

How Do Employment Effects of Job Creation Schemes Differ with Respect to the Foregoing Unemployment Duration?*

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Abstract

Based on new administrative data covering entrances into job creation schemes between July 2000 and May 2001, the effects of this active labour market policy programme on the employability of the participating individuals are evaluated. The programme effects are estimated considering the timing of treatment in the individual unemployment spell. Applying propensity score matching in a dynamic setting where the time until treatment in the unemployment spell is stratified into quarters, regional (East and West Germany) as well as gender differences are considered in the estimation. As matching is concerned with selection on observables only, we test the robustness of the estimates against possible unobserved influences. The results in terms of employment show a mixed picture. For West Germany, most of the estimates are insignificant at the end of the observation period, but positive exceptions are found for persons starting in the fifth or ninth quarter of the unemployment spell. For East Germany, none of the groups experiences an improvement of the labour market situation. Instead, the majority of the estimates establishes negative employment effects until the end of the observation period (30 months after start of programmes). Hence, job creation schemes decrease the employment chances of the participating individuals.

Keywords: Evaluation – Active Labour Market Policy – Job Creation Schemes – Administrative Data – Propensity Score Matching – Hidden Bias

JEL Classification: J68, C14, H43

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1 Introduction

The persistently bad situation of the labour market with unemployment rates of about 9.3 percent in West and 20.1 percent in East Germany (2003) in association with tight government budgets and a spending on labour market policy of about 73.7 bn Euro (2003) necessitates a critical review of the set of German active labour market policy (ALMP) programmes. One important programme during the 1990s and beginning 2000s have been job creation schemes (*Arbeitsbeschaffungsmaßnahmen*, JCS). Designed as a kind of subsidised work for unemployed persons with barriers to employment, JCS aim at stabilising and qualifying persons for later re-integration into regular jobs. Although efforts of the Federal Employment Agency (FEA) were immense and programmes have been the second most important programme in terms of fiscal spending and persons promoted (about 1.6 million persons joined JCS between 1997 and 2003 with expenditures of over 23 billion Euros), scepticism about the effectiveness of the programmes in terms of improved employment chances arose. The main criticism of the programmes concerned the lack of elements to improve human capital and negative incentives for job search due to too high wages as well as the long duration of the programmes (about twelve months).

The effects of JCS in Germany have been analysed in a number of studies.¹ The earlier studies concentrate on East Germany and are based on survey data sets covering small numbers of observations only that do not allow to consider effect heterogeneity explicitly. In addition, due to inexact information on programmes and programme durations drawing policy relevant conclusions from the results may be problematic. In a series of more recent studies based on administrative data of the FEA covering entries in JCS in February 2000, employment effects of programmes for West and East Germany have been analysed taking account of several sources of effect heterogeneity. The overall picture from the studies is disappointing and JCS seem to perform poorly in improving the employability or the chances of leaving unemployment for the participating individuals. However, although the recent studies find a heterogeneous picture of the effects for different subgroups and economic sectors of the programme, possible differences due to the timing of the programme in the unemployment spell have not been analysed yet.

Differences due to the timing are of interest for policymakers and caseworkers as they provide information to be used to develop intervention strategies to avoid long-term unemployment. One might speculate that programmes designed to stabilise and qualify persons with barriers to employment are more useful if used later in the unemployment spell (when long-term unemployment already occurred), but are useless for short-term unemployed persons and would only prolong the individual unemployment duration artificially. Measuring the programme effects with respect to the timing of treatment is not an easy task. Abbring and van den Berg (2003) suggest to use a multivariate mixed proportional hazards model to estimate the programme effect. Unfortunately, reliable data on programmes and labour market outcomes for Germany is

¹ See eg Huebler (1997), Kraus, Puhani, and Steiner (2000), Eichler and Lechner (2002), Caliendo, Hujer, and Thomsen (2005b) and Caliendo, Hujer, and Thomsen (2006).

only available from 2000 onwards with an up to two years time lag. Thus, analysing JCS that are designed for long-term unemployed and have a regular duration of twelve months would lead to a very small sample of inflows. Alternatively, Sianesi (2004) proposes a more feasible approach that will be used here. She suggests to discretise the unemployment duration and estimate the treatment effects by a series of matching estimators. For different durations of unemployment until the start of the programmes, treatment effects are estimated separately. Thus, the estimated effects provide a picture of the effects with respect to the timing of treatment. However, it has to be mentioned that no interdependencies between the single groups in analysis are regarded in this approach and effects with respect to the timing of treatment could only be compared descriptively.

The analysis is based on unique data derived from the final version of the Programme Participants Master Data Set (*Maßnahme-Teilnehmer-Grunddatei*, MTG) and the Employment Statistics Register (*Beschäftigtenstatistik*, BSt) covering entries into JCS between July 2000 and May 2001. Since the main goal of the programmes is to prepare participants for the integration into regular employment and to increase their employment chances, we analyse the programme effects in terms of integration into regular employment until 30 months after start. Other goals of the programme are not considered explicitly in the study. The data contain rich information to characterise the individuals' labour market situations. Therefore, this study is the first one covering entries into programmes in an one year period and taking account of possible seasonal differences. In addition, the large number of observations in the sample allows to consider possible effect heterogeneity due to regional differences (East and West Germany) as well as with respect to gender explicitly. Programme effects are estimated using propensity score matching. Due to the rich data at hand and the large number of observations, assuming conditional independence seems to be justified in our context. We consider the timing of treatment by estimating the effects of JCS separately for different unemployment durations preceding the treatment, ie for up to twelve quarters of unemployment. Since matching is concerned with selection on observables only, additional unobserved influences are excluded by assumption. Thus, a major issue when using matching methods is to justify the conditional independence assumption with respect to the assignment process to programmes and employment and the data at hand. In addition, Rosenbaum (2002) suggest to test the robustness of the estimates against a possible hidden bias. Although the test does not provide evidence of further unobserved variables, it indicates sensitivity of the estimates and may be helpful for interpretation.

The results show mixed pictures. In West Germany, on the one hand participants seem to suffer more from the programme when joining early in the unemployment spell. However, for most of the groups, the estimated treatment effects are insignificant at the end of the observation period, ie the employment rate of the participants do not differ from that of the matched non-participants. On the other hand, there are two exceptions. Persons starting the programmes in the fifth or ninth quarter of the unemployment spell have an increased employment rate 30 months after the start of the programmes. The findings for East Germany

are more discouraging. Here, the majority of the groups show negative employment effects until the end of the observation period. However, six of the male and four of the female groups in analysis have insignificant employment effects at the end.

The paper is organised as follows. In the next section we will briefly describe the set-up and implementation of JCS in Germany. Section three presents the data in use. The evaluation approach applied in this study is introduced in the fourth section and its empirical implementation in section five. The estimated employment effects of JCS are discussed in section six. The final section concludes.

2 Job Creation Schemes in Germany

JCS were introduced in 1969. For a long time they have been the second most important measure of German ALMP after vocational training programmes. The legal basis is defined in §§260 to 271 and 416 Social Code III (*Sozialgesetzbuch III*, SGB III) enacted in 1998 that replaced the Work Support Act from 1969. As our analysis is based on programmes that have started during 2000 and 2001, we will concentrate our description of the institutional set-up to this time span. JCS provide jobs for unemployed persons with barriers to employment and aim at stabilising and qualifying the participants for later (re-)integration into regular (non-subsidised) work. The jobs are undertaken in different economic sectors, eg agriculture, construction or social services. Financial support is provided by wage subsidies (in general 30 to 75 percent of the workers salary) or loans to the implementing institutions, ie service providers or employers.² The ordinary duration of support for JCS is twelve months, but exceptions can be made in order of a longer duration (up to 24 months if programmes are of enforced priority or even 36 months if followed by a permanent employment). To avoid distortions of the market and to prevent substitution effects and windfall gains, activities should be granted only if they are additional in nature, of value for society and carried out by persons in need of assistance. Additional in nature means that without the subsidies the activities would not be accomplished now or in the near future. They are of value for society if their outcome is for the collective good. Due to these requirements, the majority of JCS are low qualification jobs.

Allocation of eligible individuals results from decisions by caseworkers. Eligibility is in general approved if persons are long-term unemployed (more than one year) or unemployed for at least six out of the last twelve months prior to programme start. Moreover, they have to fulfil the eligibility criteria for reception of unemployment benefits or assistance, for vocational training programmes, or for vocational integration of the disabled.³ Independently of those requirements, the local employment agencies (LEAs) are allowed to

² From 2002 to 2004, the implementing institutions could be supported by lump sum payments alternatively. Since 2004, grants for JCS consists of lump sum payments only.

³ Unemployment benefits (*Arbeitslosengeld*, UB) are paid for individuals who have contributed for at least twelve months to unemployment insurance (UI) during the last three years before unemployment (seasonally employed workers have a reduced contribution period of six months). UB amount to 60 (67) percent of the last average net earnings from insured employment (with at least one dependent child) and are paid from UI funds. The entitlement lasts for at least six months. The maximum duration is up to 32 months and depends on the contribution period and the individual's age. Payment to the UI is compulsory for all employees and amounts to 6.5 percent of employee's gross salary. However, persons with only a minor employment, civil servants, judges,

place younger unemployed (aged 25 or younger) without completed professional training, severely disabled persons, tutors and up to five percent of the participants who do not meet the general eligibility criteria. When the unemployed persons has registered at the LEA, the responsible caseworker takes up the case and meets the unemployed at regular intervals to evaluate the individual's efforts for finding a job and to conceive a plan for integration into employment in cooperation with the unemployed person. By this procedure, the responsible caseworker possesses a large degree of discretion with respect to the allocation of unemployed persons into programmes. The caseworker decides to offer a specific occupation in a JCS solely if his assessment of the individual's need of assistance implies that the unemployed person cannot be integrated into regular employment and does not meet the conditions for other ALMP programmes. The caseworker chooses the job in consultation with the unemployed person and according to the individual's qualification and interest. Priority should be given to projects that explicitly aim at improving the pre-conditions for permanent employment, provide occupations for unemployed with special barriers to employment, or improve the social and environmental infrastructure.⁴ Once decreed by a caseworker, the programme is compulsory for the individual and rejection will be sanctioned by benefit cancellation for up to twelve weeks. In repeated cases, the unemployed individual may lose his/her UI entitlement completely.⁵ Since placement depends on the availability of programmes, unemployed persons may not be assigned to programmes due to a limited supply of places.

JCS in Germany have been analysed in a number of studies, see eg Huebler (1997), Kraus, Puhani, and Steiner (2000), Eichler and Lechner (2002) and Caliendo, Hujer, and Thomsen (2004; 2005b; 2005a; 2006). Whereas the earlier studies are based on survey data and concentrate on East Germany, the more recent studies (since 2003) are based on administrative data of the FEA similar to that used here. Most studies could not establish positive effects in terms of the different outcome variables analysed (eg employment, unemployment) with some exceptions (see Eichler and Lechner (2002) and a number of subgroups in Caliendo, Hujer, and Thomsen (2004; 2005b; 2005a; 2006)). Due to this the overall picture is rather disappointing. There are a number of possible effects that may be reasonable for the empirical findings in the literature on JCS in Germany. A popular expected effect of offering unemployed individuals job opportunities is to avoid human capital depreciation and the increase of human capital. However, as Spitznagel and Magvas (1997) point out about 40 percent of the participants are allocated to jobs that are below the individual qualification level. Therefore, it may also be likely that JCS have a negative effect on human capital. Further positive

clergymen, professional soldiers, and some other groups of persons are exempted from contributions. Minor employment are jobs with a salary of less than Euro 325 (Euro 400 since 04/2003) as well as short-term and occasional jobs. The set-up of unemployment assistance (*Arbeitslosenhilfe*, UA) was changed within the Fourth Law 'Modern Services on the Labour Market' on January 1st, 2005. Until that time, UA was paid for persons who had exhausted their UB entitlement. UA amounted to 53 (57) percent of the last average net earnings from insured employment (with at least one dependent child). UA could have been paid potentially unlimited (until retirement age) if the individual satisfied the benefit conditions. UA was administered by the FEA, but funding was by tax. Since 2005, UA is pooled with social assistance (*Sozialhilfe*) in the so-called unemployment benefits II (*Arbeitslosengeld II*).

⁴ Unemployed persons with special barriers to employment are defined as long-term unemployed, severely disabled persons, older unemployed persons with placement restrictions, as well as applicants for vocational rehabilitation programmes.

⁵ See §144 SGB III for the definitions regarding the exposure of income support.

effects of the programme relate to the provision of ‘soft’ human capital (Gerfin, Lechner, and Steiger, 2005) and the habituation of individuals to regular employment (Spitznagel, 1992). Other intended positive aspects are an increase of the individual motivation and self-respect as well as a positive signal of the willingness and productivity of the participants. In contrast to that, programmes may signal low productivity as they are targeted to persons with the a-priori worst labour market perspectives (negative selection of low productive persons). In addition, participants may be seen to be passive in terms of job search as allocation to a programme is accepted. Further negative effects for the individual are a reduced own initiative to look for a job due to unrealistic expectation concerning permanent contracts following the programmes, due to too high wages during participation, or just due to the involvement into the programmes (locking-in effects).

3 Data

Our empirical analysis is based on data that stem from different administrative sources of the FEA that have been merged for this purpose. The interested reader is referred to the Data Appendix (Appendix B) for more details on the extraction and merging of the data as well as their contents. We use information on participants who joined JCS in six months: July, September, November 2000, January, March, May 2001. In addition, we have drawn six random samples from the job seekers population in the months preceding the programme starts to construct the comparison group. Whereas the original participants’ samples contain all individuals joining the programmes in the respective months, the proportions for the non-participants’ samples have been 20:1, ie for each participant starting a JCS in July 2000 we have drawn 20 job-seekers from June 2000 as potential comparisons, and so on.

The data cover a large number of characteristics to describe the individual’s labour market situation. There is information on the socio-demographic background of the unemployed individuals (eg age, gender), some detailed information on the qualification (eg schooling, occupational group) as well as the labour market history (eg duration of last occupation, number of job offers). All characteristics are surveyed by the caseworkers and are used for their decisions. Besides those ‘objective’ characteristics, the data contain some ‘subjective’ measures, including for example the appraisal of the individual’s qualification by the caseworker and an assessment of the placement restrictions. To consider demand side aspects, the data are completed by a set of indicators describing the regional labour markets according to Blien *et al.* (2004). With these large and informative data at hand, we are able to consider all relevant variables in the model for the participation decision and the labour market outcome. The outcome variable is regular employment. We define only regular employment as a success, all other kinds of subsidised work or participation in ALMP programmes are defined as a failure.

Since the labour markets in East and West Germany are different even 11 years⁶ after German Unification,

⁶ With respect to the time the programmes have started.

we analyse the effects separately for both parts. To achieve a better homogeneity of the groups in analysis, we exclude persons below 25 and over 55 years from analysis. To consider possible heterogeneity due to gender, we estimate the effects for men and women. We observe 5,360 (2,834) participating men (women) in West and 10,956 (13,491) in East Germany. In addition, we are able to use information on 1,104,664 job seekers to construct the comparison groups.

4 Evaluation Approach

4.1 Model of Potential Outcomes

A widely used method to evaluate the efficiency of ALMP programmes is the matching estimator embedded in the so-called *model of potential outcomes*.⁷ The model considers two possible states, ie individual i is imagined to either participate in a programme (1) or not (0) with Y_i^1 and Y_i^0 denoting the potential outcomes corresponding to the states. The individual causal effect of treatment is then defined as the difference of the two potential outcomes, ie $\Delta_i = Y_i^1 - Y_i^0$. However, since the individual cannot be in both states of the world at the same time, the observable outcome for i is given by $Y_i = Y_i^1 \cdot D_i + (1 - D_i) \cdot Y_i^0$, where $D_i \in \{0, 1\}$ is a binary treatment indicator. Due to that, one of the outcomes is unobservable for each individual and there is no opportunity to calculate the individual treatment effect directly from the data.

To make the model adequate for causal analysis, the stable unit treatment value assumption has to be made (SUTVA, see eg Rubin (1986)). SUTVA rules out any cross-effects, or general equilibrium effects, that may occur among potential programme participants because of their participation decision (Lechner, 2001). That is, the potential outcomes of an individual depend on the individual's participation decision only and are not affected by the treatment status of other individuals. Furthermore, whether an individual participates or not does not depend on the participation decision of other individuals. This additional feature excludes peer-effects (Sianesi, 2004). If we are willing to estimate the effect of the programme for a person drawn randomly from the participants sample, those effects are negligible and SUTVA could be assumed to be fulfilled.⁸

Due to the unobservability of one of the outcomes, direct estimation of the treatment effects is impossible and evaluation has to focus on population averages of gains from treatment. The most common parameter of interest in the empirical literature is the average effect of treatment on the treated (ATT), defined as

$$\Delta^{ATT} = E(\Delta|D = 1) = E(Y^1 - Y^0|D = 1) = E(Y^1|D = 1) - E(Y^0|D = 1), \quad (1)$$

which is the difference of the expected outcomes with and without treatment for participants. As it focusses

⁷ This approach has been variously attributed to eg Neyman (1923), Roy (1951) or Rubin (1974).

⁸ It should be noted, that since JCS have been used on a large extent especially in East Germany, assuming no spill-over effects on non-participants may be questionable. Thus, microeconomic evaluation can only analyse partial-equilibrium effects of the programmes. Further macroeconomic analyses of programme effects are necessary for a full evaluation, see eg Hujer and Zeiss (2005).

directly on the actually treated participants, it determines the realised gross gain for this group (Heckman, LaLonde, and Smith, 1999). Thus, its importance for policymakers becomes obvious, as programmes are in general targeted to certain groups, and by comparing the programme effect with its costs, the ATT is a reasonable approach to measure the performance of the programme, ie deciding whether the programme is a success or not (see Heckman, Ichimura, and Todd (1997)).

The second term on the right-hand side of eq. 1 is not identified. Simply using the observable non-participants' outcomes to approximate the unobservable participants' outcomes without treatment may lead to biased estimates, since participants and non-participants may be selective groups even in the absence of the programme, and thus $E(Y^0|D = 1) \neq E(Y^1|D = 1)$. The basic idea of the matching approach is to find in a large group of non-participants those individuals who are similar to the participants in all relevant pre-treatment characteristics X ('statistical twins'). For that reason, the method appeals to the intuitive principle that it is possible to 'adjust away' differences between participants and non-participants using the available regressors (Heckman, LaLonde, and Smith, 1999). Originated in the statistical literature, matching thus generates a comparison group that resembles an experimental control group in one key respect: conditional on X , the distribution of the counterfactual outcome for the participants is the same as the observed distribution of the outcome of the comparison group (Heckman, LaLonde, and Smith, 1999). That is, the construction of the correct sample counterpart for the missing information on the treated outcomes had they not participated consists in pairing each programme participant with one or more members of a comparison group (Blundell and Costa Dias, 2002). Therefore, the matching approach allows to compare the treated and the non-treated outcomes directly, without having to impose structure on the problem. This is the analogy to random assignment in a (social) experiment. Since the method of matching is a non-parametric approach, an advantage is its generality. However, since matching methods concern themselves solely with selection on observables, they require very rich data in order to make the estimates of the treatment effects credible (Smith, 2000).

For the ATT to be identified the so-called *conditional independence assumption* (CIA) has to be invoked (Lechner, 2001), $Y^0 \perp\!\!\!\perp D|X$. It states, that conditional on the set of relevant (observable) covariates X the non-participation outcome Y^0 is independent of the participation decision. In addition, the availability of non-participating analogues for the participants must be guaranteed (*common support*), ie $Pr(D = 1|X) < 1$ (Smith and Todd, 2005a). Since the CIA is in general untestable, one has to be careful in choosing the set of relevant variables. It is well known that matching on X can become hazardous when X is of high dimension ('curse of dimensionality', Pagan and Ullah (1999)). To deal with this dimensionality problem, Rosenbaum and Rubin (1983) suggest to use balancing scores. One possible balancing score is the probability of participation in a programme, ie the propensity score $p(X) = E(D = 1|X)$, that summarises the information of the relevant covariates X into a single index function. Therefore, all biases due to observable covariates can be removed by conditioning solely on the propensity score.

4.2 Some Methodological Issues

Up to now, we have discussed the evaluation approach for the static binary treatment case, ie treatment is exposed once and at one specific point of time only. In that case, those individuals who take the treatment are defined as the participants; all others are the non-participants. Simplifying the evaluation problem that way may be reasonable for social experiments. In contrast, for most regular ALMP programmes this approach may concur rather poorly (Fredriksson and Johansson (2004)). It becomes obvious by taking a look on the ALMP system in Germany. This comprehensive system is characterised by a wide array of different ongoing programmes which take place continuously over time and are open to job-seekers who meet the differing eligibility criteria. For that reason, job-seekers can participate in a programme at different points of time in the unemployment spell. Furthermore, for some programmes, like for example JCS, unemployment is in general a pre-condition for participation. Therefore, the starting point of the programme within the individual unemployment spell may be an important determinant for the type of programme an individual is assigned to as well as for the selectivity of the participating individuals. Moreover, the calendar time of the treatment also affects the assignment process, because of changing budget constraints within the calendar year or changes in the focus of the policy interventions from one year to another (Speckesser (2004)). An important issue in this context is raised by Sianesi (2004) who analyses the efficiency of Swedish ALMP programmes that are similar to the German programmes. She argues that within the Swedish system an unemployed person will join a programme at some time, provided the individual remains unemployed long enough. Consequently, the reason why an unemployed individual is not observed to participate in a programme is that the person has found a job before or the time horizon of the analysis is too short. Obviously, although participation in a programme is not mandatory in Germany like in Sweden, it tends to be true that unemployed persons become more likely to participate in any programme the longer they are unemployed. Thus, using Sianesi's argumentation is reasonable for the evaluation of German ALMP, too.

Hence, this has serious implications for the choice of the comparison group and the econometric evaluation estimator. If we would choose those individuals as the comparison group who have been observed never to participate in the data, this may invalidate the CIA, as we have to condition on future outcomes. The conditioning on future outcomes may furthermore bias the estimates. To give an example, if we select all individuals as the comparison group who have never been on a programme within the observation window and for whom we observe a transition into employment, we may underestimate the true treatment effects because one can assume that this group contains a large number of individuals who were intended to be treated because they have a per se higher probability to become regular employed.

For that reason, participation and non-participation have to be defined dynamically, ie with respect to the point of time the comparison should be made. According to Sianesi (2004), we define persons who have neither entered a programme nor left unemployment up to a specific point in time as non-participants of interest or 'waiters' (in the sense that they are waiting to be allocated to a programme). Thus, non-

participation can be interpreted as the default state for each individual and everybody is a non-participant until entering a programme or leaving for employment. In this context it should be noted that individuals who are defined as non-participants in the moment we start our comparison may enter a programme at a later point of time. The approach has been used by Steiger (2004) evaluating the effects of different ALMP programmes in Switzerland, too. Speckesser (2004) and Fitzenberger and Speckesser (2005) apply it to analyse the effects of a programme called *provision of specific professional skills and techniques* in Germany. A similar definition of non-participation is used by Brodaty, Crépon, and Fougere (2001) who focus on the effects of youth employment programmes in France. Fredriksson and Johansson (2004) try to formalise this idea and to connect the matching approach with the concept of duration models.

In contrast, several studies use only individuals who have never participated within the observation window as the comparison group, for example Gerfin and Lechner (2002) or Lechner, Miquel, and Wunsch (2005a; 2005b). To overcome the problem of comparing participating individuals to non-participants who were never intended to be treated, they apply an approach suggested by Lechner (1999) first. In this approach, each comparison individual is assigned a random starting date by drawing from the discrete distribution of the estimated starting dates of the participants. All non-participants who are already employed at the time of the hypothetical starting date are excluded from the analysis. However, this approach adds additional noise to the data and does not take the timing of events seriously (Fitzenberger and Speckesser (2005)). Moreover, since the observation window is in general limited the observable distribution of the starting dates will be truncated. Thus, imposing the starting date distribution to the non-participants by random drawing may be biased (Fredriksson and Johansson (2004)).

Before starting to formalise the evaluation approach in the dynamic setting, some words should be spent on the effect we estimate. In general, two aspects of a programme determine the programme effect: the content of the programme and the reduced search intensity for regular work whilst in the programme. On the one hand, the content of the JCS should be the occupational stabilisation (and qualification) of an unemployed individual by promotion of a job. On the other hand, programme participation is associated with full-time employment and consequently a reduced search intensity for regular jobs during the programme (locking-in effect). Whereas the first aspect is assumed to affect the employability of the individual positively, the second aspect reduces the employment chances (for at least the time of the programme). Both effects could not be disentangled and are assumed to be the main building blocks of the programme effect. However, the relevance of both aspects for the programme effect is a priori unclear due to a third component that drives the effect: the time of the treatment start. The composition of the impacts of both aspects has to be assumed to differ with time. To give an example: The content of the programme (occupational stabilisation) may be more useful for the individual the longer he/she is unemployed. In contrast, being locked in the programme after a longer duration of unemployment may be less severe for the employment chances, as job offers have to be expected to arrive more rarely than earlier in the unemployment spell. Hence, the utility of the programme

is expected to be higher with longer unemployment duration due to the higher relevance of the programme content and the minor importance of the locking-in effect. From this discussion it becomes obvious that the programme effect depends on the time the treatment is offered. In other words, the effect of a JCS offered at time u of the unemployment spell is different from the effect of a JCS offered at $u + 1$ since the composition of the determinants of the programme effects differs. This is particularly important for the policy maker, since offering the programme at different times of the unemployment spell implies differing impacts of the programme on the employment chances. For that reason, assessing ‘the’ programme effect independently of the timing is difficult since the timing is a major aspect for programme’s effectiveness.

4.3 Evaluation Approach in the Dynamic Setting

To formalise the evaluation approach in the dynamic setting, ie when the timing of treatment in the unemployment spell is considered explicitly, we will introduce some additional notation. Let $U = \{0, \dots, U_{\max}\}$ define the discrete elapsed unemployment duration of the individual since registration at the LEA. Furthermore, let u denote the point of time in the unemployment spell the programme of interest starts and D_u the treatment indicator with the discrete time index. $D_u = 1$ if the individual starts a programme at time u of the unemployment spell, $D_u = 0$ if the individual remains unemployed at u . Programme effects are estimated for time t , ie the time after the programme has started. The hypothetical outcomes for time t given a treatment at time u are then defined as $Y_{t,u}^1$ for individuals who received the treatment at u and $Y_{t,u}^0$ for individuals who have not received the treatment at least up to time u .

The parameter of interest for each u is then the average effect in t for individuals starting a programme in quarter u of their unemployment spell, of joining the programme at u compared to not joining at u . This is (in analogy to eq. 1):

$$\begin{aligned} \Delta_{t,u}^{ATT} &= E(Y_{t,u}^1 - Y_{t,u}^0 | D_u = 1, D_1 = \dots D_{u-1} = 0) \\ &= E(Y_{t,u}^1 | D_u = 1, D_1 = \dots D_{u-1} = 0) \\ &\quad - E(Y_{t,u}^0 | D_u = 1, D_1 = \dots D_{u-1} = 0). \end{aligned} \quad (2)$$

Whereas the first term is identified in the data by the observed outcome of the participants, for the second term to be identified, we have to invoke an adjusted version of the conditional independence assumption. That is, the hypothetical outcome at time t after not participating up to time u is independent of a programme participation at time u , conditional on a set of observed characteristics X_u or the propensity score $p(X_u)$ measured at time u . By use of the propensity score, this *dynamic version of the conditional independence assumption* (Fitzenberger and Speckesser, 2005) is defined as:

$$Y_{t,u}^0 \perp\!\!\!\perp D_u | p(X_u), D_1 = \dots = D_{u-1} = 0. \quad (3)$$

It states that treated and non-treated individuals are comparable in their non-treatment outcomes at time t conditional on $p(X_u)$, conditional on being unemployed up to time $u - 1$, and conditional on not receiving

treatment before u . If this assumption holds, the parameter of interest could be estimated by propensity score matching in the following way:

$$\begin{aligned} \Delta_{t,u(MAT)}^{ATT} &= E(Y_{t,u}^1 | p(X_u), D_u = 1, D_1 = \dots = D_{u-1} = 0) \\ &\quad - E_{p(X_u) | D_u=1, D_1=\dots=D_{u-1}=0} \{ E_Y(Y_{t,u}^0 | p(X_u), D_1 = \dots = D_u = 0) \}. \end{aligned} \quad (4)$$

In analogy to the ATT in the static setting, the second term approximates the participants' outcome in t of not joining a programme in u by the outcome of the comparable non-participants in u .

For interpretation of the results one has to bear in mind, that the chosen comparison group does not reflect a no-programme state, but rather possibly postponed participation. What should be noted is that individuals are not allowed to anticipate future treatments as well as future labour market outcomes. Anticipatory effects of a treatment are present if for example those individuals who are informed about a future ALMP programme reduce their search activity in order to wait for the treatment. Anticipatory effects of future employment may occur if the individual knows that the former employer is going to call him or her back. In that case, the person is likely to have no or less incentives to participate in a programme at any given month in unemployment (Sianesi (2004)). However, Abbring and van den Berg (2003) point out that the exclusion of anticipatory effects does not rule out that the individuals know and act on the determinants of the assignment to treatment or labour market outcomes, ie individuals are allowed to adjust their optimal behaviour to the determinants of the treatment process, but not to the realisations of the treatment. This is not a problem for the analysis as long as treated and non-treated individuals anticipate the chances of these events conditional on $p(X_u)$ and the elapsed unemployment duration in u in the same way (Fitzenberger and Speckesser (2005)).

5 Empirical Analysis

5.1 Plausibility of the Conditional Independence Assumption

A central issue for the evaluation of treatment effects of JCS by matching is the justification of the CIA. As mentioned above, it is necessary to observe all covariates that, conditional on having spent a given unemployment duration u , jointly influence the participation decision at that time (D_u) and the outcome variable where such decision to be postponed further ($Y_{t,u}^0$) (see Sianesi (2004)). If this assumption holds, the observed probability distribution of subsequently finding a job or of later joining a programme for the non-participants in time u of the unemployment spell is the same as the counterfactual distribution for the treated individuals in u . However, the choice of the relevant variables is not straightforward. Therefore, we relate our discussion of the plausibility to the (institutional) set-up of the assignment process to JCS and to the rich set of variables available in the data set.

To start with, we will recapitulate the relevant aspects of the assignment process to be considered in the

model. Allocation of an unemployed individual to a programme depends to a large extent on the caseworker's assessment of the individual's need of assistance. This need of assistance is assessed based on regular interviews of the unemployed individual to evaluate his or her efforts for finding a job. In particular groups with barriers to employment, eg long-term unemployed, severely disabled or older unemployed persons, are in need of assistance. In addition, to become eligible for participation in a JCS, persons should in general be unemployed for at least six out of the last twelve months before the start of the programme and should fulfil the criteria for reception of UI benefits. The need of assistance as assessed by the caseworker implies that potential participants cannot be integrated into regular employment or into another ALMP programme at that time. Moreover, a place in a programme has to be available. If these three preconditions are fulfilled, the caseworker may offer the unemployed individual a specific occupation in a JCS. For the CIA to be achieved it is crucial to identify enough information able to capture these determinants of allocation.

As mentioned in the description of the data (see Appendix B) we are able to control for a large number of variables characterising the individual's past and current (at the start of the treatment) labour market situation. We expect employment and unemployment experience, gender and geographic region of the unemployed individuals to be the most important determinants of the participation decision. Following Sianesi (2004), the elapsed unemployment duration of the individuals can be used to capture possible unobservable influences for the participation decision. These influences occur for example due to changes in motivation, loss of hope, or the perceived or actual human capital depreciation. Moreover, in the presence of duration dependence the outflow to employment will differ between individuals with unemployment durations less than u for reasons unrelated to the programme. Thus, it is crucial to ensure that comparison individuals have spent in unemployment at least the time it took the participants to join the programme (Sianesi, 2004). In addition, gender seems to be of particular interest due to the differing labour market attachment and behaviour of men and women. The strong regional differences of the German labour market between East and West Germany in association with the different amount of ALMP programmes implemented in both parts are the third main aspect to be considered when evaluating the employment effects of JCS.

