.19	-0.87	-2.47***	-2.19***
	(-3.22)	(-3.42)	(-1.37)	(-1.20)	(-4.30)	(-4.81)
Cut 5	-1.67**	-1.30**	-0.33	-0.01	-1.52**	-1.24**
	(-2.05)	(-1.98)	(-0.38)	(-0.02)	(-2.65)	(-2.73)
Cut 6	0.48	0.84	1.69	2.00	0.52	0.79*
	(0.59)	(1.28)	(1.95)	(2.76)	(0.91)	(1.75)
Log Likelihood	-2544	-2550	-2505	-2515	-4727	-4739
•						
Observations	1874	1874	1830	1830	3490	3489

Absolute value of z statistics in parentheses

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Table 4: Variable Definitions

Overall Job Satisfaction Overall Job Satisfaction 1= not satisfied at all 4= not satisfied /dissatisfied 7 = completely satisfied

7 = completely satisfied Gender Gender of respondent 1 = Males0 = FemalesLog usual real gross Log of average real hourly earnings hourly wage Log usual hours Log of usual hours Job Tenure Job Tenure in months Tenure Squared Job Tenure in months squared Age at date of interview Age Age square Age at date of interview squared University degree Highest qualification is 1 if the individual's highest postgraduate & first degree qualification is postgraduate & first degree; 0 otherwise. Vocational Highest qualification is 1 if the individual's highest qualifications Vocational degrees: Teaching, qualification is Vocational degrees: Nursing hnd other Teaching, Nursing hnd other A - levels plus Highest qualification is A-levels 1 if the individual's highest or equivalent qualification is A-levels or equivalent 1 if the individual's highest O - levels plus Highest qualification is O-levels or equivalent qualification is O-levels or equivalent Commercial Highest qualification is 1 if the individual's highest Apprentice Commercial and apprenticeships qualification is Commercial and apprenticeships Married Married 1 if the individual is married Mortgage house 1 if the individual's home is owned Owns home with mortgage with a mortgage; 0 otherwise 1 if the individual's home is owned Paid outright house Owns home outright outright; 0 otherwise White Ethnic background of individual 1 if individual is white; 0 otherwise Promotion promotion opportunities in 1 if the individual has promotion current job opportunities in current job; 0 otherwise Public Sector Public Sector 1 if the individual is employed in the public sector; 0 otherwise Works mornings only Works mornings only 1 if the individual works in the mornings only; 0 otherwise Works evenings or Works evenings or nights 1 if the individual works evenings or nights; 0 otherwise Variable shift patterns Variable shift patterns 1 if the individual has variable shift patterns: 0 otherwise Fair health Fair health 1 if individual has fair health; 0 otherwise Good health Good health 1 if individual has good health; 0 otherwise Excellent health Excellent health 1 if individual has excellent health; 0 otherwise Trade union member Trade Union Member 1 if the individual is a trade union member; 0 otherwise Temporary Job Individual has a temporary Job 1 if the individual has a temporary job; 0 otherwise 1 if the individual's pay includes Incremental pay Individual's pay includes annual increments annual increments: 0 otherwise Part Time Individual is employed Full-1 if the individual is employed Full-Time; 0 otherwise Time Travel Time Minutes spent travelling to work

Size 25 - 99	25-99 employees	1 if individual is employed in an workplace with between 25 and 99			
Size 100 - 499	size499	employees; 0 otherwise 1 if individual is employed in an workplace with between 25 and 99			
Size 500 plus	size500	employees; 0 otherwise 1 if individual is employed in an workplace with between 25 and 99			
Energy and Water	Energy and Water	employees; 0 otherwise 1 if individual is employed in an workplace in the energy and water			
Manufacturing	Manufacturing	sector; 0 otherwise 1 if individual is employed in an workplace in the manufacturing sector;			
Construction	Construction	0 otherwise 1 if individual is employed in an workplace in the construction sector; 0			
Distribution, Hotels etc	Distribution, Hotels etc	otherwise 1 if individual is employed in an workplace in the distribution and hotel sector; 0 otherwise			
Transport, communications	Transport, communications	1 if individual is employed in an workplace in the transport and communications sector; 0 otherwise			
Banking and Finance	Banking and Finance	1 if individual is employed in an workplace in the banking and finance			
Public Administration	Public Administration	sector; 0 otherwise 1 if individual is employed in an workplace in the public administration			
Education and Health	Education and Health	sector; 0 otherwise 1 if individual is employed in an workplace in the education and health;			
Other	Other	0 otherwise 1 if individual is employed in an workplace in the other sector; 0			
Professional Occupations	Professional Occupations	otherwise 1 if individual is employed in Professional Occupations; 0 otherwise 1 if individual is employed in			
Associate professional and technical	Associate professional and technical	Associate professional and technical; 0 otherwise 1 if individual is employed in			
Administrative and Secretarial	Administrative and Secretarial	Administrative and Secretarial; 0 otherwise			
Skilled Trades	Skilled Trades	1 if individual is employed in Skilled Trades; 0 otherwise			
Service Occupations	Service Occupations	1 if individual is employed in Service Occupations; 0 otherwise			
Process Plant and Machine Operatives Elementary Occupations	Process Plant and Machine Operatives Elementary Occupations	1 if individual is employed in Process Plant and Machine Operatives; 0 otherwise 1 if individual is employed in Elementary Occupations; 0 otherwise			
Voluntarily Quit Number of weeks not	Voluntarily Quit Number of weeks not employed in the last year.	1 if the individual voluntarily quit previous job; 0 otherwise			
employed in the last year Wave10	in the last year wave10	1 if the observation is in wave 10; 0 otherwise			

