UNHAPPINESSAND INVOLUNTARY UNEM PLOYMENT: THE CASE OF ETHNIC M INOR ITY MEN IN BRITAIN

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ABSTRACT

U sing data from the Policy Studies Institute's Fourth National Survey of Ethnic M inorities in 1994, we estimate the determ inants of happiness for white, black Caribbean and South Asian men in Britain using ordered probit models. After controlling for personal characteristics, we find that for each group, unemployment is associated with a significantly lower level of happiness compared to employment. Following the methodology of C lark and O swald (1994), our results suggest that for white and ethnic minority men, unemployment is predominantly involuntary in Britain. Furthermore, we show that having a job per se, rather than the type of job, is the more important determinant of happiness.

Keywords:Ethnic M inorities, U nem ploym ent, Happiness, O rdered ProbitJEL Classification:B1, J15, J64

I. INTRODUCTION

Since the large inflow of immigrants in the 1960s and 1970s, high ethnic minority unemployment has been an important economic and social issue in Britain. This is to some extent reflected in Britain's restrictive immigration policy, which is based upon substantial fears about the economic impact of immigrantworkers (Hatton and Wheatley Price, 1998).

W hilst the existing literature has proposed a num ber of explanations for the high rates of unem ploym entam ong Britain's three million ethnic minority members, there has been little investigation into the nature of ethnic m inority unem ploym ent. The contribution of this paper is to address the central issue of whether the unem ploym ent experienced by m en from three different ethnic groups is predom inantly voluntary or involuntary in nature. The answer to this question is crucial for designing effective policies aimed both at improving the economic welfare of ethnic m inority groups and inform ing imm igration policy, as well as addressing the root causes of unem ploym entm ore generally. Data is drawn from a large national survey of ethnic minorities carried out in 1994 by the Policy Studies Institute (PSI), which permits separate analysis to be undertaken for black Caribbean, South Asian, and white males. A sim ilar m ethodology to that used by C lark and O swald (1994) is adopted, whereby the selfreported responses to a number of questions relating to various elements of mental wellbeing, are combined to form an index of happiness. In such models of happiness, after controlling for appropriate personal and dem ographic characteristics, the employed should exhibit significantly greater happiness relative to the unamployed for unamployment to be considered predom inantly involuntary. For unem ploym ent to be classed as voluntary, the jobless should presum ably be just as contented, other things being equal, as those who are working.

Our analysis of the nature of unem ployment is extended by dividing the employed into two groups, those with 'good' jobs and those with 'bad' jobs. The need for such a distinction arises from the fact that form any of the unemployed, access to the labourmarket is likely to be restricted to its lower sections. Therefore, the comparisons of happiness required for identification of the voluntary/involuntary nature of unemployment are between the jobless and those in 'bad' jobs, rather than the employed, per se. Furthermore, after controlling for household income, differences in self-reported happiness between the two employed groups and the unemployed may provide tentative insights into the types of work-related activities that individuals value. Happiness gains which are shown to accrue to both of the employed groups imply that the most fundamental aspects of working, for example providing a structure

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to the day and a sense of social worth, which are common to all jobs (even boring and repetitive ones), are those that individuals value. If the gains of employment are only evident amongst those in "good" jobs, work-related benefits may be deemed to consist of more palpable factors such as status or responsibility.

The structure of the paper is as follows. Section II reviews recent studies which have examined, firstly, the white-ethnic minority unemployment differential, and secondly, the effect of employment status on self-reported happiness. The dataset and our empirical methodology are described in Section III. Section IV discusses the empirical results whilst Section V concludes.

II.LITERATURE REVIEW

(i) Ethnic M inority Unem ployment in Britain

Until recently, investigation into the incidence and determ inants of unemployment for Britain's ethnic m inorities has been hampered by a lack of adequate data. One exception has been the series of surveys undertaken by the Policy Studies Institute (PSI) each decade, beginning in 1966, which have shed considerable light on the labour market experiences of ethnic m inorities in Britain (see, for example, M odood et al., 1997; Brown, 1984). In recent years, a number of studies have been able to use the larger samples of ethnic m inorities made available by pooling consecutive Labour Force Surveys and G eneral H ousehold Surveys, or the 1991 Census of Population, to exam ine the determ inants of the unemployment experiences of ethnic m inorities relative to whites (see B lackaby et al., 1997, 1999; Jones, 1993). These studies have reinforced the findings from the PSI surveys and identified considerable unemployment differentials between whites and ethnic m inorities which appear to have rem ained constant over the last two decades.

U sing data from the Labour Force Survey over the decade 1981 to 1991, B lackaby et al. (1999) find that the unem ploym entrate for ethnic m inority m en in Britain was consistently double that of whites. D ifferentiating between ethnic groups, B lackaby et al. (1997), using data from the 1991 C ensus of Population, find evidence of a hierarchy of unem ploym ent, with unem ploym ent being highest for blacks (both Caribbean and A frican), follow ed in turn by Pakistanis and Bangladeshis, Indians, O ther A sians and whites. In 1991, for exam ple, 23% of black m en, 21% of Pakistani and Bangladeshim en and 12% of Indian m en were unem ployed, com pared to 9.5% of white m en. A sim ilar differential was found for fem ales. Interestingly,

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ethnic m inority unem ploym ent is considerably higher for British-born than foreign-born ethnic m inorities, which is only partly explained by the younger age distribution of the form er (Blackaby et al., 1997; Shields and W heatley Price, 1998). For the latter group, unem ploym enthas been found to vary considerably by country of birth and year of entry into the UK (W heatley Price, 1998).

M any explanations have been proposed for the high ethnic m inority unemployment rate in Britain. Following Becker (1971), it is often suggested that employers have a 'taste for discrimination' which is reflected in a lower dem and for ethnic minority workers. This is the principal explanation favoured by Blackaby et al. (1997, 1999), after controlling for the effect of differences in work-related characteristics between white and ethnic groups. They also suggested that the degree of discrimination exercised by white employers is not uniform and varies between blacks and A sians. O ther research, has pointed to the fact that the majority of ethnic minorities in Britain were born-abroad¹ and therefore differ in both observable and unobservable characteristics from their white counterparts (Shields and W heatley Price, 1998). In particular, because immigrants may initially lack location-specific hum an capital, for example English language fluency, and their skills may not transfer perfectly into the host countries' labour market, they are unable to complete on an equal basis with native-born individuals in the years following migration (Chiswick, 1978, 1982; Chiswick and Hurst, 1998)². Each of these factors points to the involuntary nature of unemployment for ethnic minority groups.