For those reasons, we condition on previous unemployment experience by stratifying the samples for East and West Germany and men and women by the discretised unemployment duration $U = 1, 2, \dots, U_{\max}$ with $U_{\max} = 12$ and quarter as unit.⁹ Hence, we will analyse the employment effects of a JCS for groups of individuals that join within the first three years of the current unemployment spell. However, we have to note that we can only identify the programme effect for persons joining in quarter k and quarter l with $k \neq l$ separately and compare the estimates descriptively ex post. We are not able to analyse the effects for participants of quarter k if they had decided to wait longer and started a treatment in quarter l .

In addition to the individual unemployment experience, programme effects may also differ with calendar

⁹ Using this kind of aggregation is adequate for consideration of differences due to the timing of treatments since we expect the probabilities of leaving unemployment for programmes or employment to remain relatively constant within quarters of the unemployment spell.

time. Fitzenberger and Speckesser (2005) note that an ideal approach should consider the different starting dates of unemployment as well as the different starting dates of the programmes. However, the number of observations available for analysis would be too small. Since we use data on programmes that have started during one year and persons are allocated to programmes not at specific points of time (like for example in vocational training programmes that provide a professional training to the individuals), we assume the calendar date of unemployment entry to be of minor importance for the evaluation of the programme effects. Therefore, we aggregate the six programme cohorts into one sample and consider the time the individuals have spent in unemployment before. However, to take account of possible seasonal differences we regard seasonal dummies for the different programme starts in the estimation.¹⁰

To take account of the employment experience and qualification of the individuals we use information the caseworkers survey to evaluate the unemployed person's likelihood of employment. These attributes comprise the duration of the last employment and a dummy for work experience, the schooling and professional training of the individuals, and the work time of the last occupation. The duration of the last employment in combination with work experience are good proxies for the individual's familiarity with work. We consider employment duration in four different categories, ie up to 180 days, between 180 and 365 days, 366 to 730 days, and more than 730 days. This distinction allows to proxy different levels of specific human capital accumulation during the jobs to some extent. Whereas we could expect persons who have worked for more than two years to own a relevant level of specific human capital, this expectation would not hold for persons who have worked for less than 180 days. Unfortunately, the data lack information concerning the nature of the contract, ie whether the unemployed individual worked within a permanent or temporary contract before, the employment duration could be used as a proxy only. Schooling and professional training are regarded to assess the general human capital of persons. Both variables are good indicators for the individual qualification. The work-time of the last occupation is used to denote the past labour market involvement of the individuals. The characterisation of the individual's qualification is completed by a subjective assessment of the caseworkers. This valuation seems particularly important to be considered in the model as it refers to observed and unobserved differences between characteristics of individuals. It can therefore be viewed as a summary statistic of the level as well as the transferability, effectiveness and obsolescence of previous human capital accumulation. The desired occupation together with the desired work time of the individuals provide information on the economic sector of the job and the work-time the individual seeks for. Furthermore, as there is no strong occupational mobility between economic sectors in Germany, it is a proxy for the past occupation of the individuals. In addition, the consideration of the occupation type of the individual and his/her unemployment duration in the estimation is necessary to capture possible anticipatory effects in terms of future employment. For example, seasonal unemployed workers may know in advance that their past employer will call them back. In that case they would have no incentive to participate in a JCS. By bal-

¹⁰ By doing so we will implicitly consider the start of the unemployment spell in the estimation, too.

ancing the occupation as well as the time of unemployment start between treated and non-treated individuals, the problem of this type of anticipatory effects should be ruled out.

There are also some socio-demographic attributes that are important determinants for the individual labour market prospects, like citizenship (measured by dummy foreigner), asylum-seeker, the age of the individuals (measured in six categories at the start of the treatment), the number of children and marriage/cohabitation. For example, the number of children and marriage/cohabitation are indicators for the social background, mobility and responsibility of the individual for other persons. Moreover, the characterisation of the labour market prospects is supported by a number of further variables. These variables comprise the application for vocational rehabilitation, whether or not the individual has received an ALMP programme somewhere in the past, the number of placement propositions, the reception of UI and the caseworker's assessment of placement restrictions due to health problems. The number of placement propositions indicates the placement restraints of the individual. A higher number of unsuccessful placement propositions refers to a higher need of assistance in the placement process including an adjustment of the unemployed person's human capital to the needs of the labour market. Information on a participation in an ALMP programme before may be used to identify potential 'programme careerists'. In particular in East Germany during the early 1990s, the majority of unemployed persons have participated in ALMP programmes.¹¹ Therefore, it may also indicate the willingness to participate in a programme.

Obviously, caseworkers play a crucial role in the allocation process to the programmes. Since denying a job offer in a JCS by the unemployed individual could be sanctioned by benefit cancellation, the caseworkers are expected to have the final word in the participation decision. If the caseworkers act upon unobservable information that is correlated with the individual's potential labour market outcomes, the CIA would be violated. However, as the data used in this analysis is surveyed by the caseworkers and amended by their own subjective assessment of the qualification and placement restrictions of the individuals, we assume that caseworkers act idiosyncratically given the observable characteristics of the unemployed individuals and the subjective assessments. The large degree of freedom of the caseworkers has implications for possible anticipatory effects in terms of future participation of the unemployed individuals. Unemployed individuals are unlikely to turn down an offered occupation in a JCS in order to wait for a place in another ALMP programme since this would imply a cancellation of unemployment benefits or assistance.

The attributes considered so far concentrate on supply side aspects of the labour market. But, participation in programmes and labour market outcomes also depend on demand side aspects, the local labour market conditions (see Heckman, Ichimura, and Todd (1997)). On the one hand, the situation of the labour market differs between East and West Germany. On the other hand, the enactment of SGB III in 1998 has provided a larger degree of self-responsibility and flexibility to the LEAs, ie the single agencies are responsible for the mix of ALMP in their districts. Due to that it is reasonable to assume that different local labour market

¹¹ Bielenski, Brinkmann, and Kohler (1997) note that about three quarters of the East German labour force have been at least once in a labour market programme between November 1989 and November 1994.

conditions in the LEAs lead to a different mix of policy interventions. Explicit consideration of the 181 labour office districts is not feasible for estimation. Therefore, we use the classification of the FEA (see Appendix B) to characterise the differing local labour market conditions in a parsimonious way.

In summary, the discussion of the CIA in our context has shown that given the detailed and comprehensive data set at hand we are able to consider most if not all factors that determine participation and labour market outcomes. For that reason, we can argue that the CIA holds and we can use the matching estimator in the dynamic setting to evaluate the employment effects of JCS in Germany.

5.2 Selected Descriptives

Based on the extensive set of attributes we have selected three variables for which we find clear differences between participants and non-participants. Table 1 presents the means of the number of placement propositions, of having participated in a programme before unemployment, of placement restrictions assessed by the caseworkers and the programme duration. We distinguish between the four groups in analysis as well as with respect to the time the programme starts in the unemployment spell (in quarters from $u = 1$ to $u = 12$).¹²

Two main findings become obvious from the results that support our evaluation approach. On the one hand, there are clear differences between participants and non-participants in all four groups as well as between the groups. On the other hand, the participants of the main groups do not differ much within the group and the same is true for the non-participants. To give an example: Taking a look at the number of placement propositions shows that participants have received a clearly higher number on average. Whereas this difference amounts to between about 4 (non-participants) to 10 (participants) for men in West Germany, for women in the region it is about 3 to 9. In East Germany, this difference is not as pronounced. Here, non-participating men have received on average between 4 placement propositions, the participants have about 8. The findings for women are similar (non-participants: about 4, participants: about 7). Hence, this variable could be expected as one indicator that determines participation. The variable programme before unemployment highlights the differences of the labour market between East and West Germany. Whereas the share of non-participants in West Germany who have participated is between 3 to 9 percent for men and 2 to 4 percent for women, the analogue in East Germany shows a much higher chance of having participated before. Here, the ratios are between 16 to 36 percent for men and 27 to 41 percent for women. Participants in JCS have participated even more often than the non-participants. In West Germany about 27 (20) to 40 (38) percent of the men (women) have joined a programme in the past. The corresponding numbers for East Germany are 48 to 59 percent for men and 61 to 68 percent for women. Due to that, we expect former programme participation to be an important indicator for a new promotion. The third variable we have chosen are placement restrictions of the individuals as assessed by the caseworker. With respect to the law, we expect persons with placement restrictions to be overrepresented in the participants' groups.

¹² In addition, Appendix C contains descriptive statistics for the variables used in the propensity score model (see below).

Tab. 1: MEANS OF SELECTED VARIABLES

Group	NPart.		Part.		NPart.		Part.		NPart.		Part.		NPart.		Part.	
	Men				Women											
West Germany																
	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4
No. of placement propositions	4.58	10.35	4.80	10.48	4.89	10.75	4.87	11.03	3.09	8.20	3.01	9.15	2.94	9.26	2.86	9.73
Programme bef. unemp. ¹	0.03	0.35	0.05	0.40	0.06	0.36	0.08	0.38	0.02	0.31	0.02	0.30	0.03	0.33	0.04	0.37
Placement restrictions	0.15	0.26	0.17	0.27	0.20	0.24	0.22	0.22	0.11	0.20	0.12	0.16	0.13	0.17	0.14	0.12
Programme duration (in days)	290.4		284		268.6		277.4		311.1		305.2		292.4		300.4	
	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8
No. of placement propositions	4.72	9.69	4.67	10.89	4.57	9.70	4.73	10.10	2.88	8.59	2.91	8.12	2.93	7.86	2.89	8.67
Programme bef. unemp. ¹	0.07	0.37	0.08	0.33	0.08	0.34	0.08	0.33	0.04	0.38	0.04	0.28	0.04	0.28	0.04	0.27
Placement restrictions	0.23	0.23	0.24	0.16	0.24	0.19	0.26	0.21	0.15	0.13	0.16	0.11	0.16	0.10	0.16	0.12
Programme duration (in days)	289.8		267.1		264.9		281.3		324.2		301.6		300		303.5	
	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12
No. of placement propositions	3.97	9.27	3.72	10.72	3.34	9.58	3.15	12.12	2.56	8.61	2.37	10.00	2.29	8.71	2.22	9.09
Programme bef. unemp. ¹	0.08	0.40	0.09	0.27	0.09	0.34	0.09	0.38	0.04	0.37	0.04	0.23	0.04	0.36	0.04	0.20
Placement restrictions	0.27	0.22	0.29	0.21	0.29	0.24	0.29	0.22	0.17	0.13	0.18	0.15	0.18	0.11	0.18	0.14
Programme duration (in days)	297.7		292.7		272		288.7		335.1		281.3		340.4		299.2	
East Germany																
	Men				Women											
	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4	<i>u</i> = 1	<i>u</i> = 2	<i>u</i> = 3	<i>u</i> = 4
No. of placement propositions	3.91	7.88	4.38	8.43	4.69	8.39	4.88	7.84	3.79	6.77	4.00	6.98	4.09	6.82	4.02	7.01
Programme bef. unemp. ¹	0.16	0.59	0.23	0.56	0.27	0.52	0.32	0.56	0.27	0.63	0.34	0.63	0.37	0.61	0.41	0.64
Placement restrictions	0.10	0.15	0.11	0.16	0.12	0.14	0.15	0.13	0.08	0.09	0.08	0.09	0.08	0.11	0.08	0.10
Programme duration (in days)	256.8		255.8		266.4		268.5		292		298.8		293.8		293.6	
	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8	<i>u</i> = 5	<i>u</i> = 6	<i>u</i> = 7	<i>u</i> = 8
No. of placement propositions	4.77	7.39	4.45	8.23	4.40	7.26	4.18	7.68	3.78	6.63	3.53	6.80	3.45	6.41	3.38	6.40
Programme bef. unemp. ¹	0.32	0.52	0.30	0.48	0.32	0.51	0.30	0.50	0.40	0.67	0.38	0.63	0.38	0.63	0.37	0.62
Placement restrictions	0.15	0.10	0.15	0.13	0.17	0.12	0.18	0.13	0.08	0.10	0.08	0.08	0.08	0.08	0.08	0.09
Programme duration (in days)	270.2		261.4		266.1		274		309.2		301.1		307.3		304.1	
	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12	<i>u</i> = 9	<i>u</i> = 10	<i>u</i> = 11	<i>u</i> = 12
No. of placement propositions	3.84	7.67	3.48	7.99	3.21	7.53	2.98	7.41	3.07	6.40	2.88	6.58	2.52	6.28	2.37	6.50
Programme bef. unemp. ¹	0.30	0.56	0.27	0.54	0.27	0.53	0.28	0.48	0.31	0.68	0.29	0.63	0.29	0.61	0.31	0.62
Placement restrictions	0.18	0.13	0.21	0.12	0.21	0.14	0.22	0.16	0.10	0.07	0.10	0.07	0.09	0.07	0.10	0.08
Programme duration (in days)	280.9		282.2		272.8		269.9		313.7		305.8		307.2		295.5	

¹ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

However, the empirical results confirm our expectation in part only. For groups with a shorter duration until programme start, it is true, but for groups with longer preceding unemployment duration those persons are underrepresented.

These results show that it is necessary to estimate the programme effects separately for the four groups. In addition, explicit consideration of the timing of treatment seems to be important for reasons discussed above.

5.3 Estimation

We have estimated four series of twelve probit models (East and West Germany, men and women), each one modelling the probability of starting a programme in quarter u , conditional on X , conditional on having reached the unemployment duration of $u \in \{1, \dots, 12\}$ quarters and conditional on not having received a treatment before u in the unemployment spell.¹³ The variables included in the propensity score model have been chosen in order to justify the CIA (see discussion of the plausibility above) and to achieve an adequate balance of the covariate distributions between participants and non-participants. Estimation of the treatment effects of JCS has been accomplished using single nearest neighbour matching on the propensity score without replacement.¹⁴ To ensure common support, we impose the minima and maxima comparison condition. Since we use propensity score matching to estimate the treatment effects, we have to check the ability of the procedure to balance the relevant covariates. Table 2 provides some quality indicators. The first indicator is the standardised difference in percent as suggested by Rosenbaum and Rubin (1985). It considers the size of the differences in means of a conditioning variable between the treated and matched comparison groups, scaled by the square root of the average variances in the original samples (Smith and Todd, 2005b). To abbreviate the documentation, we present the median of the statistic before and after matching. Moreover, the tables contain the calculated pseudo- R^2 of the probit models for the full and the matched samples. The idea is to compare the coefficients of determination before and after matching. Successful matching should adjust away all systematic differences with respect to the observable covariates. Therefore, after matching there should be no systematic differences in the distribution of the covariates between the treated and the non-treated group (see Sianesi (2004)). Finally, we have added the number of individuals lost due to the common support condition.

The results show that the matching procedure is able to reduce the differences in the covariate distributions quite well for all points of time except for groups of less than 100 individuals. Hence, we refrain from interpreting the estimates for these groups. Starting with the median of the standardised difference in percent for West Germany shows that the remaining bias after matching is for men between 1.83 ($u = 1$) and 5.12 ($u = 12$) percent. The corresponding figures for women are slightly worse and amount to a median of

¹³ The results of the propensity score estimations are given in Appendix D. Since our analysis is based on a stratified random sample, we do not estimate the true, but the conditional propensity score. However, NN matching is not sensitive to this stratification. Hence, estimated treatment effects based on the conditional propensity score are equal to those based on the true propensity score.

¹⁴ All estimations have been made with *STATA*. For the matching we have used the programme *psmatch2* by Leuven and Sianesi (2003).

Tab. 2: INDICATORS OF COVARIATE BALANCING BEFORE AND AFTER MATCHING

u^1	No. of Treated Before	No. of Non-Treated Before	Median Bias Before ²	Median Bias After ²	Probit ps- R^2 Before ³	Probit ps- R^2 After ³	CS ⁴	No. of Treated Before	No. of Non-Treated Before	Median Bias Before ²	Median Bias After ²	Probit ps- R^2 Before ³	Probit ps- R^2 After ³	CS ⁴	
West Germany								East Germany							
Men								Men							
1	663	152,036	6.34	1.83	0.13	0.02	0	866	74,061	5.66	2.45	0.18	0.01	0	
2	484	66,528	4.82	2.62	0.14	0.02	1	718	38,626	7.00	1.63	0.16	0.01	0	
3	437	35,305	6.69	1.96	0.14	0.02	0	798	24,436	4.58	1.77	0.15	0.01	0	
4	498	22,646	5.66	2.68	0.16	0.02	2	895	16,282	5.35	2.34	0.18	0.01	0	
5	593	15,229	5.41	3.47	0.19	0.02	18	1,228	10,121	5.92	2.12	0.24	0.01	144	
6	288	11,191	7.55	3.04	0.18	0.03	0	767	6,989	7.37	3.24	0.26	0.02	136	
7	264	9,173	6.14	3.46	0.16	0.03	5	787	5,215	8.81	2.24	0.27	0.02	154	
8	206	7,222	7.90	4.02	0.17	0.04	1	605	3,856	6.87	2.09	0.29	0.02	139	
9	278	5,758	6.75	4.55	0.25	0.04	21	832	2,675	5.86	1.84	0.36	0.02	333	
10	190	4,476	8.06	3.94	0.23	0.08	11	569	2,025	5.96	2.70	0.35	0.02	205	
11	144	3,760	6.66	3.64	0.25	0.07	5	551	1,580	8.45	5.10	0.39	0.03	249	
12	120	3,154	9.44	5.12	0.29	0.08	4	363	1,276	7.53	2.86	0.36	0.04	135	
Women								Women							
1	302	119,743	7.31	3.50	0.14	0.04	0	951	61,481	5.42	2.40	0.14	0.01	0	
2	240	57,686	8.84	2.87	0.16	0.04	0	693	37,440	6.96	2.30	0.14	0.01	0	
3	258	32,887	11.09	2.78	0.19	0.03	0	728	27,823	5.87	2.09	0.12	0.02	0	
4	327	21,943	9.68	3.26	0.19	0.03	0	848	21,000	5.14	2.38	0.15	0.02	1	
5	363	14,975	10.72	2.32	0.24	0.03	1	1,279	14,554	9.10	1.93	0.25	0.01	93	
6	138	11,070	11.71	5.77	0.17	0.07	0	746	10,473	6.92	2.87	0.27	0.02	78	
7	145	8,705	9.63	5.67	0.20	0.06	3	803	8,632	8.37	1.99	0.29	0.02	122	
8	125	6,908	8.77	5.58	0.20	0.05	0	698	6,800	8.63	2.68	0.28	0.02	110	
9	173	5,831	10.07	4.06	0.29	0.07	15	1,139	5,108	6.54	2.85	0.41	0.02	500	
10	98	4,302	8.54	5.06	0.23	0.08	3	783	3,750	5.57	3.43	0.37	0.02	295	
11	73	3,509	12.29	9.75	0.34	0.22	3	722	3,195	5.32	2.53	0.39	0.02	254	
12	56	2,952	11.02	7.49	0.22	0.28	0	545	2,749	6.25	2.75	0.38	0.03	202	

¹ Quarter refers to the quarter the treatment starts in the individual unemployment spell, u .

² Median bias denotes the median of the standardised difference in percent following Rosenbaum and Rubin (1985) before and after matching.

³ Probit ps- R^2 refers to the pseudo R^2 computed for the full sample (before) and the matched sample (after).

⁴ Number of treated individuals lost after imposing the common support condition.

between 2.32 ($u = 5$) and 5.77 ($u = 6$) percent. The results of the pseudo- R^2 's support these findings. It has to be kept in mind that the median of the standardised difference in percent allows a crude approximation of the bias reduction for the single covariates only. Whereas some of the covariates differ clearly between treated and non-treated groups before matching, others are more similar (see descriptives in Appendix C). In particular for variables that are statistically significant in the propensity score estimations on a high level, like eg the number of placement propositions or having participated in a programme before, the matching procedure reduces the imbalances between treated and non-treated individuals strongly. To give an example, the standardised difference in percent for men (women) in West Germany for $u = 1$ is 59.28 (57.78) percent before matching and only 10.31 (19.35) percent after matching for the number of placement propositions. The corresponding reduction for programme before unemployment is even stronger: Here, men (women) have a difference of 86.63 (85.36) percent before and of 0.84 (5.81) percent after. The quality indicators for East Germany show a better picture. The median of the standardised difference in percent after matching amounts to between 1.63 ($u = 2$) and 5.10 ($u = 11$) percent for men and to between 1.93 ($u = 5$) and

3.43 ($u = 10$) percent for women. Again, the differences for some of the variables had to be reduced far stronger than for others. To give the analogue figures to the example for West Germany, men (women) in East Germany for $u = 1$ differed in the number of placement propositions by 59.23 (56.49) percent before and by 9.11 (7.06) percent after. The difference in programme before unemployment was 86.92 (73.93) percent before and 1.66 (4.90) percent after.

A final point to be mentioned refers to the number of potential comparison individuals at each point of time. For persons starting a treatment early in the unemployment spell, we are able to use a large number of non-participants as potential matches, eg for $u = 1$ the number of non-participants before matching amounts to 152,036 (119,743) men (women) in West Germany and 74,061 (61,481) men (women) in East Germany. Thus, it is more likely for the matching procedure to find adequate matches. For persons starting a treatment later in the unemployment spell, the number of potential comparisons decreases because the non-participants have left the unemployment for regular employment or other programmes. Due to this it is harder for the matching procedure to find adequate comparison individuals to approximate the counterfactual outcome of the participants. This is also a reason for the large number of individuals lost due to the common support condition in East Germany.

6 Employment Effects of Job Creation Schemes

We will discuss the results for East and West Germany in the following separately. All treatment effects are estimated from the start of the programmes onwards. As mentioned above, programmes are associated with a locking-in effect in particular shortly after programmes have started. Since the majority of participants leaves the programme within one year after the start of the programmes and we measure the employment effects until 30 months after treatments have started, successful programmes should overcompensate for the expected initial fall in the employment spell.

6.1 Impacts for West Germany

The employment effects of JCS with respect to the timing of treatment for men and women in West Germany are presented in figures 1 and 2. The graphs plot the development of the effects from the first month after treatment start to month 30. The solid line describes the monthly employment effect, ie the difference in the employment rates between treated and matched non-treated individuals. The dotted lines are the lower and upper 95 percent confidence limits.¹⁵ In addition, to allow a more accurate discussion table 3 presents the results for five selected months.

The first thing to note, common to all groups independently of the foregoing unemployment duration, is a large drop in the effects during the first months after programmes have started. For the majority of groups

¹⁵ Standard errors are calculated following Steiger (2004).

Fig. 1: EMPLOYMENT EFFECTS FOR MEN IN WEST GERMANY (TREATMENT START BETWEEN QUARTERS $u = 1$ AND $u = 12$)

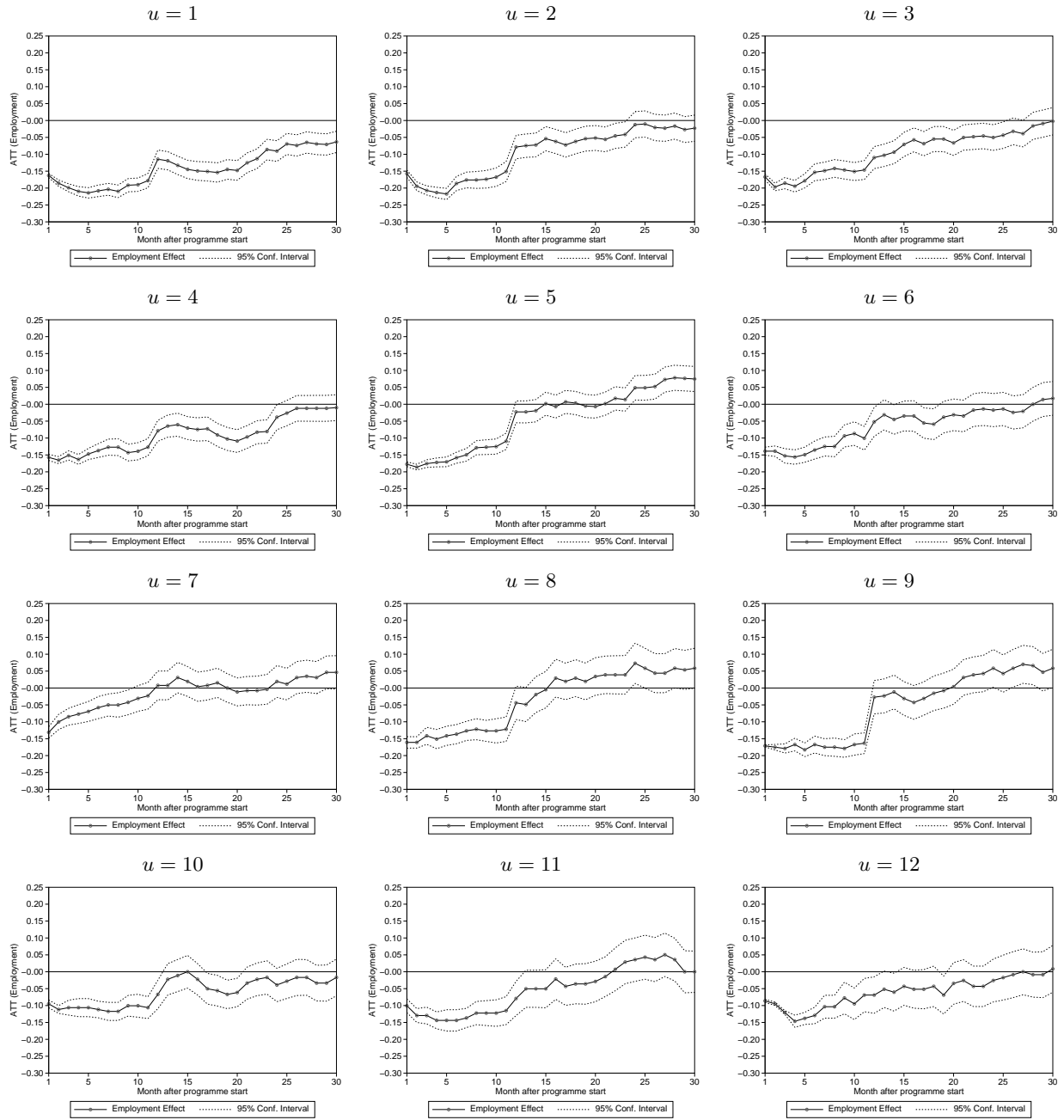
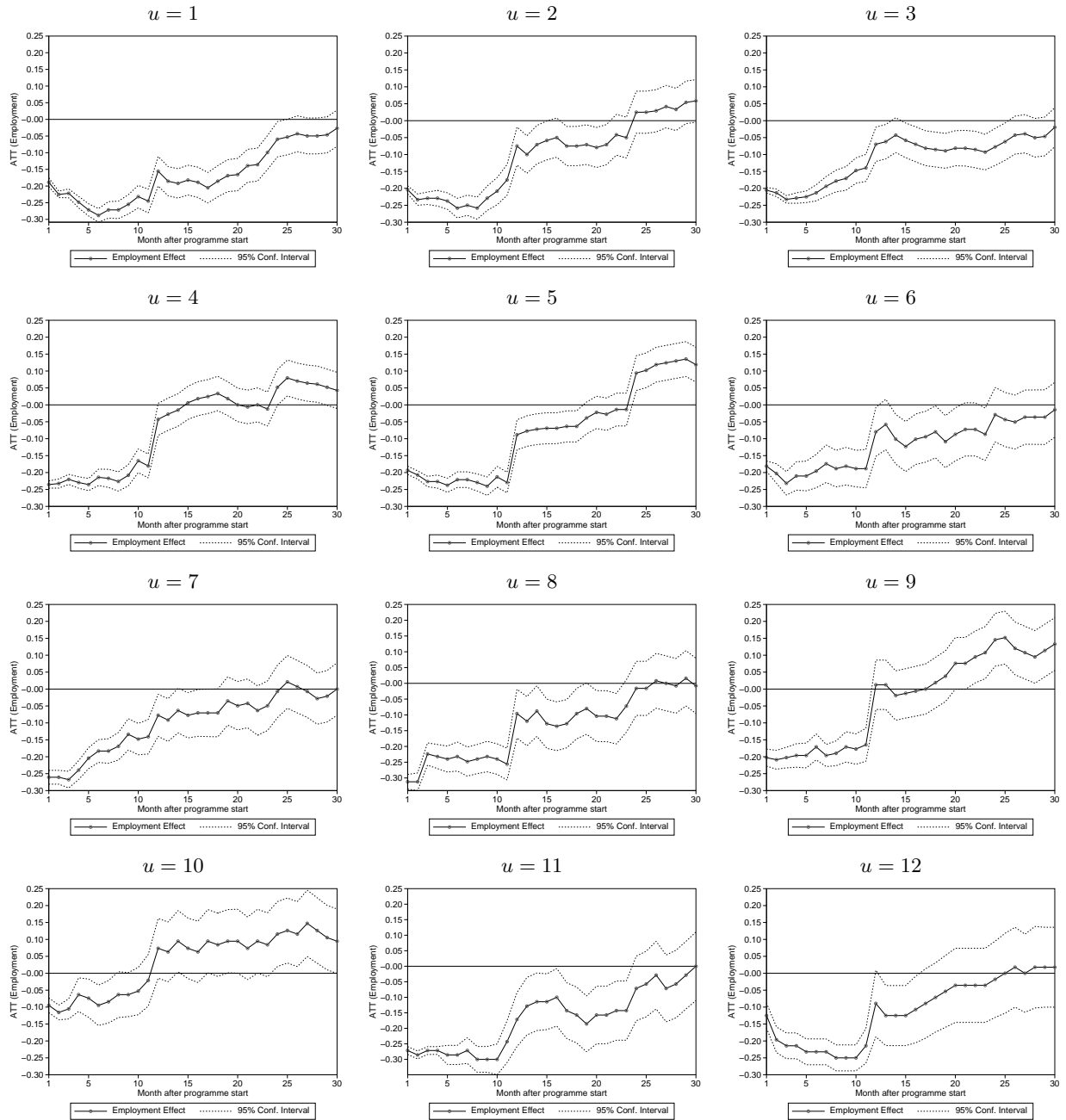


Fig. 2: EMPLOYMENT EFFECTS FOR WOMEN IN WEST GERMANY (TREATMENT START BETWEEN QUARTERS $u = 1$ AND $u = 12$)



this difference in the employment rates reaches its peak around month six. It is reasonable to interpret the drop in the effects as the expected locking-in effects the participants experience whilst on the programmes. These locking-in effects are particularly articulated for groups starting a JCS early in the unemployment spell. To give an example, six months after start of the programmes the employment rate for men starting in $u = 1$ ($u = 3$) is -20.8 (-15.3) percentage points lower compared to the matched non-participants. For groups starting the programmes later in the unemployment spell, the locking-in effects are still observable, but not as strong as for the groups that start earlier. For example, men who have started a programme in quarter $u = 7$ of unemployment have an employment rate that is -5.8 percentage points lower. A similar picture could be revealed for women. Women in $u = 1$ ($u = 3$) experience locking-in effects in the sixth month after programmes have started of about -28.8 (-21.3) percentage points. The different magnitude of locking-in effects for different starting points of the programmes during the unemployment spell reflects the different labour market situation of the individuals. Persons with only a short duration of unemployment could be expected to have better outside options on the labour market, ie finding jobs earlier, compared to individuals with a longer unemployment experience ('negative duration dependence'). Therefore, the higher employment probabilities of the comparable non-participants to individuals who join a programme early in the unemployment spell lead to a stronger locking-in effect whilst on the programme.

As mentioned above, most of the participants have left the programmes after twelve months. Therefore, locking-in effects should decrease at that time. The empirical findings confirm this expectation and a jump in the employment effects could be observed between month eleven and thirteen after start of the JCS. Unfortunately, no positive effects could be established for any of the groups at that time. The estimated treatment effects are at best insignificant in month twelve, ie the situation of the participants did not improve. In contrast, most of the effects are negative and for the majority of the individuals the situation is even worse compared to having not joined the programme one year ago.

The development of the employment effects in the following months until the end of the observation period (month 30) is mixed. The effects for male participants tend to increase over time, in particular for the groups starting in quarters $u = 3, 5, 6, 7, 8, 9, 11$ and 12 of the unemployment spell and significant positive estimates of the employment effects 30 months after programmes are found for $u = 5$ and $u = 9$ with 7.5 and 5.8 percentage points. For the other groups the effects are at best insignificant except men starting in $u = 1$ where we find a negative of -6.3 percentage points. The findings for women are similar. Almost all of the groups have employment rates 30 months after the start of the programmes that do not differ from the non-participants. Only for two groups, ie women starting in $u = 5$ and $u = 9$, employment rates increased by 11.9 and 13.3 percentage points. Unfortunately, since the majority of groups do not have an increased employment rate after participation, the results do not indicate a success of JCS.

