#### NUMBER 26

ESTIMATION OF DISABILITY STATUS AS A SINGLE LATENT VARIABLE IN A MODEL WITH MULTIPLE INDICATORS AND MULTIPLE CAUSES

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**APRIL 1982** 

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#### Introduction

The presence of disease, impairment, and functional limitations can have a dramatic impact on an individual's ability to work and perform other activities of daily living. Social research, which seeks to expose the causes and correlates of human behavior, must account for the effects of health or disability status at the individual level. It is important to determine the contexts in which poor health or impairment limits the performance of usual social roles or tasks and results in the application for government benefits and services. It is also important to identify those factors which govern the rehabilitation potential of the disabled.

In this paper, we are concerned with the underlying structure of self-definitions of disability. 1/ Our purpose is to identify the contribution of exertional and non-exertional impairment and the contributions of such non-medical factors as age, sex and education to the individuals' assessment of their own situations.

On a mechanistic level, we seek to accomplish a substantial statistical reduction of a large number of data items into a form which can be used conveniently in subsequent behavioral analyses.

The operational use of measures of health and disability status in the estimation of the parameters of behavior models has taken a number of forms. Often, health conditions and functional limitations have been represented by a vector of dummy variables. The large number of variables available, has led to serious problems in specification and estimation of the models. The problems involve such issues

<sup>1</sup>/ Our focus is determined largely by the kinds of data available in the Social Security Administrations' 1978 Survey of Disability and Work.

as the specification of interactions of health or disability with other socioeconomic variables, the effects of multi-collinearity on the estimates of coefficients and test statistics, and the robustness of statistical software for estimating large models by maximum likelihood methods outside of ordinary least squares. These problems have led researchers to seek data reductions in the operational use of these concepts. Grossman and Benham  $\frac{2}{2}$ , for example, constructed a measure of ill health through a principal components analysis of a number of symptoms and self evaluations of health. There have been two functional capacity indices developed using Social Security Administration survey data bases. The first by Haber 3/ uses functional limitations and dependency on others based on responses to the 1966 Survey of Disabled Adults. The second by Duchnok 4/ used reported health conditions and problems in addition to functional limitations and restrictions in activities of daily living based on response to the 1972 Survey of Health and Work Characteristics. The procedures used to construct the latter two indices were essentially non-statistical being based rather on an expert assessment of the composite score to be assigned to an individual with a specific combination of characteristics. Both resulted in ordinal scales.

<sup>2/</sup> Michael Grossman and Lee Benham, "Health Hours and Wages," in Mark Perlman (ed.), Economics of Health and Medical Care, New York: Halsted Press, 1973, pp. 207-208.

<sup>3/</sup> Lawrence D. Haber, "The Epidemiology of Disability II. The Measurement of Functional Capacity Limitations," Social Security Survey of the Disabled, 1966 Report No. 10, SSA, July 1970.

<sup>4</sup>/ Sandy Duchnok, "A Measure of Functional Capacity," ORS Working Paper Series No.  $\overline{4}$ , SSA, March 1979.

This paper presents the results of a new attempt at the formulation of a disability index using social security survey data. We take the position that the complex concept, disability, cannot be measured directly in personal interview surveys; and therefore, we have chosen to estimate the index as an unobserved or latent variable in a model with multiple indicators and multiple causes (MIMIC). The new index has two important properties. In order to facilitate its use in subsequent behavioral equations, the index is constructed as a single dimensional variable with interval scale properties. Secondly, the methodology for index construction permits other researchers to replicate the construction process.

#### The Concept of Disability

The conceptual formulation underlying our MIMIC model of disability follows from the work of Saad Nagi. 5/ This model places disability recursively in a path leading from disease or impairment to restrictions in ability to perform usual roles and tasks.

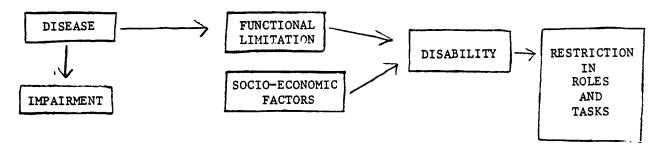


Figure 1.--Conceptual model of disability.

<sup>5/</sup> Saad Nagi, "Some Conceptual Issues in Disability and Rehabilitation," in Marvin B. Sussman (ed.), Sociology and Rehabilitation, New York: DHEW (Grant No. RD-1684-G), 1965, pp. 100-104.

An impairment is an anatomical, physiological or psychological abnormality. It is a medical concept. While it is the case that every disease results in at least a temporary impairment, not every impairment involves a disease. A functional limitation is a result of an impairment and refers to an individual's lack of ability to perform certain mental or physical tasks. Disability is a pattern of behavior that evolves in the presence of impairments and the resulting functional limitations. A person is disabled when an impairment and/or functional limitation interact with socio-economic characteristics resulting in the limitation of normal activities such as work, selfcare, and the ability to use public transportation.

The analysis presented in this paper makes no attempt to estimate the path from disease and impairment to functional limitation. Rather, we will estimate disability as an unobserved variable whose causes are functional limitations and demographic factors and whose consequences are limitations in kind or amount of work, and mobility usually required to get to and from a job.

#### General Formulation of the MIMIC Model

It seems natural to translate the conceptual model of disability presented in the previous section into a mathematical model in which one observes Multiple Indicators and MultIple Causes of a Single latent variable. 6/ This model involves a single unobserved variable, in our case disability represented by n, which appears as both a cause and an effect variable. The structural and measurement equations are:

$$\eta = \Gamma x + \zeta$$
,  $E(\zeta)=0$ ,  $E(\zeta^2)=\sigma^2$   
 $y = \Lambda \eta + \varepsilon$ ,  $E(\varepsilon)=0$ ,  $E(\varepsilon\varepsilon')=0$ 

where

- x is a vector of observable exogenous causes.
- y is a vector of observable endogenous indicators.
- $\Gamma$  and  $\Lambda$  are arrays of coefficients
- $\zeta$  is a random disturbance with variance  $\sigma^2$
- is a vector of random disturbances, uncorrelated with  $\zeta,$  with covariance matrix  $\theta$

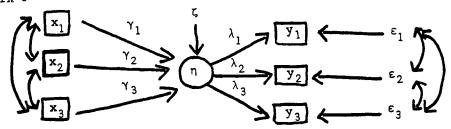


Figure 1.--A hypothetical model with three causes and three indicators of a latent variable.

<sup>6/</sup> See for example. Joreskog, K. G. and Goldberger, A. S., "Estimation of a Model with Multiple Indicators and Multiple Causes of a Single Latent Variable," JASA, September 1975, Vol. 70, No. 351, pp. 631-639.

or Jöreskog, K. G. and Sörbom, D., <u>Advances in Factor Analysis and Structural Equation</u> <u>Models</u>, Abt Associates Inc., 1979, pp. 92-93.

In our case, the causes (X variables) are assumed to be exogenous and include functional limitations and demographic factors. The Y variables include limitations in ability to work and to get around.

Our goal is to obtain estimates for the structural parameters,  $\Gamma$ , which can be used for the formation of a disability index. In order to obtain these estimates, we have used LISREL IV, the maximum likelihood estimation software developed by Jöreskog and Sörbom. 7/

#### Specification of Variables

The source data for the estimation of the disability index is the Social Security Administration's 1978 Survey of Disability and Work. 8/ This is a national survey of noninstitutionalized adults age 18-64 as of June 1978. The sample is comprised of 9,859 completed interviews of which 9,199 were used for this study.

<sup>7/</sup> Jöreskog, K. G. and Sörbom, D., <u>LISREL IV</u>, <u>Analysis of Linear Structural</u> Relationships by the Method of Maximum Likelihood, National Educational Resources Inc., 1978.

<sup>8/</sup> For a detailed discussion of the research design for the 1978 Survey, see Bye, B. V. and Schechter E., 1978 Survey of Disability and Work, Technical Introduction, SSA Publication No. 13-11745, January, 1982.

The values for the X and Y variables were obtained from responses to questionnaire items obtained by personal interview. The specific instrumentation used is given in Appendix A.

## Functional Limitations $(X_1 - X_{10})$ .--

The functional limitation variables are obtained from responses to questions 30a of Section C of the questionnaire where a response of YES was assigned the value 1 and NO the value zero. Variables  $X_1 - X_{10}$  then are assigned values according to the responses to the following questions.

Do you have trouble when you--

- X1. Walk for long distances?
- X2. Use stairs or inclines?
- X3. Stand for long periods?
- X4. Sit for long periods?
- X5. Stoop, crouch or kneel?
- X6. Reach?
- X7. Use fingers to grasp or handle?
- X8. Lift or carry something as heavy as 10 lbs., such as a 10 pound sack of potatoes?
- X9. Lift or carry something as heavy as 25 lbs., such as 2 full bags of groceries?
- X10. Lift or carry something as heavy as 50 lbs.?

It should be noted that all survey respondents were not asked the full set of functional limitation questions.  $\underline{9}/$  Only responses for  $X_6$  and  $X_7$  were obtained when the respondent was in a wheelchair or bedridden. Also, if a respondent reported difficulty lifting or carrying a specific weight, it was assumed that such difficulty also existed for larger weights. Thus if  $X_8$  was coded 1, then  $X_9$  and  $X_{10}$  were also coded 1 (and similarly for  $X_9$  and  $X_{10}$ ).

<sup>9/</sup> See check item C.4., Appendix A, and the skip patterns for question 30.a. (8) and (9) on the same page.

## Demographic Variables (X<sub>11</sub> - X<sub>16</sub>).--

The demographic variables were scored as follows:

- X11. Sex l=male, O=female
- X12. Age, in 10's of years
- X13. Marital status 1=married, 0=otherwise
- X14. Race 1=white, 0=otherwise
- X15. Education; highest grade completed in 10's of years

## Psychological Distress (X<sub>16</sub>).--

The psychological distress score was essentially obtained from the psychiatric rating scale presented by Singer et. al. 10/ as part of the Midtown Manhattan restudy. Although there is still some dispute about the specific concept captured by this scale, it is generally agreed that it is not a measure of the severity of clinical psychiatric disorder, but rather reflects undifferentiated psychological distress or demoralization. 11/ There was some minor change in wording for ease of administration, and the question requiring the interviewers rating of the respondents tension level was dropped (compare the instrumentation in Appendix A to Table 1 of the source in footnote 9).

With the exception of the deleted question, the regression coefficients and scoring method developed by Singer et. al. were retained.

<sup>10/</sup> See Table 1 in Singer, E. et. al., "Replicating Psychiatric Ratings Through Multiple Regression Analysis: The Midtown Manhattan Restudy, Journal of Health and Social Behavior, 1976, Vol. 17 (December): 376-387.

<sup>11/</sup> See the discussion in Biscoe, Sandra D., "Self-Perceived Work Disability and Psychological Distress," ORS Research Report, forthcoming.