On the supply-side of the employment decision, research has shown that Britain's ethnic minorities are concentrated in areas of economic disadvantage (Fieldhouse and Gould, 1998) and may have restricted regional mobility due to cultural and religious ties. In a similar vein, Thomas (1997)³ finds that about 20% of the white ethnic minority unemployment differential can be explained by the restrictive job seeking activities of ethnic minorities, for

¹ In our sample, 57% of Black Caribbean m en and 83% of South A sian m en w ere born abroad.

² M oreover, because m any in m ignants undertook their education and early work experiences abroad, and m ay not be fluent in the English language, the relative risk to firms from hiring workers from ethnic m inorities com pared to native-born whites m ay be considered greater, leading to higher ethnic m inority unem ploym ent. Imm ignants m ay also experience higher job turnover due to being disproportionately engaged in tem porary and seasonal jobs or because they are m ore likely to have been new ly recruited m aking them vulnerable in cyclical downturns (W heatley Price, 1998).

³ Furtherm ore, those born and bred abroad are likely to have a limited know ledge of local labourm arkets and as such may be unaware of where the most profitable job opportunities lie. Thus immigrants might be expected to sacrifice more resources on the job search process in order to better understand the local labour market and find more profitable job opportunities. Since time is one of the most important resources for job

example a low erw illingness to commute. Cultural models of behaviour (see Thomas, 1998) have emphasised the effects of unemployment hysteresis amongst ethnic minority groups whereby high unemployment rates become a causal factor of continued high unemployment, for example, by inducing a greater tolerance of joblessness and poorer attitudes towards working. The importance of supply-side responses to perceived and actual discrimination, in particular the role of religion, are discussed by B lackaby et al. (1997, 1999), although in an empirical analysis of this issue, Thomas (1998) finds no supporting evidence. How ever, in contrast to dem and-side factors, these supply-side explanations suggest that part of the white-ethnic minority unemployment differential may be the result of voluntary choices by ethnic minorities.

(ii) Employment Status and Happiness

It is well-known that econom ists have been traditionally suspicious about the validity and usefulness of self-reported subjective measures of utility such as mental well-being, happiness and job satisfaction. As a result, despite the huge literature in the field of social psychology which exam ines the determ inants and effects of these subjective variables on labour market behaviour, it is only in recent years that econom ists have started to more readily accept their use (see, C lark, 1996 and 0 swald, 1997a, 1997b for comprehensive review s).

A growing literature in this area concerns the effect of joblessness on self-reported measures of well-being and happiness. The basis for this work are the well-documented consequences of unemployment on well-being and happiness identified by social psychologists.⁴ The substantial literature in this field has shown that joblessness leads to a considerable deterioration in well-being and happiness but that work has different meanings for different people. For some it is a source of prestige and social recognition, a basis for self-respect and sense of worth. W ork also provides a structure to the day, gives a sense of purpose and fosters networks of social interaction.⁵ As 0 swald (1997) points out, these findings cast doubt on the proposition that individuals are effectively choosing to be unemployed and that observed unemployment is involuntary. However, it has been found that for others work is just a way of making a living. This suggests, ceteris paribus, that low-paid

search, immigrants will, on average, spend less time in employment and more time in job search and unemployment relative to those born in Britain (Chiswick, 1982).

 $^{^4}$ W arretal. (1988) and Dooley atal. (1987) provide reviews of psychology-based studies.

employment, given the existence of social security, might not be a more favourable state than joblessness, and one aim of this paper is to test this proposition for white and ethnic minority men.

In their 1994 paper, C lark and O swald use cross-sectional data from the first wave of the British Household Panel Study (BHPS) collected in 1991, to examine the effect of unem ploym ent on happiness. U sing the responses to various questions on m ental well-being, they form an index of happiness and develop a simple methodology to investigate whether unen ploym ent in Britain is predom inantly involuntary or voluntary in nature. They estimate ordered probit models of happiness controlling for employment status and a number of personal and dem ographic variables likely to be correlated with happiness. They find, using pooled data form en and wom en, that unem ploym ent is associated with a significantly low er level of happiness than employment which suggests that unemployment in Britain is predom inantly involuntary in nature. Other research also suggests that unem ployment is a state to which individuals may partially adapt, since unhappiness is greatest for the recently unen ployed. Interestingly, separate control variables for blacks and A sians included in the pooled models were found to have no significant in pact on happiness. Theodossiou (1998) generally confirms 0 swald and C lark's findings using data from the second wave of the BHPS in 1992. He finds joblessness to be associated with a marked rise in anxiety, depression and loss of confidence and self-esteen, but that these effects do not dim inish with the length of unemployment spell. Furthermore, he distinguishes between low paid and high-paid en ploym ent and finds that both states exhibit happiness (well-being in the paper) gains over unen ployment, suggesting that individuals attach a high positive value to having a job per se.

M oreover, the deterioration in happiness as a result of unem ploym ent appears not to be country-specific. W inkelm ann and W inkelm ann (1995, 1998) and Gerlach and Stephan (1996) exam ine the relationship between unem ploym ent and happiness using data from the Germ an Panel Study and find large negative effects of joblessness. W inkelm ann and W inkelm ann (1998) provide som e evidence to suggest that the non-pecuniary effects of unem ploym ent are m ore in portant than the incom e effects in determ ining happiness. K orpi (1997) confirm s these results using data on Sw edish youths in the early 1980s. One potential advantage of these studies, over the two B ritish studies, is the panel nature of their data.⁶ This allow s unobserved individual heterogeneity to be controlled for, which m ay be correlated w ith

⁵ Darity and Young (1996) provide a review of this literature.

 $^{^{6}}$ N ote that the two British studies do not utilize the panel element of the British H ousehold Panel Study.

both happiness and employment status. An important result, however, is that both the size and sign of the estimates are generally indifferent to whether panel or cross-sectional data are used (0 swald, 1997).⁷

III.DATA AND EM PIRICAL METHODOLOGY

(i) Data source, sampling and salient features

The data we use is drawn from the Fourth Survey of Ethnic M inorities collected by the Policy Studies Institute (PSI) in 1994 (see M odood et al., 1997). As far as the authors are aware, this represents the only comprehensive source of data on the mental well-being of ethnic m inorities in Britain which has a sample of both whites and ethnic m inorities large enough to allow statistically reliable comparisons (see N azroo, 1997).