The matching estimator solves the selection problem on observable variables only and further unobserved influences are assumed to be irrelevant. Although we are able to use a rich set of variables describing the

Tab. 3: EMPLOYMENT EFFECTS FOR SELECTED MONTHS (WEST GERMANY, BY QUARTER)

u^1	Obs. ²		$\Delta_{6,u}$	$\Delta_{12,u}$	$\Delta_{18,u}$	$\Delta_{24,u}$	$\Delta_{30,u}$
Men							
1	663	Effect	-0.208	-0.115	-0.154	-0.090	-0.063
		Std. Err.	0.009	0.014	0.015	0.016	0.016
2	483	Effect	-0.186	-0.079	-0.062	-0.012	-0.023
		Std. Err.	0.011	0.018	0.019	0.020	0.020
3	437	Effect	-0.153	-0.110	-0.055	-0.050	-0.002
		Std. Err.	0.013	0.017	0.019	0.019	0.021
4	496	Effect	-0.137	-0.079	-0.091	<i>-0.038</i>	-0.010
		Std. Err.	0.010	0.016	0.017	0.019	0.020
5	575	Effect	-0.158	-0.023	0.003	0.049	0.075
		Std. Err.	0.008	0.016	0.018	0.018	0.019
6	288	Effect	-0.135	<i>-0.052</i>	<i>-0.059</i>	-0.017	0.017
		Std. Err.	0.014	0.022	0.023	0.025	0.025
7	259	Effect	-0.058	0.008	0.015	0.019	0.046
		Std. Err.	0.017	0.022	0.022	0.024	0.025
8	205	Effect	-0.137	-0.044	0.029	<i>0.073</i>	0.059
		Std. Err.	0.014	0.025	0.028	0.030	0.030
9	257	Effect	-0.167	-0.027	-0.016	<i>0.058</i>	<i>0.058</i>
		Std. Err.	0.013	0.025	0.026	0.028	0.029
10	179	Effect	-0.112	-0.067	<i>-0.056</i>	-0.039	-0.017
		Std. Err.	0.013	0.021	0.023	0.025	0.028
11	139	Effect	-0.144	-0.079	-0.036	0.036	0.000
		Std. Err.	0.016	0.026	0.030	0.033	0.031
12	116	Effect	-0.129	<i>-0.069</i>	-0.043	-0.026	0.009
		Std. Err.	0.013	0.028	0.031	0.032	0.035
Women							
1	302	Effect	-0.288	-0.156	-0.185	<i>-0.060</i>	-0.026
		Std. Err.	0.010	0.023	0.024	0.027	0.028
2	240	Effect	-0.258	-0.075	<i>-0.075</i>	0.025	0.058
		Std. Err.	0.015	0.029	0.030	0.032	0.032
3	258	Effect	-0.213	-0.070	-0.085	-0.078	-0.019
		Std. Err.	0.012	0.026	0.026	0.028	0.029
4	327	Effect	-0.214	-0.043	0.034	0.052	0.043
		Std. Err.	0.012	0.024	0.026	0.027	0.027
5	362	Effect	-0.221	-0.088	-0.064	0.094	0.119
		Std. Err.	0.012	0.023	0.023	0.026	0.026
6	138	Effect	-0.196	<i>-0.080</i>	<i>-0.080</i>	-0.029	-0.014
		Std. Err.	0.025	0.037	0.039	0.041	0.041
7	142	Effect	-0.183	<i>-0.077</i>	-0.070	-0.007	0.000
		Std. Err.	0.017	0.032	0.036	0.040	0.040
8	125	Effect	-0.232	<i>-0.096</i>	<i>-0.096</i>	-0.016	-0.008
		Std. Err.	0.024	0.039	0.041	0.044	0.045
9	158	Effect	-0.171	0.013	0.019	0.146	0.133
		Std. Err.	0.020	0.037	0.038	0.040	0.040
10	95	Effect	-0.095	0.074	0.084	<i>0.116</i>	0.095
		Std. Err.	0.030	0.045	0.048	0.049	0.049
11	70	Effect	-0.286	-0.171	-0.157	-0.071	0.000
		Std. Err.	0.016	0.044	0.046	0.053	0.056
12	56	Effect	-0.232	-0.089	-0.071	-0.018	0.018
		Std. Err.	0.019	0.050	0.052	0.057	0.060

Bold letters indicate significance on a 1% level, *italic* letters refer to the 5% level.

¹ u denotes the quarters spent in open unemployment.

² Obs. refers to the number of treated observations when using nearest-neighbour matching without replacement. Common support is imposed by the minimum-maximum comparison.

individual's labour market situation, we test the sensitivity of the results with respect to further unobserved selection. Appendix A provides the outline of this analysis (following Rosenbaum (2002), *hidden bias*). The

bounds are calculated to capture possible positive and negative unobserved selection. Positive unobserved selection occurs if participants are also more likely to become employed. In that case, treatment effects would be overestimated. In the opposite case (negative unobserved selection), the effects would be underestimated. It has to be noted that the test is not able to indicate whether biases are present, but only to analyse the sensitivity of the results to a possible hidden bias. The results of the sensitivity analysis (table A.1) show that the estimates would not be robust against unobserved heterogeneity. This finding is not very surprising. The figures of the development of the employment effects over time show that for significant estimates the confidence intervals are bounded not far from zero. Hence, further unobserved variables must not have a strong influence to change inference about the outcomes. However, the discussion of the justification of the CIA in our context has shown that all relevant determinants that drive selection are considered in our model and that further unobserved influences are not very plausible.

To summarise the findings, the results show that independently of the foregoing unemployment duration participants in JCS experience strong locking-in effects whilst in the programmes. Moreover, although we considered 12 distinct intervals in the individual unemployment spells when to start a programme, the findings indicate that for most of the groups the effects do not differ significantly from zero even 30 months after programmes have started. For this reason, JCS do not improve the employment chances of the participants in the short and medium-run. In addition, men who start a programme within the first quarter of the unemployment spell suffer from participation as the estimated negative employment effects two and a half years after programme start imply. However, the programme seems to work in terms of an improved employability of the participants for persons starting in quarters $u = 5$ and $u = 9$. However, except these groups, the overall picture of the efficiency of JCS with respect to the goal of improving the employment chances of the participating individuals is rather disappointing for West Germany.

6.2 Impacts for East Germany

In analogy to the results for West Germany, the estimates for East Germany are given in figures 3 for men and 4 for women and table 4. Similar to the findings already discussed, participants of both gender suffer from locking-in effects of the programmes during the first months after programmes have started. However, in contrast to the West the magnitude of these effects is smaller. With respect to the tense situation of the East German labour market, this finding is not surprising. Since vacancies are rare, there are not many outside options for the comparable non-participants. Consequently, the number of individuals leaving unemployment for regular jobs is lower than in West Germany, even if they have experienced a short duration of unemployment only. Thus, the employment rates for participating men six months after programmes have started are about -8.2 ($u = 4$) to -15.7 ($u = 10$) percentage points lower than for the matched non-participants. For women, the figures are similar with employment effects between -9.8 ($u = 3$) and -21.9 ($u = 10$) percentage points.

Fig. 3: EMPLOYMENT EFFECTS FOR MEN IN EAST GERMANY (TREATMENT START BETWEEN QUARTERS $u = 1$ AND $u = 12$)

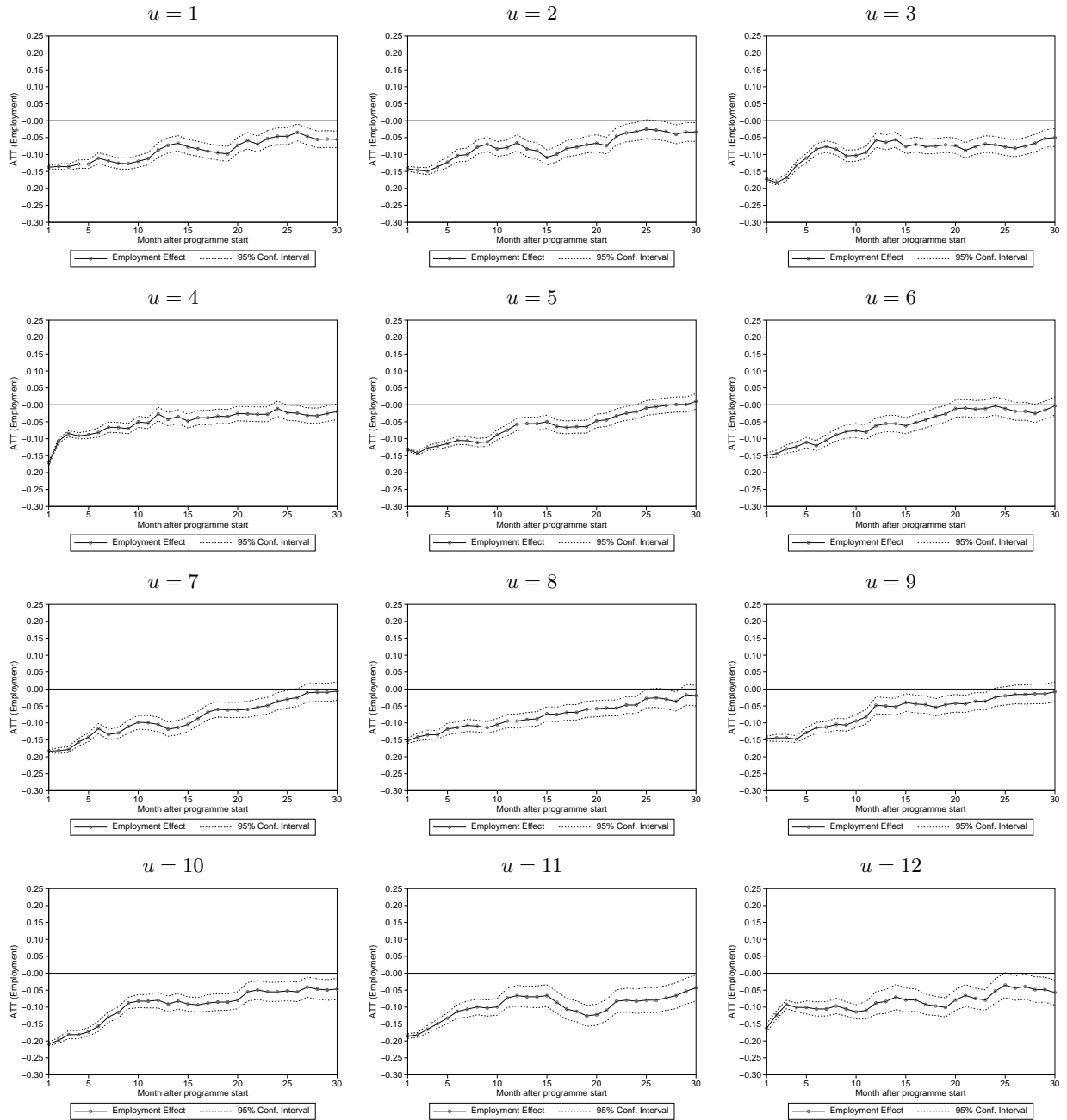
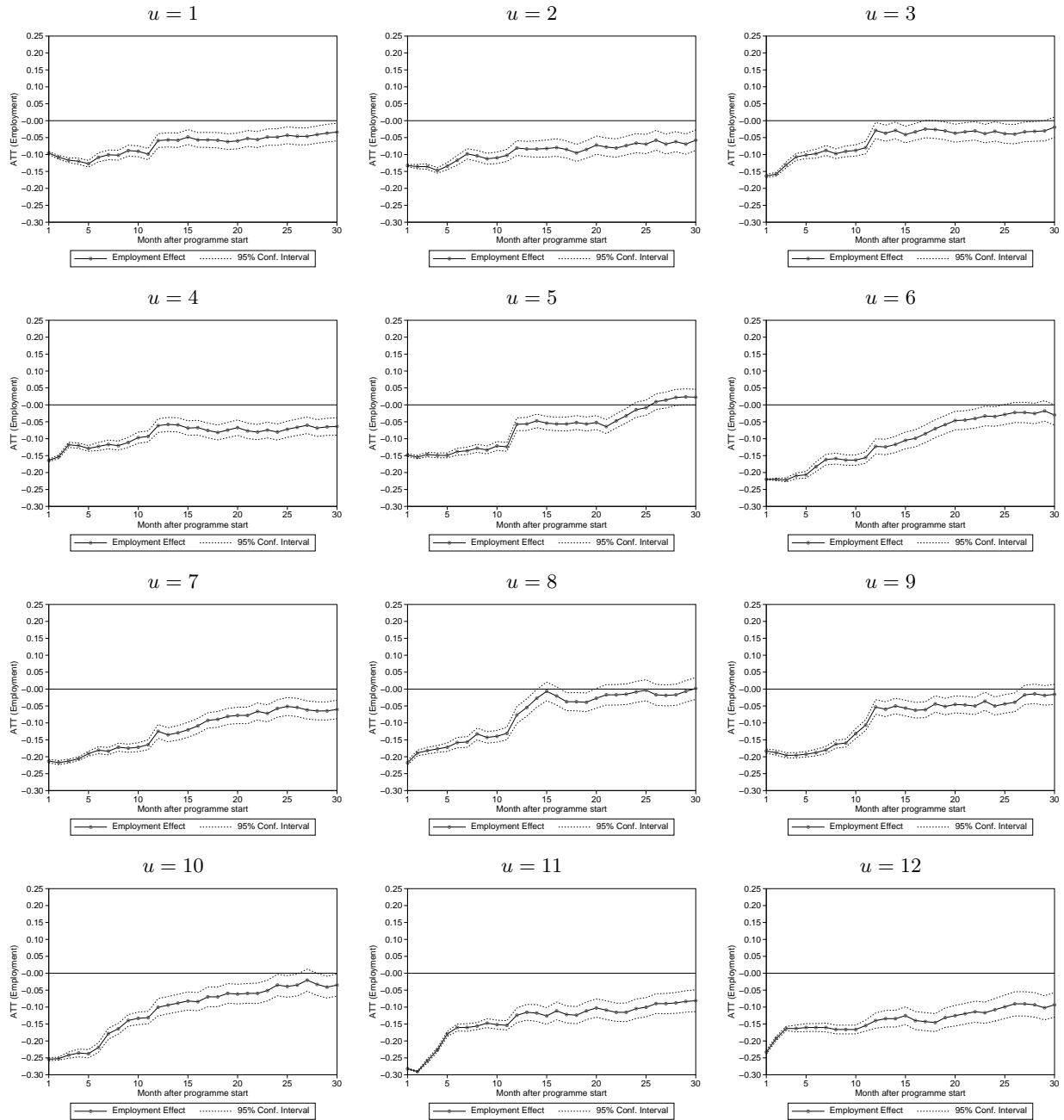


Fig. 4: EMPLOYMENT EFFECTS FOR WOMEN IN EAST GERMANY (TREATMENT START BETWEEN QUARTERS $u = 1$ AND $u = 12$)



Similar to West Germany most of the participants have left the programmes about one year after programmes have started. But, a clear increase in the employment effects could not be established at that time. Although several groups experience a modest increase, the rising tendency in the development of the results comparable to the West could not be observed for most of the groups. It should be noted that this improvement is too low to compensate the initial fall in the employment rates and individuals suffer from JCS even 30 months after programmes have started. The graphs for men starting the programmes between quarter $u = 5$ to $u = 10$ as well as for women in $u = 5, 6, 7$ and 10 show an upward shift during the observation period.

In contrast to West Germany, where most of the estimates do not differ significantly from zero, the results for East Germany provide a clearer picture. Six of the male and eight of the female groups experience negative employment effects until 30 months after the start of the programmes. None of the remaining groups has an increased employment rate at the end of the observation period. The employment rates for men (women) are between -3.3 (-3.0) to -5.7 (-9.3) percentage points lower. The test of robustness against possible unobserved influences (table A.1) provides similar results as for West Germany. Again, estimates are sensitive to possible hidden bias, but we have no reason to assume any further influences not considered in the model.

In summary, the findings of the empirical analysis for East Germany indicate that JCS are not able to improve the employment chances for participating individuals within the first 30 months after programmes have started. Although we find some effect heterogeneity with respect to the timing of treatment in the individual unemployment spell, we could not establish any positive treatment effects for the groups in analysis. Participants in JCS suffer from strong locking-in effects during the first months after programmes have started. However, in contrast to the results for West Germany, the rising tendency in the development of the employment effects in the time after the majority of the participants have left the programmes could not be established. For that reason, the overall picture of the efficiency of JCS in East Germany in terms of improved employment chances is rather unsatisfying.

7 Conclusion

JCS have been an important programme of ALMP in Germany in terms of the promoted individuals and the fiscal spending. Although their importance has decreased recently, they are still used in particular in East Germany on a large extent. In a number of empirical studies programme effects have been analysed. However, several reasons harm the generality of the results. Earlier studies are based on survey data that are characterised by small numbers of observations and concentrate on the East German labour market (see eg Huebler (1997), Kraus, Puhani, and Steiner (2000) and Eichler and Lechner (2002)). In addition, effects are not exactly attributable to specific programmes since the data suffer from shortcomings with respect to the

Tab. 4: EMPLOYMENT EFFECTS FOR SELECTED MONTHS (EAST GERMANY, BY QUARTER)

u^1	Obs. ²		$\Delta_{6,u}$	$\Delta_{12,u}$	$\Delta_{18,u}$	$\Delta_{24,u}$	$\Delta_{30,u}$
Men							
1	866	Effect	-0.111	-0.087	-0.095	-0.046	-0.055
		Std. Err.	0.008	0.011	0.011	0.013	0.013
2	718	Effect	-0.103	-0.065	-0.078	<i>-0.032</i>	<i>-0.033</i>
		Std. Err.	0.010	0.012	0.012	0.014	0.014
3	798	Effect	-0.084	-0.058	-0.075	-0.071	-0.050
		Std. Err.	0.008	0.011	0.011	0.013	0.013
4	895	Effect	-0.082	-0.027	-0.034	-0.011	-0.020
		Std. Err.	0.007	0.010	0.011	0.011	0.012
5	1,084	Effect	-0.105	-0.057	-0.065	-0.020	0.010
		Std. Err.	0.006	0.009	0.010	0.011	0.012
6	631	Effect	-0.120	-0.062	-0.033	-0.003	-0.003
		Std. Err.	0.007	0.012	0.013	0.013	0.014
7	633	Effect	-0.117	-0.104	-0.060	-0.036	-0.006
		Std. Err.	0.008	0.011	0.012	0.013	0.014
8	466	Effect	-0.114	-0.094	-0.069	-0.047	-0.019
		Std. Err.	0.008	0.011	0.012	0.013	0.016
9	499	Effect	-0.114	-0.048	-0.054	-0.024	-0.008
		Std. Err.	0.008	0.013	0.013	0.014	0.015
10	364	Effect	-0.157	-0.080	-0.085	-0.055	-0.047
		Std. Err.	0.008	0.012	0.013	0.014	0.016
11	302	Effect	-0.113	-0.066	-0.113	-0.083	<i>-0.043</i>
		Std. Err.	0.010	0.016	0.016	0.018	0.020
12	228	Effect	-0.105	-0.088	-0.096	-0.053	-0.057
		Std. Err.	0.011	0.017	0.014	0.018	0.019
Women							
1	951	Effect	-0.108	-0.059	-0.058	-0.048	<i>-0.034</i>
		Std. Err.	0.007	0.010	0.012	0.013	0.013
2	693	Effect	-0.117	-0.081	-0.095	-0.066	-0.058
		Std. Err.	0.007	0.011	0.013	0.014	0.015
3	728	Effect	-0.098	<i>-0.029</i>	-0.026	<i>-0.032</i>	-0.019
		Std. Err.	0.007	0.012	0.013	0.015	0.016
4	847	Effect	-0.123	-0.061	-0.081	-0.080	-0.064
		Std. Err.	0.006	0.010	0.011	0.012	0.013
5	1,186	Effect	-0.138	-0.057	-0.052	-0.014	0.023
		Std. Err.	0.005	0.010	0.010	0.011	0.012
6	668	Effect	-0.183	-0.123	-0.070	<i>-0.034</i>	<i>-0.030</i>
		Std. Err.	0.007	0.011	0.013	0.015	0.015
7	681	Effect	-0.181	-0.125	-0.090	-0.057	-0.060
		Std. Err.	0.005	0.010	0.012	0.013	0.014
8	588	Effect	-0.158	-0.077	-0.037	-0.009	0.002
		Std. Err.	0.008	0.013	0.014	0.016	0.016
9	639	Effect	-0.188	-0.053	-0.044	-0.050	-0.016
		Std. Err.	0.005	0.011	0.012	0.014	0.015
10	488	Effect	-0.219	-0.100	-0.070	<i>-0.035</i>	<i>-0.035</i>
		Std. Err.	0.007	0.013	0.015	0.016	0.017
11	468	Effect	-0.160	-0.124	-0.124	-0.105	-0.081
		Std. Err.	0.005	0.011	0.013	0.015	0.016
12	343	Effect	-0.160	-0.140	-0.146	-0.108	-0.093
		Std. Err.	0.006	0.011	0.014	0.017	0.018

Bold letters indicate significance on a 1% level, *italic* letters refer to the 5% level.

¹ u denotes the quarters spent in open unemployment.

² Obs. refers to the number of treated observations when using nearest-neighbour matching without replacement. Common support is imposed by the minimum-maximum comparison.

quality of the programme information and to the precision of the employment history. Caliendo, Hujer, and Thomsen (2004; 2006) have analysed the effects of JCS for Germany. Both studies are based on a cross-

section of participants of one single month only. Therefore, the studies could not control for changes in the allocation of participants as well as for changes in the labour market with respect to time. The overall picture of the efficiency of JCS from previous studies is disappointing.

In this paper we have evaluated the effects of JCS on the individual re-integration chances into regular (unsubsidised) employment. By using rich administrative data covering entrances into programmes of a one year period, possible seasonal differences are considered. A particular focus of the analysis is the timing of treatment in the individual unemployment spell. Recent empirical literature on evaluation of social programmes in comprehensive ALMP systems like Sweden, Switzerland and Germany (see eg Sianesi (2004), Steiger (2004) or Fitzenberger and Speckesser (2005)) has noted the importance of the timing to assess the efficiency of programmes. Moreover, it clarifies that participation and non-participation has to be defined dynamically, ie unemployed persons are non-participants as long as they do not join a programme or leave for regular employment.

We have estimated the treatment effects using propensity score matching. A particular emphasis has been spent on the selection of the relevant variables and the quality of the matches. In addition, since matching is not robust to further unobserved influences, we have tested the sensitivity of the estimates to hidden bias following Rosenbaum (2002). The different labour market conditions and the corresponding differences in the use of ALMP programmes in East and West Germany as well as gender differences have been considered by separate analyses for those four groups. The effects have been estimated until 30 months after the start of the JCS for programmes that have started within the first three years of the unemployment spell with a distinction for the twelve quarters.

Since JCS are in general promoted for twelve months, the majority of the individuals leaves the programmes after that time. Until that time, participants suffer from strong locking-in effects independently of region and gender. Differences in the locking-in effects with respect to the timing of treatment are observable and indicate that persons who have started a programme early in the unemployment spell suffer more compared to those who have started later. Furthermore, the negative effects for participants whilst in the programmes are more emphasised in West than in East Germany. The overall picture at the end of the observation period is unsatisfying and supports the findings from earlier studies. Almost all of the participants experience a decline in their employability due to participation in a JCS. Even 30 months after programmes have started we find positive effects for four groups only, namely men and women starting in quarters five and nine of the unemployment spell. Hence, although this seems to be light at the end of the tunnel, the results should not be overrated. In particular in West Germany, women have a lower propensity to work than men. Therefore, we could expect them to leave the labour force after some time of unemployment if no job is available. As this drop could not be accounted for in the outcome variable without violating the CIA, interpretation of this 'employment effect' should be made with care. The results for East Germany are even worse. Although persons do not suffer from as strong locking-in effects as in West Germany, the increase of

the employment effects after the majority of participants have left the programmes is smaller. Thus, at the end of the observation period none of the groups experiences a positive employment effect.

In summary, the findings of the estimations for West and East Germany indicate that JCS perform poorly in improving the employment chances of the participating individuals. To be more explicit, participation in the programmes does not help the individuals to re-integrate into regular (unsubsidised) employment within 30 months after the start of the programmes.

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A Sensitivity to Hidden Bias

The estimated treatment effects in this study are identified under the CIA. However, for the CIA to be fulfilled all relevant variables that jointly influence participation and outcomes have to be observed for estimation. Although we are able to use very informative data and have discussed the plausibility of the CIA in detail in section 5.1, there may be concern about a possible selection on unobserved factors, like eg motivational differences between treated and non-treated individuals, the so-called *hidden bias* (Rosenbaum (2002)). Matching estimators are not robust against this hidden bias. Unfortunately, estimation of the magnitude of this bias is impossible, ie whether we under- or overestimate the true effects. Rosenbaum (2002) suggests to apply a sensitivity analysis to answer the question if inference about programme effects may be altered by unobserved factors. The idea is to calculate the lower and upper bounds for different values of unobserved selection bias of a test-statistic that tests the null hypothesis of no treatment effect (Aakvik (2001)).

Following Aakvik (2001), let $\pi_i = Pr(D_i = 1 | X_i) = F(\beta X_i + \gamma v_i)$ be the probability of participation, where X_i are the observed variables, v_i the unobserved variable, and γ is the effect of v_i on the participation probability of individual i .¹⁶ With F assumed to be distributed logistic, the odds of participation for i is given by $\pi_i / (1 - \pi_i) = \exp(\beta X_i + \gamma v_i)$. Comparison of two persons with common support of X and equal distribution of X , ie a treated, i , and a comparable non-treated individual, j , can be accomplished by calculation of the relative odds:

$$\frac{\left(\frac{\pi_i}{1-\pi_i}\right)}{\left(\frac{\pi_j}{1-\pi_j}\right)} = \frac{\exp(\beta X_j + \gamma v_j)}{\exp(\beta X_i + \gamma v_i)} = \exp[\gamma(v_i - v_j)], \text{ with } i \neq j. \quad (\text{A.1})$$

The odds ratio in eq. A.1 is one if there are no differences in unobserved variables or the unobserved variables do not influence the participation decision, ie no hidden bias. In that case, controlling for selection based on the observed covariates would produce unbiased treatment effects (Aakvik, 2001). Otherwise, treatment effects may be biased. For simplicity assume $v \in \{0, 1\}$. In that case, eq. A.1 can be rewritten as

$$\frac{1}{\Gamma} \leq \frac{\pi_i(1 - \pi_j)}{\pi_j(1 - \pi_i)} \leq \Gamma, \quad (\text{A.2})$$

with $\Gamma = \exp(\gamma)$. Γ denotes the relative odds of participation of two individuals who appear similar in their X . Two individuals i and j have the same participation probability if $\Gamma = 1$. They differ if $\Gamma > 1$, eg if $\Gamma = 1.5$ by factor of 1.5. The estimated treatment effects are said to be sensitive to unobserved selection if Γ close to one changes inference about the effects.

We will introduce some additional notation necessary to calculate the nonparametric test-statistics. Let n_1 denote the number of treated, n_0 the number of matched non-treated and n the sum of all matched individuals in the sample. y_1 (y_0) is the number of participants (matched non-participants) who are employed in month 30 after programmes have started; y describes the sum of all ‘successes’ in month 30. The test-statistic to be

¹⁶ For simplicity of notation, we drop the index u for the time until treatment in this description.

used is the Mantel-Haenszel statistic (Mantel and Haenszel, 1959) that is defined as¹⁷:

$$Q_{MH} = \frac{[y_1 - E(y_1)]^2}{Var(y_1)}, \quad (A.3)$$

with $E(y_1) = (n_1 y)/n$ and $Var(y_1) = [n_1 n_0 y(n - y)]/[n^2(n - 1)]$ (Aakvik, 2001). It provides a nonparametric test of no treatment effect and is χ^2 distributed with one degree of freedom. Under the null hypothesis for fixed $\Gamma \geq 1$ and $v \in \{0, 1\}$ Rosenbaum (2002) shows that the test-statistics Q_{MH} can be bounded by:

$$Q_{MH}^+ = \frac{Y_{t,u}^1 - \tilde{E}}{Var(\tilde{E})} \quad \text{and} \quad Q_{MH}^- = \frac{Y_{t,u}^1 - \tilde{E}}{Var(\tilde{E})}. \quad (A.4)$$

Q_{MH}^+ is the test-statistics given that we have overestimated the true treatment effect, ie we have a positive unobserved selection in the sense that persons who are most likely to participate also have higher employment rates. Thus, the χ^2 statistics is too high and should be adjusted downwards, $Q_{MH}^+ \leq Q_{MH}$. The opposite case is given by Q_{MH}^- , where we have a negative unobserved selection, and underestimate the true treatment effect.

\tilde{E} and $Var(\tilde{E})$ are the large sample approximations to the expectation and variance of the number of successful treated persons. \tilde{E} is determined by solving the quadratic equation (Rosenbaum (2002)):

$$\tilde{E}^2(\Gamma - 1) - \tilde{E}\{(\Gamma - 1) \cdot (n_1 + y) + n\} + \Gamma \cdot y \cdot n_1, \quad (A.5)$$

with $\max(0, y + n_1 - n) \leq \tilde{E} \leq \min(y, n_1)$. The variance could be calculated by:

$$Var(\tilde{E}) = \left(\frac{1}{\tilde{E}} + \frac{1}{y - \tilde{E}} + \frac{1}{n_1 - \tilde{E}} + \frac{1}{n - y - n_1 + \tilde{E}} \right)^{-1}. \quad (A.6)$$

The opposite bound on the significance is computed by replacing Γ with $1/\Gamma$.

Table A.1 shows the test-statistics Q_{MH} for $\Gamma = 1$ together with the sensitivity of the test-statistics. All results refer to month 30 after programmes have started. We have tested the sensitivity for significant employment effects only. The analysis was accomplished by increasing the value of Γ in steps of 0.05. To abbreviate documentation, the table only presents the values of Γ where at least one of the bounds of the test-statistics become insignificant. Although the results of the sensitivity indicate how biases may alter the inferences and that the estimated treatment effects are sensitive to possible unobserved selection, it has to be kept in mind that the sensitivity analysis could not provide evidence whether biases are present or what magnitudes are plausible.

B Data Appendix

The 181 LEAs in Germany collect information within the so-called *CoArb* system on all registered job seekers.¹⁸ These are persons who are registered unemployed, persons threatened by unemployment or in

¹⁷ The Mantel-Haenszel statistic considers different strata of the population. As this is not necessary in our analysis, we have simplified the notation accordingly.

¹⁸ The term *CoArb* is an abbreviation for computer supported job placement (*computergestützte Arbeitsvermittlung*).

Tab. A.1: SENSITIVITY OF THE ESTIMATES TO POSSIBLE HIDDEN BIAS^a

West				East			
u	Q_{MH} $\Gamma = 1$	Value ^b of Γ	Bounds for Q_{MH}^c	u	Q_{MH} $\Gamma = 1$	Value ^b of Γ	Bounds for Q_{MH}^c
Men				Men			
1	7.08	1.10	3.65–11.67	1	8.62	1.15	3.23–16.67
2	n.s.			2	2.61	1.00	1.57–3.92
3	n.s.			3	6.40	1.10	3.17–10.80
4	n.s.			4	n.s.		
5	8.54	1.15	3.60–15.64	5	n.s.		
6	n.s.			6	n.s.		
7	n.s.			7	n.s.		
8	n.s.			8	n.s.		
9	2.19	1.00	1.53–2.99	9	n.s.		
10	n.s.			10	3.56	1.00	2.78–4.44
11	n.s.			11	2.14	1.00	1.56–2.83
12	n.s.			12	3.60	1.00	3.00–4.27
Women				Women			
1	n.s.			1	3.05	1.00	1.69–4.81
2	n.s.			2	6.36	1.10	3.13–10.76
3	n.s.			3			
4	n.s.			4	10.36	1.20	2.88–22.63
5	10.63	1.25	3.23–22.47	5			
6	n.s.			6	1.83	1.00	0.98–2.93
7	n.s.			7	8.10	1.15	3.40–14.89
8	n.s.			8			
9	5.93	1.15	3.38–9.25	9			
10	n.s.			10	2.01	1.05	1.27–2.93
11	n.s.			11	10.09	1.25	3.44–20.47
12	n.s.			12	10.07	1.30	3.48–20.38

^a All estimates refer to $\Delta_{30,u}$. The numbers in parentheses denote groups where the estimates are sensitive to hidden bias even if $\Gamma = 1$. n.s. denote groups where the treatment effects are insignificant. No sensitivity tests were calculated here.