#### Indicator Variables

The disability indicators were obtained from responses to questions 29c - 29g of Section C and question la of Section C of the 1978 survey questionnaire. These responses were coded to form 5 indicator variables as follows:

- Yl. Do you have to stay in a chair or wheelchair all or most of the time?
- Y2. Are you usually able to get out of doors by yourself? 1=No 0=Yes
- Y3. Are you usually able to use public transportation, such as buses and trains by yourself? 1=No 0=Yes
- Y4. Does your physical or mental condition normally prevent you from driving a car? 1=Yes 0=No  $\frac{12}{}$
- Y5. Does your health or condition limit the kind or amount of work you can do?

  1=Yes 0=No

Respondents who indicated in questions 29a or 29b, that they had to stay in bed all or most of the time or could not wash and dress themselves were excluded from the sample because of the presumed 13/ non-stochastic relationship of the response to the other responses in question 29. Thus the index developed below can only be used to assign disability status scores to persons who can at least get out of bed and wash and dress themselves.

<sup>12/</sup> A code of 1 was assigned only to those individuals with drivers licences and responding yes to this question.

13/ See the skip pattern of questions 29a and 29b in Appendix A.

#### Model Specification

Using the variables specified above, two models with disability as an unobserved variable are estimated. Figure 2 presents the standard MIMIC model (Model I) with  $\eta$  as the disability variable. Variable  $X_1$  thru  $X_{16}$  are the assumed causes and variables  $Y_1-Y_5$  the indicators of disability. Note in particular that  $X_{16}$ , psychological distress is assumed to be exogenous. Algebraically we have

$$\eta = \sum_{i=1}^{16} \gamma_i X_i + \zeta$$

$$Y_j = \lambda_j \eta + \varepsilon_j, \quad j=1,...,5$$

All disturbances are assumed to be normally distributed with zero expected values. A full covariance matrix for the  $\epsilon_j$  is assumed.  $\underline{14}/$ 

In order to insure that Model I was identified, it was necessary to fix two of the model parameters.  $\underline{15}/$  The variance on  $\zeta$  was set equal to 0.1. Also the value of  $\lambda_5$  was set equal to 0.1.

<sup>14/</sup> Model I and II were also estimated assuming that the  $\varepsilon$ ; were uncorrelated. The estimates of  $\Gamma$  and  $\Lambda$  were not sensitive to this assumption; however, there did seem to be a large increase in the goodness-of-fit statistic. Only the results assuming a full covariance matrix are presented here.

<sup>15/</sup> See the discussion in Hauser and Goldberger, "The Treatment of Unobservable Variables in Path Analysis," in H. L. Costner, ed., Sociological Methodology 1971, San Francisco: Gossey-Boss, 1971, ch. 4, 81-177.

### MODEL I

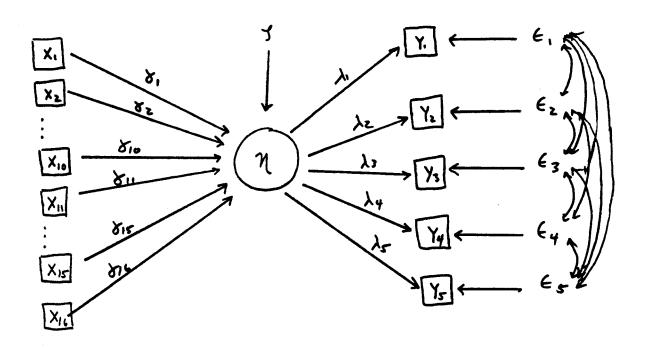


Figure 2.--MIMIC model of disability assuming that  $\mathbf{x}_{16}$ , psychological distress, is exogeneous.

Model II differs from Model I in that psychological distress and disability are assumed to be jointly dependent. This model structure is diagrammed in figure 3. Algebraically we have

$$\eta_{1} = \beta_{1} \eta_{2} + \sum_{i=1}^{15} \gamma_{i} X_{i} + \zeta_{1}$$

$$\eta_{2} = \beta_{2} \eta_{1} + \sum_{i=1}^{5} \gamma_{15+i} X_{10+i} + \zeta_{2}$$

$$Y_{j} = \lambda_{j} \eta_{1} + \varepsilon_{j}, \quad j=1,...,5$$

$$Y_{6} = (X_{16}) = \eta_{2} + \varepsilon_{6}, \quad \varepsilon_{6} \equiv 0$$

In terms of structural equations, this model says that disability  $(\eta_1)$  is determined by psychological distress  $(\eta_2)$  plus the other X variables. (This is the same equation as in Model I.) Psychological distress is determined by disability and the demographics (sex, race, etc.). Disability status is indicated by the five Y variables (as in Model I). Psychological distress is perfectly indicated by  $Y_6 = X_{16}$ , the psychiatric rating score.

In order that Model II be identified, it is assumed that the disturbances,  $\zeta_1$ , and  $\zeta_2$ , on the structural equations are uncorrelated in addition to fixing the values of  $\lambda_5$  and the variance of  $\zeta_1$ , as in Model I.

#### Results

Models I and II were estimated from the 1978 Survey data. The sample means and covariance matrix are shown in Appendix B. 16/ Tables 1 and 2 show the estimates for Models I and II respectively.

<sup>16</sup>/ The covariance matrix was weighted to account for the stratified multistage cluster design.

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Figure 3.--MIMIC model of disability assuming simultaneity between disability and pschological distress.

The estimates of the structural parameters for Model I indicate that the presence of any functional limitation increases the size of the disability index as expected. Also disability scores are higher for males, older persons, the unmarried, whites, the less educated and those persons scoring higher on the psychological distress scale. It should be noted, however, that the standard errors for the race and education coefficients were quite large in comparison to the absolute value of the coefficients.

The association between level of disability and the indicators  $(\lambda j)$  are also all positive as expected.

In Model II, the coefficients for the structural equation for disability,  $\eta_1$ , are remarkably similar to those of Model I. All coefficients (including that of the psychological distress) have about the same sizes and signs. Concerning the psychological distress equation, level of disability contributes positively to psychological distress, but all the demographic factors contribute negatively. Thus for a given level of disability, lower psychological distress is associated with males, older ages, married persons, whites and the more educated. 17/

All other estimates of parameters for Model II were quite similar to those of Model I.

 $<sup>\</sup>underline{17}/$  These results are quite similar to those found by Biscoe. See the reference cited in footnote 11.

#### Validation of the Index

In order to obtain some information about the values of the disability index in the general population, the structural equation for Model I was used to score each of the sample persons in the 1978 survey. Finite population estimates were then obtained for the relationships between disability score and self-perception of disability, work status and SSA disability program beneficiary status. These results are presented in tables 3 and 4, again only for those persons who said that they were able to get out of bed and wash and dress themselves. The mean score for the index was 3.11 (standard deviation of 2.46) for the 121 million adults age 18-64. As shown in the first two columns of table 3 the distribution of scores has a pronounced heaping under a score of 4 with a pronounced right tail to the distribution.

The next 4 columns of table 3 show the distribution of self-perceived disability status conditional on disability score. The dichotomy between the nondisabled and the disabled (last 2 columns) is essentially indicator variable Y5. Severely disabled persons said that they were unable to work at all as opposed to the partially disabled who said that they were limited in the kind or amount of work they could do but still able to work. The table shows the expected result of a shift toward severe disability in the conditional distributions as the disability index increases.

Table 4 shows the conditional relationships between index score and work and beneficiary status. As expected, the proportion of persons not working and the proportion on the beneficiary rolls increases as the index score increases.

#### Problems With the Estimation of Models I and II

Certain assumptions of the LISREL measurement model are violated in the previous analysis. It is clearly inappropriate for the binary indicator variables,  $Y_1 - Y_5$ , to be specified as linear functions of a continuous variable,  $\eta$ . This misspecification might indicate significant departures from normality in the Y's and makes interpretation of the test statistics produced by the programs—the individual t values and the overall goodness of fit  $X^2$ —problematic. Mutheń 18/ has proposed a structural probit model for dichotomous indicator variables; but his estimation approach requires the assumption of local independence—that is, that the  $Y_1$ 's are independent given the level of the unobserved variable. This may not be as appropriate here as it is in psychometric contexts.

The large value of the goodness of fit statistic relative to the degrees of freedom is some cause for concern. Having allowed for estimation of the full covariance matrix of  $\epsilon_j$ , this lack of fit is attributable to the structural equation itself. It is certainly possible that additional causal variables should be part of the structural equation; but it is also not unreasonable to presume that the unobserved variable, disability status, should be multi-dimensional. These issues will require additional thought on conceptual as well as statistical grounds.

In addition, there is the question of the presumed exogeniety of the functional limitations. As described in the introduction, functional limitations are the consequence of disease and impairment and thus are in fact endogenous in a larger recursive model involving disease, impairment, and perhaps other unobserved factors which are also related to disability status. That they are self-reported is also cause for concern.

<sup>18/</sup> Muthen, B. "A Structural Probit Model with Latent Variables," JASA, 1979, 807-811.

Finally, in estimating Model I, we tried several pairs of values of the fixed parameters in the model, that is the variance of  $\zeta$  and  $\lambda_5$ . While the estimates of the structural parameters,  $\Gamma$ , were qualitatively insensitive to these alterations, some combinations of fixed values resulted in negative estimates of variance for the  $\varepsilon$ 's. The importance of this anomaly for the interpretation of the results or the use of LISREL IV methodology is not known beyond the above stated misspecifications.

#### Conclusion

The primary purpose of the above analysis was to condense the information about disability contained in the X and Y variables into a single index, rather than to test a model. As an index of disability, the values of n make sense; the coefficients have correct signs, and the index agrees well with the indicators of disability in tables 3 and 4 and, thus, the methodology used seems to have been quite successful.

The next step in our development of disability indices will probably be in conjunction with SSA's Study of Impairment and Potential DI Eligibles. 19/ This study will contain a program of medical examinations and an assessment of work disability by an expert panel as well as the usual kinds of personal interview instrumentation. The LISREL methodology used in this analysis is a leading candidate for use in the construction of disability indices from the new study.

<sup>19/</sup> Nagi, S., SSA Study of Impairment and Potential DI Eligibles, research design under SSA Contract No. 600-80-0101.

TABLE 1.--Mode $\dot{i}$  I parameter estimates

A. Structural equation  $\eta = \gamma_1 x_1 + \gamma_2 x_2 + ... + \gamma_{16} x_{16} + \zeta$ 

Matrix Γ

vari	<u>Name</u>	<u>Y</u>	Standard Error
1.	Walk for long distances	1.22	.11
2.	Use stairs or inclines	1.23	.11
3.	Stand for long periods	.67	.10
4.	Sit for long periods	.59	. 10
5.	Stoop, crouch or kneel	.66	.10
6.	Reach	.62	.14
7.	Use fingers to grasp or handle	1.24	.13
8.	Lift or carry 10 lbs.	1.56	. 14
9.	Lift or carry 25 lbs.	.84	.11
10.	Lift or carry 50 lbs.	. 30	.07
11.	Male	.48	.06
12.	Age, tens of years	.17	.02
13.	Married	21	.06
14.	White	.16	.08*
15.	Education, tens of years	08	.09*
16.	Psychological distress	. 29	.02

<sup>\*</sup>Absolute value of  $\Upsilon$  less than 2 standard errors.