Wave11 uve 11 lif the observation is in wave 10; 0 otherwise

Rest of England Region is Rest of England lift the individual lives in the England outside of London and the South East; 0 otherwise

London and South East Region is London and South East the South East; 0 otherwise

Scotland Region is Scotland 1 if the individual lives in Scotland; 0 otherwise



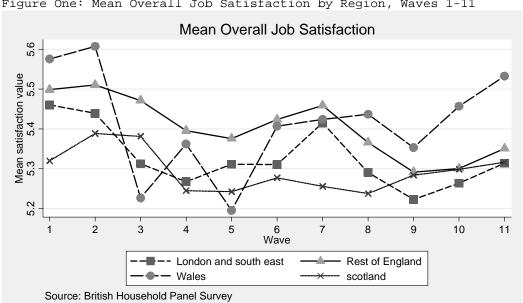


Figure One: Mean Overall Job Satisfaction by Region, Waves 1-11

Figure Two: Mean Satisfaction with Pay by Region, Waves 1-11

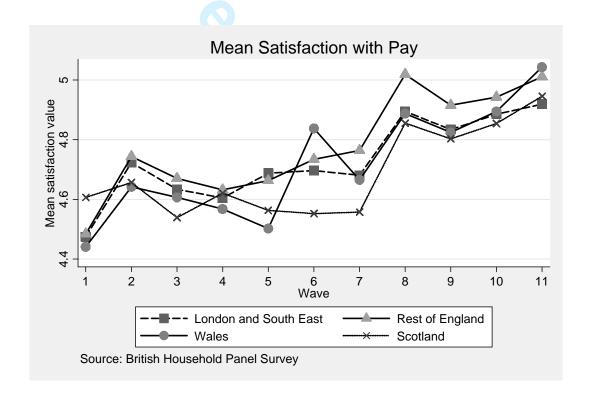


Figure Three: Mean Overall Life Satisfaction by Region, Waves 6-10

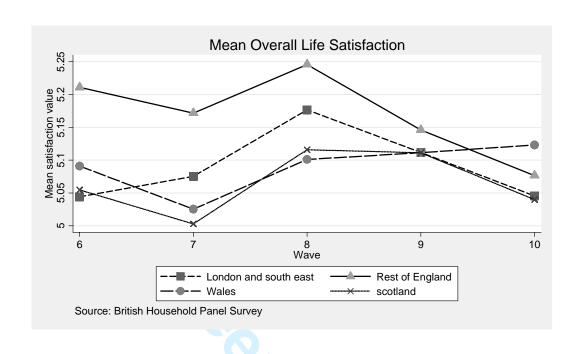


Figure Four: Mean Overall Life Satisfaction by Level of Job Satisfaction, Waves 6-

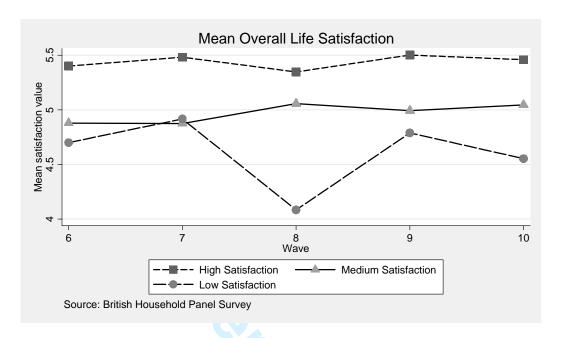


Figure Five: Mean Overall Life Satisfaction Workers only, Waves 6-10

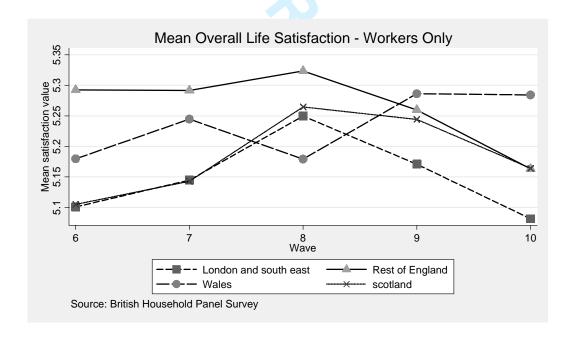
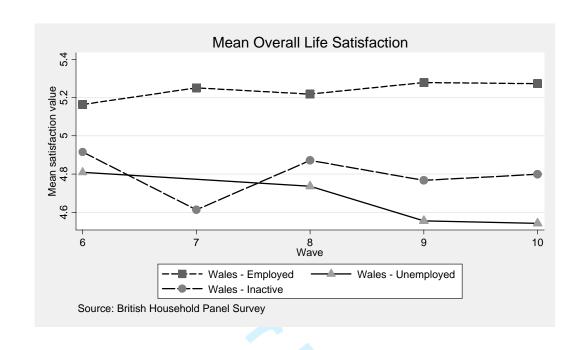


Figure Six: Mean Overall Life Satisfaction in Wales by Employment Status, Waves 6-10



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