^b Γ is the weight the additional covariate needs to influence the results.

^c Bounds denote the corresponding bounds, Q_{MH}^+ and Q_{MH}^- .

temporary employment as well as participants in the different ALMP programmes. The purpose of the data collection is to administer the job-seekers and to alleviate the decisions of the local caseworkers regarding the placement of job-seekers in regular employment or ALMP programmes. Furthermore, the data is used to control the UI eligibility of the job-seekers. All data are collected detailed to a daily level, ie the day the unemployment spell starts as well as the day it ends are contained. These locally collected data are transferred to the FEA on a monthly basis. The information for all job-seekers is consolidated in the so-called job-seekers data base (*Bewerberangebotsdatei*, BewA) that is available from 1997 onwards (see Wilke and Winterhager (2004)). The BewA contains a rich set of attributes describing the individual's labour market situation. Three classes of characteristics could be distinguished: The first category, socio-demographic information, incorporates attributes like for example age, gender, marital status, citizenship, the number of children, and health restrictions. The second category, the qualification details, consists among others of the individual's graduation, completed professional training, the occupational group of the last occupation and work experience. The last category, the labour market history, includes the date of registration at the

LEA (and the duration of unemployment since that date), the duration of the last employment, the number of job offers received by the individual, as well as information on preceding programme participation. Although most of the attributes are 'objective' facts, like age or gender, the BewA also contains subjective assessments of the individuals' labour market prospects by the responsible caseworkers. These subjective attributes cover the assessment of the individual's health restriction with respect to employment chances, but also the assessment of the actual qualification of the individuals.

The information on the different ALMP programmes is not included in BewA, but is collected separately in the LEAs within the so-called *CoSach* system¹⁹ and transferred to the FEA on a monthly basis, too. As in BewA, data are detailed to a daily level. Information on the single ALMP programmes are stored in several different data sets. For example, data on vocational training programmes, training measures and German language courses are stored in the so-called *ST35*, whereas data on subsidised employment programmes in Germany, like JCS and structural adjustment schemes, are consolidated in the so-called *ST11*. This source contains all information necessary for the administration of the programmes, like eg information on the employer who receives the wage subsidy, the economic sector of the activity, times of qualification and/or practical training of the individual during the programme, the begin and end of the programme (payment of the subsidy) and the ex-ante planned as well as the ex-post realised programme entry and leave dates of the individual. Besides these attributes, a small number of further individual characteristics is included. However, these are redundant to those provided by BewA.

During the years 2000 to 2004 the information of the BewA and the several sources for the different programmes were standardised and merged into one major source: the programme participants' master data set (*Maßnahme-Teilnehmer-Grunddatei*, MTG). This data set includes information on all programme participations in FEA sponsored programmes from 2000 to presence. For this reason, the MTG contains a large number of attributes to describe the individual's labour market situation on the one hand. On the other hand it provides a reasonable basis for the construction of the comparison group as almost all individual characteristics are available for the participants as well as for the non-participants and originate from the same source.²⁰

A further important determinant is the state of the local labour market (Heckman and Smith (1999)). For the description of the regional context we use the classification of the labour office districts by the FEA (see Blien *et al.*(2004) for further details). The aim of this classification is to enhance the comparability of the labour office districts for a more efficient allocation of funds. The 181 LEAs are split into twelve types of office districts with similar labour market circumstances. These twelve types of comparable labour office districts can be summarised into five types for strategic purposes. Since almost all labour office districts in

¹⁹ The term *CoSach* is an abbreviation for computer supported processing (*computergestützte Sachbearbeitung*).

²⁰ This same origin of the data is an essential building block for a valid estimation. The results of Heckman, Ichimura, Smith, and Todd (1998) who analyse the sources of potential biases of evaluation estimators show that having access to a geographically-matched comparison group administered the same questionnaire as programme participants clearly matters in devising effective non-experimental estimators of programme impacts.

East Germany belong to the first of these five strategic types (except the city of Dresden), we use the finer typing of three groups here. For West Germany we use the remaining four types for strategic purposes. The clusters are ordered according to the labour market conditions, ie cluster Ia comprises LEAs with the worst and cluster V LEAs with the most promising labour market situation.²¹ Table B.1 presents the classification used in analysis with a short description of the clusters and the number of LEAs in each cluster.

Tab. B.1: CLASSIFICATION OF LABOUR OFFICE DISTRICTS IN GERMANY

Cluster	Description	No.
Ia	East German labour office districts with worst labour market conditions	5
Ib	East German labour office districts with bad labour market conditions	23
Ic	East German labour office districts with high unemployment	5
II	Labour office districts dominated by large cities	21
III	West German labour office districts with rural elements, medium-sized industry and average unemployment	63
IV	West German centers with good labour market prospects	10
V	West German labour office districts with the best labour market prospects	47

No. describes the number of labour offices in cluster.

Source: Blien *et al.* (2004)

The available information of the FEA for the evaluation of JCS is summarised in table B.2. Altogether, we are able to use the five categories of variables as described. For the outcome variable we use the information from the Employment Statistics Register (*Beschäftigtenstatistik*, BSt) which includes information on the total population of persons who are registered in the German social security system since 1975. These are employees and participants in several ALMP programmes, but no self-employed or pensioners. Data on spells of employment that is subject to social insurance contributions are collected for each employed person in account form based on yearly notifications by the employers. However, due to delays in the sending of the notifications by the employers, the available information in the BSt has an up to two years time lag. Therefore, the FEA forecasts the information included. In consequence, assessing contemporary effects of ALMP programmes is possible, but the results may be problematic as they are based on forecasted employment information purely. As valuable evaluation of programme effects should be based on notified, rather than forecasted information, our observation period ends in December 2003. However, as the time lag between the corresponding date of information and the extraction from the BSt for our analysis amounted to eight months only, the relation of notified and forecasted data has to be checked and should be considered when interpreting the estimated treatment effects. Based on the results of Fröhlich, Kaimer, and Stamm (2004), the share of forecasted data used in the analyses amounts to between four and ten percent at maximum.

We define only regular employment as a success, whereas all other kinds of subsidised employment or

²¹ It should be noted that the regional indicators are based on information from a different point of time than the data of the programmes. However, the clustering provides the most comprehensive and at the same time parsimonious characterisation of the labour market differences. In addition, we assume that the situation of the single labour office districts has not changed much within a few years.

Tab. B.2: OVERVIEW ON DATA SOURCES AND ATTRIBUTES

Data Source		Attributes
MTG ¹	BewA ²	a) Socio-demographic: age, gender, marital status, number of children, citizenship, asylum-seeker, health restrictions b) Qualification: graduation (schooling), professional training, occupational group, work experience, appraisal of qualification by the placement officer, desired occupation, desired work time c) Labour Market History: duration of unemployment, duration of last occupation, number of job offers, occupational rehabilitation, programme participation before unemployment
	ST11 ³	d) Programme: institution that receives the subsidy, activity sector, time of qualification and/or practical training during programme, begin and end of programme (payment of subsidy), entry and leave of the participation, duration of programme e) Regional Information: Types of comparable labour office districts by FEA

¹ MTG: Programme participants' master data set (*Maßnahme-Teilnehmer-Grunddatei*)

² BewA: Job-seekers data base (*Bewerberangebotsdatei*).

³ ST11: Programme participants' data based of subsidised employment

participations in ALMP programmes are defined as a failure. While this definition may conflict with the institutional setting, it reflects the economic point of view to measure the integration ability of the JCS into non-subsidised employment. To identify spells of regular employment without further promotion, we use the excerpted information of the final version of the MTG on the individual's time spent in ALMP programmes.

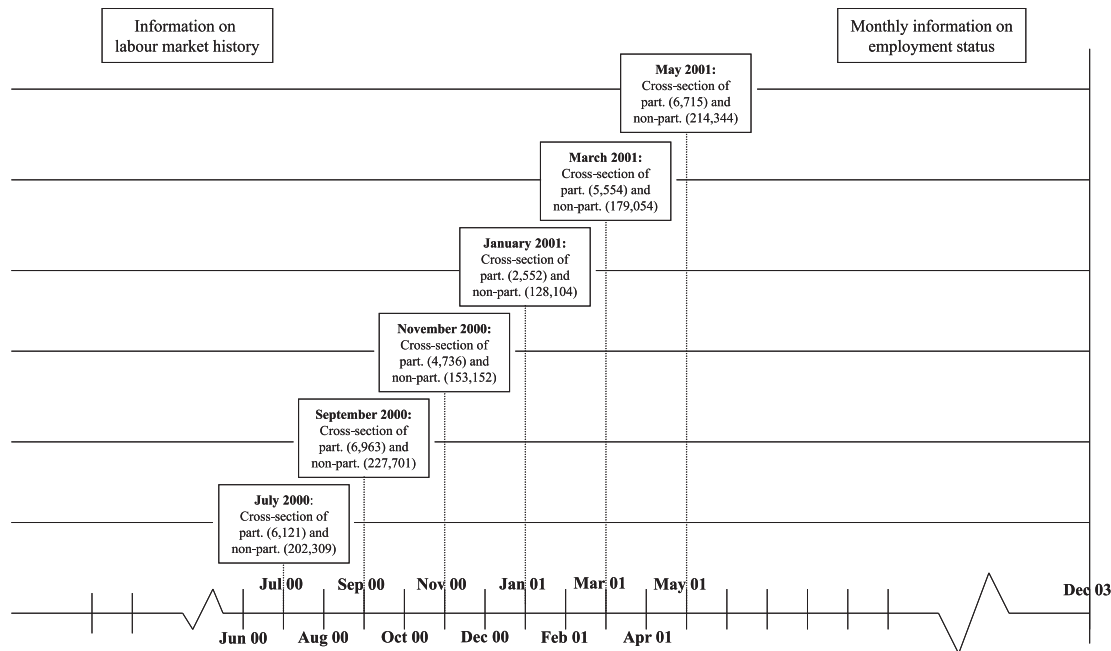
For the empirical analysis, we have drawn a random sample of individuals who have started a subsidised employment programme, ie a JCS or structural adjustment scheme, in six different months: July 2000, September 2000, November 2000, January 2001, March 2001 and May 2001. The construction of the comparison group has been accomplished in a similar way. Based on the information of the BewA-population in the respective months before the participants started their programmes, six random samples were drawn. The proportions of these original samples have been 20:1. In other words, for each participant from MTG starting a JCS in July 2000 we have drawn 20 non-participants from BewA of June 2000 as potential comparisons, and so on. By doing so, we are left with the same set of attributes for participants and potential comparison individuals except the missing programme information. A further advantage of using data on programme entries instead of entries into unemployment is the larger number of participants in analysis. Hence, we are able to analyse programme effects with respect to several sources of heterogeneity with confidence.

The individual characteristics of the six cross-sections have been completed by the employment outcome of all individuals in our samples. As described above, the relevant information has been taken from the BSt and were corrected by times spent in ALMP programmes based on information of an excerpt of the MTG for the same period of time.²² However, a complete merge of the cross-section information (MTG/BewA) and

²² This excerpt contains solely the entry and leave dates of individuals in the different programmes sponsored by the FEA. All remaining attributes are not available for our analysis.

the employment outcomes (BSt) was not possible for all observations, since both data sets use different identifiers. Whereas MTG/BewA use FEA-specific customer numbers to identify job-seeking and participating individuals, the BSt refers to the social insurance policy number (*Sozialversicherungsnummer*). Therefore, only in cases where this information is on the one hand available and on the other hand valid the data can be merged.

Fig. B.1: AVAILABLE DATA FOR ANALYSIS



In our empirical analysis, we will evaluate the effects of JCS on regular employment only. The effects of other programmes are not considered. Thus, we have restricted the participants' data to JCS. Furthermore, to avoid issues related to education or basic vocational training we have restricted the data to persons of 25 years or older. In addition, as early retirement may induce some trouble to the results, persons older than 55 years are excluded, too. Moreover, the labour market of the capital city is not considered in our analysis. The special situation of Berlin would require a separate estimation and interpretation of the effects of JCS for participating individuals into regular employment. Thus, East Germany will be the federal countries of Mecklenburg-Western Pomerania, Brandenburg, Saxony, Saxony-Anhalt, and Thuringia for the rest of this study. West Germany refers to all West German federal countries.

Figure B.1 summarises the timeline of the available information and presents the resulting numbers of observations for participants and non-participants differentiated by month of entry into the programme. The numbers of entries in the months differ. Whereas our data set contains 6,963 participants starting a JCS in September 2000, the corresponding number for January 2001 is 2,552 only. Altogether, we are able to use information on 32,641 participants starting a JCS between July 2000 and May 2001 and on 1,104,664 non-participants for the evaluation of the employment effects of JCS.

C Descriptive Statistics

Tab. C.1: MEANS OF SELECTED CHARACTERISTICS (MEN IN WEST GERMANY)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	152,904	663	67,166	484	36,344	437	23,176	498
Programme duration	290.4		284		268.6		277.4	
<i>Age</i>								
25 to 29 years	0.17	0.10	0.15	0.11	0.13	0.11	0.12	0.11
30 to 34 years	0.21	0.17	0.20	0.17	0.18	0.15	0.17	0.13
35 to 39 years	0.20	0.22	0.20	0.18	0.20	0.23	0.19	0.16
40 to 44 years	0.17	0.19	0.17	0.20	0.18	0.17	0.18	0.20
45 to 49 years	0.13	0.15	0.14	0.17	0.15	0.16	0.16	0.19
50 to 55 years	0.12	0.17	0.14	0.17	0.17	0.18	0.18	0.20
Foreigner	0.19	0.12	0.20	0.12	0.20	0.14	0.20	0.12
Asylum-seeker	0.06	0.05	0.07	0.03	0.06	0.04	0.05	0.04
No. of placement propositions	4.58	10.35	4.80	10.48	4.89	10.75	4.87	11.03
No. of children	0.58	0.52	0.57	0.56	0.58	0.67	0.57	0.55
Placement restrictions	0.15	0.26	0.17	0.27	0.20	0.24	0.22	0.22
Vocational rehabilitation ²	0.05	0.08	0.06	0.08	0.07	0.07	0.07	0.07
Health restrictions	0.23	0.36	0.27	0.38	0.30	0.36	0.33	0.31
Marriage/ cohabitation	0.52	0.42	0.51	0.49	0.51	0.47	0.51	0.44
Work experience	0.93	0.92	0.93	0.93	0.93	0.92	0.93	0.91
Programme bef. unemp. ³	0.03	0.35	0.05	0.40	0.06	0.36	0.08	0.38
Reception of UI	0.85	0.84	0.86	0.77	0.88	0.78	0.89	0.72
<i>Duration of last employment</i>								
up to 180 days	0.28	0.31	0.28	0.43	0.27	0.48	0.26	0.50
between 180 and 365 days	0.18	0.15	0.15	0.11	0.12	0.09	0.11	0.08
between 366 and 730 days	0.16	0.16	0.17	0.14	0.16	0.11	0.16	0.13
more than 730 days	0.38	0.38	0.41	0.32	0.44	0.32	0.47	0.30
<i>Pension</i>								
No pension	1.00	1.00	1.00	1.00	0.99	1.00	0.99	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Social plan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Schooling⁴</i>								
No school	0.14	0.25	0.16	0.21	0.17	0.22	0.18	0.22
CSE	0.59	0.56	0.58	0.57	0.58	0.59	0.58	0.59
O-levels	0.14	0.09	0.13	0.09	0.12	0.06	0.12	0.07
Adv. technical college entrance ⁵	0.05	0.03	0.04	0.04	0.04	0.03	0.04	0.03
A-levels	0.09	0.07	0.08	0.09	0.09	0.09	0.08	0.10
<i>Assessment of individual's qualification</i>								
Other	0.51	0.64	0.54	0.59	0.56	0.61	0.57	0.57
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.40	0.27	0.37	0.31	0.35	0.27	0.34	0.32
Ass. to technical school ⁶	0.03	0.02	0.03	0.04	0.03	0.04	0.03	0.03
Ass. to adv. technical college	0.02	0.02	0.02	0.03	0.02	0.04	0.02	0.03
Ass. to university	0.03	0.04	0.03	0.04	0.04	0.03	0.04	0.06
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.41	0.52	0.44	0.51	0.46	0.50	0.47	0.45
Apprenticeship (on-the-job)	0.49	0.39	0.45	0.37	0.43	0.39	0.43	0.41
Apprenticeship (off-the job)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Full-time vocational school	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01
Technical school	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.02
Advanced technical college	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.02
University	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.06
<i>Month of treatment start</i>								
July 2000	0.15	0.18	0.19	0.15	0.21	0.11	0.22	0.16
September 2000	0.18	0.16	0.18	0.17	0.22	0.15	0.23	0.15
November 2000	0.13	0.17	0.12	0.14	0.13	0.19	0.15	0.12
January 2001	0.14	0.17	0.11	0.18	0.09	0.15	0.10	0.13
March 2001	0.21	0.14	0.17	0.21	0.14	0.20	0.12	0.17
May 2001	0.19	0.18	0.24	0.16	0.21	0.20	0.17	0.26
<i>Regional Context Variables[†]</i>								
Cluster II	0.23	0.36	0.26	0.29	0.29	0.28	0.32	0.36
Cluster III	0.40	0.37	0.41	0.42	0.41	0.45	0.41	0.39
Cluster IV	0.12	0.08	0.11	0.06	0.11	0.08	0.11	0.08
Cluster V	0.25	0.18	0.21	0.23	0.18	0.20	0.16	0.17
<i>Desired work time</i>								

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TABLE C.1: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Full-time work	0.99	1.00	0.99	1.00	0.99	1.00	0.99	0.99
Part-time work	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01
Other (e.g. telework)	0.00	0.00	0.00	0.00				
<i>Work time (last occupation)</i>								
Full-time work	0.59	0.50	0.52	0.54	0.49	0.56	0.45	0.53
Part-time work	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01
Not applicable	0.41	0.49	0.47	0.46	0.50	0.44	0.55	0.46
<i>Desired Occupation</i>								
Farming ⁸	0.04	0.13	0.04	0.10	0.04	0.11	0.04	0.07
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Manufacturing	0.49	0.48	0.47	0.50	0.46	0.52	0.45	0.49
Technical professions	0.05	0.03	0.05	0.05	0.05	0.03	0.05	0.04
Service Professions	0.40	0.35	0.41	0.35	0.42	0.32	0.42	0.39
Other occupations	0.02	0.01	0.03	0.01	0.03	0.01	0.03	0.01
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.2: MEANS OF SELECTED CHARACTERISTICS (MEN IN WEST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	15,667	593	11,692	288	9,510	264	7,686	206
Programme duration	289.8		267.1		264.9		281.3	
<i>Age</i>								
25 to 29 years	0.10	0.09	0.09	0.10	0.08	0.11	0.07	0.05
30 to 34 years	0.16	0.15	0.15	0.19	0.14	0.10	0.13	0.14
35 to 39 years	0.18	0.22	0.19	0.21	0.17	0.25	0.18	0.24
40 to 44 years	0.18	0.19	0.17	0.16	0.18	0.18	0.18	0.25
45 to 49 years	0.17	0.18	0.18	0.16	0.18	0.19	0.19	0.16
50 to 55 years	0.20	0.17	0.22	0.18	0.25	0.17	0.25	0.16
Foreigner	0.21	0.10	0.20	0.11	0.20	0.13	0.20	0.11
Asylum-seeker	0.05	0.04	0.05	0.06	0.05	0.04	0.05	0.08
No. of placement propositions	4.72	9.69	4.67	10.89	4.57	9.70	4.73	10.10
No. of children	0.56	0.68	0.57	0.49	0.57	0.54	0.59	0.76
Placement restrictions	0.23	0.23	0.24	0.16	0.24	0.19	0.26	0.21
Vocational rehabilitation ²	0.08	0.07	0.08	0.07	0.08	0.07	0.08	0.08
Health restrictions	0.34	0.33	0.35	0.27	0.35	0.30	0.36	0.35
Marriage/ cohabitation	0.50	0.48	0.51	0.47	0.51	0.47	0.50	0.50
Work experience	0.93	0.93	0.93	0.91	0.93	0.95	0.93	0.91
Programme bef. unemp. ³	0.07	0.37	0.08	0.33	0.08	0.34	0.08	0.33
Reception of UI	0.90	0.72	0.91	0.82	0.91	0.83	0.91	0.78
<i>Duration of last employment</i>								
up to 180 days	0.24	0.49	0.23	0.55	0.24	0.56	0.23	0.51
between 180 and 365 days	0.11	0.07	0.11	0.06	0.11	0.07	0.10	0.06
between 366 and 730 days	0.15	0.13	0.14	0.10	0.14	0.09	0.13	0.14
more than 730 days	0.49	0.31	0.51	0.29	0.52	0.28	0.54	0.29
<i>Pension</i>								
No pension	0.99	1.00	0.99	1.00	0.99	1.00	0.99	1.00
Vocational disability	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Social plan			0.00	0.00			0.00	0.00
<i>Schooling⁴</i>								
No school	0.19	0.21	0.20	0.20	0.20	0.26	0.20	0.20
CSE	0.59	0.53	0.59	0.59	0.59	0.57	0.60	0.56
O-levels	0.11	0.09	0.11	0.07	0.10	0.06	0.10	0.06
Adv. technical college entrance ⁵	0.04	0.06	0.03	0.05	0.03	0.03	0.03	0.05
A-levels	0.08	0.12	0.07	0.08	0.07	0.08	0.07	0.13

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TABLE C.2: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
<i>Assessment of individual's qualification</i>								
Other	0.59	0.56	0.60	0.63	0.61	0.64	0.62	0.58
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.33	0.30	0.32	0.25	0.31	0.28	0.31	0.28
Ass. to technical school ⁶	0.03	0.03	0.03	0.04	0.02	0.01	0.02	0.01
Ass. to adv. technical college	0.02	0.06	0.02	0.03	0.02	0.04	0.02	0.08
Ass. to university	0.03	0.06	0.03	0.05	0.03	0.03	0.03	0.05
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.48	0.43	0.49	0.57	0.50	0.48	0.49	0.47
Apprenticeship (on-the-job)	0.42	0.42	0.42	0.28	0.41	0.41	0.42	0.36
Apprenticeship (off-the job)	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.01
Full-time vocational school	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Technical school	0.03	0.03	0.02	0.05	0.02	0.02	0.02	0.02
Advanced technical college	0.01	0.03	0.01	0.02	0.01	0.03	0.02	0.06
University	0.03	0.06	0.03	0.05	0.03	0.03	0.03	0.06
<i>Month of treatment start</i>								
July 2000	0.22	0.19	0.21	0.14	0.22	0.22	0.22	0.23
September 2000	0.24	0.15	0.22	0.25	0.23	0.22	0.23	0.17
November 2000	0.15	0.14	0.14	0.11	0.14	0.14	0.14	0.15
January 2001	0.11	0.10	0.10	0.12	0.10	0.11	0.11	0.08
March 2001	0.13	0.17	0.14	0.16	0.14	0.16	0.13	0.19
May 2001	0.16	0.24	0.18	0.21	0.17	0.15	0.17	0.17
<i>Regional Context Variables⁷</i>								
Cluster II	0.33	0.35	0.34	0.31	0.36	0.33	0.37	0.41
Cluster III	0.41	0.42	0.40	0.44	0.40	0.46	0.39	0.42
Cluster IV	0.11	0.06	0.11	0.08	0.10	0.08	0.10	0.03
Cluster V	0.15	0.16	0.15	0.16	0.14	0.13	0.14	0.14
<i>Desired work time</i>								
Full-time work	0.99	0.99	0.99	0.99	0.99	1.00	0.99	1.00
Part-time work	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00
Other (e.g. telework)								
<i>Work time (last occupation)</i>								
Full-time work	0.40	0.59	0.38	0.53	0.37	0.54	0.34	0.50
Part-time work	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01
Not applicable	0.59	0.39	0.61	0.46	0.62	0.45	0.66	0.48
<i>Desired Occupation</i>								
Farming ⁸	0.04	0.10	0.04	0.14	0.04	0.14	0.05	0.13
Mining, mineral extraction	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00
Manufacturing	0.45	0.46	0.45	0.47	0.45	0.47	0.45	0.43
Technical professions	0.04	0.04	0.04	0.04	0.04	0.02	0.04	0.02
Service Professions	0.43	0.40	0.43	0.35	0.43	0.38	0.42	0.41
Other occupations	0.03	0.00	0.03	0.00	0.03	0.00	0.03	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.3: MEANS OF SELECTED CHARACTERISTICS (MEN IN WEST GERMANY)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	6,113	278	4,900	190	4,127	144	3,476	120
Programme duration		297.7		292.7		272		288.7
<i>Age</i>								
25 to 29 years	0.05	0.10	0.05	0.12	0.05	0.08	0.04	0.12
30 to 34 years	0.12	0.15	0.11	0.16	0.11	0.17	0.11	0.17
35 to 39 years	0.17	0.21	0.17	0.19	0.15	0.20	0.15	0.15
40 to 44 years	0.18	0.22	0.19	0.19	0.19	0.18	0.18	0.28

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TABLE C.3: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
45 to 49 years	0.20	0.16	0.19	0.16	0.21	0.15	0.21	0.17
50 to 55 years	0.28	0.17	0.28	0.17	0.29	0.22	0.31	0.13
Foreigner	0.20	0.11	0.20	0.15	0.19	0.15	0.20	0.12
Asylum-seeker	0.05	0.05	0.04	0.07	0.05	0.06	0.04	0.05
No. of placement propositions	3.97	9.27	3.72	10.72	3.34	9.58	3.15	12.12
No. of children	0.58	0.66	0.61	0.72	0.57	0.51	0.60	0.71
Placement restrictions	0.27	0.22	0.29	0.21	0.29	0.24	0.29	0.22
Vocational rehabilitation ²	0.08	0.08	0.09	0.04	0.09	0.06	0.09	0.08
Health restrictions	0.37	0.31	0.39	0.33	0.39	0.31	0.39	0.28
Marriage/ cohabitation	0.51	0.44	0.51	0.45	0.50	0.42	0.50	0.46
Work experience	0.92	0.93	0.93	0.92	0.93	0.96	0.92	0.91
Programme bef. unemp. ³	0.08	0.40	0.09	0.27	0.09	0.34	0.09	0.38
Reception of UI	0.91	0.80	0.92	0.85	0.91	0.83	0.93	0.87
<i>Duration of last employment</i>								
up to 180 days	0.23	0.60	0.22	0.62	0.24	0.66	0.25	0.58
between 180 and 365 days	0.09	0.09	0.10	0.08	0.09	0.10	0.09	0.05
between 366 and 730 days	0.12	0.04	0.11	0.06	0.11	0.07	0.11	0.04
more than 730 days	0.56	0.27	0.57	0.24	0.56	0.17	0.55	0.33
<i>Pension</i>								
No pension	0.99	1.00	0.99	1.00	0.98	0.99	0.99	1.00
Vocational disability	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Social plan			0.00	0.00				
<i>Schooling⁴</i>								
No school	0.20	0.22	0.21	0.27	0.21	0.26	0.22	0.30
CSE	0.60	0.58	0.61	0.62	0.60	0.58	0.61	0.51
O-levels	0.10	0.07	0.09	0.05	0.09	0.07	0.08	0.09
Adv. technical college entrance ⁵	0.04	0.05	0.03	0.02	0.03	0.02	0.02	0.04
A-levels	0.07	0.09	0.07	0.04	0.06	0.07	0.07	0.06
<i>Assessment of individual's qualification</i>								
Other	0.62	0.61	0.63	0.71	0.64	0.72	0.64	0.73
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.30	0.26	0.30	0.25	0.29	0.20	0.29	0.19
Ass. to technical school ⁶	0.02	0.04	0.02	0.01	0.02	0.02	0.02	0.03
Ass. to adv. technical college	0.02	0.04	0.02	0.03	0.02	0.01	0.02	0.04
Ass. to university	0.03	0.05	0.02	0.02	0.02	0.05	0.02	0.01
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.50	0.52	0.50	0.56	0.51	0.58	0.52	0.63
Apprenticeship (on-the-job)	0.42	0.33	0.42	0.36	0.42	0.33	0.40	0.28
Apprenticeship (off-the job)	0.01	0.01	0.01	0.02	0.01	0.01	0.00	0.01
Full-time vocational school	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.02
Technical school	0.02	0.04	0.02	0.01	0.02	0.02	0.02	0.03
Advanced technical college	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.03
University	0.03	0.06	0.03	0.02	0.02	0.06	0.02	0.01
<i>Month of treatment start</i>								
July 2000	0.21	0.24	0.18	0.22	0.22	0.16	0.20	0.15
September 2000	0.22	0.23	0.23	0.19	0.22	0.15	0.24	0.17
November 2000	0.15	0.13	0.15	0.15	0.14	0.15	0.15	0.18
January 2001	0.11	0.10	0.11	0.09	0.12	0.15	0.10	0.12
March 2001	0.13	0.14	0.14	0.21	0.14	0.21	0.13	0.15
May 2001	0.17	0.15	0.19	0.13	0.17	0.19	0.19	0.24
<i>Regional Context Variables⁷</i>								
Cluster II	0.37	0.38	0.38	0.40	0.36	0.42	0.38	0.51
Cluster III	0.39	0.42	0.38	0.42	0.41	0.45	0.39	0.37
Cluster IV	0.11	0.06	0.11	0.07	0.10	0.05	0.10	0.06
Cluster V	0.13	0.14	0.13	0.11	0.13	0.08	0.12	0.07
<i>Desired work time</i>								
Full-time work	0.99	1.00	0.99	0.99	0.99	1.00	0.99	1.00
Part-time work	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00
Other (e.g. telework)								
<i>Work time (last occupation)</i>								
Full-time work	0.30	0.59	0.28	0.53	0.30	0.57	0.30	0.49
Part-time work	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01
Not applicable	0.69	0.41	0.72	0.46	0.69	0.42	0.69	0.50
<i>Desired Occupation</i>								
Farming ⁸	0.04	0.17	0.04	0.12	0.05	0.13	0.05	0.09
Mining, mineral extraction	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00
Manufacturing	0.45	0.42	0.44	0.52	0.46	0.53	0.45	0.53

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TABLE C.3: (CONTINUED)

	$u = 9$		$u = 10$		$u = 11$		$u = 12$	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Technical professions	0.04	0.03	0.04	0.00	0.04	0.02	0.04	0.02
Service Professions	0.44	0.37	0.44	0.36	0.42	0.31	0.43	0.36
Other occupations	0.02	0.00	0.03	0.01	0.03	0.00	0.03	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.4: MEANS OF SELECTED CHARACTERISTICS (WOMEN IN WEST GERMANY)