The sam ples of ethnic m inorities included in the survey were selected using the 1991 Census to divide all electoral wards in England and W ales into three bands (high, medium and low) according to the proportion of the population who reported being m embers of an ethnic minority. A random sample of wards were then selected and, within each ward, a sample of addresses (with an over-sampling from high ethnic minority wards). Following selection, interviewers visited the resulting 130,000 addresses to identify any members of the target m inority groups living there who could then be interviewed. At each household containing adults from these groups, one or two were selected for interview (where there were more than two eligible adults, two were selected at random). Where two adults were selected, two different questionnaires were random ly assigned. Both questionnaires included the same core questions, but a different set of secondary questions. Interview s were successfully obtained in 3291 m inority households, involving 5196 adults (the response rate was 61% for black Caribbeans and ranged between 74% and 83% from South Asian groups). Importantly, interview ees were interviewed by a member of their own ethnic group in order to minim ise m isunderstandings and maxim is response rates. Uniquely, amongst the national sources of data available with large samples of ethnic minorities, interviews were able to be conducted, wholly or partly, in the interviewees' own language, thereby capturing a substantial proportion of ethnic m inorities who are m issed by surveys which interview only in English and elim inating a potential source of bias.

 $^{^7}$ W e discuss this issue again later, see footnote 16.

In portantly, the mental well-being questions we use to form our index of happiness were only asked in the second questionnaire thus our sample of ethnic minorities is considerably reduced. The advantage of this, how ever, is that our sample is more generally representative, because we use information from only one random ly selected member from each household. A similar procedure was used to select a random sample of wards and addresses containing white households (it was not necessary to conduct a preliminary screening exercise for this group). In contrast to ethnic minority households, only one adult was selected and interviewed, giving a sample of 3291 adults (response rate, 71%). The mental well-being questions were asked of all white interviewees. Further survey details, including exact questions, can be found in Sm ith and Prior (1996).

In this paper we focus on the effect of unem ployment on the self-reported happiness of males of working age (i.e. 16-64).⁸ Ethnicity is as self-reported in the survey and we have used this to divide ethnic minorities into two broad groups: black Caribbean and South A sians. The South A sian sample consists of those from Indian, Pakistani, Bangladeshi or A frican Indian origins.⁹ This provides a working sample of 943 white, 239 black Caribbean and 851 South A sian men.

Previous studies of the effect of employment status on well-being and happiness have included only dummy variables to indicate ethnic minority groups in their happiness models. This approach, however, is inadequate if the structural determinants of happiness for ethnic minorities (due to different cultural and religious backgrounds) differ from that of whites, and the effect of unemployment relative to employment is quantitatively and/or qualitatively different. Consequently, throughout the following analysis, we present separate results for black Caribbean and South A sian males¹⁰, as well as for whites.

We begin by presenting the salient features of our samples. The mean values for the independent variables used in the analysis are shown in Table A1. Importantly, the high unemployment rates for ethnic minorities relative to whites discussed in Section II are

⁸ In this paper we do not exam ine fem ales because of the sm aller sam ple sizes available for analysis. It would be feasible in practice to estimate pooled happiness models formales and fem ales in each group and include a gender dum my variable in the model specification, as in C lark and O swald (1994). We believe, how ever, that the determ inants of happiness and the effect of employment status on happiness are likely to differ significantly according to gender, which would lead to biased pooled estimates. Preliminary estimates appear to confirm this, so here we focus solely on males in the hope of providing a clearer and more reliable interpretation of the results.

⁹ Requirem ents are for groups to be relatively hom ogenous. For this reason we have not included the small num berofm en of Chinese origin in the analysis. Those still in full-time education were also excluded.

supported by the data with 12% of white m en being unem ployed compared to 26% of black Caribbean and 23% of South A sian m en. Both ethnic m inority groups are under-represented in 'good' jobs compared to whites¹¹ and South Asians are over-represented in selfemployment. Both black Caribbean and South Asian men have higher labour market nonparticipation rates than whites. The average household income of black Caribbean and South A sian men is considerably lower than for whites, by about £90 and £110 per week, respectively. A far higher percentage of South Asian men are married and have a greater number of children than whites and black Caribbeans. Importantly, given the obvious relationship between physical and mental health, white and black Caribbean men report a significantly higher incidence of long-term illness than do South Asians. Over 40% of South A sian and 37% of black C aribbean m en report having no form al qualifications, com pared to 24% for whites. South Asian men, however, are relatively over-represented, and black Caribbean m en under-represented, in the higher qualifications categories compared to whites. Britain's ethnic minorities are concentrated in Greater London (42% and 38% of black Caribbean and South A sians, respectively) and the M idlands (27% and 29%), with a relatively low er representation in the North and South. W ithin these broad geographical regions, 47% of black Canibbean and 54% of South Asian men reside in high unemployment wards, compared to only 12% of white men.¹² Of our black Caribbean and South Asian samples, 57% and 83% respectively, were born outside of the UK. South A sians consist of Indians (32%), Pakistanis (34%), Bangladeshis (15%) and A frican A sians (19%).

(ii) An index of unhappiness

The index of unhappiness which we use as our dependant variable is derived from the responses to the following seven questions on mental well-being (each evaluated over the month prior to interview, with possible 'yes' or 'no' answers):

1. During the pastm onth, have you feltyou've been getting tired and/or lacking in energy?

¹⁰ Ideally, for our empirical analysis we would like to separate the South A sian sample in Indians, Pakistani and Bangladeshis. How ever, are sample size permits this.

 $^{^{11}}$ W e distinguish between 'good' and 'bad' jobs in terms of gross full-time weekly wages. The responses to the wage question in the PSI survey are banded rather than continuous and we have defined a 'bad' job as having a gross wage of less than £194 perweek (or less than £5 perhour for a 40 hourweek).

 $^{^{12}}$ The 1991 Census was used by the PSI to calculate unem ploym entrates by ward. These are reported in bands in the survey and as such we define a high unem ploym entward as one which has an unem ploym entrate greater than 15% .

- 2. In the past m onth, have you been having problem s with trying to get to sleep or with getting back to sleep if you were woken?
- 3. Have you had a spell of feeling sad, m iserable or depressed in the pastm onth?
- 4. During the pastmonth, have you not been able to enjoy or take an interest in things as much as you usually do?
- 5. Have you been feeling anxious and nervous in the pastm onth?
- 6. In the pastm onth, did you ever find yourm uscles felt tense or that you could not relax?
- 7. Thinking about the last m onth, did your anxiety or tension ever get so bad that you got into a panic, for instance, m aking you feel that you m ight collapse or lose control unless you did som ething about it?