TABLE 1.--Model I parameter estimates--continued

В.	Measurement	Equations:	$Y_{j}^{=\lambda}j^{\eta+\epsilon}j$ ,	j=1,,5

Matrix  $\Lambda$ 

Y vari		<u>Name</u>		<u>λ</u> 0027	Standard error
2.	Stay in chair o Not able to get	outdoors	. •	.0022	.0006
3. 4.	Not able to use Not able to dri		tation	.0150 .0071	.0008 .0007
5.		kind or amount o	of work	.1000	
Cov	ariance Matrix o	f $arepsilon_{f i}$ (Standard $arepsilon$	errors in paren $arepsilon_3$	ntheses) $\Theta$	€5
	$\epsilon_1$	-2	<b>3</b>	4	- 5
$\epsilon_1$	.0083 (.0001)				
ε <sub>2</sub>	.0007 (.0001)	.0185 (.0003)			
. <sup>ε</sup> 3	.0078 (.0002)	.0179 (.0003)	.0373 (.0006)		
$\epsilon_{\mathtt{4}}$	.0019 (.0002)	.0004 (.0002)	.0019 (.0003)	.0256 (.0004)	
€ <sub>5</sub>	.0013 (.0003)	.0010 (.0004)	.0038 (.0005)	.0011 (.0005)	.0702 (.0011)

Overall goodness of fit  $X^2 = 212.2$  with 60 degrees of freedom.

TABLE 2.--Model II parameter estimates

A. Structural equations  $\begin{aligned} & n_1 = \beta_1 \, n_2 + \gamma_1 \, \mathbf{x}_1 + \dots + \gamma_{15} \, \mathbf{x}_{15} + \zeta_1 \\ & \text{Matrices } \Gamma \text{ and } \beta \end{aligned}$   $\begin{aligned} & n_2 = \beta_2 \, n_1 + \gamma_{16} \, \mathbf{x}_{11} + \dots + \gamma_{20} \, \mathbf{x}_{15} + \zeta_2 \end{aligned}$ 

		Equation	on for $\eta_1$	Equation	on for n <sub>2</sub>
X var	iables Name	Coefficient	Standard error	Coefficient	Standard error
1.	Walk for long distances	1.23	.08	·	
2.	Use stairs or inclines	1.24	.09		
3.	Stand for long periods	.87	.08		
4.	Sit for long periods	.74	.08		
5.	Stoop, crouch or kneel	.54	.08		
6.	Reach	.57	.11		
7.	Use fingers to grasp or				
• •	handle	1.35	.10		
8.	Lift or carry 10 lbs.	1.22	.11		
9.	Lift or carry 25 lbs.	.67	.09		
10.	Lift or carry 50 lbs.	.55	.06		
11.	Male	.53	.06	27	.03
12.	Age, tens of years	.17	.02	09	.01
13.	Married	23	.06	26	.04
14.	White	.13	.08*	32	.05
15.	Education, tens of years	08	.09*	95	.06
16.	(n2) psychological distress	(β <sub>1</sub> ) .26	.02		
17.	(η <sub>1</sub> ) disability status			(β <sub>2</sub> ) .37	.01

<sup>\*</sup>Absolute value of  $\gamma$  less than 2 standard errors.

B. Covariance Matrix of  $\zeta_1$  and  $\zeta_2$  (Standard error of the variance of  $\zeta_2$ , in parenthesis).

TABLE 2.--Model II parameter estimates--continued

measu	rement equa		=λj <sup>n</sup> 1+εj, = =n <sub>2</sub> +ε <sub>6</sub> , ε <sub>6</sub> =0				
Matri	ж Г	(St	andard erro	rs in pare	nthesis)		
		η <sub>1</sub>	n <sub>2</sub>				
$\lambda_1$		0027 0004)					
$\lambda_2$		0022 0006)					
λ <sub>3</sub>		0148 0008)					
λμ		0070 0007)					
$\lambda_5$	. 1	Į.					
λ <sub>6</sub>	<del></del>	<b></b>	1				
Covar	iance matri	$x$ of $\epsilon_i$ (S	tandard err	ors in par	enthesis)-	-0	
	$\epsilon_1$	$\epsilon_2$	$\varepsilon_3$	$\epsilon_{\mathtt{4}}$	€5	٤6	
$\epsilon_1$	.0083 (.0001)						
	0007						
$\epsilon_2$	.0007 (.0001)	.0185 (.0003)					
ε <sub>2</sub>			.0374 (.0006)	,			
	.0001)	.0179		.0256 (.0004)			
ε3	.0078 (.0002)	(.0003) .0179 (.0003) .0004	(.0006) .0019		.0704 (.0011)		

TABLE 3.--Disability scores crossed by self-perceived disability status

	1.1	Severely disabled	100.0	1.9	8.0	10.9	14.2	29.3	26.0	9.7
	Vertical percent	Partially S disabled o	100.0	6.8	22.8	22.0	21.3	17.5	8.1	1.5
ility	Ve	Non- disabled	100.0	54.4	34.2	7.7	2.6	6.0	0.3	0.0
Self-perceived disability		Severely disabled	0.9	0.2	1.5	7.1	16.7	42.3	61.0	80.0
Self-per	Horizontal percent	Partially disabled	9.6	1.4	7.0	22.9	39.8	40.2	30.2	20.0
	Horizonta	Non- disabled	. 4.48	98.4	91.5	70.0	43.5	17.5	8.8	0.0
		Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		Percent of population	100.0	46.6	31.5	9.2	5.1	4.2	2.6	7.
		Number of persons	121,205,671	56,512,925	38, 194, 864	11,204,122	6,228,517	5,059,005	3,116,577	889,663
		Score	Total	<2	2-3.99	4-5.99	6-7.99	8-9.99	10-11.99	12 and over

Mean score 3.11 Standard deviation 2.46

TABLE 4.--Percent working and percent in beneficiary status by score

			Work Status	sn		
		Horizontal percent	percent	Vertical	percent	
Score	Tota1	Working N last week	Not working last week	Working last week	Not working last week	
Total	100.0	63.6	36.4	100.0	100.0	
<2	100.0	4.69	30,6	50.9	39.1	
2-3.99.	100.0	68.2	31.8	33.8	27.5	
4-5.99	100.0	55.6	44.4	8.1	11.3	
	100.0	52.7	47.3	4.3	6.7	
8-9.99	100.0	27.1	72.9	1.8	8.4	
10–11.99	100.0	25.4	74.6	1.0	5,3	
12 and over	100.0	11.5	88.5	0.1	1.8	
		o to the contract of the contr	Beneficiary Status	y Status	oo cont	
		Horizontal percent	percent	Vertical	rence	
Score	Total	Non- Beneficiary	Beneficiary	Non- Beneficiary	y Beneficiary	
Total	100.0	7.76	2.3	100.0	100.0	•
<2	100.0	100.0	0.0	47.7	8.0	
2–3.99	100.0	66°3	0.7	32.0	6.6	
4-5.99.	100.0	7.86	1.6	9,3	6.6	
6-7.99	100.0	94.3	5.7	5.0	12.8	
10 11 00	100.0	84.1	9,CI	0.0	1,67	
10-11.99	100.0	73.9	26.1	1.9	29.6	
	0.001	0.00	33.0	C.U	11.3	

Form Approved: O.M.B. No. 72-S77007

	FORM DIS-100 (3-2-78)  U.S. DEPARTMENT OF COMMER BUREAU OF THE CENSUS	CE	law (title 13, U.	report to the Census Bu S. Code) and may be us be seen only by sworn sed to anyone without yo	sed only for statistical Census employees and
	1978 DISABILITY SURVE	ΞΥ	1. Interviewer's	name	Code
12				Sample person n (Enter new addre	ot at address given ess below)
PGM				Address (Number and	d street)
				City	
				State	ZIP code
	2. RECORD OF CALLS	3. RECORD OF INTERVIEW	Reco	DESCRIPTION OF Control ord all comments and nation in the "Notes"	specified
	Telephone number	Began	10	ample person responde	
	Best time to call	a.m. p.m.	3	] Sample person refus ] Sample person is de	
	Date Time a.m. p.m.	Ended	4 🗆	] Sample person move ] Unable to contact sa	
	a.m. p.m. a.m. p.m.	a.m. p.m. Date completed		Sample person is ins Record name and addr and expected release	ess of institution,
	a.m. p.m.	(001) / / 78	7 [		
	Notes		003		
			004)		
	-				

I	_	Section A - FAMILY B	ACKGROUND - Co	ntinu	ed				
		NAME — Last name first  What are the names of all persons who are living or staying here?  List all persons living here and all persons who usually live here who are absent.  Be sure to INCLUDE infants under I year of age.  Exclude persons with a usual residence elsewhere.	What is's relationship to (name of sample person)?  Example: wife, s daughter-in-law, brother-in-law, lodger, etc.	con,	SEX Enter code  1 - Male 2 - Female				AGE
	Line number			щ			5.		
$\dashv$	Ë	1ь.		OFFICE USE		Month	Оау	Year	_
PGM 3	1a. I	Last First	3. SAMPLE PERSON	0 ⊃	4.	Σ	a	<b>.</b>	6.
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
		have listed (Read names in 1b.).							
		- Any babies or small children?		🗆	Yes		] No		
		- Any lodgers, boarders, or persons in your employ	who live here?	🗀	[ ID an	d └	Νο		
		- Anyone who usually lives here but is away at preat at school, or in a hospital?	• • • • • • • • • • • • • • • • • • • •				] No		
		- Anyone else staying here?		• • □	Yes		No		

		Sect	ion A - FAMIL	Y BACKGROUND -	- Continue	ed			
Enter for each F member 18+ yea		RACE (HAND	ETHNICITY (HAND	FOR HOUSEHOL	_D MEMB	ERS 18 Y	EARS OF	OLDE	ER, ASK:
MARITAL STATI		RESPOND- ENT FLASH-	RESPOND- ENT FLASH-	What is the highest grade of	Did finish	Did ever			in I2a
Is now married widowed, divorced, separated, or never married?	,	CARD No. 1) What is the race of?	CARD No. 2) What is the origin or	regular schoolhas attended?  Never attended or	this grade?	serve on active duty in	In what was active o	. on	How many months was on active
If married, is spou present or absent? Enter code 1 - Married, spouse present 2 - Married, spouse		Enter code from flash- card No. I	descent of?  Enter code from Flash- card No. 2	Kindergarten (00)  Elem (01-08)  High (09-12)  College (21-26)	Enter code 1 - Yes 2 - No	the U.S. Armed Forces? Enter code	Enter lo digits o entered year le	f year and	duty altogether?
absent  3 - Widowed						1 - Yes 2 - No			
4 - Divorced 5 - Separated	ICE	,					12	ь.	
6 - Never married 7.	OFFICE USE	8.	9.	10.	11.	12a.	FROM	то	12c.
								<del></del>	
	-								
·									
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	lacksquare								
Notes									