	$u = 1$		$u = 2$		$u = 3$		$u = 4$	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	120,891	302	58,204	240	33,214	258	22,231	327
Programme duration	311.1		305.2		292.4		300.4	
<i>Age</i>								
25 to 29 years	0.14	0.09	0.12	0.08	0.10	0.07	0.10	0.09
30 to 34 years	0.20	0.18	0.19	0.19	0.19	0.19	0.19	0.13
35 to 39 years	0.21	0.26	0.21	0.23	0.21	0.18	0.21	0.23
40 to 44 years	0.18	0.18	0.17	0.17	0.18	0.25	0.18	0.22
45 to 49 years	0.14	0.15	0.15	0.17	0.15	0.17	0.16	0.18
50 to 55 years	0.13	0.14	0.15	0.16	0.16	0.15	0.17	0.16
Foreigner	0.12	0.05	0.13	0.09	0.13	0.05	0.13	0.07
Asylum-seeker	0.06	0.06	0.07	0.02	0.06	0.04	0.06	0.04
No. of placement propositions	3.09	8.20	3.01	9.15	2.94	9.26	2.86	9.73
No. of children	0.79	0.83	0.85	0.75	0.89	0.82	0.90	0.79
Placement restrictions	0.11	0.20	0.12	0.16	0.13	0.17	0.14	0.12
Vocational rehabilitation ²	0.03	0.05	0.03	0.06	0.03	0.07	0.03	0.03
Health restrictions	0.19	0.29	0.20	0.26	0.22	0.26	0.22	0.20
Marriage/ cohabitation	0.61	0.52	0.65	0.48	0.67	0.53	0.69	0.48
Work experience	0.92	0.89	0.93	0.90	0.93	0.93	0.93	0.93
Programme bef. unemp. ³	0.02	0.31	0.02	0.30	0.03	0.33	0.04	0.37
Reception of UI	0.77	0.79	0.78	0.77	0.80	0.77	0.81	0.68
<i>Duration of last employment</i>								
up to 180 days	0.28	0.31	0.27	0.40	0.25	0.42	0.24	0.44
between 180 and 365 days	0.12	0.09	0.09	0.12	0.08	0.09	0.07	0.07
between 366 and 730 days	0.14	0.13	0.13	0.13	0.13	0.11	0.12	0.10
more than 730 days	0.46	0.47	0.50	0.35	0.54	0.38	0.57	0.40
<i>Pension</i>								
No pension	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Social plan					0.00	0.00		
<i>Schooling⁴</i>								
No school	0.08	0.08	0.09	0.07	0.10	0.08	0.10	0.08
CSE	0.48	0.41	0.49	0.39	0.49	0.41	0.50	0.41
O-levels	0.26	0.20	0.25	0.21	0.25	0.20	0.24	0.21
Adv. technical college entrance ⁵	0.05	0.11	0.05	0.12	0.05	0.09	0.05	0.09
A-levels	0.13	0.21	0.12	0.21	0.11	0.21	0.12	0.22
<i>Assessment of individual's qualification</i>								
Other	0.44	0.39	0.46	0.33	0.47	0.39	0.47	0.37
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.47	0.36	0.46	0.43	0.45	0.38	0.44	0.38
Ass. to technical school ⁶	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.04
Ass. to adv. technical college	0.02	0.09	0.03	0.13	0.03	0.13	0.03	0.10
Ass. to university	0.05	0.14	0.04	0.11	0.04	0.09	0.04	0.11
Ass. to top-management	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.35	0.33	0.37	0.29	0.38	0.30	0.38	0.31
Apprenticeship (on-the-job)	0.49	0.35	0.47	0.38	0.47	0.40	0.46	0.37

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TABLE C.4: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Apprenticeship (off-the job)	0.02	0.04	0.01	0.02	0.01	0.02	0.01	0.01
Full-time vocational school	0.03	0.02	0.03	0.02	0.03	0.05	0.03	0.03
Technical school	0.05	0.06	0.05	0.10	0.04	0.03	0.05	0.09
Advanced technical college	0.02	0.08	0.02	0.10	0.02	0.09	0.02	0.07
University	0.05	0.13	0.05	0.08	0.04	0.10	0.05	0.11
<i>Month of treatment start</i>								
July 2000	0.16	0.17	0.20	0.14	0.20	0.13	0.24	0.14
September 2000	0.20	0.20	0.20	0.21	0.23	0.17	0.24	0.22
November 2000	0.15	0.18	0.13	0.21	0.13	0.21	0.14	0.17
January 2001	0.12	0.16	0.12	0.13	0.10	0.18	0.10	0.12
March 2001	0.17	0.12	0.16	0.19	0.14	0.16	0.12	0.17
May 2001	0.20	0.18	0.20	0.13	0.20	0.15	0.16	0.17
<i>Regional Context Variables⁷</i>								
Cluster II	0.22	0.31	0.22	0.30	0.24	0.31	0.26	0.32
Cluster III	0.40	0.39	0.41	0.44	0.42	0.47	0.42	0.39
Cluster IV	0.12	0.09	0.11	0.10	0.11	0.07	0.10	0.09
Cluster V	0.26	0.20	0.25	0.17	0.23	0.14	0.22	0.20
<i>Desired work time</i>								
Full-time work	0.68	0.78	0.65	0.81	0.63	0.83	0.62	0.75
Part-time work	0.32	0.22	0.35	0.19	0.37	0.17	0.38	0.25
Other (e.g. telework)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Work time (last occupation)</i>								
Full-time work	0.41	0.44	0.35	0.41	0.34	0.43	0.31	0.43
Part-time work	0.11	0.08	0.10	0.10	0.11	0.08	0.09	0.07
Not applicable	0.48	0.49	0.54	0.50	0.56	0.48	0.60	0.50
<i>Desired Occupation</i>								
Farming ⁸	0.02	0.04	0.02	0.05	0.01	0.04	0.01	0.03
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing	0.18	0.16	0.19	0.14	0.20	0.22	0.21	0.14
Technical professions	0.02	0.02	0.03	0.02	0.03	0.01	0.03	0.01
Service Professions	0.76	0.77	0.75	0.78	0.74	0.73	0.73	0.82
Other occupations	0.02	0.02	0.02	0.01	0.02	0.00	0.02	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.5: MEANS OF SELECTED CHARACTERISTICS (WOMEN IN WEST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	15,194	363	11,264	138	9,053	145	7,108	125
Programme duration	324.2		301.6		300		303.5	
<i>Age</i>								
25 to 29 years	0.09	0.06	0.07	0.04	0.07	0.09	0.07	0.06
30 to 34 years	0.17	0.14	0.15	0.12	0.15	0.17	0.14	0.15
35 to 39 years	0.20	0.22	0.19	0.28	0.19	0.24	0.18	0.21
40 to 44 years	0.17	0.25	0.17	0.28	0.17	0.23	0.17	0.24
45 to 49 years	0.17	0.21	0.18	0.14	0.17	0.16	0.19	0.17
50 to 55 years	0.20	0.12	0.24	0.12	0.26	0.10	0.26	0.17
Foreigner	0.14	0.05	0.15	0.07	0.15	0.05	0.15	0.05
Asylum-seeker	0.06	0.01	0.07	0.02	0.07	0.04	0.08	0.06
No. of placement propositions	2.88	8.59	2.91	8.12	2.93	7.86	2.89	8.67
No. of children	0.91	0.74	0.88	0.80	0.87	0.85	0.87	0.86
Placement restrictions	0.15	0.13	0.16	0.11	0.16	0.10	0.16	0.12
Vocational rehabilitation ²	0.03	0.04	0.03	0.03	0.03	0.07	0.03	0.06
Health restrictions	0.24	0.21	0.25	0.19	0.25	0.18	0.25	0.22
Marriage/ cohabitation	0.70	0.54	0.71	0.59	0.71	0.61	0.70	0.62
Work experience	0.93	0.90	0.93	0.90	0.93	0.89	0.93	0.93

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TABLE C.5: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Programme bef. unemp. ³	0.04	0.38	0.04	0.28	0.04	0.28	0.04	0.27
Reception of UI	0.82	0.67	0.81	0.78	0.82	0.82	0.81	0.78
<i>Duration of last employment</i>								
up to 180 days	0.23	0.45	0.24	0.43	0.23	0.50	0.24	0.49
between 180 and 365 days	0.07	0.09	0.07	0.07	0.07	0.06	0.06	0.05
between 366 and 730 days	0.11	0.12	0.10	0.15	0.09	0.11	0.10	0.09
more than 730 days	0.58	0.34	0.59	0.35	0.61	0.33	0.60	0.38
<i>Pension</i>								
No pension	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Social plan	0.00	0.00					0.00	0.00
<i>Schooling⁴</i>								
No school	0.11	0.06	0.11	0.07	0.12	0.06	0.12	0.05
CSE	0.52	0.34	0.54	0.37	0.54	0.41	0.55	0.41
O-levels	0.23	0.19	0.21	0.22	0.21	0.19	0.20	0.23
Adv. technical college entrance ⁵	0.04	0.15	0.04	0.09	0.04	0.09	0.04	0.10
A-levels	0.10	0.26	0.10	0.25	0.09	0.26	0.09	0.22
<i>Assessment of individual's qualification</i>								
Other	0.50	0.29	0.51	0.36	0.53	0.30	0.54	0.39
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.42	0.42	0.42	0.38	0.40	0.40	0.38	0.43
Ass. to technical school ⁶	0.01	0.01	0.01	0.03	0.01	0.02	0.01	0.00
Ass. to adv. technical college	0.02	0.16	0.02	0.12	0.02	0.14	0.02	0.10
Ass. to university	0.04	0.12	0.04	0.10	0.04	0.13	0.04	0.07
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.41	0.25	0.42	0.29	0.43	0.26	0.44	0.35
Apprenticeship (on-the-job)	0.45	0.34	0.45	0.39	0.44	0.41	0.43	0.38
Apprenticeship (off-the-job)	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.03
Full-time vocational school	0.03	0.05	0.03	0.01	0.03	0.03	0.03	0.02
Technical school	0.04	0.12	0.04	0.09	0.04	0.08	0.04	0.10
Advanced technical college	0.02	0.12	0.02	0.07	0.02	0.11	0.02	0.06
University	0.04	0.09	0.04	0.14	0.04	0.11	0.04	0.06
<i>Month of treatment start</i>								
July 2000	0.21	0.15	0.22	0.14	0.22	0.14	0.23	0.18
September 2000	0.25	0.21	0.24	0.30	0.24	0.25	0.23	0.24
November 2000	0.15	0.17	0.15	0.12	0.15	0.18	0.15	0.15
January 2001	0.10	0.16	0.11	0.15	0.10	0.17	0.10	0.17
March 2001	0.13	0.13	0.13	0.15	0.13	0.12	0.13	0.18
May 2001	0.16	0.17	0.16	0.13	0.16	0.14	0.16	0.08
<i>Regional Context Variables⁷</i>								
Cluster II	0.27	0.31	0.26	0.26	0.27	0.34	0.28	0.27
Cluster III	0.43	0.42	0.43	0.47	0.43	0.43	0.44	0.42
Cluster IV	0.10	0.08	0.10	0.08	0.10	0.09	0.09	0.08
Cluster V	0.21	0.19	0.20	0.19	0.20	0.14	0.19	0.23
<i>Desired work time</i>								
Full-time work	0.62	0.76	0.64	0.72	0.66	0.75	0.67	0.75
Part-time work	0.37	0.24	0.35	0.28	0.34	0.25	0.33	0.25
Other (e.g. telework)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Work time (last occupation)</i>								
Full-time work	0.27	0.45	0.26	0.39	0.27	0.46	0.25	0.38
Part-time work	0.10	0.11	0.09	0.12	0.09	0.12	0.08	0.12
Not applicable	0.63	0.44	0.65	0.49	0.65	0.42	0.67	0.50
<i>Desired Occupation</i>								
Farming ⁸	0.01	0.02	0.02	0.01	0.02	0.03	0.02	0.06
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing	0.22	0.10	0.24	0.12	0.25	0.10	0.25	0.11
Technical professions	0.03	0.02	0.03	0.01	0.02	0.03	0.03	0.05
Service Professions	0.71	0.85	0.70	0.83	0.69	0.85	0.68	0.76
Other occupations	0.02	0.00	0.02	0.01	0.02	0.00	0.02	0.02
Other	0.00	0.00			0.00	0.00		

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TABLE C.5: (CONTINUED)

	$u = 5$		$u = 6$		$u = 7$		$u = 8$	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.

n.a. = not available
¹ Unemployment duration until treatment start.
² Attendant for vocational rehabilitation.
³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.
⁴ Schooling: CSE = Certificate of Secondary Education.
⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)
⁶ Ass. = assimilable
⁷ Detailed information on regional context variables in Appendix B and table B.1.
⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.6: MEANS OF SELECTED CHARACTERISTICS (WOMEN IN WEST GERMANY)

	$u = 9$		$u = 10$		$u = 11$		$u = 12$	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	5,933	173	4,514	98	3,655	73	3,111	56
Programme duration	335.1		281.3		340.4		299.2	
<i>Age</i>								
25 to 29 years	0.05	0.08	0.05	0.06	0.04	0.11	0.04	0.05
30 to 34 years	0.13	0.13	0.13	0.12	0.12	0.07	0.11	0.11
35 to 39 years	0.18	0.20	0.17	0.27	0.17	0.19	0.18	0.29
40 to 44 years	0.16	0.27	0.17	0.11	0.18	0.22	0.18	0.18
45 to 49 years	0.18	0.16	0.19	0.24	0.18	0.29	0.18	0.14
50 to 55 years	0.29	0.17	0.30	0.19	0.31	0.12	0.31	0.23
Foreigner	0.15	0.06	0.16	0.13	0.16	0.12	0.15	0.04
Asylum-seeker	0.09	0.06	0.10	0.03	0.09	0.04	0.10	0.04
No. of placement propositions	2.56	8.61	2.37	10.00	2.29	8.71	2.22	9.09
No. of children	0.86	0.80	0.86	0.71	0.85	0.90	0.84	0.86
Placement restrictions	0.17	0.13	0.18	0.15	0.18	0.11	0.18	0.14
Vocational rehabilitation ²	0.03	0.03	0.03	0.03	0.04	0.03	0.04	0.09
Health restrictions	0.25	0.19	0.26	0.28	0.26	0.18	0.26	0.25
Marriage/ cohabitation	0.72	0.52	0.73	0.55	0.72	0.60	0.72	0.50
Work experience	0.93	0.91	0.93	0.94	0.93	0.90	0.93	0.95
Programme bef. unemp. ³	0.04	0.37	0.04	0.23	0.04	0.36	0.04	0.20
Reception of UI	0.80	0.82	0.78	0.80	0.79	0.84	0.81	0.89
<i>Duration of last employment</i>								
up to 180 days	0.24	0.55	0.26	0.50	0.26	0.60	0.25	0.45
between 180 and 365 days	0.06	0.05	0.05	0.04	0.06	0.07	0.06	0.04
between 366 and 730 days	0.09	0.09	0.09	0.05	0.08	0.07	0.07	0.16
more than 730 days	0.61	0.31	0.61	0.41	0.60	0.26	0.61	0.36
<i>Pension</i>								
No pension	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.00	0.00		
<i>Social plan</i>								
<i>Schooling⁴</i>								
No school	0.13	0.08	0.13	0.04	0.13	0.04	0.14	0.14
CSE	0.56	0.35	0.57	0.53	0.57	0.41	0.57	0.48
O-levels	0.19	0.23	0.18	0.16	0.18	0.15	0.18	0.20
Adv. technical college entrance ⁵	0.04	0.12	0.03	0.07	0.03	0.12	0.03	0.07
A-levels	0.09	0.22	0.08	0.19	0.08	0.27	0.08	0.11
<i>Assessment of individual's qualification</i>								
Other	0.57	0.34	0.58	0.43	0.59	0.33	0.58	0.48
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.36	0.42	0.36	0.35	0.35	0.34	0.35	0.39
Ass. to technical school ⁶	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.00
Ass. to adv. technical college	0.02	0.13	0.02	0.10	0.02	0.18	0.02	0.04
Ass. to university	0.04	0.09	0.03	0.11	0.03	0.14	0.03	0.09
Ass. to top-management	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.47	0.27	0.48	0.32	0.47	0.30	0.47	0.39
Apprenticeship (on-the-job)	0.40	0.32	0.40	0.43	0.41	0.33	0.41	0.39
Apprenticeship (off-the job)	0.01	0.01	0.01	0.03	0.01	0.00	0.01	0.04
Full-time vocational school	0.03	0.06	0.03	0.00	0.02	0.04	0.03	0.07
Technical school	0.04	0.12	0.04	0.03	0.03	0.07	0.03	0.04
Advanced technical college	0.02	0.10	0.02	0.08	0.02	0.10	0.01	0.02

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TABLE C.6: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
University	0.04	0.12	0.04	0.11	0.04	0.16	0.04	0.05
<i>Month of treatment start</i>								
July 2000	0.20	0.19	0.20	0.13	0.19	0.14	0.21	0.13
September 2000	0.24	0.32	0.22	0.23	0.22	0.22	0.23	0.25
November 2000	0.15	0.13	0.16	0.18	0.15	0.18	0.14	0.21
January 2001	0.11	0.11	0.11	0.15	0.10	0.18	0.10	0.09
March 2001	0.14	0.10	0.14	0.16	0.15	0.18	0.14	0.21
May 2001	0.17	0.14	0.18	0.13	0.18	0.11	0.17	0.11
<i>Regional Context Variables⁴</i>								
Cluster II	0.29	0.31	0.30	0.40	0.31	0.40	0.29	0.45
Cluster III	0.43	0.37	0.43	0.36	0.41	0.42	0.44	0.38
Cluster IV	0.09	0.12	0.09	0.13	0.09	0.07	0.09	0.05
Cluster V	0.19	0.20	0.18	0.11	0.18	0.11	0.18	0.13
<i>Desired work time</i>								
Full-time work	0.68	0.78	0.71	0.72	0.70	0.81	0.71	0.75
Part-time work	0.32	0.22	0.29	0.28	0.30	0.19	0.29	0.25
Other (e.g. telework)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Work time (last occupation)</i>								
Full-time work	0.24	0.51	0.20	0.42	0.22	0.51	0.22	0.23
Part-time work	0.08	0.14	0.06	0.12	0.07	0.10	0.07	0.11
Not applicable	0.69	0.35	0.74	0.46	0.71	0.40	0.71	0.66
<i>Desired Occupation</i>								
Farming ⁸	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.02
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.28	0.14	0.31	0.32
Manufacturing	0.28	0.10	0.28	0.14	0.02	0.03	0.02	0.00
Technical professions	0.02	0.01	0.02	0.02	0.66	0.82	0.64	0.64
Service Professions	0.67	0.87	0.67	0.81	0.02	0.00	0.02	0.02
Other occupations	0.02	0.01	0.01	0.01			0.00	0.00
Other	0.00	0.00	0.00	0.00				

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.7: MEANS OF SELECTED CHARACTERISTICS (MEN IN EAST GERMANY)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	74,160	866	38,783	718	24,602	798	16,503	895
Programme duration	256.8		255.8		266.4		268.5	
<i>Age</i>								
25 to 29 years	0.14	0.08	0.13	0.08	0.12	0.06	0.11	0.06
30 to 34 years	0.17	0.12	0.16	0.09	0.15	0.10	0.14	0.11
35 to 39 years	0.19	0.15	0.19	0.19	0.18	0.16	0.18	0.16
40 to 44 years	0.18	0.19	0.18	0.17	0.18	0.17	0.19	0.15
45 to 49 years	0.18	0.20	0.18	0.21	0.19	0.21	0.20	0.20
50 to 55 years	0.14	0.27	0.15	0.25	0.17	0.29	0.18	0.33
Foreigner	0.02	0.01	0.02	0.01	0.02	0.00	0.02	0.01
Asylum-seeker	0.02	0.02	0.02	0.00	0.02	0.01	0.01	0.01
No. of placement propositions	3.91	7.88	4.38	8.43	4.69	8.39	4.88	7.84
No. of children	0.57	0.54	0.56	0.58	0.55	0.58	0.54	0.54
Placement restrictions	0.10	0.15	0.11	0.16	0.12	0.14	0.15	0.13
Vocational rehabilitation ²	0.04	0.08	0.05	0.09	0.05	0.08	0.07	0.06
Health restrictions	0.16	0.26	0.18	0.28	0.20	0.25	0.23	0.21
Marriage/ cohabitation	0.60	0.58	0.57	0.60	0.55	0.64	0.54	0.63
Work experience	0.93	0.92	0.93	0.92	0.92	0.93	0.92	0.92
Programme bef. unemp. ³	0.16	0.59	0.23	0.56	0.27	0.52	0.32	0.56
Reception of UI	0.91	0.60	0.89	0.61	0.89	0.64	0.88	0.58
<i>Duration of last employment</i>								

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TABLE C.7: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
up to 180 days	0.19	0.46	0.21	0.53	0.22	0.50	0.22	0.60
between 180 and 365 days	0.18	0.17	0.17	0.13	0.16	0.17	0.16	0.12
between 366 and 730 days	0.20	0.13	0.23	0.11	0.23	0.12	0.22	0.10
more than 730 days	0.42	0.24	0.39	0.22	0.40	0.22	0.40	0.18
<i>Pension</i>								
No pension	1.00	1.00	0.99	0.99	0.99	1.00	0.99	0.99
Vocational disability	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Social plan			0.00	0.00				
<i>Schooling</i> ⁴								
No school	0.06	0.11	0.08	0.11	0.09	0.09	0.10	0.10
CSE	0.29	0.39	0.31	0.40	0.33	0.38	0.34	0.41
O-levels	0.57	0.43	0.53	0.45	0.50	0.47	0.48	0.43
Adv. technical college entrance ⁵	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
A-levels	0.07	0.06	0.06	0.03	0.06	0.05	0.06	0.05
<i>Assessment of individual's qualification</i>								
Other	0.31	0.38	0.34	0.41	0.37	0.32	0.39	0.38
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.62	0.55	0.59	0.53	0.56	0.60	0.54	0.55
Ass. to technical school ⁶	0.03	0.03	0.02	0.02	0.03	0.03	0.02	0.02
Ass. to adv. technical college	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ass. to university	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.02
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.12	0.16	0.15	0.19	0.17	0.14	0.19	0.16
Apprenticeship (on-the-job)	0.80	0.74	0.77	0.75	0.75	0.78	0.74	0.76
Apprenticeship (off-the job)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Full-time vocational school	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00
Technical school	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03
Advanced technical college	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01
University	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.02
<i>Month of treatment start</i>								
July 2000	0.14	0.21	0.19	0.17	0.21	0.19	0.18	0.17
September 2000	0.16	0.20	0.20	0.20	0.23	0.22	0.22	0.24
November 2000	0.12	0.17	0.12	0.15	0.14	0.13	0.16	0.15
January 2001	0.15	0.07	0.10	0.05	0.10	0.04	0.12	0.04
March 2001	0.23	0.15	0.15	0.25	0.13	0.18	0.15	0.14
May 2001	0.20	0.19	0.25	0.17	0.19	0.24	0.18	0.26
<i>Regional Context Variables</i> ⁷								
Cluster Ia	0.15	0.17	0.15	0.14	0.16	0.14	0.18	0.15
Cluster Ib	0.67	0.72	0.67	0.72	0.67	0.69	0.66	0.73
Cluster Ic	0.15	0.10	0.14	0.12	0.13	0.16	0.13	0.11
Cluster II	0.03	0.02	0.03	0.01	0.03	0.01	0.03	0.01
<i>Desired work time</i>								
Full-time work	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Part-time work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other (e.g. telework)	0.00	0.00						
<i>Work time (last occupation)</i>								
Full-time work	0.64	0.50	0.58	0.48	0.55	0.51	0.50	0.53
Part-time work	0.02	0.12	0.04	0.11	0.05	0.11	0.05	0.08
Not applicable	0.33	0.38	0.38	0.41	0.41	0.38	0.45	0.39
<i>Desired Occupation</i>								
Farming ⁸	0.05	0.07	0.05	0.10	0.06	0.08	0.06	0.06
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing	0.62	0.60	0.61	0.59	0.59	0.60	0.57	0.61
Technical professions	0.05	0.04	0.04	0.03	0.05	0.04	0.04	0.03
Service Professions	0.26	0.27	0.26	0.27	0.28	0.27	0.29	0.28
Other occupations	0.02	0.01	0.02	0.01	0.03	0.01	0.03	0.01
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.8: MEANS OF SELECTED CHARACTERISTICS (MEN IN EAST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	10,312	1,230	7,199	767	5,381	788	3,979	605
Programme duration	270.2		261.4		266.1		274	
<i>Age</i>								
25 to 29 years	0.11	0.07	0.10	0.07	0.09	0.07	0.08	0.05
30 to 34 years	0.13	0.09	0.13	0.10	0.13	0.09	0.14	0.10
35 to 39 years	0.18	0.13	0.18	0.15	0.19	0.16	0.18	0.14
40 to 44 years	0.19	0.18	0.19	0.19	0.20	0.16	0.19	0.19
45 to 49 years	0.21	0.22	0.21	0.20	0.21	0.19	0.22	0.20
50 to 55 years	0.18	0.30	0.19	0.28	0.19	0.32	0.19	0.31
Foreigner	0.02	0.01	0.02	0.01	0.02	0.01	0.03	0.01
Asylum-seeker	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01
No. of placement propositions	4.77	7.39	4.45	8.23	4.40	7.26	4.18	7.68
No. of children	0.52	0.57	0.49	0.52	0.50	0.52	0.49	0.53
Placement restrictions	0.15	0.10	0.15	0.13	0.17	0.12	0.18	0.13
Vocational rehabilitation ²	0.07	0.06	0.07	0.06	0.07	0.07	0.08	0.08
Health restrictions	0.23	0.20	0.24	0.22	0.26	0.22	0.28	0.21
Marriage/ cohabitation	0.52	0.62	0.49	0.61	0.49	0.57	0.47	0.59
Work experience	0.92	0.94	0.91	0.94	0.91	0.93	0.90	0.93
Programme bef. unemp. ³	0.32	0.52	0.30	0.48	0.32	0.51	0.30	0.50
Reception of UI	0.92	0.61	0.93	0.65	0.93	0.66	0.92	0.67
<i>Duration of last employment</i>								
up to 180 days	0.20	0.62	0.19	0.62	0.19	0.63	0.19	0.70
between 180 and 365 days	0.21	0.11	0.23	0.10	0.22	0.06	0.20	0.09
between 366 and 730 days	0.20	0.10	0.17	0.08	0.16	0.10	0.15	0.07
more than 730 days	0.40	0.18	0.41	0.20	0.43	0.21	0.46	0.15
<i>Pension</i>								
No pension	0.99	0.99	0.99	0.99	0.99	1.00	0.99	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Social plan	0.00	0.00						
<i>Schooling⁴</i>								
No school	0.12	0.09	0.13	0.12	0.13	0.11	0.14	0.13
CSE	0.35	0.40	0.36	0.42	0.37	0.42	0.37	0.41
O-levels	0.46	0.45	0.45	0.43	0.43	0.43	0.41	0.40
Adv. technical college entrance ⁵	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
A-levels	0.06	0.06	0.05	0.02	0.05	0.03	0.06	0.05
<i>Assessment of individual's qualification</i>								
Other	0.40	0.33	0.42	0.40	0.44	0.39	0.45	0.42
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.54	0.59	0.52	0.56	0.50	0.56	0.49	0.51
Ass. to technical school ⁶	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.03
Ass. to adv. technical college	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.02
Ass. to university	0.02	0.03	0.02	0.01	0.02	0.02	0.02	0.02
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.20	0.14	0.22	0.20	0.22	0.17	0.22	0.20
Apprenticeship (on-the-job)	0.73	0.78	0.71	0.75	0.70	0.78	0.70	0.73
Apprenticeship (off-the job)	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00
Full-time vocational school	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.00
Technical school	0.02	0.04	0.03	0.02	0.03	0.02	0.03	0.03
Advanced technical college	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
University	0.03	0.03	0.02	0.01	0.02	0.02	0.03	0.02
<i>Month of treatment start</i>								
July 2000	0.18	0.27	0.18	0.22	0.19	0.23	0.16	0.25
September 2000	0.20	0.22	0.21	0.31	0.22	0.26	0.21	0.21
November 2000	0.14	0.12	0.15	0.13	0.13	0.13	0.14	0.16
January 2001	0.12	0.04	0.10	0.02	0.12	0.04	0.11	0.05
March 2001	0.16	0.13	0.14	0.11	0.15	0.13	0.17	0.15
May 2001	0.19	0.22	0.23	0.21	0.19	0.22	0.21	0.19
<i>Regional Context Variables⁷</i>								
Cluster Ia	0.17	0.16	0.16	0.17	0.16	0.19	0.16	0.19
Cluster Ib	0.66	0.71	0.68	0.70	0.68	0.71	0.68	0.69
Cluster Ic	0.13	0.11	0.13	0.12	0.12	0.09	0.12	0.09
Cluster II 0.03	0.02	0.03	0.01	0.04	0.01	0.04	0.03	
<i>Desired work time</i>								
Full-time work	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Part-time work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other (e.g. telework)								

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TABLE C.8: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
<i>Work time (last occupation)</i>								
Full-time work	0.47	0.60	0.42	0.55	0.40	0.51	0.37	0.53
Part-time work	0.05	0.09	0.04	0.08	0.04	0.12	0.04	0.11
Not applicable	0.48	0.31	0.53	0.37	0.56	0.37	0.59	0.37
<i>Desired Occupation</i>								
Farming ⁸	0.07	0.08	0.06	0.08	0.07	0.09	0.07	0.09
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing	0.56	0.62	0.56	0.64	0.53	0.62	0.51	0.59
Technical professions	0.04	0.04	0.04	0.03	0.04	0.03	0.04	0.04
Service Professions	0.30	0.25	0.31	0.25	0.33	0.25	0.35	0.27
Other occupations	0.03	0.01	0.03	0.01	0.03	0.00	0.04	0.00
Other			0.00	0.00				

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.9: MEANS OF SELECTED CHARACTERISTICS (MEN IN EAST GERMANY)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	2,772	832	2,130	569	1,647	551	1,339	364
Programme duration	280.9		282.2		272.8		269.9	
<i>Age</i>								
25 to 29 years	0.07	0.06	0.06	0.05	0.06	0.06	0.06	0.06
30 to 34 years	0.12	0.08	0.13	0.12	0.11	0.07	0.12	0.09
35 to 39 years	0.18	0.14	0.17	0.15	0.18	0.15	0.17	0.12
40 to 44 years	0.20	0.18	0.21	0.18	0.22	0.15	0.19	0.20
45 to 49 years	0.22	0.23	0.23	0.22	0.22	0.23	0.24	0.27
50 to 55 years	0.20	0.31	0.20	0.28	0.21	0.34	0.22	0.27
Foreigner	0.02	0.01	0.02	0.00	0.02	0.01	0.02	0.01
Asylum-seeker	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01
No. of placement propositions	3.84	7.67	3.48	7.99	3.21	7.53	2.98	7.41
No. of children	0.48	0.53	0.48	0.52	0.47	0.52	0.48	0.51
Placement restrictions	0.18	0.13	0.21	0.12	0.21	0.14	0.22	0.16
Vocational rehabilitation ²	0.10	0.07	0.10	0.07	0.10	0.08	0.11	0.08
Health restrictions	0.28	0.23	0.31	0.23	0.30	0.25	0.32	0.24
Marriage/ cohabitation	0.49	0.59	0.48	0.53	0.46	0.53	0.48	0.55
Work experience	0.90	0.94	0.91	0.92	0.90	0.94	0.91	0.92
Programme bef. unemp. ³	0.30	0.56	0.27	0.54	0.27	0.53	0.28	0.48
Reception of UI	0.92	0.63	0.92	0.64	0.91	0.65	0.91	0.65
<i>Duration of last employment</i>								
up to 180 days	0.19	0.72	0.20	0.72	0.19	0.72	0.20	0.71
between 180 and 365 days	0.18	0.06	0.14	0.05	0.18	0.06	0.20	0.05
between 366 and 730 days	0.14	0.07	0.17	0.08	0.17	0.07	0.13	0.07
more than 730 days	0.50	0.14	0.48	0.15	0.46	0.15	0.47	0.16
<i>Pension</i>								
No pension	0.99	0.99	0.99	1.00	0.99	0.99	0.99	0.99
Vocational disability	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01
Permanently unable to work	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01
<i>Social plan</i>								
<i>Schooling⁴</i>								
No school	0.14	0.14	0.15	0.15	0.13	0.15	0.17	0.13
CSE	0.36	0.42	0.37	0.40	0.37	0.41	0.36	0.42
O-levels	0.44	0.39	0.42	0.40	0.42	0.40	0.41	0.42
Adv. technical college entrance ⁵	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
A-levels	0.05	0.04	0.05	0.04	0.06	0.03	0.05	0.04
<i>Assessment of individual's qualification</i>								
Other	0.46	0.46	0.49	0.48	0.48	0.45	0.49	0.46
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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TABLE C.9: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Skilled employee	0.49	0.49	0.45	0.46	0.45	0.50	0.45	0.50
Ass. to technical school ⁶	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Ass. to adv. technical college	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02
Ass. to university	0.02	0.02	0.02	0.02	0.03	0.01	0.02	0.01
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.24	0.20	0.24	0.21	0.21	0.22	0.24	0.22
Apprenticeship (on-the-job)	0.70	0.75	0.70	0.73	0.71	0.72	0.68	0.73
Apprenticeship (off-the job)	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00
Full-time vocational school	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.01
Technical school	0.02	0.02	0.02	0.02	0.03	0.02	0.04	0.02
Advanced technical college	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01
University	0.03	0.02	0.02	0.02	0.03	0.02	0.02	0.01
<i>Month of treatment start</i>								
July 2000	0.16	0.21	0.18	0.20	0.19	0.19	0.19	0.17
September 2000	0.20	0.21	0.19	0.26	0.21	0.21	0.22	0.20
November 2000	0.12	0.13	0.14	0.11	0.15	0.12	0.16	0.16
January 2001	0.14	0.07	0.10	0.06	0.12	0.05	0.10	0.03
March 2001	0.17	0.16	0.16	0.16	0.16	0.17	0.14	0.14
May 2001	0.22	0.22	0.23	0.22	0.18	0.25	0.20	0.30
<i>Regional Context Variables⁴</i>								
Cluster Ia	0.16	0.22	0.16	0.18	0.16	0.18	0.17	0.18
Cluster Ib	0.67	0.66	0.66	0.67	0.70	0.70	0.67	0.68
Cluster Ic	0.13	0.10	0.14	0.13	0.11	0.09	0.13	0.12
Cluster II	0.03	0.01	0.04	0.02	0.04	0.03	0.04	0.02
<i>Desired work time</i>								
Full-time work	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Part-time work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other (e.g. telework)	0.00	0.00						
<i>Work time (last occupation)</i>								
Full-time work	0.34	0.58	0.30	0.52	0.30	0.53	0.33	0.52
Part-time work	0.03	0.12	0.02	0.11	0.01	0.14	0.02	0.10
Not applicable	0.64	0.30	0.68	0.37	0.68	0.33	0.65	0.37
<i>Desired Occupation</i>								
Farming ⁸	0.07	0.09	0.07	0.10	0.07	0.12	0.07	0.08
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Manufacturing	0.51	0.57	0.49	0.58	0.49	0.60	0.46	0.64
Technical professions	0.03	0.04	0.04	0.03	0.04	0.03	0.04	0.03
Service Professions	0.36	0.30	0.37	0.29	0.36	0.24	0.39	0.25
Other occupations	0.03	0.01	0.03	0.01	0.04	0.01	0.03	0.00
Other								