Sum m ing the binary responses to these questions provides an index ranging between 0 and 7, w ith higher scores indicating greater levels of unhappiness.¹³ These questions were included in the PSI survey on the recommendation of a team of mental health professions (see N azroo, 1997) and were selected in this paper on the basis that they combine general aspects of well-being, such as "feeling sad" or "anxious", with physiological symptoms of distress which capture particularly low levels of mental well-being. In this respect, the questions minorm any of the those included in the General Health Questionnaire (see C lark and O swald, 1994) which is considered by many to be them ost reliable indicator of well-being (A rgyle, 1989).

(iii) The distribution of unhappiness by employment status, ethnicity and personal characteristics

Table 1 shows the distribution of responses to the unhappiness questions by ethnicity and employment status. The most striking feature is that the unemployed report considerably higher levels of unhappiness than the employed for each of the seven dimensions of unhappiness. This differential is statistically significant for five of the seven dimensions for white and black Caribbean men, and three of the seven for South A sian men, and is generally greater in absolute terms for white and black Caribbeans than for South A sians. For white men, the largest differentials between the employed and unemployed are found for the dimensions 'feeling miserable or depressed' and 'feeling tense or could not relax'; for black Caribbeans in 'feeling anxious and nervous' and having 'sleeping problem s'; and for South A sians in 'sleeping problem s' and being 'unable to enjoy or take an interest'.

 $^{^{13}}$ In the psychological literature, such an index is known as 'Caseness scores'.

TABLE 1

Percentage of M en reporting U nhappiness by D in ension, Ethnicity and Employment Status

D in ension of U nhappiness		W hite		Bl	ack C arib	bean	(South A si	an
(in the lastm onth)									
	EM P	UNEM P	T-stat	EM P	UNEM P	T-stat	EM P	UNEM P	T-stat
Tired and /or lacking energy	363	38.6	05	27.0	34.4	1.0	201	249	13
	(1.8)	(4.6)		(3.8)	(61)		(1.8)	(31)	
Sleeping problem s	25.7	39.5	2.8**	131	361	3.4**	104	16.8	21**
	(1.7)	(4.6)	*	(29)	(62)	*	(1.4)	(2.7)	
Fæling miserable or depressed	332	57.0	4.8**	42.3	55.7	1.7*	152	25.4	29**
	(1.8)	(4.7)	*	(42)	(6.4)		(1.6)	(31)	*
Unable to enjoy/take an interest	14.7	219	1.8*	183	32.8	21**	17.8	28.4	29**
	(1.3)	(39)		(33)	(61)		(1.7)	(31)	*
Fæling anxious or nervous	261	43 9	3.6**	12.4	37.7	3.7**	10.4	12.7	8.0
	(1.7)	(4.7)	*	(2.8)	(63)	*	(1.4)	(2.4)	
Fæling tense or could not relax	165	281	2.6**	8.8	18.0	1.7*	89	10.7	0.7
	(1.4)	(42)	*	(24)	(5.0)		(13)	(22)	
C ollapse or lose control	13	35	12	15	49	12	1.0	12	03
	(0.4)	(1.7)		(1.0)	(2.8)		(0.5)	(0.7)	
N	689	114		137	61		482	197	
27.1								-	

Notes:

1. Standard errors in parenthesis.

2. EM P = employed (employee and self-employed), UNEM P = unemployed. The table excludes labour marketnon-participants.

3. ****' indicates a significant difference in reported unhappiness between the employed and unemployed at the 1% level; ***' indicates a significant difference at the 5% level; **' indicates a significant difference at the 10% level.

The mean level of unhappiness, found by sum ming the responses to the seven questions, is provided for each group in Table 2. Overall, white males report the highest levels of unhappiness with the average male suffering from 1.7 dimensions of unhappiness. This compares to an average of 1.52 for black Caribbean and 1.07 for South A sian men. The possible reasons for the low er levels of unhappiness reported by South A sians are discussed in N azroo (1997).

The results in this table confirm the powerful association between employment state and unhappiness, with the unemployed reporting significantly higher levels of unhappiness than the employed for both white and ethnic minority men. The unhappiness differential is particularly pronounced for white and black Caribbeans, with the unemployed having, on average, one more dimension of unhappiness than the employed. The differential for South A sians is smaller at about 04, but is still statistically significant at the 1% level.

In Table 3, we examine the effects of a number of demographic characteristics on happiness according to labourm arket status. To achieve this we define a state of

TABLE 2

		W hite		Bla	ack C arib	bean	South A sian		
	N	M ean	T-stat	N	M ean	T-stat	N	M ean	T-stat
Em ployed	689	1.53		137	123		482	0.84	
		(.06)			(13)			(.06)	
			42***			3.4***			2.9***
U nem ployed	114	232		61	220		197	120	
		(18)			(25)			(11)	
All	943	1.70		239	152		851	1.07	
		(.06)			(11)			(.05)	

Average U nhappiness by Ethnicity and Employment Status

Notes:

1. Standard errors in parenthesis.

2. ***' indicates a significant difference in reported unhappiness between the employed and unemployed at the 1% level.

3. EM P = employed (employee and self-employed); UNEM P = unemployed. 'All' also includes labour marketnon-participants.

'considerable unhappiness' that occurs when a person reports suffering from two or more unhappiness dimensions. Dividing the three samples into two age cohorts, suggests that the adverse effect of unem ploym ent on happiness is not confined to the younger (under 36) or older (over 35) generations. The impact of unemployment, however, appears to be particularly adverse for unemployed young black Caribbean men who report 'considerable unhappiness' levels over four times higher than the young employed. M oreover, being unem ployed impacts on unhappiness to a far greater extent for single than form arried white and black Caribbean men. Similarly, for these two groups, unem ployment is a considerably worse state for the qualified than for the unqualified, whilst this does not appear to be true for South A sian m en. There also appears to be a significant difference in the effect of living in a high unem ploym entward on unhappiness for South A sian m en, in comparison to whites and black Caribbeans. For the two latter groups, as might be expected a priori, being unem ployed and residing in a high unem ployment ward is more favourable than being unem ployed in a ward with low unemployment. This might be due to a reduced stigma attached to unen ploym ent in areas of high unen ploym ent and the beneficial effect on well-being of being an ongst people who are in the same situation. As with other dem ographic influences, the opposite appears to be true for South A sian m en. O ne explanation is that unem ploym entacts as a proxy for South A sian density and that it is particularly stigm atised amongst A sian communities.

table 3

Percentage of M en reporting more than Two D in ensions of U nhappiness by Employment Status, Ethnicity and Personal Characteristics