		Section A - FAMILY B	ACKGROUND - Co	ntinu	ed				
	)er	NAME — Last name first  What are the names of all persons who are living or staying here?  List all persons living here and all persons who usually live here who are absent.  Be sure to INCLUDE infants under I year of age.  Exclude persons with a usual residence elsewhere.	What is's relationship to (name of sample person)?  Example: wife, s daughter-in-law, brother-in-law, lodger, etc.	on,	SEX Enter code  1 - Male 2 - Female				AGE
	number						5.		
_	Line	1 <b>6.</b>		OFFICE USE		Month		ā	
2	1a.	Last First	3.	o S	4.	Σ	Day	Year	6.
PG₩ 3	10		SAMPLE PERSON						
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
		have listed (Read names in 1b.).	<u> </u>	<b>!</b>	L	·	i		
		ave I missed:							
		- Any babies or small children?		🗀	Yes ]		No		
		— Any lodgers, boarders, or persons in your employ	who live here?	🗆	l in an	d L	No		
		<ul> <li>Anyone who usually lives here but is away at pre at school, or in a hospital?</li> </ul>	sent traveling,	••□	Yes proce with (	<b>^</b> 2	No		
		— Anyone else staying here?			Yes		No		

Enter for each HM member 18 y years  MARITAL STATUS 1s now married, wildowed, diverced, separated, or never married?  If married, is spouse present or obsent? Enter code 1 - Married, spouse present are obsent? Enter code 3 - Wildowed 4 - Divorced 5 - Separated 6 - Never married 7,			Sect	ion A - FAMIL	Y BACKGROUND -	- Continue	ed .			
MARITAL STATUS 1snow married, suppose present or observed, separated, or never married? 1f married, spouse present or June 1s the code of never married or 1s with the code of never married or 1s were an entired or 1s were at the code of never married or 1s were an entired or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of never married or 1s were at the code of					FOR HOUSEHO	LD MEMB	ERS 18 Y	EARS OF	OLDE	R, ASK:
5 - Separated 6 - Never married 7,	MARITAL STATURES now married widowed, divorced, separated, or never married? If married, is spous present or absent? Enter code 1 - Married, spouse present 2 - Married, spouse absent 3 - Widowed	JS I,	RESPOND- ENT FLASH- CARD No. 1) What is the race of? Enter code from flash-	RESPOND- ENT FLASH- CARD No. 2) What is the origin or descent of ? Enter code from Flash-	highest grade of regular school has attended?  Never attended or Kindergarten (00)  Elem (01-08)  High (09-12)	finish this grade?  Enter code  1 - Yes 2 - No	ever serve on active duty in the U.S. Armed Forces? Enter code	In what was active of digits of entered	year on luty?  sst 2 f year and	How many months was on active duty
	5 - Separated	CE						12	ь.	
		OFFI USE	R.	9.	10.	11.	120.	FROM	то	12c.
	Notes									

PGM 4

Section B - LABOR FORCE AND WORK EXPERIENCE					
1. What were you doing most of LAST WEEK —  Working?  Keeping house?  Going to school?  or something else?	1  Working — SKIP to 2b 2  With a job but not at work 3  Looking for work 4  Keeping house 5  Going to school 6  Unable to work — SKIP to 24a 7  Illness — In Doctor's care 8  Volunteer work 9  Retired 10  Other — Specify				
2a. Did you do any work at all LAST WEEK, not counting work around the house?	006 1  Yes 2  No - SKIP to 3				
b. How many hours did you work LAST WEEK at all jobs?	Hours - SKIP to 5a				
If "with a job but not at work" in QI — SKIP to 4					
3. Did you have a job or business from which you were temporarily absent or on layoff LAST WEEK?	008 1  Yes 2  No - SKIP to 17				
	1 Own illness 2 On vacation 3 Bad weather 4 Labor dispute 5 New job to begin within 30 days—SKIP to 18b and 19b 6 Temporary layoff (Under 30 days)—SKIP to 19c 7 Indefinite layoff (30 days or more or no def. recall date)—SKIP to 19c 8 Other—Specify				
5a. For whom did you work in your main job?	Name of company, business, organization, or employer				
b. What kind of business or industry is this?	(10)				
For example: TV and radio manufacturer, retail shoe store, State Labor Department, farm					
c. What kind of work were you doing?	(1)				
For example: electrical engineer, typist, laborer, etc.					
d. What were your most important activities or duties?	1   				
For example: typing, filing, selling cars, finishing concrete					

Section B - LABOR FORCE AND WORK EXPERIENCE - Continued						
5e. Did you work for —	012	A private company, business, or individual for wages, salary, or commission? — SKIP to 6a  The Federal Government — SKIP to 6a  A State, county, or local government? — SKIP to 6a  Yourself (Self-employed) in own business, professional practice, or farm?				
	! ! !	Is the business incorporated? (If farm, mark "No" without asking) 4  Yes — SKIP to 6a				
	1 1	5 No - SKIP to 7 6 Working without pay in family business or farm - SKIP to 7				
6a. What are your usual total earnings per week at this job BEFORE DEDUCTIONS?	013	\$ 00 per week				
b. How much do you earn per hour BEFORE DEDUCTIONS at this job?	014)	\$ per hour    Dollars   Cents				
7. How many hours a week do you USUALLY work at this job?	015)	Hours				
8. How many weeks do you USUALLY work either full time or part time at this job each year? Include paid vacations and paid sick leave.	016	Weeks				
9. How long have you worked at this job?	017)	1  Less than 6 months 2  6-II months OR				
	018	Years				
10. Are you a member of a labor union on this job?	019	1  Yes 2  No				
Notes	<u>i</u>					

	Section B - LABOR FORCE AND WORK EXPERIENCE - Continued					
11.	Which of these things do you have to do as part of your job duties on this job?		For each "Yes,"	'ask:	 	
	Do you have to —	1	A lot?	Sometimes?	No/Never?	
	Walk?	020	1	2 🗌	3	
	Use stairs or inclines?	021	1	2	3 🔲	
	Stand for long period?	022	1	2	3 🔲	
	Sit for long periods?	023	1	2	3 🗌	
	Stoop, crouch, or kneel?	024	1	2	3	
	Reach?	025	1	2 🔲	3 🔲	
	Mark box 3 Suse eyes for inspection of things?	026	1 🔲	2 🔲	3 🗌	
	asking if blind Use eyes for reading?	027	1	2	3 🗀	
	Use fingers to grasp or handle?	028	1 🔲	2 🗀	3 🗆	
	Lift or carry weights as heavy as 50 pounds?	029	1 □ - SKIP to	2 □ - SKIP to	з 🗀	
	Lift or carry weights as heavy as 25 pounds (such as two full bags of groceries)?	030	1 SKIP to	2	3 🗍	
	Lift or carry weights as heavy as 10 pounds (such as a 10 lb. bag of potatoes)?	(031)	1 🗀	2	3 🗍	
12.	Last week, did you have another job or business even if you didn't work at it?	032	1  Yes 2  No – SKIP	to 26, page 11		
13.	Was this second job for —	1				
	If he has more than I additional job, ask about the MAIN additional job.	033		ompany, business, salary, or commissi		
		1	2 The Federa	ıl Government? – SK	(IP to 14a	
		i L	3 A state, co SKIP to 140	unty, or local gover	nment? —	
		1 1 }		elf-employed) in ow il practice, or farm?		
		:	•	ness incorporated?		
		! !	• • • •	rk "No" without as	king)	
		; ; [	4 <u> </u>	SKIP to 14a SKIP to 15		
		1 	6 Working with farm? - Sk	thout pay in family l	business or	
14a.	What are your usual total earnings per week at this job BEFORE DEDUCTIONS?	(34)	\$	. <b>90</b> per week		
ь.	How much do you earn per hour BEFORE	(035)				
	DEDUCTIONS at this job?		\$	· per hour		
		! !	x Don't know	-		
15.	How many hours a week do you USUALLY work at	(036)				
	this job?		ho	urs		

Section B - LABOR FORCE AND WORK EXPERIENCE - Continued				
16a. How many weeks do you USUALLY work either full time or part time at this job each year? Include paid vacations and paid sick leave.	Weeks			
b. How long have you worked at this job?	1 Less than 6 months 2 General Amonths OR  SKIP to 26			
	Years J			
☐ If "looking for work" in QI — SKIP to 18a  17. Have you been looking for work during the past 4 weeks?	040 1 — Yes 2 — No – SKIP to 23			
18a. What have you been doing in the last 4 weeks to find work? (Mark ALL methods used; do not read list.)	Checked with —  1 Public employment agency 2 Private employment agency 3 Employer directly 4 Friends or relatives 5 Placed or answered ads 6 Nothing — SKIP to 26 7 Other — Specify			
b. Why did you start looking for work? Was it because you lost or quit a job at that time (pause) or was there some other reason?	1  Lost job 2  Quit job 3  Left school 4  Wanted to work 5  Health interfered with work on old job 6  Wanted different job 7  Needed the money 8  Other — Specify			
INTERVIEWER - If you skipped from question 4 to 18b, SKIP to 19b.  19a. How many weeks have you been looking for work?	Weeks — SKIP to 20a			
b. How many weeks ago did you start looking for work?	(045) Weeks - SKIP to 20b			
c. How many weeks ago were you laid off?	Weeks - SKIP to 20c			
Notes				

	Section B - LABOR FORCE AND	WORK	EXPERIENCE - Confinued
20a.	Have you been looking for full-time or part-time work?	047	1 $\square$ Full time (35 or more hours a week) 2 $\square$ Part time (less than 35 hours a week) to 21 a
Ь.	Will your new job be full or part time?	048	1 $\square$ Full time (35 or more hours a week) $SKIP$ 2 $\square$ Part time (less than 35 hours a week) to 21b
c.	Are you laid off from a full- or part-time job?	049	Full time (35 or more hours a week)  SKIP  Part time (less than 35 hours a week)  to 21c
21a.	What kind of work or occupation have you been looking for?	050	SKIP to 22
ь.	What kind of work or occupation will your new job be?	(051)	SKIP to 22
c.	What kind of work or occupation are you laid off from?	<b>(052)</b>	
22.	Is there any reason why you could not take a job LAST WEEK?  If "Yes," ask "Why was that?"	(053) *	1  Yes - Why? 2  Already has a job 3  Temporary illness  SKIP
	•	\$ 	4 Going to school  5 Other - Specify