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.10: MEANS OF SELECTED CHARACTERISTICS (WOMEN IN EAST GERMANY)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	61,591	952	37,483	693	27,990	728	21,130	848
Programme duration		292		298.8		293.8		293.6
<i>Age</i>								
25 to 29 years	0.12	0.05	0.10	0.06	0.09	0.05	0.08	0.05
30 to 34 years	0.17	0.14	0.17	0.12	0.16	0.15	0.16	0.13
35 to 39 years	0.20	0.20	0.20	0.18	0.20	0.19	0.20	0.19
40 to 44 years	0.19	0.17	0.18	0.17	0.19	0.16	0.20	0.18
45 to 49 years	0.17	0.20	0.18	0.22	0.19	0.21	0.19	0.19
50 to 55 years	0.15	0.24	0.16	0.26	0.17	0.24	0.17	0.26

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TABLE C.10: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Foreigner	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00
Asylum-seeker	0.03	0.01	0.03	0.01	0.02	0.00	0.02	0.01
No. of placement propositions	3.79	6.77	4.00	6.98	4.09	6.82	4.02	7.01
No. of children	0.97	0.97	1.00	0.96	1.01	0.95	1.04	0.99
Placement restrictions	0.08	0.09	0.08	0.09	0.08	0.11	0.08	0.10
Vocational rehabilitation ²	0.03	0.04	0.03	0.04	0.03	0.07	0.03	0.04
Health restrictions	0.15	0.16	0.14	0.18	0.15	0.20	0.15	0.18
Marriage/ cohabitation	0.71	0.74	0.72	0.71	0.72	0.73	0.73	0.70
Work experience	0.90	0.91	0.90	0.88	0.90	0.88	0.90	0.91
Programme bef. unemp. ³	0.27	0.63	0.34	0.63	0.37	0.61	0.41	0.64
Reception of UI	0.88	0.60	0.86	0.59	0.85	0.59	0.83	0.52
<i>Duration of last employment</i>								
up to 180 days	0.17	0.38	0.17	0.44	0.18	0.42	0.18	0.50
between 180 and 365 days	0.11	0.15	0.10	0.13	0.12	0.12	0.14	0.10
between 366 and 730 days	0.19	0.12	0.23	0.11	0.22	0.15	0.19	0.11
more than 730 days	0.53	0.36	0.50	0.32	0.49	0.31	0.49	0.28
<i>Pension</i>								
No pension	1.00	1.00	1.00	0.99	1.00	1.00	1.00	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Social plan</i>								
<i>Schooling⁴</i>								
No school	0.04	0.05	0.05	0.05	0.05	0.03	0.05	0.04
CSE	0.21	0.23	0.23	0.25	0.24	0.23	0.25	0.26
O-levels	0.66	0.63	0.65	0.59	0.64	0.62	0.63	0.63
Adv. technical college entrance ⁵	0.02	0.03	0.02	0.02	0.01	0.02	0.01	0.01
A-levels	0.08	0.07	0.06	0.09	0.06	0.09	0.05	0.06
<i>Assessment of individual's qualification</i>								
Other	0.33	0.32	0.35	0.33	0.35	0.28	0.37	0.33
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.58
Skilled employee	0.60	0.57	0.58	0.57	0.59	0.59	0.02	0.04
Ass. to technical school ⁶	0.03	0.05	0.02	0.04	0.03	0.05	0.02	0.02
Ass. to adv. technical college	0.02	0.03	0.02	0.03	0.02	0.04	0.02	0.02
Ass. to university	0.03	0.03	0.03	0.04	0.02	0.04	0.00	0.00
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00		
<i>Professional Training</i>								
Without compl. prof. training	0.12	0.11	0.14	0.14	0.15	0.09	0.15	0.13
Apprenticeship (on-the-job)	0.74	0.71	0.73	0.68	0.73	0.70	0.73	0.71
Apprenticeship (off-the job)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Full-time vocational school	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02
Technical school	0.07	0.11	0.06	0.11	0.06	0.12	0.06	0.09
Advanced technical college	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01
University	0.03	0.04	0.03	0.04	0.03	0.05	0.02	0.03
<i>Month of treatment start</i>								
July 2000	0.18	0.19	0.20	0.19	0.19	0.17	0.20	0.15
September 2000	0.19	0.20	0.24	0.17	0.23	0.20	0.22	0.22
November 2000	0.14	0.13	0.14	0.12	0.17	0.16	0.14	0.17
January 2001	0.12	0.09	0.11	0.07	0.11	0.07	0.11	0.06
March 2001	0.17	0.19	0.14	0.24	0.12	0.20	0.16	0.18
May 2001	0.21	0.18	0.18	0.20	0.18	0.19	0.16	0.21
<i>Regional Context Variables⁷</i>								
Cluster Ia	0.15	0.17	0.16	0.16	0.17	0.16	0.18	0.11
Cluster Ib	0.67	0.72	0.67	0.72	0.67	0.69	0.66	0.75
Cluster Ic	0.15	0.10	0.15	0.11	0.14	0.13	0.14	0.13
Cluster II	0.03	0.01	0.03	0.01	0.03	0.02	0.02	0.01
<i>Desired work time</i>								
Full-time work	0.95	0.98	0.96	0.99	0.96	0.99	0.95	0.98
Part-time work	0.05	0.02	0.04	0.01	0.04	0.01	0.05	0.02
Other (e.g. telework)	0.00	0.00					0.00	0.00
<i>Work time (last occupation)</i>								
Full-time work	0.45	0.39	0.42	0.39	0.41	0.34	0.39	0.35
Part-time work	0.09	0.16	0.11	0.13	0.12	0.13	0.11	0.12
Not applicable	0.46	0.45	0.47	0.48	0.48	0.53	0.50	0.53
<i>Desired Occupation</i>								
Farming ⁸	0.07	0.10	0.07	0.08	0.08	0.10	0.08	0.09
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing	0.17	0.18	0.19	0.17	0.19	0.17	0.20	0.18
Technical professions	0.04	0.05	0.04	0.05	0.04	0.06	0.04	0.05
Service Professions	0.70	0.66	0.68	0.70	0.68	0.67	0.67	0.67

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TABLE C.10: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Other occupations	0.02	0.00	0.01	0.00	0.01	0.01	0.01	0.00
Other	0.00	0.00			0.00	0.00		

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.11: MEANS OF SELECTED CHARACTERISTICS (WOMEN IN EAST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	14,669	1,279	10,563	746	8,728	803	6,929	698
Programme duration	309.2		301.1		307.3		304.1	
<i>Age</i>								
25 to 29 years	0.08	0.05	0.07	0.06	0.06	0.05	0.06	0.05
30 to 34 years	0.15	0.11	0.16	0.12	0.14	0.11	0.14	0.11
35 to 39 years	0.20	0.18	0.19	0.18	0.20	0.17	0.20	0.18
40 to 44 years	0.19	0.17	0.20	0.18	0.20	0.19	0.20	0.19
45 to 49 years	0.20	0.20	0.20	0.21	0.20	0.21	0.21	0.20
50 to 55 years	0.18	0.30	0.19	0.25	0.19	0.27	0.19	0.27
Foreigner	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00
Asylum-seeker	0.02	0.01	0.01	0.00	0.02	0.00	0.02	0.00
No. of placement propositions	3.78	6.63	3.53	6.80	3.45	6.41	3.38	6.40
No. of children	1.05	0.90	1.05	0.95	1.07	0.92	1.10	0.92
Placement restrictions	0.08	0.10	0.08	0.08	0.08	0.08	0.08	0.09
Vocational rehabilitation ²	0.03	0.05	0.03	0.05	0.03	0.04	0.03	0.04
Health restrictions	0.14	0.18	0.15	0.16	0.14	0.18	0.15	0.16
Marriage/ cohabitation	0.73	0.75	0.73	0.75	0.73	0.73	0.72	0.74
Work experience	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Programme bef. unemp. ³	0.40	0.67	0.38	0.63	0.38	0.63	0.37	0.62
Reception of UI	0.90	0.55	0.92	0.57	0.91	0.58	0.91	0.60
<i>Duration of last employment</i>								
up to 180 days	0.15	0.58	0.13	0.54	0.14	0.58	0.14	0.59
between 180 and 365 days	0.22	0.10	0.27	0.10	0.25	0.08	0.24	0.08
between 366 and 730 days	0.16	0.09	0.12	0.10	0.11	0.08	0.11	0.08
more than 730 days	0.47	0.24	0.48	0.25	0.50	0.26	0.52	0.25
<i>Pension</i>								
No pension	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Social plan</i>								
<i>Schooling⁴</i>								
No school	0.06	0.03	0.07	0.06	0.07	0.04	0.07	0.06
CSE	0.27	0.24	0.28	0.25	0.29	0.25	0.31	0.25
O-levels	0.62	0.63	0.61	0.61	0.59	0.64	0.57	0.63
Adv. technical college entrance ⁵	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01
A-levels	0.04	0.08	0.04	0.06	0.04	0.06	0.04	0.05
<i>Assessment of individual's qualification</i>								
Other	0.38	0.29	0.40	0.34	0.41	0.32	0.42	0.31
Unskilled employee	0.56	0.61	0.55	0.57	0.55	0.59	0.53	0.60
Skilled employee	0.02	0.05	0.02	0.05	0.02	0.04	0.02	0.04
Ass. to technical school ⁶	0.01	0.03	0.01	0.02	0.01	0.02	0.01	0.02
Ass. to adv. technical college	0.02	0.03	0.02	0.03	0.02	0.02	0.02	0.03
Ass. to university	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ass. to top-management								
<i>Professional Training</i>								
Without compl. prof. training	0.16	0.11	0.17	0.15	0.18	0.10	0.19	0.11
Apprenticeship (on-the-job)	0.73	0.70	0.74	0.69	0.73	0.75	0.72	0.72
Apprenticeship (off-the job)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Full-time vocational school	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.02

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TABLE C.11: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Technical school	0.05	0.11	0.05	0.09	0.04	0.08	0.05	0.11
Advanced technical college	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01
University	0.02	0.04	0.02	0.03	0.02	0.03	0.02	0.02
<i>Month of treatment start</i>								
July 2000	0.21	0.20	0.19	0.18	0.19	0.21	0.15	0.20
September 2000	0.24	0.19	0.26	0.27	0.24	0.22	0.20	0.24
November 2000	0.14	0.15	0.16	0.13	0.15	0.15	0.15	0.14
January 2001	0.10	0.06	0.10	0.07	0.12	0.07	0.11	0.06
March 2001	0.13	0.19	0.13	0.19	0.14	0.18	0.17	0.20
May 2001	0.18	0.21	0.17	0.16	0.17	0.18	0.21	0.16
<i>Regional Context Variables⁷</i>								
Cluster Ia	0.18	0.14	0.15	0.17	0.16	0.20	0.16	0.17
Cluster Ib	0.66	0.72	0.67	0.69	0.68	0.67	0.66	0.68
Cluster Ic	0.14	0.12	0.15	0.13	0.14	0.12	0.15	0.14
Cluster II	0.02	0.02	0.03	0.01	0.02	0.01	0.02	0.01
<i>Desired work time</i>								
Full-time work	0.95	0.98	0.95	0.99	0.95	0.98	0.95	0.98
Part-time work	0.05	0.02	0.05	0.01	0.05	0.02	0.05	0.02
Other (e.g. telework)								
<i>Work time (last occupation)</i>								
Full-time work	0.37	0.44	0.35	0.37	0.33	0.37	0.30	0.36
Part-time work	0.11	0.16	0.11	0.14	0.10	0.18	0.09	0.16
Not applicable	0.52	0.40	0.54	0.49	0.57	0.45	0.61	0.48
<i>Desired Occupation</i>								
Farming ⁸	0.08	0.08	0.07	0.10	0.07	0.10	0.07	0.10
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing	0.21	0.17	0.23	0.19	0.24	0.20	0.24	0.19
Technical professions	0.04	0.05	0.03	0.04	0.03	0.05	0.03	0.05
Service Professions	0.66	0.70	0.66	0.67	0.65	0.64	0.65	0.65
Other occupations	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01
Other	0.00	0.00						

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

Tab. C.12: MEANS OF SELECTED CHARACTERISTICS (WOMEN IN EAST GERMANY)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
Number of observations	5,208	1,139	3,814	783	3,238	723	2,786	545
Programme duration	313.7		305.8		307.2		295.5	
<i>Age</i>								
25 to 29 years	0.05	0.04	0.05	0.05	0.05	0.05	0.04	0.03
30 to 34 years	0.14	0.11	0.13	0.11	0.13	0.09	0.13	0.11
35 to 39 years	0.19	0.17	0.19	0.20	0.19	0.18	0.18	0.18
40 to 44 years	0.19	0.20	0.20	0.17	0.21	0.19	0.21	0.17
45 to 49 years	0.20	0.21	0.22	0.22	0.21	0.23	0.22	0.23
50 to 55 years	0.21	0.27	0.21	0.25	0.20	0.26	0.22	0.29
Foreigner	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00
Asylum-seeker	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01
No. of placement propositions	3.07	6.40	2.88	6.58	2.52	6.28	2.37	6.50
No. of children	1.06	1.00	1.09	0.99	1.13	0.98	1.06	0.96
Placement restrictions	0.10	0.07	0.10	0.07	0.09	0.07	0.10	0.08
Vocational rehabilitation ²	0.04	0.03	0.04	0.03	0.03	0.04	0.04	0.04
Health restrictions	0.16	0.15	0.17	0.14	0.15	0.14	0.17	0.17
Marriage/ cohabitation	0.74	0.78	0.74	0.73	0.75	0.76	0.76	0.73
Work experience	0.91	0.92	0.90	0.90	0.91	0.91	0.91	0.90
Programme bef. unemp. ³	0.31	0.68	0.29	0.63	0.29	0.61	0.31	0.62
Reception of UI	0.90	0.59	0.89	0.58	0.88	0.58	0.89	0.62

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TABLE C.12: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.
<i>Duration of last employment</i>								
up to 180 days	0.14	0.70	0.16	0.68	0.16	0.66	0.16	0.65
between 180 and 365 days	0.19	0.06	0.16	0.05	0.17	0.04	0.22	0.05
between 366 and 730 days	0.12	0.05	0.11	0.06	0.10	0.07	0.10	0.09
more than 730 days	0.56	0.19	0.57	0.21	0.56	0.24	0.53	0.21
<i>Pension</i>								
No pension	0.99	1.00	0.99	1.00	1.00	1.00	1.00	1.00
Vocational disability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Permanently unable to work	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Social plan					0.00	0.00		
<i>Schooling</i> ⁴								
No school	0.08	0.04	0.08	0.07	0.07	0.06	0.09	0.07
CSE	0.30	0.30	0.31	0.29	0.31	0.30	0.33	0.31
O-levels	0.58	0.59	0.57	0.59	0.57	0.59	0.53	0.56
Adv. technical college entrance ⁵	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.02
A-levels	0.04	0.05	0.04	0.04	0.04	0.03	0.04	0.04
<i>Assessment of individual's qualification</i>								
Other	0.43	0.35	0.44	0.37	0.43	0.38	0.44	0.41
Unskilled employee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skilled employee	0.53	0.58	0.52	0.56	0.52	0.56	0.52	0.52
Ass. to technical school ⁶	0.02	0.03	0.02	0.04	0.02	0.03	0.02	0.03
Ass. to adv. technical college	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.02
Ass. to university	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.03
Ass. to top-management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Professional Training</i>								
Without compl. prof. training	0.19	0.13	0.20	0.15	0.20	0.14	0.21	0.17
Apprenticeship (on-the-job)	0.73	0.74	0.72	0.72	0.71	0.77	0.71	0.73
Apprenticeship (off-the job)	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.01
Full-time vocational school	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01
Technical school	0.05	0.09	0.05	0.08	0.05	0.05	0.04	0.06
Advanced technical college	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01
University	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02
<i>Month of treatment start</i>								
July 2000	0.15	0.22	0.18	0.21	0.22	0.15	0.20	0.15
September 2000	0.18	0.21	0.19	0.23	0.22	0.28	0.24	0.23
November 2000	0.13	0.13	0.14	0.14	0.14	0.15	0.16	0.17
January 2001	0.13	0.07	0.10	0.05	0.10	0.06	0.10	0.06
March 2001	0.18	0.15	0.15	0.18	0.14	0.17	0.13	0.17
May 2001	0.22	0.22	0.23	0.19	0.18	0.19	0.17	0.22
<i>Regional Context Variables</i> ⁷								
Cluster Ia	0.16	0.25	0.17	0.22	0.17	0.23	0.17	0.22
Cluster Ib	0.67	0.61	0.66	0.62	0.65	0.66	0.67	0.62
Cluster Ic	0.14	0.12	0.15	0.14	0.15	0.10	0.13	0.14
Cluster II	0.03	0.02	0.02	0.01	0.03	0.02	0.03	0.01
<i>Desired work time</i>								
Full-time work	0.94	0.99	0.94	0.98	0.94	0.98	0.94	0.98
Part-time work	0.06	0.01	0.06	0.02	0.06	0.02	0.06	0.02
Other (e.g. telework)								
<i>Work time (last occupation)</i>								
Full-time work	0.28	0.45	0.22	0.41	0.25	0.43	0.26	0.34
Part-time work	0.07	0.23	0.05	0.21	0.05	0.19	0.05	0.20
Not applicable	0.65	0.32	0.72	0.38	0.70	0.38	0.68	0.46
<i>Desired Occupation</i>								
Farming ⁸	0.07	0.10	0.06	0.12	0.06	0.12	0.06	0.10
Mining, mineral extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing	0.23	0.22	0.23	0.20	0.23	0.21	0.25	0.26
Technical professions	0.03	0.04	0.02	0.03	0.03	0.03	0.02	0.04
Service Professions	0.66	0.64	0.67	0.65	0.66	0.64	0.66	0.60
Other occupations	0.01	0.00	0.01	0.00	0.02	0.00	0.01	0.00
Other					0.00	0.00		

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TABLE C.12: (CONTINUED)

	$u = 9$		$u = 10$		$u = 11$		$u = 12$	
	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.	Non-Part.	Part.

n.a. = not available

¹ Unemployment duration until treatment start.

² Attendant for vocational rehabilitation.

³ Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

⁴ Schooling: CSE = Certificate of Secondary Education.

⁵ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁶ Ass. = assimilable

⁷ Detailed information on regional context variables in Appendix B and table B.1.

⁸ Farming comprises plant cultivation, breeding and fishery.

D Propensity Score Estimation

Tab. D.1: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER $u = 1$ TO $u = 4$ (MEN IN WEST GERMANY)

	$u = 1$		$u = 2$		$u = 3$		$u = 4$	
	dF/dx	Std. Err.	dF/dx	Std. Err.	dF/dx	Std. Err.	dF/dx	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	0.001	0.000	0.000	0.001	0.000	0.001	-0.003	0.002
35 to 39 years	0.002	0.001	0.000	0.001	0.001	0.002	-0.004	0.002
40 to 44 years	0.002	0.001	0.001	0.001	-0.001	0.001	0.001	0.003
45 to 49 years	0.002	0.001	0.001	0.001	0.000	0.002	0.001	0.003
50 to 55 years	0.003	0.001	0.002	0.001	0.001	0.002	0.002	0.003
Foreigner	-0.001	0.000	-0.002	0.000	-0.002	0.001	-0.004	0.002
Asylum-seeker	0.000	0.000	-0.003	0.001	-0.003	0.001	-0.004	0.002
No. of placement propositions	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
No. of children	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.001
Placement restrictions	<i>0.001</i>	0.001	0.001	0.001	0.001	0.002	0.004	0.003
Vocational rehabilitation ¹	0.000	0.000	0.000	0.001	0.000	0.002	0.003	0.003
Health restrictions	0.000	0.000	0.001	0.001	0.002	0.001	-0.003	0.002
Marriage/ cohabitation	-0.001	0.000	0.001	0.001	-0.002	0.001	-0.002	0.002
Work experience	0.000	0.000	0.000	0.001	0.000	0.002	0.000	0.002
Programme bef. unemp. ²	0.021	0.002	0.030	0.003	0.032	0.004	0.047	0.005
Reception of UI	0.000	0.000	-0.004	0.001	-0.009	0.002	-0.024	0.004
<i>Duration of last employment</i>								
up to 180 days	0.001	0.000	0.003	0.001	0.005	0.001	0.013	0.002
between 180 and 365 days	0.000	0.000	-0.001	0.001	-0.002	0.001	-0.004	0.002
between 366 and 730 days	0.000	0.000	-0.001	0.001	-0.003	0.001	-0.001	0.002
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Vocational disability	-0.001	0.002	-	-	-0.002	0.006	-0.005	0.007
Permanently unable to work	0.001	0.002	-	-	0.003	0.011	-	-
Social plan	-	-	-	-	-	-	-	-
<i>Schooling³</i>								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	-0.001	0.000	0.000	0.001	-0.001	0.001	-0.004	0.002
O-levels	-0.001	0.000	0.000	0.001	-0.003	0.001	-0.008	0.002
Adv. technical college entrance ⁴	-0.001	0.000	0.001	0.002	-0.001	0.002	-0.008	0.002
A-levels	-0.001	0.000	0.001	0.001	0.001	0.002	-0.006	0.002
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	0.000	0.000	-0.002	0.001	-0.001	0.001	0.002	0.002
Apprenticeship (off-the job)	0.001	0.001	0.000	0.002	0.001	0.004	0.020	0.011
Full-time vocational school	0.000	0.001	0.000	0.002	-0.001	0.003	0.002	0.007
Technical school	-0.001	0.001	-0.001	0.001	-0.001	0.003	0.002	0.006
Advanced technical college	-0.001	0.001	-0.002	0.001	-0.002	0.003	0.015	0.013
University	-0.002	0.000	-0.001	0.002	0.000	0.004	0.020	0.013
<i>Assessment of individual's qualification</i>								

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TABLE D.1: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	–	–	–	–	–	–	–	–
Skilled employee	-0.001	0.000	0.000	0.001	-0.001	0.001	-0.001	0.002
Ass. to technical school ⁵	-0.001	0.001	0.003	0.002	0.009	0.005	0.002	0.005
Ass. to adv. technical college	0.003	0.002	0.004	0.003	0.011	0.007	0.002	0.006
Ass. to university	<i>0.005</i>	0.003	0.001	0.002	0.001	0.004	0.000	0.006
Ass. to top-management	–	–	–	–	–	–	–	–
<i>Month of treatment start</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	-0.001	0.000	0.001	0.001	0.002	0.002	-0.001	0.002
November 2000	0.000	0.000	0.002	0.001	0.010	0.003	0.000	0.002
January 2001	0.000	0.000	0.005	0.001	0.012	0.003	0.010	0.004
March 2001	-0.001	0.000	0.003	0.001	0.010	0.003	0.008	0.003
May 2001	0.000	0.000	0.000	0.001	0.005	0.002	0.013	0.003
<i>Regional Context Variables</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ia	–	–	–	–	–	–	–	–
Cluster Ib	–	–	–	–	–	–	–	–
Cluster Ic	–	–	–	–	–	–	–	–
Cluster II	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster III	-0.001	0.000	-0.001	0.000	0.000	0.001	-0.004	0.001
Cluster IV	-0.001	0.000	-0.002	0.001	-0.001	0.001	-0.003	0.002
Cluster V	-0.001	0.000	0.000	0.001	0.001	0.001	0.000	0.002
<i>Work time (last occupation)</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	0.003	0.003	-0.003	0.001	–	–	0.008	0.011
Not applicable	0.000	0.000	0.000	0.000	-0.002	0.001	-0.004	0.001
<i>Desired work time</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	-0.002	0.000	-0.002	0.002	–	–	-0.005	0.005
Other (e.g. telework)	–	–	–	–	–	–	–	–
<i>Desired Occupation</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	-0.002	0.000	-0.002	0.002	–	–	–	–
Manufacturing	-0.002	0.000	-0.002	0.001	-0.004	0.001	0.000	0.003
Technical professions	-0.002	0.000	-0.003	0.001	-0.006	0.001	-0.003	0.003
Service Professions	-0.003	0.000	-0.004	0.001	-0.006	0.001	-0.002	0.003
Other occupations	-0.002	0.000	-0.003	0.000	-0.006	0.001	-0.009	0.002
Other	–	–	–	–	–	–	–	–
<i>N</i>	152,699		67,012		35,742		23,144	
<i>Log-Likelihood</i>	-3,697.96		-2,456.47		-2,033.01		-2,010.49	
<i>R</i> ²	0.134		0.144		0.138		0.164	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.2: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 5 TO *u* = 8 (MEN IN WEST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	-0.002	0.004	0.001	0.004	-0.009	0.003	0.006	0.008
35 to 39 years	0.002	0.004	-0.002	0.003	-0.001	0.004	0.007	0.007
40 to 44 years	-0.003	0.004	-0.006	0.003	-0.008	0.003	0.008	0.008
45 to 49 years	-0.002	0.004	-0.005	0.003	-0.005	0.004	0.000	0.006
50 to 55 years	-0.003	0.004	-0.004	0.003	-0.009	0.004	0.000	0.006
Foreigner	-0.014	0.002	-0.009	0.002	-0.008	0.003	-0.009	0.003
Asylum-seeker	-0.006	0.004	-0.002	0.004	-0.008	0.004	0.005	0.007

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TABLE D.2: (CONTINUED)

	$u = 5$		$u = 6$		$u = 7$		$u = 8$	
	dF/dx	Std. Err.	dF/dx	Std. Err.	dF/dx	Std. Err.	dF/dx	Std. Err.
No. of placement propositions	0.001	0.000	0.001	0.000	0.001	0.000	0.001	0.000
No. of children	0.004	0.001	-0.001	0.001	-0.001	0.001	0.002	0.001
Placement restrictions	0.003	0.004	-0.004	0.003	-0.006	0.004	-0.007	0.003
Vocational rehabilitation ¹	0.006	0.005	0.009	0.006	0.012	0.008	0.014	0.009
Health restrictions	-0.001	0.003	0.000	0.003	0.002	0.004	0.010	0.005
Marriage/ cohabitation	0.001	0.003	0.003	0.002	0.005	0.003	0.000	0.003
Work experience	0.003	0.004	0.000	0.004	0.006	0.004	0.000	0.004
Programme bef. unemp. ²	0.069	0.008	0.041	0.007	0.039	0.008	0.034	0.008
Reception of UI	-0.052	0.007	-0.013	0.005	-0.019	0.006	-0.023	0.007
<i>Duration of last employment</i>								
up to 180 days	0.018	0.003	0.021	0.004	0.027	0.005	0.026	0.005
between 180 and 365 days	-0.012	0.002	-0.009	0.002	-0.006	0.003	-0.006	0.003
between 366 and 730 days	-0.001	0.003	-0.003	0.003	-0.002	0.004	0.008	0.005
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Vocational disability	-	-	-	-	-	-	-	-
Permanently unable to work	0.023	0.039	-	-	0.033	0.043	0.015	0.036
Social plan	-	-	-	-	-	-	-	-
<i>Schooling³</i>								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	-0.004	0.003	0.003	0.002	-0.007	0.003	0.002	0.003
O-levels	-0.003	0.004	0.000	0.004	-0.007	0.004	-0.003	0.005
Adv. technical college entrance ⁴	0.006	0.007	0.008	0.009	-0.011	0.004	0.002	0.009
A-levels	0.004	0.007	-0.003	0.005	-0.002	0.006	0.011	0.011
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	0.004	0.003	-0.008	0.002	0.005	0.003	-0.002	0.003
Apprenticeship (off-the job)	0.016	0.014	0.014	0.015	0.073	0.041	0.022	0.033
Full-time vocational school	0.006	0.011	-0.007	0.004	0.015	0.018	-0.002	0.010
Technical school	0.000	0.007	0.012	0.010	0.003	0.012	-0.002	0.009
Advanced technical college	-0.005	0.008	0.003	0.012	0.030	0.030	0.005	0.015
University	-0.001	0.008	0.005	0.012	-0.006	0.008	-0.005	0.008
<i>Assessment of individual's qualification</i>								
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	-	-	-	-	-	-	-	-
Skilled employee	-0.004	0.003	-0.001	0.003	-0.003	0.003	0.001	0.004
Ass. to technical school ⁵	0.009	0.009	0.009	0.009	-0.013	0.004	0.004	0.013
Ass. to adv. technical college	0.031	0.017	-0.001	0.008	0.005	0.014	0.032	0.027
Ass. to university	0.008	0.011	0.005	0.011	0.006	0.015	0.012	0.017
Ass. to top-management	-	-	-	-	-	-	-	-
<i>Month of treatment start</i>								
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	-0.008	0.003	0.008	0.004	-0.001	0.003	-0.006	0.003
November 2000	0.002	0.004	0.001	0.004	0.003	0.004	-0.001	0.004
January 2001	-0.001	0.004	0.007	0.005	0.003	0.005	-0.003	0.004
March 2001	0.011	0.005	0.003	0.004	0.001	0.004	0.006	0.005
May 2001	0.009	0.004	0.007	0.004	-0.004	0.003	-0.001	0.004
<i>Regional Context Variables</i>								
Cluster Ia	-	-	-	-	-	-	-	-
Cluster Ib	-	-	-	-	-	-	-	-
Cluster Ic	-	-	-	-	-	-	-	-
Cluster II	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster III	-0.002	0.002	0.001	0.002	0.003	0.003	-0.003	0.003
Cluster IV	-0.008	0.003	0.000	0.004	0.002	0.005	-0.013	0.002
Cluster V	0.002	0.003	0.005	0.004	0.002	0.004	-0.003	0.004
<i>Work time (last occupation)</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	0.003	0.013	0.015	0.020	0.007	0.019	0.012	0.021
Not applicable	-0.018	0.003	-0.009	0.002	-0.008	0.003	-0.009	0.003
<i>Desired work time</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	-0.010	0.008	0.004	0.012	-0.006	0.011	-0.009	0.008
Other (e.g. telework)	-	-	-	-	-	-	-	-
<i>Desired Occupation</i>								
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	-0.017	0.005	-	-	-	-	-0.008	0.007
Manufacturing	-0.012	0.004	-0.010	0.003	-0.014	0.004	-0.012	0.005
Technical professions	-0.018	0.002	-0.010	0.002	-0.014	0.002	-0.014	0.002