	W hite			B lack C anibbean			South A sian		
	M ean	SE	T-stat	M ean	SE	T-stat	M ean	SE	T-stat
Employed	242	1.6	41***	161	31	3.7***	104	14	3.0** *
U nem ployed	44.7	4.7		42.6	64		19.8	2.8	
Age < 36 Employed	26.7	25	23**	119	39	42***	82	19	22**
U nem ployed	43.4	69		531	9.0		175	3.8	
Age>35 Employed	22 2	22	3 5***	20.0	4.8	11	122	2.0	2.1**
U nem ployed	45 9	64		31.0	8.7		22.0	42	
Married Employed	219	19	23**	22.0	4.4	14	105	15	29**
Unemployed	38.0	69		381	109		20.8	32	~
Single Employed	299	32	29***	43	3.0	4.8***	9.8	3.8	0.8
U nem ployed	50.0	63	20	45.0	79	10	15.8	6.0	
Qualified Employed	26.0	19	4 4***	173	3.8	32***	10.8	1.7	1.8*
U nem ployed	52.6	5.7	44	48.5	8.8	52	192	45	T 'O.'
Unqualified Employed	16.8	33	13	12.8	5.4	22**	9.6	23	2.4**
U nem ployed	279	7.6	15	35.7 9.2		22	202	3.7	2.1
H igh unem ploym entward Em ployed	143	42	0.9	10.0	43	2.6**	83	1.8	3.8*
Unemployed	23.8	95	0.9	343	81	⊿.0	24.0	3.8	J.O
Low unem ploym entward Employed	25.4	18	4 4***	195	43	32***	123	21	01
Unemployed	49.5	52	1.1	53 . 8	99	<u> </u>	11.8	39	~~ <u>~</u>

Notes:

1. ****' indicates a significant difference in reported unhappiness between the employed and unemployed at the 1% level; **' indicates a significant difference at the 5% level; *'' indicates a significant difference as the 5% level.

2. A high unem ploym entward is defined as having an unem ploym entrate of 15% or greater.

This initial analysis supports the hypothesis that unem ploym ent is a significantly worse labour market state than employm ent both for white and ethnic minority men in Britain and that, consequently, unemployment is predominantly involuntary regardless of ethnicity. If unemployment were voluntary, a rational individual would take-up employment to increase their welfare thereby eliminating the happiness differential between the employed and unemployed groups. These findings therefore suggest that the conclusions of C lark and O swald (1994) are robust to the data source used, definition of unhappiness and ethnic group examined.

Before we present our econom etric findings, how ever, it is in portant to address the issue of causality. The analysis in this paper makes the assumption that unemployment leads to changes in reported happiness rather than visa versa. This assumption is made because the cross sectional nature of our data inevitably means that issues of causality cannot be directly addressed. Our justification for the assumed casual path, as in C lark and O swald (1994), must therefore rely on the wealth of existing evidence by psychologists concerning the adverse in pact of unemployment on well-being and happiness, and the studies by economists which have been applied to longitudinal data.¹⁴

IV.EM PIRICAL RESULTS

For consistency with other studies we invert the unhappiness scale throughout this section so that higher values of the index represent increased happiness. G iven the ordinal nature of the index we estim ate separate ordered probitm odels of happiness¹⁵ forwhites, black Caribbean and South A sian m ales, which determ ine the effect of unem ployment on happiness whilst holding personal and dem ographic characteristics constant.¹⁶ Four m odels are estim ated for each group. To get a baseline estim ate of the in pact of unem ployment on happiness, the first m odel (M odel 1) includes only an intercept and a dummy variable for employed and non-participation (the base group being unem ployed). The second m odel (M odel 2) extends this specification by including personal and dem ographic variables which have been found in previous studies to be in portant determ inants of happiness. This m odel is essentially that estim ated by C lark and O swald and includes the continuous variables age and age square in order to capture the expected inverse U -shape relationship between age and happiness, as

 $^{^{14}}$ See W att, Jackson and Banks (1988) for a sum mary of longitudinal evidence collected by psychologists. Both K orpi (1997) and W inkelm ann and W inkelm ann (1998) find no system atic selection problem .

¹⁵ Due to the sm all num ber of observations of individuals reporting all seven dimensions of unhappiness, the values 6 and 7 are combined in the models.

well as a num ber of binary indicators; marital status and dependent children; long-term illness; highest qualification; region of residence variables and whether the individual resides in a high unem ployment ward.

Since unem ploym entm ay be expected to effect happiness for both m onetary and nonm onetary reasons, M odel 3 adds the log of household income to the m odel, to abstract from the m onetary effect of unem ploym ent on happiness, and provide a clearer picture of the psychological costs of unem ploym ent. M odel 3 also includes three seasonal dum m y variables in order to capture w ell-established seasonal variations in reported happiness. The final m odel, M odel 4, divides em ploym ent into three categories: self-em ploym ent, em ployed in a 'good' job, or em ployed in a 'bad' job. This division has additional implications for identifying the nature of unem ploym ent and allow s us to address whether it is having a job per se that it the important determ inant of increased happiness, or rather the type of job.

The results of the four models for white, black Caribbean and South A sian m en are provided in Tables A 2-A 4, respectively. O verall, the c^2 statistics suggest that the models are statistically significant. However, the models for white and South A sian m en are clearly better determined than for black Caribbeans, with a larger number of significant explanatory variables.

Results in both M odel 1 and M odel 2 support the findings of C lark and O swald (1994) that employment is a preferable state to unemployment even when a number of personal and dem ographic characteristics are controlled for.¹⁷ This finding is consistent across each of the three ethnic groups sampled and is significant at the 1% level. For the white sample, non-participation in the labour market is also preferable to unemployment but generates a significantly lower level of self-reported happiness than employment. This difference is also apparent in the black Caribbean sample but is not of a sufficient magnitude

¹⁶ The ordered probitm odel is a standard m odel in the labour econom ics literature and is not discussed here. For details see G mene (1993) or D avidson and M acK innon (1993).

¹⁷ In cross-sectional models such as these there is always a potential bias which could be due to the endogeneity of som e of the explanatory variables. For example, if there exists som e unobservable individual characteristic which is correlated with, say employment status, and happiness, then the estimates of the effect of unemployment, relative to employment, on happiness may be biased. To exam ine this further we used bivariate probitm odels, which simultaneously estimate the probability of currently working and being happy. Our two binary dependent variables were working or not, and being happy or not. A s with the analysis of W inkelm ann and W inkelm ann (1998), we have split the happiness index into two components; in our case, we assume that an individual is happy if they experience less than three dimensions of unhappiness. For all three groups ofmen, using a number of differentm odel specifications and identification restrictions, we found no statistically significant correlation between the two enor terms. This suggests that unobservable heterogeneity is not in portant in our estimates.

to be significant. How ever, the South A sian sample generates a negative coefficient which we take as evidence of a cultural stigm a attached to those in this group and the predom inantly involuntary nature of the position.