	Section B - LABOR FORCE AND WORK EXPERIENCE - Continued							
23.	What are the reasons you haven't been looking for work?  Do not read list; mark all that apply  Follow skip instruction for lowest numbered box marked	054 * 055 * 057 *	1					
24a	. If your health got better, do you think you would want to go to work?	058	1 Yes 2 No - SKIP to 26 3 Health will never get better - SKIP to 26					
Ь	. If you found a job you like, what is the lowest pay you would accept?	059	\$per hour  OR					
		660	\$ OR per week					
		(61)	\$ 00 per year  x \( \sum \) Would not accept work under any conditions \( -\)  SKIP to 26					
25a	. If you found a job you like, how many hours per week would you want to work?	062	Hours					
b	. How many weeks per year would you want to work?	063	Weeks					
26.	During an average 24 hour day, how much time do you spend —	 	Time spent (in hours) Total time need NOT equal 24 hours					
	(1) Sleeping at night?	064	Hours					
	(2) Sleeping or napping during the day?	(065)	Hours					
	(3) On personal care (such as eating, bathing, and dressing)?	066						
	(4) Exercising?		Hours					
	During 1977, that is last year, did you do any work at all, not counting work around the house?	068	1					
1	o. How many employers did you work for last year?	069	Number					
	CHECK Refer to 5a-e, pages 6 and 7 of section B	070	<ul> <li>Job described in Q.5a-5e (currently employed) –         Ask 28a</li> <li>All others – SKIP to 29a</li> </ul>					

Section B - LABOR FORCE AND WORK EXPERIENCE - Continued							
	Was the main job you had last year for the same employer as your main job last week?	071	1				
b. \( \)	Were your job duties any different?	072	1				
	What kind of work were you doing last year at this job?	073)					
	What were your most important activities or duties ast year at this job?	† 	SKIP to 30a				
29a. I	For whom did you work at your main job in 1977?	 	Name of company, business, organization, or employer				
(	What kind of business or industry is this? (For example: TV and radio mfg., retail shoe store, State Labor Dept., farm)	074					
	What kind of work were you doing? (For example: electrical engineer, typist, laborer, etc.)	075					
	What were your most important activities or luties? (For example: typing, filing, selling cars, finishing concrete)	 					
e. I	Did you work for —	(076)	A private company, business, or individual for wages, salary, or commission? — SKIP to 30a  The Federal Government? — SKIP to 30a  A State, county, or local government? — SKIP to 30a  Yourself (self-employed) in own business, professional practice, or farm?/  Is the business incorporated? (If farm, mark "No" without asking)  4  Yes — SKIP to 30a  5  No — SKIP to 31  Working without pay in family business or farm? — SKIP to 31				
30a. [	During 1977, what were your usual total earnings per week at this job BEFORE DEDUCTIONS?	<b>077</b>	\$ 00 per week				
	During 1977, how much did you earn per hour BEFORE DEDUCTIONS at this job?	078	\$ per hour  Dollars Cents  X Don't know				
31. [	During 1977, how many hours a week did you JSUALLY work at this job?	<b>079</b>	Hours				
Notes							

Section B - LABOR FORCE AND WORK EXPERIENCE - Continued							
32. During 1977, how many weeks did you work either full time or part time at this job? Include paid vacations and paid sick leave.	080	w	/eeks				
CHECK ITEM B-2  Refer to Q.28b, page 12 of section B.	(081)		28b — SKIP to 35 Bb — SKIP to 36a — Ask 33				
33. How long did you work at this job?	082) 1 Less than 6 months 2 6-   months OR						
·	083		_Years				
34. Were you a member of a labor union on this job?	084	1  Yes 2  No					
35. Which of these things did you have to do	1	For each "Yes,	" ask:				
as part of your job duties on this job?	i !	A lot? S	ometimes?	No/Never?			
Did you have to —  Walk?	(085)	1 🔲	2 🗀	3 🗀			
Use stairs or inclines?	i	1 🗀	2	з 🗀			
Stand for long periods?	i —	1 🔲	2	3 🗀			
Sit for long periods?		1	2 🔲	3 🗀			
Stoop, crouch, or kneel?	089	1 🗀	2	3 🗌			
Reach?	-	1 🔲	2	э 🗀			
Use fingers to grasp or handle?		1 🗀	2 🗌	3 🗀			
Mark box 3 Use eyes for inspection of things?		1 🔲	2 🔲	3 🗀			
asking if Use eyes for reading?	093	1	2 🗌	3 🗌			
Lift or carry weights as heavy as 50 pounds?	094	1 □ - SKIP to 36a	<sup>2</sup> □ − SKIP to 36a	3 🗌			
Lift or carry weights as heavy as 25 pounds?	095	1 □ - SKIP to 36a	2 ☐ - SKIP to 36a	3 🗍			
Lift or carry weights as heavy as 10 pounds?	096		2	3 🗌			
Notes							

<u></u>	Section B - LABOR FORCE AND WORK EXPERIENCE - Continued						
36a.	Did you have any other jobs in 1977 AT THE SAME TIME you were working at the job we just talked about?	097	1  Yes 2  No – SKIP to 37				
ь.	During 1977, in how many weeks did you work either full or part time at this other job? Include paid vacations and paid sick leave. If more than one additional job ask about the main additional job).	098	Weeks				
c.	During 1977, how many hours a week did you USUALLY work at this other job?	099	Hours				
d.	How long did you work at this other job?	(10) (101)	1 ☐ Less than 6 months 2 ☐ 6—II months OR  Years				
e.	During 1977, what were your usual total earnings per week at this other job BEFORE DEDUCTIONS?	102	\$ Do per week  o Nothing — SKIP to 37				
f.	During 1977, how much did you earn per hour BEFORE DEDUCTIONS at this other job?	103	\$ per hour  Dollars Cents  X Don't know  O Nothing				
37.	During 1977, how many different weeks did you work either full time or part time at ALL jobs not counting work around the house? Include paid vacations and paid sick leave.	104	If less than 26   weeks — Ask 38   If 26 weeks or more —   SKIP to CI-B-3				
	What were you doing most of 1977 — looking for work, keeping house, going to school, or something else?  Mark one	105	Looking for work — SKIP to 40  Keeping house  Going to school  Unable to work — SKIP to CI-B-3  Nolunteer work  Retired  Other — Specify				
39.	Did you look for work at any time during 1977?	106	1  Yes 2  No – SKIP to CI-B-3				
	Why did you start looking for work? Was it because you lost or quit a job at that time (pause) or was there some other reason?  Do not read list; mark all that apply.	107	1 Lost job 2 Quit job 3 Left school 4 Wanted temporary work 5 Health interfered with work on old job 6 Wanted different job 7 Needed the money 8 Wanted full time work 9 Wanted part time work 10 Other - Specify				
	About how many weeks did you look for work during 1977?	(109)	Weeks				

Section B - LABOR FORCE AND	WORK EXPERIENCE - Continued
CHECK Refer to item 7, page 3 of section A.	1 Sample person married, spouse present -Ask 42 2 All others - SKIP to CI B-4, page 16
42a. Now I want to ask some questions about your spouse's activities. Did she/he do any work at all LAST WEEK, not counting work around the house? NOTE: If farm or business operator in h.h., ask about unpaid work.	111) 1  Yes - SKIP to 42d 2  No
b. Even though she/he didn't work last week, does she/he have a job or business from which she/he was temporarily absent or on layoff?	112) 1  Yes 2  No - SKIP to 45
c. Why was she/he absent from work LAST WEEK?	1 Own illness 2 On vacation 3 Bad weather 4 Labor dispute 5 New job to begin within 30 days — SKIP to 45 6 Temporary layoff (under 30 days) — SKIP to 45 7 Indefinite layoff (30 days or more or no definite recall date) — SKIP to 45 8 Other — Specify
d. Does she/he have one job or more than one job?	1 One job 2 More than one job
43. What are her/his usual total earnings per week at her/his job(s) BEFORE DEDUCTIONS?	o □ Nothing
44a. How many hours a week does she/he USUALLY work at her/his job(s)?	(116) Hours
b. How many different weeks per year does she/he USUALLY work either full time or part time at this/ these job(s)? Include paid vacations and paid sick leave.	(117) Weeks
c. How long has she/he worked at this job?	1 Less than 6 months 2 General Householder OR  SKIP to 46
	Years
45. What was she/he doing most of last week —— looking for work, keeping house, going to school, or something else?	1 Looking for work 2 Keeping house 3 Going to school 4 Unable to work 5 Illness — In doctor's care 6 Volunteer work 7 Retired 8 Other — Specify
46. How long have you been married to?	(121) x : Less than I year Years

Section B - LABOR FORCE AND WORK EXPERIENCE - Continued								
CHECK Refer to Q 5a—5e, page 6 of Section B	1 Entries in 5a-5e (currently employed) - SKIP to 54a 2 All others - Go to 47							
47. When did you last work at a job or business lasting 2 consecutive weeks or more?	1							
48a. For whom did you work?	Name of company, business, organization, or employer							
CHECK Refer to 29a, page 12 and 48a above	Same employer in 29a (employer last year) AND 48a (last employer) — SKIP to Q53  2 All others — Ask 48b							
48b. What kind of business or industry was this? (For example: TV and radio manufacturer, retail shoe store, State Labor Department)	(125)							
c. What kind of work were you doing? (For example: electrical engineer, typist, laborer, etc.)	126							
<ul> <li>d. What were your most important activities or duties? (For example: typing, filing, selling cars, finishing concrete)</li> </ul>	 							
e. Did you work for —  49a. What were your usual total earnings per week at this job BEFORE DEDUCTIONS?  b. How much did you earn per hour BEFORE	1 A private company, business, or individual for wages, salary, or commission? — SKIP to 49a  2 The Federal Government? — SKIP to 49a  3 A State, county, or local government? — Skip to 49a  Yourself (self-employed) in own business, professional practice, or farm?  Is the business incorporated?  (If farm, mark "No" without asking)  4 Yes — SKIP to 49a  5 No — SKIP to 50  6 Working without pay in family business or farm? — SKIP TO 50							
DEDUCTIONS at this job?	\$ per hour    Dollars   Cents   Cents							
50. How many hours a week did you USUALLY work at this job?	(30) Hours							
Notes								

	Section B - LABOR FORCE AND WORK EXPERIENCE - Continued								
51a. How many weeks did you USUALLY work either full time or part time at this job each year? Include paid vacations and paid sick leave.		(131)	Weeks						
ь.	How long did you work at this job?	(132)	Less than 6 months  Color of the color of th						
		133	Years						
52.	Were you a member of a labor union on this job?	(134)	1  Yes 2  No						
	Why did you leave this job? Any other reason?  Do not read list; mark all that apply	135)	Health problems  Went to school  Family demands (includes pregnancy)  Retirement or old age  Temporary job						
		137	6 Lay off 7 Unsatisfactory work (hours, pay, etc.) 8 Fired from job 9 To find a different job 10 Company or business closed or moved 11 Other - Specify						
54a.	During the past year and a half, that is since January 1, 1977, have you done any volunteer work on a regular basis?	138	1 ☐ Yes 2 ☐ No — SKIP to Section C, page 18						
ь.	What kind of work were you doing? (For example: typing, elementary school teacher's aid, hospital aid, fund raiser) (If more than 1, enter MAIN kind of work.)	139							
c.	What were your most important activities or duties? (For example: typing, assisting elementary school teachers, distributing pamphlets)	  -  -  -							
d.	How long have you been doing (did you do) this particular kind of volunteer work?	140	1 ☐ Less than 6 months 2 ☐ 6—11 months OR						
		141	Years						
e.	How many hours a week do (did) you USUALLY do this kind of volunteer work?	142	Hours						
f.	How many weeks would (did) you USUALLY do this kind of volunteer work in a year?	143	Weeks						
Not	es	144							
		(145)							
}   									
		147							
		148							