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TABLE D.2: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Service Professions	-0.017	0.004	-0.013	0.003	-0.016	0.004	-0.014	0.004
Other occupations	-0.021	0.001	-0.013	0.001	-0.016	0.002	–	–
Other	–	–	–	–	–	–	–	–
<i>N</i>	15,822		11,479		9,437		7,428	
<i>Log-Likelihood</i>	-2,054.80		-1,108.76		-1,012.22		-777.01	
<i>R</i> ²	0.188		0.176		0.160		0.175	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.3: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 9 TO *u* = 12 (MEN IN WEST GERMANY)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	-0.011	0.005	-0.010	0.005	0.000	0.007	-0.008	0.004
35 to 39 years	-0.013	0.005	-0.013	0.004	-0.005	0.006	-0.013	0.003
40 to 44 years	-0.014	0.005	-0.016	0.004	-0.008	0.005	-0.010	0.004
45 to 49 years	-0.018	0.004	-0.017	0.004	-0.011	0.005	-0.015	0.004
50 to 55 years	-0.019	0.005	-0.018	0.005	-0.011	0.006	-0.024	0.005
Foreigner	-0.012	0.004	-0.010	0.004	-0.003	0.004	-0.007	0.003
Asylum-seeker	-0.004	0.007	0.014	0.012	0.001	0.008	0.000	0.008
No. of placement propositions	0.001	0.000	0.002	0.000	0.001	0.000	0.001	0.000
No. of children	0.004	0.002	0.003	0.002	0.000	0.002	0.002	0.002
Placement restrictions	0.001	0.007	-0.003	0.006	0.009	0.009	0.011	0.009
Vocational rehabilitation ¹	0.010	0.010	-0.006	0.006	0.004	0.009	0.012	0.011
Health restrictions	-0.001	0.006	0.009	0.006	-0.004	0.006	-0.006	0.006
Marriage/ cohabitation	-0.002	0.004	-0.001	0.004	0.000	0.004	0.002	0.004
Work experience	0.006	0.005	-0.001	0.007	0.006	0.005	0.001	0.005
Programme bef. unemp. ²	0.066	0.011	0.025	0.009	0.033	0.010	0.061	0.015
Reception of UI	-0.029	0.009	-0.018	0.009	-0.018	0.009	-0.016	0.011
<i>Duration of last employment</i>								
up to 180 days	0.040	0.007	0.047	0.008	0.048	0.009	0.013	0.005
between 180 and 365 days	-0.004	0.005	-0.005	0.005	0.006	0.008	-0.011	0.003
between 366 and 730 days	-0.013	0.004	-0.004	0.006	0.001	0.007	-0.011	0.003
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Vocational disability	–	–	–	–	0.008	0.029	–	–
Permanently unable to work	-0.003	0.028	–	–	–	–	–	–
Social plan	–	–	–	–	–	–	–	–
<i>Schooling</i> ³								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	0.006	0.004	0.002	0.004	0.003	0.004	-0.001	0.004
O-levels	-0.001	0.007	-0.007	0.006	0.004	0.009	0.012	0.011
Adv. technical college entrance ⁴	0.022	0.020	-0.017	0.004	-0.009	0.008	0.019	0.025
A-levels	-0.006	0.009	-0.006	0.009	-0.011	0.006	0.009	0.014
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	-0.009	0.004	-0.001	0.005	-0.002	0.005	-0.004	0.004
Apprenticeship (off-the job)	0.021	0.032	0.060	0.055	0.029	0.041	0.030	0.071
Full-time vocational school	0.002	0.016	-0.016	0.004	–	–	-0.003	0.011
Technical school	0.004	0.014	0.002	0.019	0.021	0.028	-0.002	0.011
Advanced technical college	-0.009	0.012	0.110	0.148	0.026	0.057	0.014	0.033
University	0.050	0.044	0.000	0.027	0.037	0.056	-0.003	0.019
<i>Assessment of individual's qualification</i>								

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TABLE D.3: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	–	–	–	–	–	–	–	–
Skilled employee	0.004	0.005	-0.008	0.004	-0.008	0.004	-0.006	0.004
Ass. to technical school ⁵	0.067	0.034	-0.006	0.014	-0.006	0.010	0.010	0.020
Ass. to adv. technical college	0.011	0.023	-0.006	0.019	-0.010	0.009	-0.005	0.009
Ass. to university	-0.006	0.012	-0.001	0.027	0.029	0.042	-0.008	0.011
Ass. to top-management	–	–	–	–	–	–	–	–
<i>Month of treatment start</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
July 2000	–	–	–	–	–	–	–	–
September 2000	-0.005	0.004	-0.005	0.005	0.001	0.006	0.000	0.005
November 2000	-0.011	0.004	-0.003	0.005	0.016	0.010	0.013	0.009
January 2001	-0.008	0.004	-0.007	0.005	0.017	0.010	0.015	0.011
March 2001	-0.005	0.005	0.000	0.005	0.018	0.010	0.006	0.008
May 2001	-0.009	0.004	-0.014	0.004	0.006	0.007	0.012	0.008
<i>Regional Context Variables</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ia	–	–	–	–	–	–	–	–
Cluster Ib	–	–	–	–	–	–	–	–
Cluster Ic	–	–	–	–	–	–	–	–
Cluster II	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster III	-0.003	0.004	-0.004	0.004	-0.004	0.004	-0.005	0.003
Cluster IV	-0.012	0.004	-0.005	0.005	-0.008	0.004	-0.004	0.005
Cluster V	0.000	0.005	-0.006	0.005	-0.007	0.004	-0.008	0.003
<i>Work time (last occupation)</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	–	–	–	–	–	–	–	–
Part-time work	-0.001	0.021	0.026	0.052	0.000	0.022	0.087	0.107
Not applicable	-0.030	0.005	-0.029	0.006	-0.020	0.005	-0.015	0.005
<i>Desired work time</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	–	–	–	–	–	–	–	–
part-time work	-0.004	0.020	0.003	0.022	–	–	–	–
Other (e.g. telework)	–	–	–	–	–	–	–	–
<i>Desired Occupation</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Farming ⁶	–	–	–	–	–	–	–	–
Mining, mineral extraction	-0.016	0.006	–	–	–	–	–	–
Manufacturing	-0.031	0.006	-0.006	0.006	-0.009	0.006	0.003	0.006
Technical professions	-0.023	0.002	–	–	-0.013	0.004	-0.006	0.007
Service Professions	-0.033	0.006	-0.014	0.007	-0.014	0.006	-0.003	0.006
Other occupations	–	–	-0.017	0.003	–	–	–	–
Other	–	–	–	–	–	–	–	–
<i>N</i>	6,036		4,666		3,904		3,274	
<i>Log-Likelihood</i>	-850.01		-609.05		-464.01		-362.83	
<i>R</i> ²	0.246		0.233		0.247		0.295	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.4: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 1 TO *u* = 4 (WOMEN IN WEST GERMANY)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
25 to 29 years	–	–	–	–	–	–	–	–
30 to 34 years	0.000	0.000	0.001	0.001	0.002	0.001	-0.001	0.002
35 to 39 years	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.002
40 to 44 years	0.000	0.000	0.000	0.001	0.003	0.002	0.000	0.002
45 to 49 years	0.000	0.000	0.001	0.001	0.002	0.002	0.000	0.002
50 to 55 years	0.001	0.001	0.002	0.001	0.002	0.002	-0.001	0.002
Foreigner	-0.001	0.000	0.000	0.001	-0.002	0.001	-0.002	0.001
Asylum-seeker	0.000	0.000	-0.002	0.000	-0.001	0.001	-0.004	0.001

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TABLE D.4: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
No. of placement propositions	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
No. of children	0.000	0.000	0.001	0.000	0.001	0.000	0.001	0.001
Placement restrictions	0.001	0.001	0.000	0.001	0.000	0.001	0.000	0.002
Vocational rehabilitation ¹	0.000	0.000	0.002	0.001	0.007	0.003	0.004	0.004
Health restrictions	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.002
Marriage/ cohabitation	0.000	0.000	-0.001	0.000	-0.001	0.001	-0.005	0.001
Work experience	0.000	0.000	0.000	0.001	0.002	0.001	0.003	0.001
Programme bef. unemp. ²	0.021	0.003	0.021	0.004	0.028	0.005	0.054	0.008
Reception of UI	0.000	0.000	0.000	0.000	-0.001	0.001	-0.008	0.002
<i>Duration of last employment</i>								
up to 180 days	0.000	0.000	0.002	0.001	0.003	0.001	0.005	0.002
between 180 and 365 days	-0.001	0.000	0.001	0.001	-0.001	0.001	-0.004	0.001
between 366 and 730 days	0.000	0.000	0.000	0.000	-0.001	0.001	-0.003	0.001
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	-	-	-	-	-	-	-	-
Vocational disability	-	-	-	-	-	-	-	-
Permanently unable to work	-	-	-	-	-	-	-	-
Social plan	-	-	-	-	-	-	-	-
<i>Schooling³</i>								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	0.000	0.000	0.000	0.001	-0.001	0.001	0.000	0.002
O-levels	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.002
Adv. technical college entrance ⁴	0.001	0.001	0.001	0.001	0.001	0.002	0.000	0.003
A-levels	0.000	0.001	0.001	0.001	0.003	0.002	0.000	0.003
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	0.000	0.000	0.000	0.000	0.001	0.001	-0.001	0.001
Apprenticeship (off-the job)	0.002	0.001	0.000	0.001	0.004	0.004	-0.003	0.003
Full-time vocational school	-0.001	0.000	-0.001	0.001	0.003	0.002	0.002	0.004
Technical school	0.000	0.000	0.002	0.001	-0.001	0.001	0.004	0.003
Advanced technical college	0.001	0.001	0.002	0.002	0.001	0.002	0.002	0.005
University	0.000	0.001	-0.001	0.001	-0.001	0.001	-0.002	0.003
<i>Assessment of individual's qualification</i>								
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	-	-	-	-	-	-	-	-
Skilled employee	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.001
Ass. to technical school ⁵	0.002	0.002	0.000	0.002	-0.001	0.002	0.030	0.013
Ass. to adv. technical college	0.002	0.001	0.007	0.004	0.013	0.006	0.012	0.008
Ass. to university	0.004	0.002	0.006	0.003	0.004	0.003	0.010	0.007
Ass. to top-management	-	-	-	-	-	-	-	-
<i>Month of treatment start</i>								
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	0.000	0.000	0.001	0.001	0.001	0.001	0.004	0.002
November 2000	0.000	0.000	0.002	0.001	0.005	0.002	0.006	0.003
January 2001	0.001	0.000	0.001	0.001	0.008	0.002	0.006	0.003
March 2001	0.000	0.000	0.001	0.001	0.003	0.002	0.010	0.003
May 2001	0.000	0.000	0.000	0.001	0.001	0.001	0.005	0.002
<i>Regional Context Variables</i>								
Cluster Ia	-	-	-	-	-	-	-	-
Cluster Ib	-	-	-	-	-	-	-	-
Cluster Ic	-	-	-	-	-	-	-	-
Cluster II	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster III	-0.001	0.000	0.000	0.000	0.000	0.001	-0.003	0.001
Cluster IV	-0.001	0.000	-0.001	0.000	-0.002	0.001	-0.002	0.002
Cluster V	-0.001	0.000	-0.001	0.000	-0.002	0.001	-0.001	0.001
<i>Work time (last occupation)</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	0.000	0.000	0.001	0.001	0.001	0.001	-0.001	0.002
Not applicable	0.000	0.000	0.000	0.000	0.000	0.001	-0.003	0.001
<i>Desired work time</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	0.000	0.000	-0.001	0.000	-0.003	0.001	-0.002	0.001
Other (e.g. telework)	-	-	-	-	-	-	-	-
<i>Desired Occupation</i>								
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	-	-	-	-	-	-	-	-
Manufacturing	-0.001	0.000	-0.001	0.001	-0.001	0.001	-0.005	0.002
Technical professions	-0.001	0.000	-0.002	0.000	-0.003	0.000	-0.007	0.001

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TABLE D.4: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Service Professions	-0.001	0.001	-0.002	0.001	-0.004	0.002	-0.005	0.004
Other occupations	-0.001	0.000	-0.002	0.000	-0.003	0.000	-0.007	0.001
Other	–	–	–	–	–	–	–	–
<i>N</i>	120,045		57,926		33,145		22,270	
<i>Log-Likelihood</i>	-1,811.82		-1,312.59		-1,225.41		-1,372.66	
<i>R</i> ²	0.141		0.157		0.188		0.195	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.5: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 5 TO *u* = 8 (WOMEN IN WEST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	0.001	0.003	0.002	0.004	-0.002	0.003	0.001	0.004
35 to 39 years	0.004	0.004	0.007	0.005	-0.003	0.002	0.000	0.004
40 to 44 years	0.006	0.004	0.009	0.006	-0.003	0.002	0.002	0.004
45 to 49 years	0.005	0.004	0.002	0.004	-0.004	0.002	-0.001	0.004
50 to 55 years	-0.002	0.003	-0.001	0.003	-0.008	0.002	-0.002	0.004
Foreigner	-0.003	0.002	-0.002	0.002	-0.005	0.002	-0.005	0.002
Asylum-seeker	-0.010	0.001	-0.006	0.001	-0.003	0.002	-0.005	0.002
No. of placement propositions	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.000
No. of children	-0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001
Placement restrictions	0.003	0.004	-0.002	0.002	-0.001	0.003	-0.005	0.002
Vocational rehabilitation ¹	0.006	0.006	0.005	0.006	<i>0.042</i>	0.020	0.025	0.016
Health restrictions	0.000	0.003	0.001	0.003	-0.001	0.003	0.003	0.004
Marriage/ cohabitation	-0.002	0.002	0.000	0.001	0.000	0.002	0.000	0.002
Work experience	0.002	0.002	-0.001	0.003	0.001	0.003	0.002	0.003
Programme bef. unemp. ²	0.073	0.010	0.034	0.009	0.027	0.008	0.038	0.011
Reception of UI	-0.014	0.003	-0.001	0.002	0.001	0.002	0.001	0.002
<i>Duration of last employment</i>								
up to 180 days	0.011	0.003	0.008	0.003	0.014	0.003	0.012	0.004
between 180 and 365 days	0.003	0.003	-0.001	0.002	-0.003	0.002	-0.002	0.003
between 366 and 730 days	0.002	0.003	0.006	0.003	0.002	0.003	-0.001	0.003
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	–	–	–	–	–	–	–	–
Vocational disability	–	–	–	–	–	–	–	–
Permanently unable to work	–	–	–	–	–	–	–	–
Social plan	–	–	–	–	–	–	–	–
<i>Schooling</i> ³								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	-0.001	0.003	0.001	0.003	0.002	0.003	0.002	0.004
O-levels	0.000	0.003	0.003	0.004	0.000	0.004	0.009	0.007
Adv. technical college entrance ⁴	0.010	0.007	0.004	0.006	-0.001	0.004	0.037	0.022
A-levels	0.012	0.007	0.005	0.006	0.003	0.006	0.028	0.016
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	0.000	0.002	-0.001	0.002	0.000	0.002	-0.004	0.002
Apprenticeship (off-the-job)	0.015	0.011	-0.002	0.005	-0.005	0.004	0.007	0.012
Full-time vocational school	0.009	0.007	-0.004	0.002	-0.002	0.004	-0.006	0.002
Technical school	0.010	0.006	0.001	0.004	-0.001	0.004	0.001	0.004
Advanced technical college	0.002	0.006	-0.003	0.003	-0.003	0.003	-0.006	0.002
University	-0.006	0.002	0.004	0.006	-0.006	0.002	-0.007	0.002
<i>Assessment of individual's qualification</i>								

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TABLE D.5: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	–	–	–	–	–	–	–	–
Skilled employee	0.003	0.002	0.000	0.002	0.003	0.002	0.000	0.003
Ass. to technical school ⁵	-0.001	0.006	0.018	0.016	0.019	0.018	–	–
Ass. to adv. technical college	<i>0.022</i>	0.011	0.023	0.015	0.063	0.034	0.006	0.009
Ass. to university	0.013	0.008	-0.002	0.003	0.042	0.025	0.001	0.006
Ass. to top-management	–	–	–	–	–	–	–	–
<i>Month of treatment start</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	0.000	0.002	0.005	0.003	0.005	0.003	0.002	0.003
November 2000	0.005	0.003	0.003	0.003	<i>0.010</i>	0.005	0.003	0.004
January 2001	0.012	0.004	0.007	0.004	<i>0.014</i>	0.006	0.011	0.006
March 2001	0.004	0.003	0.004	0.003	0.005	0.004	0.010	0.005
May 2001	0.003	0.003	0.001	0.003	0.004	0.004	-0.004	0.002
<i>Regional Context Variables</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ia	–	–	–	–	–	–	–	–
Cluster Ib	–	–	–	–	–	–	–	–
Cluster Ic	–	–	–	–	–	–	–	–
Cluster II	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster III	-0.001	0.002	0.001	0.002	-0.001	0.002	0.000	0.002
Cluster IV	<i>-0.004</i>	0.002	-0.001	0.002	-0.002	0.002	0.000	0.003
Cluster V	0.002	0.002	0.002	0.002	-0.003	0.002	0.005	0.003
<i>Work time (last occupation)</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	-0.001	0.002	0.002	0.003	0.000	0.003	0.006	0.005
Not applicable	-0.007	0.002	-0.002	0.002	-0.007	0.002	<i>-0.005</i>	0.002
<i>Desired work time</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	-0.003	0.002	-0.002	0.002	-0.003	0.002	-0.003	0.002
Other (e.g. telework)	–	–	–	–	–	–	–	–
<i>Desired Occupation</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	–	–	–	–	–	–	–	–
Manufacturing	-0.005	0.004	0.004	0.008	-0.003	0.005	-0.011	0.003
Technical professions	-0.004	0.004	0.000	0.007	-0.001	0.006	-0.005	0.003
Service Professions	-0.002	0.005	0.005	0.004	0.001	0.005	<i>-0.016</i>	0.008
Other occupations	-0.009	0.002	0.010	0.017	–	–	<i>-0.006</i>	0.002
Other	–	–	–	–	–	–	–	–
<i>N</i>	15,338		11,208		8,850		7,033	
<i>Log-Likelihood</i>	-1,298.76		-617.05		-594.05		-499.34	
<i>R</i> ²	0.244		0.171		0.197		0.204	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.6: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 9 TO *u* = 12 (WOMEN IN WEST GERMANY)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	-0.005	0.003	-0.004	0.004	<i>-0.004</i>	0.002	-0.004	0.004
35 to 39 years	-0.006	0.003	-0.002	0.005	-0.004	0.002	0.001	0.007
40 to 44 years	-0.002	0.004	-0.008	0.003	<i>-0.005</i>	0.002	-0.002	0.005
45 to 49 years	-0.009	0.003	-0.004	0.004	-0.003	0.002	-0.003	0.005
50 to 55 years	-0.009	0.003	<i>-0.009</i>	0.004	-0.008	0.003	-0.001	0.006
Foreigner	-0.005	0.003	0.006	0.006	0.002	0.003	-0.008	0.002
Asylum-seeker	-0.004	0.003	-0.005	0.004	<i>-0.004</i>	0.002	<i>-0.006</i>	0.003

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TABLE D.6: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
No. of placement propositions	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.000
No. of children	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.002
Placement restrictions	0.006	0.007	-0.004	0.004	-0.001	0.003	-0.004	0.004
Vocational rehabilitation ¹	0.001	0.007	-0.003	0.005	0.003	0.008	0.041	0.029
Health restrictions	-0.002	0.004	0.012	0.007	0.001	0.004	-0.002	0.004
Marriage/ cohabitation	-0.007	0.003	-0.004	0.003	-0.001	0.002	-0.006	0.004
Work experience	0.000	0.004	0.001	0.004	0.000	0.003	0.002	0.004
Programme bef. unemp. ²	0.068	0.016	0.035	0.014	0.036	0.015	0.015	0.011
Reception of UI	0.002	0.003	0.000	0.003	0.002	0.002	0.004	0.003
<i>Duration of last employment</i>								
up to 180 days	0.019	0.005	0.012	0.004	0.013	0.005	0.012	0.005
between 180 and 365 days	-0.004	0.003	-0.004	0.004	-0.003	0.002	-0.004	0.003
between 366 and 730 days	-0.002	0.003	-0.005	0.003	0.004	0.004	0.016	0.010
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	-	-	-	-	-	-	-	-
Vocational disability	-	-	-	-	-	-	-	-
Permanently unable to work	-	-	-	-	-	-	-	-
Social plan	-	-	-	-	-	-	-	-
<i>Schooling³</i>								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	-0.002	0.004	0.011	0.005	0.006	0.003	-0.005	0.005
O-levels	0.001	0.005	0.015	0.012	0.009	0.009	-0.003	0.004
Adv. technical college entrance ⁴	0.008	0.010	0.026	0.027	0.023	0.024	0.005	0.011
A-levels	0.004	0.007	0.017	0.018	0.013	0.014	-0.003	0.006
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	0.002	0.003	0.004	0.004	-0.002	0.002	-0.001	0.003
Apprenticeship (off-the job)	0.010	0.017	0.053	0.044	-	-	0.029	0.041
Full-time vocational school	0.019	0.014	-	-	0.000	0.004	0.013	0.015
Technical school	0.016	0.011	-0.002	0.007	-0.003	0.002	-0.003	0.005
Advanced technical college	0.015	0.016	0.006	0.016	-0.004	0.001	-0.006	0.003
University	0.023	0.020	-0.001	0.008	-0.002	0.004	-0.006	0.003
<i>Assessment of individual's qualification</i>								
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	-	-	-	-	-	-	-	-
Skilled employee	0.000	0.003	-0.003	0.003	0.003	0.003	0.003	0.004
Ass. to technical school ⁵	0.004	0.011	0.003	0.017	0.024	0.033	-	-
Ass. to adv. technical college	0.018	0.016	0.010	0.018	0.106	0.070	0.015	0.031
Ass. to university	-0.007	0.003	0.020	0.022	0.019	0.025	0.020	0.032
Ass. to top-management	0.015	0.029	-	-	-	-	-	-
<i>Month of treatment start</i>								
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	0.002	0.003	0.004	0.005	0.005	0.004	0.005	0.005
November 2000	-0.002	0.003	0.003	0.005	0.006	0.005	0.010	0.008
January 2001	-0.001	0.004	0.007	0.007	0.014	0.009	0.005	0.008
March 2001	-0.005	0.003	0.000	0.005	0.003	0.004	0.007	0.007
May 2001	-0.005	0.003	-0.002	0.004	-0.001	0.003	-0.002	0.004
<i>Regional Context Variables</i>								
Cluster Ia	-	-	-	-	-	-	-	-
Cluster Ib	-	-	-	-	-	-	-	-
Cluster Ic	-	-	-	-	-	-	-	-
Cluster II	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster III	-0.003	0.003	-0.003	0.003	-0.001	0.002	-0.004	0.003
Cluster IV	0.006	0.005	-0.001	0.004	-0.003	0.002	-0.004	0.003
Cluster V	0.004	0.004	-0.006	0.003	-0.003	0.002	-0.005	0.003
<i>Work time (last occupation)</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	0.005	0.005	0.000	0.005	0.002	0.004	0.014	0.012
Not applicable	-0.019	0.004	-0.019	0.005	-0.011	0.004	0.000	0.003
<i>Desired work time</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	-0.005	0.003	0.002	0.003	-0.002	0.002	-0.002	0.003
Other (e.g. telework)	-	-	-	-	-	-	-	-
<i>Desired Occupation</i>								
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	-	-	-	-	-	-	-	-
Manufacturing	0.007	0.015	-0.008	0.007	-0.001	0.005	0.009	0.019
Technical professions	-0.002	0.012	-0.007	0.004	-0.002	0.004	-	-

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TABLE D.6: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Service Professions	0.010	0.008	-0.005	0.010	0.001	0.005	0.002	0.011
Other occupations	0.007	0.023	-0.004	0.009	–	–	0.009	0.033
Other	–	–	–	–	–	–	–	–
<i>N</i>	6,004		4,400		3,582		3,008	
<i>Log-Likelihood</i>	-553.76		-359.51		-236.60		-216.55	
<i>R</i> ²	0.294		0.235		0.336		0.223	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.7: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 1 TO *u* = 4 (MEN IN EAST GERMANY)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	0.002	0.001	-0.001	0.002	0.003	0.004	0.015	0.007
35 to 39 years	0.002	0.001	0.004	0.002	0.008	0.004	0.016	0.007
40 to 44 years	0.004	0.001	0.003	0.002	0.009	0.004	0.012	0.007
45 to 49 years	0.004	0.001	0.005	0.002	0.011	0.004	0.017	0.007
50 to 55 years	0.008	0.002	0.008	0.003	0.020	0.005	0.042	0.009
Foreigner	-0.003	0.001	-0.007	0.001	-0.016	0.002	-0.021	0.005
Asylum-seeker	-0.002	0.001	-0.008	0.001	-0.009	0.004	-0.019	0.006
No. of placement propositions	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000
No. of children	0.000	0.000	0.000	0.001	-0.001	0.001	-0.003	0.002
Placement restrictions	0.001	0.001	-0.002	0.002	-0.001	0.003	0.005	0.006
Vocational rehabilitation ¹	0.004	0.002	0.004	0.003	0.008	0.005	0.004	0.007
Health restrictions	0.001	0.001	0.004	0.002	0.007	0.003	-0.003	0.004
Marriage/ cohabitation	0.000	0.001	0.001	0.001	0.006	0.002	0.011	0.003
Work experience	0.000	0.001	-0.001	0.002	0.002	0.003	-0.003	0.005
Programme bef. unemp. ²	0.014	0.001	0.011	0.001	0.012	0.002	0.012	0.003
Reception of UI	-0.017	0.002	-0.022	0.002	-0.041	0.004	-0.062	0.006
<i>Duration of last employment</i>								
up to 180 days	0.009	0.001	0.018	0.002	0.033	0.004	0.066	0.006
between 180 and 365 days	0.003	0.001	0.002	0.002	0.014	0.004	0.012	0.005
between 366 and 730 days	-0.002	0.001	-0.004	0.001	-0.005	0.002	-0.004	0.004
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Vocational disability	-0.003	0.003	0.017	0.016	-0.001	0.015	0.025	0.033
Permanently unable to work	-0.005	0.001	0.002	0.007	-0.015	0.005	-0.008	0.016
Social plan	–	–	–	–	–	–	–	–
<i>Schooling</i> ³								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	0.000	0.001	0.000	0.002	0.002	0.003	0.004	0.005
O-levels	-0.002	0.001	-0.001	0.002	0.000	0.003	0.000	0.005
Adv. technical college entrance ⁴	-0.002	0.001	-0.004	0.003	0.000	0.009	0.012	0.016
A-levels	-0.002	0.001	-0.006	0.002	0.003	0.007	0.000	0.009
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	0.000	0.001	-0.001	0.001	0.003	0.002	0.005	0.004
Apprenticeship (off-the job)	0.006	0.004	0.005	0.007	0.008	0.012	0.045	0.028
Full-time vocational school	0.002	0.004	-0.003	0.005	-0.008	0.007	0.003	0.020
Technical school	0.006	0.003	0.001	0.004	0.008	0.008	0.011	0.013
Advanced technical college	0.009	0.007	0.012	0.012	0.000	0.011	0.007	0.019
University	0.005	0.004	0.001	0.006	-0.004	0.007	0.003	0.015
<i>Assessment of individual's qualification</i>								

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TABLE D.7: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	-	-	-	-	-	-	-	-
Skilled employee	0.000	0.001	-0.001	0.001	<i>0.004</i>	0.002	-0.002	0.003
Ass. to technical school ⁵	-0.001	0.001	0.000	0.003	0.006	0.007	-0.006	0.009
Ass. to adv. technical college	-0.001	0.002	0.003	0.005	0.005	0.010	0.023	0.020
Ass. to university	-0.001	0.002	0.005	0.006	0.013	0.012	0.002	0.014
Ass. to top-management	-	-	-	-	-	-	-	-
<i>Month of treatment start</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	0.000	0.001	-0.001	0.001	0.002	0.003	0.004	0.004
November 2000	0.001	0.001	0.003	0.002	0.000	0.003	0.001	0.004
January 2001	-0.003	0.001	<i>-0.003</i>	0.001	-0.011	0.002	-0.023	0.003
March 2001	-0.002	0.001	0.010	0.002	0.012	0.004	-0.001	0.004
May 2001	<i>-0.002</i>	0.001	0.000	0.001	0.010	0.003	0.020	0.005
<i>Regional Context Variables</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ia	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ib	-0.001	0.001	0.000	0.001	0.003	0.002	<i>0.007</i>	0.003
Cluster Ic	-0.003	0.001	-0.002	0.001	0.006	0.003	-0.001	0.005
Cluster II	-0.002	0.001	-0.005	0.002	-0.007	0.004	<i>-0.013</i>	0.006
Cluster III	-	-	-	-	-	-	-	-
Cluster IV	-	-	-	-	-	-	-	-
Cluster V	-	-	-	-	-	-	-	-
<i>Work time (last occupation)</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	0.004	0.001	<i>0.005</i>	0.002	<i>0.009</i>	0.004	0.003	0.005
Not applicable	0.002	0.001	0.005	0.001	0.005	0.002	0.002	0.003
<i>Desired work time</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	-0.002	0.004	-	-	-	-	-	-
Other (e.g. telework)	-	-	-	-	-	-	-	-
<i>Desired Occupation</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	-0.003	0.003	-	-	-0.005	0.014	-0.011	0.020
Manufacturing	0.000	0.001	<i>-0.004</i>	0.002	-0.004	0.003	0.001	0.005
Technical professions	-0.001	0.001	-0.007	0.001	-0.010	0.003	-0.019	0.005
Service Professions	-0.002	0.001	-0.005	0.001	-0.008	0.003	-0.006	0.005
Other occupations	-0.003	0.001	-0.007	0.001	-0.016	0.002	-0.017	0.006
Other	-	-	-	-	-	-	-	-
<i>N</i>	74,927		39,344		25,234		17,177	
<i>Log-Likelihood</i>	-3,868.20		-3,000.10		-3,027.12		-2,899.89	
<i>R</i> ²	0.181		0.163		0.145		0.175	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

- Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.8: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 5 to *u* = 8 (MEN IN EAST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	0.008	0.011	-0.005	0.011	-0.025	0.013	0.027	0.024
35 to 39 years	0.003	0.010	0.000	0.011	-0.017	0.013	0.032	0.023
40 to 44 years	0.021	0.011	0.018	0.012	-0.021	0.013	0.047	0.024
45 to 49 years	<i>0.022</i>	0.011	0.010	0.011	-0.008	0.014	0.045	0.024
50 to 55 years	0.063	0.014	0.046	0.015	0.048	0.019	0.096	0.029

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TABLE D.8: (CONTINUED)