The positive effects of employment relative to unemployment are maintained in M odels 3 and 4 which include the log of household income. This indicates that happiness generated by working is not derived solely from the pecuniary rewards of work, but that jobs have an inherent value, significant at the 5% level for South A sian m ales and the 1% level for all others. Furthermore, the relative effects of non-participation remain, although for whites and South A sians these results fail to achieve significance at the 10% level as they did in the basem odel.

Of particular relevance for the nature of m ale unem ploym ent are the results in M odel. 4. This model differentiates between workers by categorising according to self-em ployment, poorly paid 'bad' employment, and well-paid 'good' employment and finds that for every group each of these states generates significantly higher levels of self-reported happiness relative to unem ployment. We have suggested above that access to the labour market for m any of those unem ployed is likely to be restricted to the less desirable sectors at least in the first instance, yet there is no evidence to suggest that unem ploym ent is a preferable state even to having a bad job. Indeed, for both the white and the South Asian sample there is no significant difference between the happiness generated in a good job relative to a bad job, whilst for B lack C aribbean m ales there is a significantly higher level of happiness associated with a bad job compared to a good job. In addition to the fact that this model identifies the predom inantly involuntary nature of unem ploym entacross ethnic groups throughout Britain it is also interesting to note that the non-pecuniary benefits of working, identified in M odel 3, are maintained in this specification. Examples of work falling into the 'bad job' category are textile workers, waiters and shelf-fillers, occupations one would expect to offer little scope for responsibility, creativity or flexibility. Rather, the results seem to indicate that working provides benefits at a more fundam ental level, for example, in providing a network for social interaction and a sense of identity.

A ge and age squared variables confirm a U-shaped relationship with happiness am ongst the white and South A sian groups, with happiness low est in the early forties, slightly later than C lark and O swald (1994) found. A ge does not determ ine happiness in any significant way for B lack Caribbean m en. The South A sian sample are the only group to display any significant sensitivity in happiness to either m arital status or num ber of children

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with marriage entering positively at the 10% level. A greater number of children also increases happiness levels, significant at the 5% level in all specifications except M odel 4.

Not surprisingly, long-term illness has a large negative coefficient in each of the three models, significant to the 1% level. All remaining variables have am biguous effects across ethnic groups. Am ongst the white sample, increasing educational achievements are negatively correlated with happiness, culminating with the achievement of a degree or equivalent entering negatively at the 1% level of significance in M odels 3 and 4. For black Caribbean and South A sian males the same negative coefficient is observed for the achievement of a degree or equivalent but this is not significant in any specification. The achievement of 'A ' or 'O ' levels how ever, is positively associated with self-reported happiness relative to having no qualifications. For South A sians this is significant at the 5% level.

Included in M odel 4 is in m igrant status for black C aribbean and South A sian m ales. Only for the latter of these groups does this variable achieve statistical significance indicating a higher happiness level for those born abroad.W ithin this group there is also evidence that those of Pakistani or Bangladeshi origin report higher happiness levels than their Indian equivalents (the form er of these is significant to the 5% level).

We also find that white makes are happier living in high unemployment words and in the N orth of England rather than the South. The preference for living in a high unemployment area is repeated in the black Caribbean sample whilst some specifications indicate higher happiness levels for South A sians who live in the M idlands or G reater London. W hilst these results may in part be reflective of preferences to reside in areas with others of the sam e ethnicity there is also evidence that for some it is equally important to live close to a city centre, perhaps to benefit from a wider range of an enities. Seasonal variables were included in M odels 3 and 4, suggest that, relative to the Spring m onths, blacks C aribbeans and whites are happier in the Summer and Autum whilst, interestingly, South A sian makes are relatively less happy in the Summer.

These findings have strong in plications for employment policies at both macro and micro levels. Joblessness is predominantly involuntary in nature across all ethnic groups, suggesting that employment is already viewed as desirable by the unemployed. Efficient macro policy should therefore target labour demand rather than focussing on supply-side initiatives aimed at making unemployment even less attractive, as characterised by government policy throughout the 1980's and to a lesser extent in the 1990's.

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Reducing the white ethnic m inority unemployment differential may require ethnic m inority specific job creation and training. One example of such a policy would be to provide English language courses to ethnic m inority groups in order to make them more attractive to potential employers. For example, only 35% of unemployed South A sian males in our sample speak English fluently, compared with 61% of those in employment.¹⁸

In addition to government initiatives aimed at making those from ethnic minority backgrounds more employable, these results also indicate a need for enforcement of equal opportunities legislation to prevent employer-led discrimination. Continued government support should be given to institutions such as the Commission for Racial Equity, which promotes the adoption of ethnic monitoring at the workplace, for example in employment, promotion opportunities and wages, under the auspices of the Race Relations A ctof 1976.

V.CONCLUSION

We have used data from the Fourth N ational Survey of Ethnic M inorities collected by the PSI in 1994 to investigate whether the high unem ployment experienced by ethnic m inority men in Britain is predom inantly voluntary or involuntary in nature. U sing the approach of C lark and O swald (1994), we use responses to questions on several dimensions of mental well-being to form an index of happiness. The estimates from separate ordered probitm odels of happiness for white, black C aribbean and South A sian men, suggest that unem ployment, holding other characteristics constant, is associated with a significantly lower level of happiness than employment. Thus we are able to confirm the results of C lark and O swald (1994) using a different data source, definition of happiness and across ethnic groups.

M oreover, we have extended the analysis by investigating whether it is employment perse, which is the important determinant of happiness, or rather whether it is the type of job which is the prime determinant. Our results suggest that for both white and ethnic minority groups, both 'good' and 'bad' jobs yield significant happiness benefits over unemployment even when household income is controlled for, indicating that there are non-pecuniary benefits associated with work which are not confined to the better elements of the labour market.

¹⁸ Interestingly, whereas poor English language ability significantly reduces the probability of working, it has no significant in pacton reported happiness.

These results indicate that efficient employment policy must focus predominantly on the demand for labour and that this is true for all ethnic groups. Observed differences in rates of unemployment cannot be attributed to voluntary joblessness on the part of ethnic minorities and therefore, attempts to reduce these differences will require a combination of job creation and training schemes specifically aimed at these groups and the enforcement of existing equal opportunities policy.