Section C - HEALTH CONDITIONS							
Now I would like to ask you some questions	(149)	1 Asthma					
about your health.	*	2 🔲 Tuberculosis					
Show Flashcard No. 3	1	3 Chronic bronchitis					
	1	4 Emphysema					
la. Which of the following conditions or illnesses		5 Hardening of the arteries (arteriosclerosis)					
do you have NOW that a DOCTOR has told you about?		6   High blood pressure (hypertension)					
Interviewer read list	(150)	7 Heart attack (coronary)					
	*	8 Stroke					
Mark all that apply		9 Any other heart trouble					
	į	10 Tumor, cyst or growth					
	(151)	1 t Cancer					
•	*	12 Any other chronic lung trouble					
	İ	13 Chronic gallbladder or liver trouble					
	(152)	14 Stomach ulcer					
	*	15 Any other chronic stomach trouble					
	į	16 Kidney stones or chronic kidney trouble					
	(153)	17 Arthritis or rheumatism					
	*	18 Mental illness					
	İ	19 Nervous or emotional problems					
	(154)	20 Mental retardation					
		21 Diabetes					
	l t	22 Thyroid trouble or goiter					
	(156)	23 Epileptic seizures or convulsions					
	(155)	24 Multiple sclerosis					
	í I	25 Alcohol or drug problems					
	050	26 Hernia or rupture					
	(156)	27 Deafness or serious trouble hearing					
	!	28 Blindness, that is, no usable vision					
	(157)	29 Difficulty seeing well enough to read ordinary					
	*	newsprint, even with glasses on					
		30 Missing legs or feet					
	i	31 Missing arms, hands, or fingers					
	158	32 Broken bones					
	*	33 Chronic stiffness or any deformity of the foot,					
	! 	leg, arm or hand  34  Chronic stiffness or deformity of the back					
		or spine					
	159	35 Other trouble with back or spine					
	*	36 Paralysis of any kind					
		37 Chronic severe allergy					
	(160)	38 None of the above					
b. Do you have any (other) conditions that a	(161)	1 Tes - Ask Ic					
doctor has told you about?		2 □ No = SKIP to 2					
What are about	1	2 140 - 5077 60 2					
c. What are they?	(162)						
	1 .						
	(163)						
	(164)						
	1						

Section C - HEALTH CONDITIONS - Continued						
2a. Do you have any conditions that a doctor has not told you about, but that you know you have?	1 Yes 2 No - SKIP to Check Item CI					
b. What are they?	(166)					
	(67)					
	168					
CHECK ITEM C1	1 Condition(s) listed in la-2b - Ask Q 3-5 2 No conditions listed - SKIP to II, page 28					
Notes	170					
	(17)					
	(172)					
	173					
	174					
	•					

Section C - HEALTH CONDITIONS - Continued								
3a. When did your (read condition) first begin to bother you?	175)	CONDITION - 1	186	CONDITION – 2				
	176	1 Since birth — SKIP to next condition or item 6	187	Since birth — SKIP to next condition or item 6				
	177	Year — If 1977 or 1978, ask month	188	Year — If 1977 or 1978, ask month				
h la day 1	(178)	Month	(189)	Month				
b. Is that when you first became aware of your (read condition)?	179	1 Yes - SKIP to 4 2 No - Ask c	190	1 Yes - SKIP to 4 2 No - Ask c				
c. When did you first become aware of your (read condition)?	180	Year — If 1977 or 1978, ask month	(191) (192)	Year — If 1977 or 1978, ask month				
4a. Was this condition caused by an accident or injury on a job?	182	1 Yes-SKIP to next condition or 6 2 No		Month  1 Yes-SKIP to next condition or 6 2 No				
		3 Don't know		3 Don't know				
b. Was this condition caused by bad working conditions, such as noise, heat, or smoke?	183	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	194	1 Yes-SKIP to next condition or 6 2 No 3 Don't know				
5a. Was it the result of an accident or injury away from a job?	184)	1 Yes - Ask b 2 No - SKIP to next condition or 6	195	1 Yes - Ask b 2 No - SKIP to next condition or 6				
b. Where did it happen?	185	1  In a motor vehicle 2  Own home	196	1  In a motor vehicle 2  Own home				
Notes		3 Some other place		3 Some other place				
Notes								

(197)	CONDITION - 3	208	CONDITION - 4	219	CONDITION - 5
198	Since birth - SKIP to next condition or item 6	209	1 Since birth — SKIP to next condition or item 6	220	1 Since birth — SKIP to next condition or item 6
(199) (200)	Year — If 1977 or 1978, ask month  Month	(210) (211)	Year — If 1977 or 1978, ask month	(221) (222)	Year — If 1977 or 1978, ask month  Month
201	1 Yes - SKIP to 4 2 No - Ask c	212	1 Yes - SKIP to 4 2 No - Ask c	223	1 Yes - SKIP to 4 2 No - Ask c
202 203	Year — If 1977 or 1978, ask month ——— Month	213 214	Year — If 1977 or 1978, ask month Month	(224) (225)	Year — If 1977 or 1978, ask month ————————————————————————————————————
204	1 Yes — SKIP to next condition or 6 2 No 3 Don't know	(215)	1 Yes — SKIP to next condition or 6 2 No 3 Don't know	226	1 Yes — SKIP to next condition or 6 2 No 3 Don't know
205)	1 Yes - SKIP to next condition or 6 2 No 3 Don't know	216	1 Yes - SKIP to next condition or 6 2 No 3 Don't know	227	1 Yes - SKIP to next condition or 6 2 No 3 Don't know
206	1 Yes — Ask b 2 No — SKIP to next condition or 6	217	1 Yes - Ask b 2 No - SKIP to next condition or 6	228	1 Yes — Ask b 2 No — SKIP to next condition or 6
207	1 In a motor vehicle 2 Own home 3 Some other place	218)	1 In a motor vehicle 2 Own home 3 Some other place	229	1 In a motor vehicle 2 Own home 3 Some other place
Notes					

Section C - HEALTH CONDITIONS - Continued						
3a. When did your (read condition) first begin to bother you?	230	CONDITION - 6	(21)	CONDITION - 7		
	<del> </del>	1 Since birth - SKIP to	(241)			
	(231)	next condition or item 6	242	1 Since birth — SKIP to next condition or item 6		
	232	Year — If 1977 or 1978, ask month	243	Year — If 1977 or 1978, ask month		
	233	Month	244	Month		
b. Is that when you first became aware of your (read condition)?	234	1 Yes - SKIP to 4 2 No - Ask c	245)	1 Yes - SKIP to 4 2 No - Ask c		
c. When did you first become aware of your (read condition)?	(235)	Year 16 1077		•		
	(236)	Year — If 1977 or 1978, ask month	(246)	Year — If 1977 or 1978, ask month		
4a. Was this condition caused by an accident or injury on a job?	(237)	1 Yes-SKIP to next condition or 6	(247)	Month  1 Yes - SKIP to next condition or 6		
accident of injury on a long		2 No 3 Don't know		2  No		
b. Was this condition caused by bad working conditions, such as noise,	(238)	1 Yes-SKIP to next condition or 6	(249)	3 Don't know  1 Yes-SKIP to next condition or 6		
heat, or smoke?		2 No 3 Don't know		2 No		
5a. Was it the result of an accident or injury away from a job?	(239)	1 Yes - Ask b	(250)	3 Don't know  1 Yes - Ask b		
		2 No - SKIP to next condition or 6		2 No - SKIP to next condition or 6		
b. Where did it happen?	(240)	1 In a motor vehicle 2 Own home	251	1 In a motor vehicle		
Notes		3 Some other place		2 Own home 3 Some other place		
Notes		•				
_						

	Section C - HEALTH CONDITIONS - Continued					
252	CONDITION - 8	263	CONDITION - 9	274)	CONDITION - 10	
253	1 Since birth — SK/P to next condition or item 6	264)	1 Since birth — SKIP to next condition or item 6	275)	1 Since birth — SKIP to next condition or item 6	
(254) (255)	Year — If 1977 or 1978, ask month	265) 266)	Year — If 1977 or 1978, ask month	(276) (277)	Year If 1977 or 1978, ask month	
256	1 Yes - SKIP to 4 2 No - Ask c	267)	1 Yes - SKIP to 4 2 No - Ask c	278	1 Yes — SKIP to 4 2 No — Ask c	
257 258	Year — If 1977 or 1978, ask month Month	268 269	Year — If 1977 or 1978, ask month  Month	279 280	Year — If 1977 or 1978, ask month Month	
259	1 Yes - SKIP to next condition or 6 2 No 3 Don't know	270	1 Yes — SKIP to next condition or 6 2 No 3 Don't know	281)	1 Yes - SKIP to next condition or 6 2 No 3 Don't know	
260	1 Yes - SKIP to next condition or 6 2 No 3 Don't know	271	1 Yes - SKIP to next condition or 6 2 No 3 Don't know	282	1 Yes - SKIP to next condition or 6 2 No 3 Don't know	
261)	1 Yes — Ask b 2 No — SKIP to next condition or 6	272	1 Yes - Ask b 2 No - SKIP to next condition or 6	283	1 Yes — Ask b 2 No — SKIP to next condition or 6	
262	1 In a motor vehicle 2 Own home 3 Some other place	273	1 In a motor vehicle 2 Own home 3 Some other place	284)	1 In a motor vehicle 2 Own home 3 Some other place	
Notes					·	
			•			

Section C - HEALTH CONDITIONS - Continued				
3a. When did your (read condition) first begin to bother you?		CONDITION - 11	296	CONDITION - 12
	285)	1 Since birth — SKIP to next condition or item 6	297	1 Since birth — SKIP to next condition or item 6
	287	Year — If 1977 or 1978, ask month	298	Year — If 1977 or 1978, ask month
	(288)	Month	299	Month
b. Is that when you first became aware of your (read condition)?	289	1 Yes - SKIP to 4 2 No - Ask c	300	1 Yes - SKIP to 4 2 No - Ask c
c. When did you first become aware of your (read condition)?	290 291	Year — If 1977 or 1978, ask month ———— Month	301 302	Year — If 1977 or 1978, ask month
4a. Was this condition caused by an accident or injury on a job?	292	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	303	1 Yes - SKIP to next condition or 6 2 No 3 Don't know
b. Was this condition caused by bad working conditions, such as noise, heat, or smoke?	293	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	304)	1 Yes-SKIP to next condition or 6 2 No 3 Don't know
5a. Was it the result of an accident or injury away from a job?	294)	1 Yes - Ask b 2 No - SKIP to next condition or 6	305)	1 Yes - Ask b 2 No - SKIP tonext condition or 6
b. Where did it happen?	295)	1 In a motor vehicle 2 Own home 3 Some other place	306)	1 In a motor vehicle 2 Own home
Notes		3 Some other place		3 Some other place
			•	-
,				