	$u = 5$		$u = 6$		$u = 7$		$u = 8$	
	dF/dx	Std. Err.	dF/dx	Std. Err.	dF/dx	Std. Err.	dF/dx	Std. Err.
Foreigner	-0.051	0.008	-0.042	0.009	<i>-0.044</i>	0.020	-0.070	0.009
Asylum-seeker	-0.022	0.017	-0.038	0.011	-0.062	0.014	-0.057	0.016
No. of placement propositions	0.003	0.000	0.004	0.000	0.005	0.001	0.006	0.001
No. of children	-0.003	0.003	-0.009	0.003	0.000	0.004	-0.009	0.005
Placement restrictions	-0.028	0.008	-0.007	0.010	-0.034	0.012	-0.008	0.018
Vocational rehabilitation ¹	0.072	0.020	<i>0.037</i>	0.018	0.097	0.030	0.126	0.036
Health restrictions	0.012	0.009	0.007	0.009	0.013	0.013	-0.022	0.013
Marriage/ cohabitation	0.023	0.006	0.030	0.006	<i>0.020</i>	0.009	0.036	0.010
Work experience	0.005	0.009	0.010	0.008	0.007	0.012	<i>0.026</i>	0.012
Programme bef. unemp. ²	0.019	0.006	0.019	0.006	0.023	0.009	0.006	0.010
Reception of UI	-0.176	0.013	-0.166	0.016	-0.223	0.020	-0.140	0.020
<i>Duration of last employment</i>								
up to 180 days	0.142	0.011	0.120	0.012	0.138	0.014	0.219	0.019
between 180 and 365 days	-0.010	0.007	-0.027	0.007	-0.062	0.008	-0.014	0.013
between 366 and 730 days	-0.006	0.007	-0.006	0.008	-0.006	0.011	0.001	0.015
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Vocational disability	-0.003	0.053	0.075	0.091	-0.050	0.043	-0.041	0.051
Permanently unable to work	-0.027	0.026	0.005	0.043	-0.048	0.038	-0.046	0.034
Social plan	-	-	-	-	-	-	-	-
<i>Schooling³</i>								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	0.012	0.009	0.010	0.009	-0.003	0.013	0.003	0.014
O-levels	0.011	0.009	0.004	0.009	-0.008	0.013	0.002	0.015
Adv. technical college entrance ⁴	-0.026	0.018	<i>-0.038</i>	0.015	-0.036	0.028	-0.068	0.011
A-levels	-0.004	0.017	<i>-0.029</i>	0.013	-0.057	0.015	-0.016	0.028
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	<i>0.014</i>	0.007	0.006	0.007	<i>0.025</i>	0.010	0.006	0.012
Apprenticeship (off-the job)	<i>-0.041</i>	0.019	-0.008	0.031	0.068	0.071	-0.011	0.067
Full-time vocational school	-0.036	0.023	0.074	0.060	<i>-0.055</i>	0.023	0.004	0.058
Technical school	0.027	0.024	0.019	0.029	-0.040	0.021	0.031	0.044
Advanced technical college	0.042	0.046	0.161	0.127	0.005	0.058	0.212	0.132
University	0.038	0.037	0.044	0.057	0.001	0.051	-0.026	0.038
<i>Assessment of individual's qualification</i>								
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	-	-	-	-	-	-	-	-
Skilled employee	0.010	0.005	0.002	0.006	0.011	0.008	0.001	0.010
Ass. to technical school ⁵	0.026	0.023	<i>-0.028</i>	0.012	0.039	0.040	0.018	0.040
Ass. to adv. technical college	0.076	0.041	<i>-0.032</i>	0.016	0.143	0.091	0.033	0.056
Ass. to university	0.026	0.031	-0.050	0.007	0.175	0.091	0.090	0.079
Ass. to top-management	-	-	-	-	-	-	-	-
<i>Month of treatment start</i>								
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	-0.020	0.006	0.007	0.008	0.002	0.011	-0.027	0.011
November 2000	-0.038	0.005	<i>-0.016</i>	0.007	-0.010	0.012	-0.034	0.010
January 2001	-0.065	0.004	-0.056	0.004	-0.057	0.009	-0.064	0.008
March 2001	-0.037	0.005	-0.021	0.007	<i>-0.022</i>	0.010	-0.036	0.010
May 2001	-0.023	0.006	-0.021	0.006	-0.004	0.011	-0.035	0.010
<i>Regional Context Variables</i>								
Cluster Ia	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ib	0.010	0.006	-0.007	0.007	-0.013	0.010	<i>-0.023</i>	0.011
Cluster Ic	-0.005	0.008	-0.013	0.008	-0.030	0.010	-0.042	0.010
Cluster II	-0.021	0.012	-0.043	0.007	-0.050	0.013	<i>-0.036</i>	0.016
Cluster III	-	-	-	-	-	-	-	-
Cluster IV	-	-	-	-	-	-	-	-
Cluster V	-	-	-	-	-	-	-	-
<i>Work time (last occupation)</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	-0.002	0.009	0.010	0.013	<i>0.043</i>	0.020	0.027	0.021
Not applicable	-0.028	0.005	-0.017	0.006	-0.027	0.008	-0.031	0.009
<i>Desired work time</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	-0.029	0.042	-	-	-	-	-0.029	0.063
Other (e.g. telework)	-	-	-	-	-	-	-	-
<i>Desired Occupation</i>								
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	-0.023	0.031	-0.025	0.049	-0.052	0.028	-	-

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TABLE D.8: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Manufacturing	-0.010	0.009	-0.005	0.010	<i>-0.028</i>	0.014	-0.018	0.016
Technical professions	-0.045	0.008	-0.004	0.020	-0.048	0.014	-0.046	0.017
Service Professions	-0.026	0.009	<i>-0.020</i>	0.009	-0.048	0.012	-0.046	0.014
Other occupations	<i>-0.029</i>	0.013	-0.047	0.007	-0.076	0.007	-0.073	0.009
Other	–	–	–	–	–	–	–	–
<i>N</i>	11,349		7,756		6,002		4,461	
<i>Log-Likelihood</i>	-2,951.48		-1,852.76		-1,712.36		-1,248.73	
<i>R</i> ²	0.241		0.260		0.266		0.295	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.9: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 9 TO *u* = 12 (MEN IN EAST GERMANY)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	-0.018	0.034	-0.005	0.037	<i>-0.085</i>	0.036	-0.040	0.042
35 to 39 years	0.014	0.034	-0.011	0.036	-0.050	0.040	-0.038	0.041
40 to 44 years	0.033	0.035	-0.003	0.036	<i>-0.080</i>	0.038	-0.018	0.043
45 to 49 years	0.056	0.036	0.006	0.037	-0.003	0.045	0.040	0.049
50 to 55 years	0.110	0.039	0.059	0.042	0.069	0.050	0.053	0.051
<i>Foreigner</i>								
Foreigner	-0.049	0.046	-0.123	0.029	0.029	0.087	0.043	0.100
Asylum-seeker	<i>-0.095</i>	0.040	<i>-0.101</i>	0.045	-0.165	0.023	-0.071	0.058
No. of placement propositions	0.013	0.001	0.018	0.001	0.019	0.002	0.020	0.002
No. of children	-0.011	0.009	-0.012	0.010	0.000	0.012	0.000	0.012
Placement restrictions	-0.024	0.028	-0.050	0.028	<i>-0.071</i>	0.035	0.040	0.046
Vocational rehabilitation ¹	<i>0.086</i>	0.041	0.058	0.046	0.104	0.057	0.054	0.051
Health restrictions	0.000	0.024	0.017	0.028	0.069	0.037	-0.013	0.035
Marriage/ cohabitation	0.047	0.017	0.026	0.019	0.042	0.023	0.010	0.024
Work experience	0.057	0.022	-0.014	0.031	<i>0.060</i>	0.030	-0.021	0.039
Programme bef. unemp. ²	-0.007	0.016	0.014	0.018	0.018	0.023	-0.015	0.022
Reception of UI	-0.268	0.026	-0.231	0.031	-0.238	0.036	-0.241	0.040
<i>Duration of last employment</i>								
up to 180 days	0.332	0.023	0.258	0.025	0.271	0.031	0.271	0.033
between 180 and 365 days	-0.017	0.023	<i>-0.060</i>	0.024	-0.097	0.026	<i>-0.064</i>	0.028
between 366 and 730 days	0.034	0.027	0.032	0.028	-0.004	0.032	0.057	0.040
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Vocational disability	-0.038	0.116	-0.024	0.131	-0.170	0.025	0.151	0.285
Permanently unable to work	-0.002	0.113	–	–	-0.110	0.079	0.118	0.138
Social plan	–	–	–	–	–	–	–	–
<i>Schooling</i> ³								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	0.006	0.024	-0.006	0.026	0.019	0.034	0.027	0.034
O-levels	-0.006	0.026	-0.012	0.028	0.013	0.036	0.028	0.037
Adv. technical college entrance ⁴	-0.056	0.070	0.013	0.100	-0.052	0.092	-0.092	0.087
A-levels	0.061	0.068	0.004	0.059	-0.148	0.035	0.094	0.098
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	<i>0.045</i>	0.019	0.037	0.022	-0.027	0.030	0.004	0.028
Apprenticeship (off-the-job)	0.114	0.127	0.246	0.175	-0.104	0.083	-0.013	0.167
Full-time vocational school	-0.063	0.086	-0.085	0.070	-0.103	0.080	-0.004	0.099
Technical school	-0.063	0.049	0.024	0.077	-0.031	0.074	-0.108	0.037
Advanced technical college	-0.043	0.097	0.005	0.123	-0.074	0.121	-0.105	0.070
University	-0.117	0.036	-0.083	0.054	0.032	0.138	-0.041	0.095

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TABLE D.9: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Assessment of individual's qualification</i>								
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	–	–	–	–	–	–	–	–
Skilled employee	-0.023	0.016	-0.024	0.018	0.011	0.023	-0.021	0.023
Ass. to technical school ⁵	-0.037	0.058	0.037	0.070	-0.025	0.071	-0.040	0.071
Ass. to adv. technical college	-0.028	0.081	0.270	0.159	0.255	0.153	0.080	0.153
Ass. to university	0.031	0.088	0.098	0.119	-0.091	0.081	-0.138	0.021
Ass. to top-management	–	–	–	–	–	–	–	–
<i>Month of treatment start</i>								
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	-0.043	0.020	0.018	0.025	-0.008	0.030	-0.028	0.028
November 2000	-0.055	0.021	-0.063	0.022	-0.063	0.029	-0.027	0.030
January 2001	-0.139	0.014	-0.087	0.021	-0.096	0.029	-0.091	0.028
March 2001	-0.061	0.019	-0.047	0.022	0.014	0.034	-0.006	0.034
May 2001	-0.039	0.020	-0.051	0.021	0.014	0.031	0.029	0.032
<i>Regional Context Variables</i>								
Cluster Ia	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ib	-0.046	0.019	-0.024	0.022	-0.052	0.028	-0.025	0.026
Cluster Ic	-0.081	0.019	-0.049	0.024	-0.046	0.033	-0.054	0.029
Cluster II	-0.117	0.023	-0.086	0.030	-0.084	0.039	-0.107	0.031
Cluster III	–	–	–	–	–	–	–	–
Cluster IV	–	–	–	–	–	–	–	–
Cluster V	–	–	–	–	–	–	–	–
<i>Work time (last occupation)</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	0.063	0.037	0.127	0.056	0.203	0.069	0.123	0.073
Not applicable	-0.117	0.016	-0.135	0.019	-0.158	0.023	-0.105	0.023
<i>Desired work time</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	–	–	–	–	-0.033	0.266	–	–
Other (e.g. telework)	–	–	–	–	–	–	–	–
<i>Desired Occupation</i>								
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	–	–	–	–	-0.162	0.031	–	–
Manufacturing	-0.006	0.028	-0.033	0.029	-0.063	0.035	0.031	0.038
Technical professions	0.097	0.076	-0.096	0.031	-0.049	0.061	0.089	0.109
Service Professions	-0.046	0.028	-0.061	0.028	-0.144	0.030	-0.038	0.038
Other occupations	-0.141	0.024	-0.111	0.029	-0.148	0.029	-0.132	0.025
Other	–	–	–	–	–	–	–	–
<i>N</i>	3,507		2,594		2,131		1,639	
<i>Log-Likelihood</i>	-1,229.39		-882.28		-738.35		-557.21	
<i>R</i> ²	0.360		0.353		0.394		0.357	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.10: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 1 TO *u* = 4 (WOMEN IN EAST GERMANY)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	0.004	0.002	0.001	0.002	0.010	0.004	0.002	0.005
35 to 39 years	0.005	0.002	0.002	0.002	0.006	0.004	0.007	0.005
40 to 44 years	0.004	0.002	0.003	0.002	0.003	0.004	0.004	0.005
45 to 49 years	0.008	0.002	0.007	0.003	0.009	0.004	0.009	0.005
50 to 55 years	0.013	0.003	0.012	0.003	0.015	0.005	0.025	0.007

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TABLE D.10: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Foreigner	-0.005	0.002	-0.003	0.003	-0.006	0.005	-0.014	0.007
Asylum-seeker	-0.006	0.001	-0.008	0.001	-0.013	0.002	-0.018	0.004
No. of placement propositions	0.001	0.000	0.001	0.000	0.001	0.000	0.002	0.000
No. of children	0.001	0.000	0.001	0.000	0.000	0.001	0.002	0.001
Placement restrictions	0.002	0.002	0.000	0.002	-0.003	0.003	0.007	0.006
Vocational rehabilitation ¹	0.002	0.002	0.004	0.004	0.024	0.008	0.004	0.007
Health restrictions	0.000	0.001	0.003	0.002	0.007	0.003	0.005	0.004
Marriage/ cohabitation	0.000	0.001	-0.001	0.001	0.000	0.002	-0.007	0.002
Work experience	0.002	0.001	-0.002	0.002	-0.001	0.002	0.003	0.003
Programme bef. unemp. ²	0.014	0.001	0.010	0.001	0.010	0.002	0.009	0.002
Reception of UI	-0.019	0.002	-0.016	0.002	-0.023	0.003	-0.037	0.004
<i>Duration of last employment</i>								
up to 180 days	0.012	0.002	0.018	0.002	0.026	0.003	0.045	0.005
between 180 and 365 days	0.006	0.002	0.007	0.002	0.009	0.003	0.007	0.004
between 366 and 730 days	-0.004	0.001	-0.004	0.001	-0.001	0.002	-0.004	0.003
more than 730 days	Reference		Reference		Reference		Reference	
<i>Pension</i>								
No pension	Reference		Reference		Reference		Reference	
Vocational disability	-	-	0.039	0.037	-0.001	0.020	0.038	0.066
Permanently unable to work	-0.001	0.005	-0.001	0.007	-	-	-0.004	0.016
Social plan	-	-	-	-	-	-	-	-
<i>Schooling³</i>								
No school	Reference		Reference		Reference		Reference	
CSE	-0.002	0.001	0.000	0.002	0.004	0.004	0.009	0.006
O-levels	-0.002	0.002	0.000	0.002	0.005	0.004	0.010	0.005
Adv. technical college entrance ⁴	0.003	0.004	0.006	0.007	-0.002	0.007	-0.006	0.009
A-levels	-0.003	0.002	0.007	0.005	0.008	0.007	0.007	0.010
<i>Professional Training</i>								
Without compl. prof. training	Reference		Reference		Reference		Reference	
Apprenticeship (on-the-job)	0.002	0.001	0.000	0.001	0.005	0.002	0.003	0.003
Apprenticeship (off-the job)	0.001	0.004	0.004	0.006	0.012	0.012	0.024	0.018
Full-time vocational school	0.001	0.003	0.005	0.005	0.004	0.008	0.008	0.010
Technical school	0.008	0.003	0.007	0.004	0.024	0.007	0.010	0.007
Advanced technical college	-0.001	0.003	-0.003	0.004	0.023	0.018	0.029	0.025
University	0.008	0.005	-0.002	0.003	0.014	0.011	0.030	0.019
<i>Assessment of individual's qualification</i>								
Other	Reference		Reference		Reference		Reference	
Unskilled employee	-	-	-	-	-	-	-	-
Skilled employee	0.000	0.001	0.001	0.001	0.002	0.002	0.000	0.002
Ass. to technical school ⁵	0.001	0.002	0.003	0.003	0.004	0.005	0.006	0.007
Ass. to adv. technical college	0.003	0.003	0.002	0.004	0.016	0.009	-0.003	0.008
Ass. to university	0.000	0.002	0.005	0.005	0.009	0.008	-0.008	0.007
Ass. to top-management	-	-	-	-	-	-	-	-
<i>Month of treatment start</i>								
July 2000	Reference		Reference		Reference		Reference	
September 2000	0.001	0.001	-0.003	0.001	0.000	0.002	0.003	0.003
November 2000	0.000	0.001	0.001	0.002	0.000	0.002	0.012	0.004
January 2001	-0.002	0.001	-0.003	0.002	-0.005	0.002	-0.008	0.003
March 2001	0.001	0.001	0.011	0.002	0.015	0.004	0.009	0.004
May 2001	-0.002	0.001	0.006	0.002	0.004	0.003	0.017	0.004
<i>Regional Context Variables</i>								
Cluster Ia	Reference		Reference		Reference		Reference	
Cluster Ib	-0.001	0.001	-0.001	0.001	-0.001	0.002	0.010	0.003
Cluster Ic	-0.005	0.001	-0.003	0.001	-0.002	0.002	0.010	0.005
Cluster II	-0.004	0.002	-0.007	0.002	-0.007	0.003	0.000	0.008
Cluster III	-	-	-	-	-	-	-	-
Cluster IV	-	-	-	-	-	-	-	-
Cluster V	-	-	-	-	-	-	-	-
<i>Work time (last occupation)</i>								
Full-time work	Reference		Reference		Reference		Reference	
Part-time work	0.004	0.001	0.000	0.001	0.003	0.003	0.000	0.003
Not applicable	0.003	0.001	0.004	0.001	0.009	0.002	0.010	0.002
<i>Desired work time</i>								
Full-time work	Reference		Reference		Reference		Reference	
part-time work	-0.004	0.001	-0.007	0.001	-0.011	0.002	-0.009	0.004
Other (e.g. telework)	-	-	-	-	-	-	-	-
<i>Desired Occupation</i>								
Farming ⁶	Reference		Reference		Reference		Reference	
Mining, mineral extraction	-	-	-	-	-	-	0.061	0.081

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TABLE D.10: (CONTINUED)

	<i>u</i> = 1		<i>u</i> = 2		<i>u</i> = 3		<i>u</i> = 4	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Manufacturing	-0.003	0.001	-0.002	0.002	-0.005	0.002	<i>-0.008</i>	0.003
Technical professions	-0.002	0.001	-0.003	0.002	-0.003	0.003	-0.006	0.005
Service Professions	<i>-0.003</i>	0.001	-0.001	0.002	<i>-0.005</i>	0.003	-0.006	0.004
Other occupations	-0.008	0.001	-0.008	0.001	-0.008	0.004	-0.019	0.004
Other	-	-	-	-	-	-	-	-
<i>N</i>	62,432		38,133		28,551		21,848	
<i>Log-Likelihood</i>	-4,216.63		-2,963.94		-2,967.65		-3,040.32	
<i>R</i> ²	0.143		0.144		0.125		0.152	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

- Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.11: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 5 TO *u* = 8 (WOMEN IN EAST GERMANY)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	0.001	0.008	0.001	0.008	0.001	0.010	-0.009	0.011
35 to 39 years	0.006	0.008	0.004	0.008	-0.003	0.009	-0.006	0.011
40 to 44 years	0.002	0.008	0.002	0.008	0.000	0.010	-0.007	0.011
45 to 49 years	0.004	0.008	0.012	0.009	0.004	0.010	-0.001	0.012
50 to 55 years	0.034	0.010	<i>0.024</i>	0.011	<i>0.025</i>	0.013	0.021	0.015
<i>Foreigner</i>								
Foreigner	-0.032	0.009	-0.020	0.011	-0.041	0.004	-	-
Asylum-seeker	-0.032	0.006	-0.032	0.002	-0.043	0.003	-0.042	0.007
No. of placement propositions	0.004	0.000	0.004	0.000	0.005	0.000	0.006	0.001
No. of children	-0.001	0.002	0.001	0.002	-0.002	0.002	-0.003	0.003
Placement restrictions	0.011	0.010	-0.008	0.007	<i>-0.016</i>	0.007	0.007	0.014
Vocational rehabilitation ¹	0.042	0.016	0.056	0.021	0.033	0.021	<i>0.060</i>	0.028
Health restrictions	0.009	0.007	0.011	0.007	0.031	0.010	0.012	0.011
Marriage/ cohabitation	0.001	0.004	0.006	0.004	0.000	0.005	0.002	0.006
Work experience	0.005	0.005	0.002	0.005	-0.003	0.007	0.003	0.008
Programme bef. unemp. ²	0.029	0.004	0.028	0.004	0.029	0.005	0.035	0.006
Reception of UI	-0.107	0.008	-0.127	0.011	-0.134	0.012	-0.109	0.013
<i>Duration of last employment</i>								
up to 180 days	0.111	0.009	0.094	0.010	0.115	0.011	0.138	0.013
between 180 and 365 days	-0.018	0.004	-0.024	0.004	-0.035	0.005	-0.039	0.006
between 366 and 730 days	<i>-0.012</i>	0.005	0.003	0.006	0.001	0.007	0.001	0.009
more than 730 days	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
<i>Pension</i>								
No pension	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Vocational disability	0.007	0.060	-0.014	0.050	-	-	-	-
Permanently unable to work	-0.027	0.019	-0.012	0.019	0.027	0.062	-0.002	0.042
Social plan	-	-	-	-	-	-	-	-
<i>Schooling</i> ³								
No school	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
CSE	0.016	0.010	0.002	0.008	0.023	0.013	-0.025	0.009
O-levels	0.021	0.008	0.007	0.007	0.034	0.010	-0.011	0.012
Adv. technical college entrance ⁴	0.020	0.022	0.008	0.022	0.068	0.047	-0.041	0.008
A-levels	<i>0.051</i>	0.022	0.021	0.018	<i>0.070</i>	0.035	-0.023	0.012
<i>Professional Training</i>								
Without compl. prof. training	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Apprenticeship (on-the-job)	0.004	0.005	0.002	0.005	<i>0.013</i>	0.006	0.019	0.007
Apprenticeship (off-the-job)	0.008	0.022	0.051	0.036	0.089	0.050	-0.005	0.034
Full-time vocational school	0.029	0.018	0.018	0.019	-0.005	0.017	0.040	0.032
Technical school	<i>0.029</i>	0.012	0.015	0.012	0.033	0.018	0.063	0.024
Advanced technical college	0.000	0.021	0.014	0.030	0.012	0.035	0.218	0.112
University	0.007	0.018	0.002	0.018	0.002	0.023	0.078	0.058

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TABLE D.11: (CONTINUED)

	<i>u</i> = 5		<i>u</i> = 6		<i>u</i> = 7		<i>u</i> = 8	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Assessment of individual's qualification</i>								
Other	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Unskilled employee	–	–	–	–	–	–	–	–
Skilled employee	0.008	0.004	0.001	0.004	-0.002	0.005	0.009	0.006
Ass. to technical school ⁵	0.022	0.014	0.017	0.015	0.002	0.014	0.010	0.020
Ass. to adv. technical college	0.025	0.019	0.002	0.016	0.035	0.029	-0.029	0.012
Ass. to university	0.004	0.016	-0.005	0.014	-0.016	0.014	0.028	0.032
Ass. to top-management	–	–	–	–	0.395	0.405	–	–
<i>Month of treatment start</i>								
July 2000	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
September 2000	-0.012	0.004	0.003	0.005	-0.008	0.006	-0.005	0.007
November 2000	-0.003	0.005	-0.009	0.005	-0.004	0.006	-0.016	0.007
January 2001	-0.020	0.005	-0.013	0.005	-0.021	0.005	-0.033	0.006
March 2001	0.013	0.006	0.012	0.006	0.000	0.007	0.006	0.008
May 2001	-0.002	0.005	-0.003	0.005	-0.001	0.006	-0.021	0.006
<i>Regional Context Variables</i>								
Cluster Ia	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Cluster Ib	0.006	0.004	-0.011	0.005	-0.023	0.006	-0.014	0.007
Cluster Ic	-0.007	0.005	-0.017	0.004	-0.028	0.004	-0.023	0.006
Cluster II	-0.011	0.010	-0.015	0.008	-0.031	0.006	-0.040	0.007
Cluster III	–	–	–	–	–	–	–	–
Cluster IV	–	–	–	–	–	–	–	–
Cluster V	–	–	–	–	–	–	–	–
<i>Work time (last occupation)</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Part-time work	0.001	0.005	0.007	0.006	0.019	0.008	0.007	0.009
Not applicable	-0.009	0.004	0.002	0.004	-0.005	0.005	-0.007	0.006
<i>Desired work time</i>								
Full-time work	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
part-time work	-0.023	0.006	-0.025	0.004	-0.028	0.006	-0.028	0.008
Other (e.g. telework)	–	–	–	–	–	–	–	–
<i>Desired Occupation</i>								
Farming ⁶	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
Mining, mineral extraction	–	–	0.019	0.064	–	–	–	–
Manufacturing	-0.008	0.006	-0.017	0.005	-0.019	0.006	-0.026	0.008
Technical professions	-0.006	0.009	-0.022	0.005	-0.006	0.011	-0.019	0.011
Service Professions	-0.001	0.006	-0.021	0.007	-0.021	0.008	-0.025	0.010
Other occupations	-0.043	0.004	-0.030	0.004	-0.039	0.005	-0.041	0.008
Other	–	–	–	–	–	–	–	–
<i>N</i>	15,833		11,219		9,435		7,498	
<i>Log-Likelihood</i>	-3,323.24		-2,000.17		-1,956.27		-1,660.66	
<i>R</i> ²	0.252		0.271		0.288		0.285	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.

Tab. D.12: ESTIMATION RESULTS OF THE PROBIT-MODELS FOR THE PROPENSITY SCORES FOR TREATMENT STARTING IN QUARTER *u* = 9 TO *u* = 12 (WOMEN IN EAST GERMANY)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
<i>Age</i>								
25 to 29 years	<i>Reference</i>		<i>Reference</i>		<i>Reference</i>		<i>Reference</i>	
30 to 34 years	-0.010	0.022	-0.010	0.025	-0.028	0.025	-0.009	0.031
35 to 39 years	-0.019	0.021	-0.001	0.025	-0.012	0.026	0.001	0.032
40 to 44 years	-0.014	0.021	-0.026	0.022	-0.022	0.025	-0.018	0.029
45 to 49 years	-0.003	0.022	0.015	0.026	0.008	0.028	0.014	0.034
50 to 55 years	0.039	0.026	0.047	0.030	0.025	0.030	0.041	0.037

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TABLE D.12: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Foreigner	-0.024	0.048	-0.022	0.043	0.046	0.110	-0.013	0.074
Asylum-seeker	-0.079	0.016	-0.040	0.030	-0.079	0.031	-0.053	0.032
No. of placement propositions	0.015	0.001	0.016	0.001	0.024	0.001	0.023	0.002
No. of children	0.007	0.005	0.005	0.005	0.003	0.006	0.010	0.006
Placement restrictions	-0.030	0.018	-0.023	0.023	0.004	0.031	-0.025	0.024
Vocational rehabilitation ¹	0.098	0.043	0.065	0.045	0.127	0.060	0.022	0.041
Health restrictions	0.046	0.020	0.027	0.022	0.006	0.023	0.020	0.022
Marriage/ cohabitation	0.017	0.010	-0.022	0.012	-0.014	0.013	-0.009	0.014
Work experience	0.006	0.014	0.001	0.017	0.024	0.017	0.004	0.018
Programme bef. unemp. ²	0.088	0.011	0.065	0.013	0.051	0.014	0.037	0.014
Reception of UI	-0.182	0.017	-0.180	0.019	-0.152	0.020	-0.125	0.021
<i>Duration of last employment</i>								
up to 180 days	0.233	0.017	0.192	0.019	0.151	0.020	0.192	0.023
between 180 and 365 days	-0.081	0.009	-0.071	0.011	-0.102	0.010	-0.085	0.011
between 366 and 730 days	-0.030	0.013	0.004	0.018	-0.015	0.018	0.025	0.022
more than 730 days	Reference		Reference		Reference		Reference	
<i>Pension</i>								
No pension	Reference		Reference		Reference		Reference	
Vocational disability	-	-	-0.016	0.133	-	-	-	-
Permanently unable to work	-	-	-	-	-0.016	0.096	0.013	0.123
Social plan	-	-	-	-	-	-	-	-
<i>Schooling³</i>								
No school	Reference		Reference		Reference		Reference	
CSE	0.044	0.024	-0.003	0.022	-0.023	0.023	-0.009	0.022
O-levels	0.036	0.021	0.015	0.023	-0.022	0.025	-0.006	0.023
Adv. technical college entrance ⁴	0.132	0.082	-0.045	0.042	0.083	0.090	0.012	0.072
A-levels	0.111	0.055	-0.012	0.035	-0.060	0.028	-0.001	0.047
<i>Professional Training</i>								
Without compl. prof. training	Reference		Reference		Reference		Reference	
Apprenticeship (on-the-job)	0.038	0.012	0.014	0.015	0.043	0.015	0.013	0.016
Apprenticeship (off-the job)	0.279	0.137	0.294	0.124	-	-	0.104	0.133
Full-time vocational school	0.068	0.052	-0.037	0.031	-0.066	0.026	-0.059	0.023
Technical school	0.081	0.035	0.016	0.032	-0.015	0.030	-0.033	0.026
Advanced technical college	0.101	0.110	-0.027	0.067	-0.082	0.024	-0.083	0.016
University	-0.021	0.044	-0.045	0.036	-0.037	0.048	-0.056	0.034
<i>Assessment of individual's qualification</i>								
Other	Reference		Reference		Reference		Reference	
Unskilled employee	-	-	-	-	-	-	-	-
Skilled employee	0.001	0.010	0.008	0.011	-0.026	0.013	-0.021	0.013
Ass. to technical school ⁵	-0.006	0.029	0.035	0.045	0.039	0.050	0.092	0.068
Ass. to adv. technical college	-0.028	0.034	0.109	0.100	0.234	0.116	0.128	0.112
Ass. to university	-0.002	0.051	0.089	0.073	0.135	0.089	0.120	0.103
Ass. to top-management	-	-	-	-	-	-	-	-
<i>Month of treatment start</i>								
July 2000	Reference		Reference		Reference		Reference	
September 2000	-0.037	0.011	-0.007	0.015	0.051	0.020	0.012	0.018
November 2000	-0.045	0.011	-0.021	0.015	0.066	0.025	0.020	0.021
January 2001	-0.083	0.009	-0.075	0.011	-0.026	0.020	-0.020	0.021
March 2001	-0.042	0.011	-0.014	0.015	0.043	0.022	0.026	0.022
May 2001	-0.040	0.011	-0.048	0.012	0.013	0.019	0.036	0.021
<i>Regional Context Variables</i>								
Cluster Ia	Reference		Reference		Reference		Reference	
Cluster Ib	-0.060	0.012	-0.060	0.014	-0.048	0.015	-0.065	0.016
Cluster Ic	-0.070	0.009	-0.062	0.011	-0.083	0.011	-0.060	0.012
Cluster II	-0.039	0.021	-0.072	0.018	-0.058	0.022	-0.079	0.014
Cluster III	-	-	-	-	-	-	-	-
Cluster IV	-	-	-	-	-	-	-	-
Cluster V	-	-	-	-	-	-	-	-
<i>Work time (last occupation)</i>								
Full-time work	Reference		Reference		Reference		Reference	
Part-time work	0.035	0.016	0.062	0.023	0.078	0.027	0.083	0.029
Not applicable	-0.094	0.011	-0.098	0.014	-0.111	0.015	-0.057	0.015
<i>Desired work time</i>								
Full-time work	Reference		Reference		Reference		Reference	
part-time work	-0.072	0.012	-0.058	0.017	-0.073	0.015	-0.055	0.017
Other (e.g. telework)	-	-	-	-	-	-	-	-
<i>Desired Occupation</i>								
Farming ⁶	Reference		Reference		Reference		Reference	
Mining, mineral extraction	0.024	0.241	-	-	-	-	-	-

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TABLE D.12: (CONTINUED)

	<i>u</i> = 9		<i>u</i> = 10		<i>u</i> = 11		<i>u</i> = 12	
	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.	<i>dF/dx</i>	Std. Err.
Manufacturing	-0.025	0.015	-0.046	0.016	-0.056	0.017	-0.029	0.019
Technical professions	-0.027	0.022	-0.023	0.029	-0.033	0.028	-0.025	0.030
Service Professions	-0.044	0.017	<i>-0.048</i>	0.020	-0.061	0.021	<i>-0.058</i>	0.023
Other occupations	-0.090	0.012	-0.065	0.035	-0.083	0.023	-0.080	0.021
Other	–	–	–	–	–	–	–	–
<i>N</i>	6,247		4,533		3,917		3,294	
<i>Log-Likelihood</i>	-1,748.25		-1,310.90		-1,139.47		-913.97	
<i>R</i> ²	0.411		0.372		0.391		0.381	

Bold letters indicate significance at 1% level, *italic* letters refer to the 5% level.

– Variables not included in estimation due to collinearity to other variables, perfect prediction of participation decision or missing.

¹ Attendant for vocational rehabilitation.

² Similar programme before unemployment, e.g. job creation or structural adjustment scheme.

³ Schooling: CSE = Certificate of Secondary Education.

⁴ Advanced technical college entrance qualification (*Fachhochschulreife*)

⁵ Ass. = assimilable

⁶ Farming comprises plant cultivation, breeding and fishery.