${\tt APPENDIX}$

TABLE A1

Sample Characteristics

	W hite		Bl	ack	South A sian		
			Cari	obean			
	M ean	SE.	M ean	SE.	M ean	SE.	
1 orking	.731	.015	573	.032	566	.017	
	1 4 3	014	002	010	150	010	
Self-employed	143	.014	.092	.019	156	.012	
Good job	.487	.016	377	.031	244	.015	
Badjob	100	.009	105	.019	166	.013	
Unem ployed	121	.011	255	.028	232	.015	
N on-participant	149	.016	172	.024	202	.014	
G ross weekly household	3731	6.65	280.4	8.58	260.6	525	
incom e							
Age	39.03	.423	39.44	.884	37.03	.439	
Single	364	.016	456	.032	228	.014	
M arried/cohabiting	.636	.016	544	.032	.772	.014	
Numberofchildren	.616	.034	.745	.073	1.80	.059	
Nolong-term illness	.725	.015	.741	.028	.870	.009	
Long-term illness	275	.015	259	.028	176	.013	
Degræ or equivalent	123	.011	.071	.017	160	.013	
'A'/'0' level	189	.013	126	.022	268	.015	
Vocational	.448	.016	.431	.032	163	.013	
N o qualifications	240	.014	372	.019	409	.020	
Bom in the UK	_	_	435	.032	167	.013	
Bom abroad	_	_	.565	.032	.833	.013	
Indian	_	_	_	_	317	.016	
Pakistani	_	_	_	_	338	.016	
Bangladeshi	_	_	_	_	154	.012	
A frican Indian	_	_	_	_	190	.013	
North	312	.015	105	.019	234	.015	
M idlands	162	.012	268	.028	293	.015	
GreaterLondon	.097	.009	.418	.032	377	.010	
South	.007	.016	209	.026	.096	.010	
High unem ploym entward	123	.010	.469	.020	.537	.010	
Low unem ploym entward	.877	.011	.531	.032	.463	.017	
חסיא מוזפוו היסאוו פורא מומ	JU / /	•UTT	LCL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	40J	JT1	
W inter	.883	.011	423	.032	.642	.016	
Spring	.073	.008	247	.028	170	.013	
Summer	.013	.004	243	.028	108	.011	
Autumn	.031	.006	.087	.016	.080	.009	
Sample	943		239		851		

	M	odel1	М	odel2	М	odel3	M odel4		
	В	SE.	В	SE.	В	SE.	В	SE.	
W orking	480	106***	585	110***	386	123***	_	_	
Self-employed	_	_	_	_	_	_	266	146*	
G ood job	-	_	-	-	-	_	.439	132***	
Badjob	-	-	-	_	-	-	.418	155***	
N on-participant	230	.132*	166	137	109	.139	110	139	
Log household incom e	_	-	-	_	266	.071***	260	.073***	
Age	_	_	070	.020***	066	.020***	064	.021***	
Age squared / 100	_	_	.089	.025***	.086	.025***	.085	.026***	
M arried/cohabiting	_	_	.081	.087	.011	.089	.012	.090	
Numberofchildren	_	_	.066	.038*	.055	.038	.054	.038	
Long-term illness	_	_	-482	.081***	480	.081***	482	.081**	
Degree or equivalent	-	_	-312	128**	-470	137***	-470	138**	
'A'/'0'level	-	_	089	.114	-196	117*	-194	117*	
V ocational	-	-	-282	.093***	-331	.095***	-329	.094**	
North	_	_	382	.086***	388	.087***	383	.067**	
M idlands	-	_	.110	102	130	103	126	103	
G reater London	-	_	022	134	085	138	080	138	
High unem ploym ent	-	-	237	119**	301	122**	303	122**	
W inter	_	_	_	_	019	134	021	134	
Summer	-	-	_	-	203	341	204	341	
Autumn	_	-	-	-	272	238	271	239	
Sample		943		943		943		943	
Log Likelihood		-1613.6		-1571.0		-1562.7		-1561.	
c^2		24.7***		1099***		126.7***		128,9**	

TABLE A2

Ordered Probit Happiness Equations: White Males

Notes:

1. `***' significantat1% level; `**' significantat5% ; `*' significantat10% .

2. '-' indicates that the variable is not included in the model. Six constant thresholds were also estimated.

3. The base categories are unem ployed, not married, has long-term illness, no qualifications, living in the South of England in a low unem ployment ward, interviewed in the spring.

0 rdered Probit H app		odel1		odel2		odel3	M odel4		
	В	SE.	В	SE.	В	SE.	В	SE.	
W orking	587	164***	581	198***	566	184***	_	_	
Self-employed	_	-	_	_	_	_	538	294*	
G ood job	-	-	-	_	-	-	. 469	198**	
Badjob	-	-	-	-	_	-	932	298***	
N on-participant	. 448	216**	. 466	223**	4 89	244**	519	245**	
Log household incom e	_	-	_	_	175	206	305	224	
Age	_	_	010	.045	.001	.046	.011	.049	
Age squared /100	_	_	.024	.055	.012	.056	.001	.058	
M arried/cohabiting	-	_	-114	190	-109	.191	-133	192	
Numberofchildren	_	_	.007	.077	.007	.078	.006	.079	
Long-term illness	-	—	-591	177***	-578	178***	-582	179***	
Degree or equivalent	-	—	076	305	099	310	093	310	
'A'/'0' level	-	_	131	271	113	272	108	273	
Vocational	-	-	.049	184	.056	186	.073	187	
B om abroad	-	-	_	_	_	_	.011	220	
North	_	_	-207	308	-329	317	-324	318	
M idlands	-	—	-150	224	094	229	086	230	
G reater London	-	_	-165	210	-167	211	-160	212	
H igh unem ploym ent	-	_	336	180*	353	181**	310	182*	
W inter	_	_	_	_	135	.180	.088	184	
Summer	_	-	_	_	361	216*	363	218*	
Autumn	-	-	-	-	324	283	332	285	
Sample		239		239		239		239	
Log Likelihood		-385.4		-376.6		-374.4		-3731	
c^2		12.7***		302***		34.7***		37.3**	

table a3

O rdered Probit Happiness Equations: Black Caribbean Males

Notes:

1. ****' significant at 1% level; ***' significant at 5%; **' significant at 10%.

2. '-' indicates that the variable is not included in the model. Six constant thresholds were also estimated.

3. The base categories are unem ployed, not married, has a long-term illness, no qualifications, born in the UK, living in the South of England in a low unem ploymentward, interviewed in the spring.