	Secti	on C –	HEALTH CONDITIONS - Contin	ued	
307)	CONDITION - 13	318	CONDITION = 14	329	CONDITION - 15
308	1 Since birth - SKIP to next condition or item 6	319	1 Since birth — SKIP to next condition or item 6	330	1 Since birth — SKIP to next condition or item 6
309	Year — If 1977 or 1978, ask month	320	Year — If 1977 or 1978, ask month	(331)	Year — If 1977 or 1978, ask month
(310)	Month	(321)	Month	(332)	Month
311	1 Yes - SKIP to 4 2 No - Ask c	322	1  Yes — SKIP to 4 2  No — Ask c	333	1 Yes - SKIP to 4 2 No - Ask c
(312) (313)	Year — If 1977 or 1978, ask month	323 324	Year — If 1977 or 1978, ask month	334 335	Year — If 1977 or 1978, ask month
314)	Month  1 Yes-SKIP to next condition or 6 2 No 3 Don't know	325	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	336	1 Yes-SKIP to next condition or 6 2 No 3 Don't know
315)	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	326	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	337	1 Yes-SKIP to next condition or 6 2 No 3 Don't know
316	1 Yes - Ask b 2 No - SKIP to next condition or 6	327	1 Yes — Ask b 2 No — SKIP to next condition or 6	338	1 Yes - Ask b 2 No - SKIP to next condition or 6
317)	1 In a motor vehicle 2 Own home 3 Some other place	328	1  In a motor vehicle 2  Own home 3  Some other place	339	1  In a motor vehicle 2  Own home 3 Some other place
Notes		<u> </u>			
1					

Section C - HEALTH CONDITIONS - Continued  3a. When did your (read condition)  CONDITION 14					
340	CONDITION - 16	351	CONDITION - 17		
341	1 Since birth — SKIP to next condition or item 6	352	1 Since birth — SKIP to next condition or item 6		
342	Year — If 1977 or 1978, ask month	353	Year — If 1977 or 1978, ask month		
(343)	Month	354	Month		
344	1 Yes - SKIP to 4 2 No - Ask c	355	1 Yes - SKIP to 4 2 No - Ask c		
345	Year — If 1977 or 1978, ask month	356	Year — If 1977 or 1978, ask month		
(346)	Month	357	Month		
347	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	358	1 Yes-SKIP to next condition or 6 2 No 3 Don't know		
348	1 Yes-SKIP to next condition or 6 2 No 3 Don't know	359	1 Yes-SKIP to next condition or 6 2 No 3 Don't know		
349	1 Yes - Ask b 2 No - SKIP to next condition or 6	360	1 Yes - Ask b 2 No -SKIP to next condition or 6		
350	1  In a motor vehicle 2  Own home	361)	1  In a motor vehicle 2  Own home		
	3 Some other place		3 Some other place		
	340 341 342 343 344 345 346 347 348	CONDITION - 16  340  341	CONDITION - 16  340  341  1 Since birth - SKIP to next condition or item 6  342  Year - If 1977 or 1978, ask month 343  Month  344  1 Yes - SKIP to 4 2 No - Ask c  345  Year - If 1977 or 1978, ask month 356  346  Month  357  347  1 Yes - SKIP to next condition or 6 2 No 3 Don't know  348  1 Yes - SKIP to next condition or 6 2 No 3 Don't know  349  1 Yes - Ask b 2 No - SKIP to next condition or 6 2 No - SKIP to next condition or 6 2 No - SKIP to next condition or 6 2 No - SKIP to next condition or 6 359  350  1 In a motor vehicle 2 Own home		

362	CONDITION - 18	(373)	CONDITION - 19	384)	CONDITION - 20
363)	1 Since birth - SKIP to	(373) (374)	1 Since birth - SKIP to	(385)	1 Since birth - Skip to 6
<del></del>	next condition or item 6	(	next condition or item 6	) (	
364)	Year — If 1977 or 1978, ask month	(375)	Year — If 1977 or 1978, ask month	(386)	Year — If 1977 or 1978, ask month
365) 366)	Month	(376) (377)	Month SKID to 4	(387)	Month  1
300)	1  Yes — SKIP to 4 2  No — Ask c	31)	1 Yes — SKIP to 4 2 No — Ask c		2 No - Ask c
367)	Year _ If 1977 or	(378)	Year = If 1977 or	389	Year _ If 1977 or
368	1978, ask month	379	1978, ask month  Month	390	1978, ask month Month
369	1 Yes - SKIP to next condition or 6	380	1 Yes-SKIP to next condition or 6	391	1 Yes - Skip to 6
	2 No 3 Don't know		3 Don't know		3 Don't know
370	1 Yes-SKIP to next condition or 6 2 No	381)	1 Yes-SKIP to next condition or 6	(392)	1 Yes - Skip to 6
_	3 Don't know		3 Don't know		3 Don't know
371)	1 Yes - Ask b 2 No - SKIP to next condition or 6	(382)	1 $\square$ Yes $=$ Ask b 2 $\square$ No $=$ SKIP to next condition or 6	(393)	1  Yes - Ask b 2  No - Skip to 6
372)	1 In a motor vehicle	383	1 In a motor vehicle 2 Own home	394)	1  In a motor vehicle 2  Own home
	2 Own home 3 Some other place		3 Some other place		3 Some other place
lotes					
		÷			

Section C - HEALTH CONDITIONS - Continued						
6. When was the last time you were in the hospital	AL IN CO	NDITIONS - Cont	inved			
overnight for your (read condition(s)?	395		Month			
	396		Year - If bet SKIP	fore 1977,		
		x 🔲 Don't kn	ow	10 9		
7. How many nights was that?		99 🗌 Never 🗕	SKIP to 9			
7. How many hights was that?						
	(397)	× Don't kn	Nights ow			
8a. Since January 1, 1977, how many times have						
you been in a hospital overnight for your (read condition(s)?	398		_ Time(s) - If SK	once, IP to 9		
b. You mentioned the last time. When was/were the		× 🔲 Don't kn	ow			
time(s) before that?	1	Month	Year	Number of nights		
c. How many nights were you in that time?	399	(1)				
Interviewer - continue to ask h and c until	400	(2)		(404)		
all hospital stays are recorded.	401	(3)				
0 W	402	(4)	-			
<ol> <li>When was the last time you saw a doctor for your (read condition(s))? (Do not count the times you were a patient overnight in a hospital)</li> </ol>	407 408 409 410		Days ago Weeks ago Months ago Years ago			
0. How often do you see a doctor for your conditions?		x ☐ Never — S If more than 2 ye	KIP to 11	o 11.		
	412 413 414	<del></del>	Per week Per month Per year nce a year			
<ol> <li>About your health now, would you say it is excellent, good, fair, or poor?</li> </ol>	415)	1 Excellent 2 Good 3 Fair 4 Poor				
2. Do any of the following bother you enough to be a problem?	416)	Weakness or Tiredness, lo Shaky hands Muscle spass Pain None of the a				
TEM C2			" marked in 12	- Ask 13		
RM DIS-100 (3-2-78)		/	JIGH 10 13			

Section C - HEALTH CONDITIONS - Continued						
13. Where do you have the pain?	: !		Left	Right	Both	
Anywhere else?  Mark all that apply	* (418)	ı 🔲 Hip	2	3	4	
ייים אייים	* (19)	1 🔲 Knee	2	3	4 🔲	
	* (420)	1 Ankle	2	3	4 🗀	
	* (421)	1 Shoulder	2	3	4 🗀	
	* (422)	1 Elbow	2 🗀	3	4	
	* (423)	1 Wrist or hand	2	3	4	
	* (424)	1 Leg	2	3	4	
	* (425)	1 Arm	2 🔲	3	4	
	* (426)	ı 🦳 Foot	2	3	4	
	* (427)	1 Side	2 🗌	3	4	
	428	1 🔲 Back				
	429	1 Neck				
	430	1 Abdomen				
	431	1 Chest				
	432	1 Head				
	433	1 Eyes				
	(434)	1 Other - Specif	У			
CHECK	435)	1 [ ''Chest'' mark	ed in 13 <i>— A</i>	sk 14		
ITEM C3		2 All others — S	KIP to 15			
14a. Is this a burning chest pain?	436	1  Yes 2  No				
b. Is it a pressing pain?	(437)	1  Yes				
		2 No				
c. Is it brought on by work or exercise?	438	1 Yes				
d. Does it get better when you rest?	1 (120)	2 No				
The second of th	(439)	1 Yes 2 No				
e. Is it brought on by nervous tension?	440	ı 🗌 Yes				
	-	2 No				
f. How often do you have chest pains?	441	1 All of the time 2 Most of the time				
	1	3 Every once in				
15. Does swelling in any part of your body bother you enough to be a problem?	442	1 Tes	. 7	· <del></del>		
, , , , , , , , , , , , , , , , , , , ,	1	2 No - SKIP to	17			

	Section C - HE	ALTH C	ONDITIONS - Continu	ed		
16	Where do you have the swelling?     Anywhere else?	1		Left	Right	Both
	Mark all that apply	* 443	) 1 🗀 Hip	2	3	4 🗀
		* 444	) 1 🗌 Knee	2	3 🔲	4 🔲
		* 445	) 1 🗌 Ankle	2	3 🔲	4 🗀
		* 446	1 Shoulder	2 🗀	3	4
		* 447	1 🔲 Elbow	2	3 🔲	4
		* 448	1 Wrist or hand	2	3 🔲	4 🗀
		* (449)	1 Leg	2 🔲	3	4
		* (450)	1 Arm	2 🗀	3	4 🗀
		* (451)	1 Foot	2	3	4 🔲
		452	1 🔲 Back			
		453	1 🔲 Neck			
		454	1 Abdomen			
		455	1 Chest			
		456	1 🗌 Other - Specify	y		
17.	Does stiffness in any part of your body bother you enough to be a problem?	457	1 Tes			
			2 No - SKIP to 1	9		
8.	Where do you have the stiffness? Anywhere else?			Left	Right	Both
	Mark all that apply	* (458)	1 🔲 Hip	2	3 🔲	4 🗀
		* (459)	1 Knee	2 🔲	3 🔲	4
		* (460)	1 🔲 Ankle	2	3	4
		* (461)	1 🗀 Shoulder	2	3	4
		* (462)	1 Elbow	2	3 🗌	4
		* (463)	1 Mrist or hand	2 🗌	3	4 🗀
		* (464)	1 🗀 Leg	2	3	4
		*(465)	1 Arm	2	3 🔲	4
		466	1 🔲 Back			
		467	1 Neck			
·.	In the cord 12 and 14 and 15 a	(468)	1 Other - Specify			
	In the past 12 months have you had a loss of appetite for a month or more?	(469)	1 Yes 2 No			
).	If the respondent is wearing glasses, check "Yes," then Ask 21. Do you wear glasses?	470	1  Yes 2  No - SKIP to 22			
•	Do you have trouble seeing even with your glasses?	471)	1  Yes 2  No			
•	Do you regularly take insulin or orinase?	<b>472</b> )	1 Yes			
317			2 No			