	Мо	odel 1	М	odel2	М	odel3	M odel4		
	В	SE.	В	SE.	В	SE.	В	SE.	
W orking	302	. 095***	224	102**	243	107**	_	_	
Self-employed	_	_	_	_	_	_	274	134**	
Good job	-	_	-	-	-	_	302	138*	
Badjob	-	-	-	-	-	-	231	133**	
N on-participant	-191	.113*	-188	.131	-178	.132	-155	134	
Log household incom e	_	_	_	-	.002	.081	.014	.086	
Age	_	_	089	.025***	087	.025***	096	.027***	
Age squared /100	-	_	102	.030***	.099	.030***	108	.032***	
M arried/cohabiting	-	_	230	136*	227	136*	226	137*	
Numberofchildren	_	_	.058	.025**	.057	.025**	.032	.029	
Long-term illness	_	_	800	112***	814	112***	- . 809	113***	
Degree or equivalent	_	_	063	.124	055	.126	023	129	
'A'/'0' level	_	_	225	107**	233	107**	229	108**	
Vocational	-	_	065	.119	068	.120	037	122	
B om abroad	_	_	_	_	_	_	250	141*	
Pakistani	-	_	-	_	-	_	236	.114**	
Bangladeshi	-	_	-	_	-	_	167	148	
A frican Indian	-	-	_	-	-	-	.025	.117	
North	_	_	.062	157	.012	159	-106	167	
M idlands	-	_	325	153**	293	159*	191	161	
G reater London	_	_	285	142**	228	145	205	147	
High unem ploym ent	-	-	043	.088	039	.089	088	.094	
W inter	_	_	_	_	.040	.109	.045	109	
Summer	_	-	-	_	-131	154	-280	157*	
Autumn	_	_	-	-	.021	169	004	171	
Sample		851		851		851		851	
Log Likelihood		-11751		-1123.5		-1121.4		-116.0	
c^2		281***		1313***		135.6***		146.4***	

table a4

O rdered ProbitH appiness Equations: South Asian M ales

Notes:

1. ****' significantat1% level; ***' significantat5%; **' significantat10%.

2. '-' indicates that the variable is not included in the model. Six constant thresholds were also estimated.

3. The base categories are unem ployed, not married, has a long-term illness, no qualifications, Indian born in the UK, living in the South of England in a low unem ployment ward, interviewed in the spring.

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REFERENCES

Argyle, M. (1989). The Psychology of Happiness. Routledge: London.

- Becker, G. (1971). The Economic of Discrimination. 2nd Edition, University of Chicago Press: Chicago, US.
- Blackaby, D., Drinkwater, S., Leslie, D. and Murphy, P. (1997). A picture of male and female unem ployment among Britain's ethnic minorities. Scottish Journal of Political Economy, 44, pp. 182–197.
- Blackaby, D., Leslie, D., Murphy, P. and O'Leary, N. (1999). Explaining racial variations in unem ploym entrates in Britain. Manchester School, forthcom ing.
- Brown, C. (1984). Black and White Britain. Heinmann.
- Chiswick, B. (1978). The effect of Americanisation on the earnings of foreign-born men. JournalofPoliticalEconomy, vol.86, pp.897-921.
- Chiswick, B. (1982). The employment of immigrants in the United States. In W. Fellner (ed.) Contemporary Economic Problems, American Enterprise Institute: Washington DC, pp. 1-37.
- Chiswick, B. and Hurst, M. (1998). The employment, unemployment and unemployment compensation benefits of immigrants. Research in Employment Policy, vol. 2, forthcoming.
- Clark, A. (1996). Job satisfaction in Britain. British Journal of Industrial Relations, vol. 34, pp. 189–217.
- Clark, A. and Oswald, A. (1994). Unhappiness and unem ployment. Economic Journal, 104, pp.648-59.
- Darity Jr., W. and Goldsmith, A. (1996). Social psychology, unemployment and macroeconomics. Journal of Economic Perspectives, 10, pp. 121-40.
- Davidson, R. and MacKinnon, J. (1993). Estimation and Inference in Econometrics. Oxford University Press: New York.
- Fieldhouse, E. and Gould, M. (1998). Ethnic minority unemployment and local labour markets in Great Britain. Environment and Planning, vol. 30, pp. 833-853.
- Gerlach, K. and Stephan, G. (1996). A paper on unhappiness and unem ployment in Germany. Economics Letters, 52, pp. 325-330.
- Greene, W. (1993). Econometric Analysis. 2nd Edition, Macmillan: New York.
- Jones, T. (1993). Britain's Ethnic M inorities: An Analysis of the Labour Force Survey. Policy Studies Institute: London.
- Hatton, T. and W heatley Price, S. (1998). M igration, m igrants and policy in the United Kingdom .CEPR D iscussion Paper, no. 1960, Novem ber.

- Korpi, Y. (1997). Is utility related to employment status? Employment, unemployment, labour market policies and subjective well-being among Swedish youth. Labour Economics, 4, pp. 125-47.
- M odood, T., Berthoud, R., Lakey, J., Nazroo, J., Sm ith, P., Virdee, S., and Beishon, S. (1997). Diversity and Disadvantage: Ethnic Minorities in Britain. Policy Studies Institute: London.
- Nazroo, J. (1997). Ethnicity and Mental Health: Findings from a National Community Survey. Policy Studies Institute, London.
- O swald, A.J. (1997a). Happiness and econom ic performance. Econom ic Journal, 107, pp. 1815-1831.
- O swald, A.J. (1997b). Happiness and econom ic performance. CEPR D iscussion Paper, no. 18, September.
- Shields, M. and W heatley Price, S. (1998). The earnings of male immigrants in England: evidence from the quarterly LFS. Applied Economics, 30, pp. 1157–1168.
- Theodossiou, I. (1998). The effects of low -pay and unem ployment on psychological wellbeing: a logistic regression approach. Journal of Health Economics, 17, pp. 85-104.
- Thom as, J. (1997). Ethnic variation in commuting propensity and unemployment spells. Discussion paper in Economics, University College London, no. 97-02.
- Thomas, J. (1998). Who feels it knows it: work attitudes and excess non-white unemployment in the UK. Ethnic and Racial Studies, vol. 21, pp. 138-150.
- W att, PB., Jackson, PR., and Banks, M. (1988). Unem ployment and mental health: some British studies. Journal of Social Issues, 44, pp. 47-68.
- W heatley Price, S. (1998). The unem ployment experience of male immigrants in England. Discussion Paper in Public Sector Economics, University of Leicester, no. 98/10, November.
- W inkelm ann, L. and W inkelm ann, R. (1995). Happiness and unem ploym ent: a panel data analysis for Germ any. Konjunkturpolitik, 41, pp. 293–307.
- W inkelm ann, L. and W inkelm ann, R. (1998). W hy are the unem ployed so unhappy? Evidence from paneldata. Econom ica, 65, pp.1–17.