Section C - HEALTH CONDITIONS - Continued						
23.	In the past 12 months, have you had chemotherapy or radium treatment?	473	1 Yes 2 No			
24.	In the past 12 months, have you had any surgery?	474	1  Yes 2  No - SKIP to 26a			
	What was it for? Anything else?  Mark all that apply	(475) *	Lung  Heart  Kidney  Bladder  Tumor or cancer  Flain  Colostomy  Amputation  Other — Specify			
26a.	Have you smoked at least 100 cigarettes (5 packs) in your entire life?	477	1  Yes 2  No - SKIP to 29a			
Ь.	Do you smoke cigarettes now?	478	1 Tyes 2 No – SKIP to 28a			
27.	On the average, about how many cigarettes a day do you smoke?	479 480	cigarettes packs SKIP to 29a			
28a.	When did you stop smoking?	481	19 Year x  Never smoked regularly — SKIP to 29a			
ь.	On the average how many cigarettes did you smoke a day?	482	cigarettes packs Never smoked regularly			
29a.	I would like to ask you some questions about your ability to get around.  Do you have to stay in bed all or most of the time?	484	1 Yes - SKIP to Check Item C-4 2 No			
Ь.	Can you get out of bed and wash and dress yourself?	485	1 Yes 2 No - SKIP to Check Item C-4			
с.	Do you have to stay in a chair or wheelchair all or most of the time?	486	1			
d.	Are you usually able to get out of doors by yourself?	487	1  Yes 2  No			
•	Are you usually able to use public transportation such as buses and trains by yourself?	488	1			
f.	Do you have a driver's license?	489	1  Yes 2 No - SKIP to Check Item C-4			
g	Does your physical or mental condition normally prevent you from driving a car?	490	1			
Note	·					

· · · · · · · · · · · · · · · · · · ·	וועאט	IONS - Continued		
CHECK ITEM C-4	491)	Respondent or bedridden 2 All others —	- Ask (6) & (7)	only
30a. Do you have trouble when you —	 	If "Yes," Ask b	trouble	have a lot of doing this, some trouble?
	 		A lot	Some
(1) Walk for long distances?	492	1	3 🗀	4
(2) Use stairs or inclines?	493	1  Yes	3 🗍	4 🗆
(3) Stand for long periods?	494)	1	3 🗀	4 🗆
(4) Sit for long periods?	495)	¹	3 🗀	4 🗆
(5) Stoop, crouch or kneel?	496	1	3	4 🗆
(6) Reach?	497)	1 ☐ Yes → 2 ☐ No	3 🗀	4 🗆
(7) Use fingers to grasp or handle?	498	1	3 🗌	4
(8) Lift or carry something as heavy as 10 pounds such as a 10 pound sack of potatoes?	<b>499</b>	1	3 🗌 SKIP to 31a	4 [] SKIP to 31a
(9) Lift or carry something as heavy as 25 lbs., such as 2 full bags of groceries?	<b>500</b>	1	3 [] SKIP to 31a	4 🗌 SKIP to 31a
(10) Lift or carry something as heavy as 50 pounds?	501)	1 ☐ Yes → 2 ☐ No	3 🗀	4
otes				

Section C - HEALTH CONDITIONS - Continued						
31a. Do you ever use any aids to help you get around or to function better, such as crutches, wheelchair, braces, hearing aids, or anything else?	502) 1 ☐ No — SKIP to Section D, page 34 2 ☐ Yes					
31b. Do you use (Read list)	Yes No					
Wheelchair?	503 ¹ □ 2 □					
Braces?	504 1 □ 2 □					
Crutches, canes?	(\$05) 1 □ 2 □					
Artificial limbs?	506 1 <u> </u>					
Guide dog?	507 ¹ □ ² □					
Hearing aid?	508 1 🗆 2 🗀					
Anything else? Specify	<b>509</b> 1 □ 2 □					
Notes	(510)					
	(SI)					
	(512)					
	(513)					
	514					

	Section D - ATTITUDINAL DATA							
	Now I'd like to ask you about your health and personal feelings.							
	When you go out, do you usually prefer to go out by yourself?	(515)	1  Yes . 2  No					
Ь.	Do you feel somewhat alone even when you are with friends?	<b>(516)</b>	1  Yes 2  No					
	Do you sometimes feel that people are against you without any good reason?	<b>(517)</b>	1					
d.	To avoid arguments, do you usually keep your opinions to yourself?	<b>(518)</b>	1  Yes 2  No					
e.	Do you sometimes drink more than is good for you?	<b>(519)</b>	1  Yes 2  No					
	DO NOT ASK OF PERSONS WHO CANNOT WALK — Skip to 1g							
	Do you have periods of such great restlessness that you cannot sit long in a chair?	(520)	1  Yes 2  No					
g.	Have you had periods of weeks or months when you couldn't take care of things because you couldn't get going?	(521)	1					
h.	Are you bothered by acid or sour stomach several times a week?	<b>522</b>	1					
i.	Do you often have a hard time making up your mind about things you should do?	523	1  Yes 2  No					
į٠	Did you ever have a nervous breakdown?	524	1  Yes 2  No					
2a.	Do you ever have any trouble in getting to sleep?	525)	Yes - Would you say -  1 Often OR 2 Sometimes? 3 No					
Ь.	Are you ever bothered by shortness of breath when you are not exercising or working hard?	526	Yes — Would you say -  1  Often OR 2  Sometimes? 3  No					
c.	Are you ever bothered by nervousness?	527	Yes — Would you say —  1					
d	Are you ever worried by loneliness?	528	Yes — Would you say — 1					
3.	Do you ever have spells of dizziness?	529	Yes — Would you say —  1  Often OR 2  Sometimes?					
Fo	RM DIS-100 (3-2-78)	<u> </u>						

Section D - ATTITUDINAL DATA - Continued					
4. Do you ever have fainting spells? —	Yes — Would you say —  1 Often OR 2 Sometimes? 3 No				
Please tell me if you agree or disagree with the following — 5a. Certain kinds of places make you tense, such as high buildings, tunnels, or bridges.	531) 1 Agree (Yes) 2 Disagree (No)				
b. You have personal worries that get you down physically.	(532) 1 Agree (Yes) 2 Disagree (No)				
c. Grief and sorrow are for kids but not for adults.	1 Agree (Yes) 2 Disagree (No)				
d. Behind your back, people say all kinds of things about you.	1  Agree (Yes) 2  Disagree (No)				
CHECK ITEM D-1  OBSERVATION  Has another person prompted 3 or more of the previous responses in Section D?	(535) 1  Yes 2  No				
Notes	<b>(536)</b>				
	(537)				
	538				
	539				
	540				
	•				

	Section E - WORK LIMITATIONS					
	Now I want to ask you how your health affects your work activities.					
1a.	Does your health or condition limit the kind or amount of work you can do?	(541)	1 Yes 2 No - SKIP to Ic			
ь.	Does your health or condition keep you from working altogether?	542	1 Yes - SKIP to 2a 2 No - SKIP to 1d			
c.	Does your health or condition limit the kind or amount of work you can do around the house?	543	1 Yes - SKIP to 2b 2 No - SKIP to 5a			
d.	Are you now ABLE to do the same KIND of work you did before your work limitation began?	544	1 Yes 2 No 3 Never worked			
e.	Are you now ABLE to work full time or can you work only part time?	545)	1 Full time 2 Part time			
f.	Are you now ABLE to work regularly or can you only work occasionally or irregularly?	(546)	Regularly     Occasionally or irregularly			
	You've told me that you have (Read conditions recorded in Section C, Q.I, page 18 and Q.2, page 19)	 	Enter condition code from Section C, Q. I or 2 or Specify			
2a.	Which of your health conditions is the main reason your work activities are limited?	547				
		548	SKIP to Check			
		549				
	You've told me that you have (Read conditions recorded in Section C, Q.1, page 18 and Q.2, page 19)	 	Enter condition code from Section C, Q. I or 2 or Specify			
Ь.	Which of your health conditions is the main reason you can't do as much work around the house as you did before?	550				
	Detore:	(551)				
		(552)				
	Refer to Q. 3a, page 20 of Section C	(553) (554)	Month Year  Enter date when main condition bothered respondent			
3.	You told me your (main condition above) began to bother you in (refer to Check Item E-I). When did it begin to limit your ability to work?	(555) (556)	Month Year			
4.	Do you expect this condition to improve within the next few years so that it will no longer be a problem for your working?	(557)	Yes  SKIP to Check Item E-2  Don't know			
5a.	Did your health or condition EVER limit the kind or amount of work (or work around the house) you could do?	<b>(558)</b>	1			
Ь.	How old were you when the limitation began?	(559)	Years old			
<b>c</b> .	How long did this limitation last?	560	Months			
		(561)	Years SKIF 10 27			

Section E - WORK LIMITATIONS - Continued						
CHECK ITEM E2	Section B, page 16) – SKIP to 27  2 All others – Ask 6					
6a. Were you employed at the time your health limited your ability to work?	(563) 1 ☐ Yes 2 ☐ No — SKIP to 27					
b. Did your employer do anything to help you out so that you could stay at work?	564) 1 — Yes — Ask c 2 — No — SKIP to 7					
c. What did he do?  Mark all that apply. Do not read.	1 Got someone to help me 2 Changed job to something I could do 3 Helped me learn new skills 4 Shortened my work day 5 Changed time I came to and left work 6 Allowed me more breaks and rest periods 7 Got me special equipment for the job 8 Arranged special transportation 9 Other - Specify					
7. At the time your health started to limit your ability to work, did you stay with the same employer?	567) 1  Yes 2  No - SKIP to 9					
8. Is that the employer from your most recent or present job?	(568) 1 ☐ Yes 2 ☐ No } SKIP to II					
9. Did you look for another job?	1 Yes 2 No - SKIP to Check Item E3					
10a. Did you find another job?	570) 1 Tes 2 No - SKIP to Check Item E3					
b. Did your new employer do anything special for you to make it easier for you to work at the job?	(571) 1 ☐ Yes — Ask c 2 ☐ No — SKIP to II					
c. What did he do?  Mark all that apply. Do not read.	572 1 Got someone to help me 2 Helped me learn new skills 3 Shortened my work day 4 Changed time I came to and left work 573 5 Allowed me more breaks and rest periods 6 Got me special equipment for the job 7 Arranged special transportation 8 Other - Specify					
11. Did you do the same KIND of work you had been doing before your health problems began?	574 1  Yes 2  No					
CHECK Refer to Q.8 and 11 above.	Same employer, same work ("Yes" in Q.8 and II) – Go to Check Item E-4, page 39.  Same employer, different work ("Yes" in Q.8, "No" in Q.II) – Ask I2a  All others – SKIP to I3a					
12a. What kind of work were you doing before your limitation?	576					
b. What were your most important activities or duties?	SKIP to 14					

	Section E - WORK LIMITATIONS - Continued							
13a.	Before you changed employers, (before you stopped working) for whom did you work?	1	Name of company, business, organization, or employer					
ь.	What kind of business or industry was this? (For example: TV and radio manufacturing, retail shoe store, etc.)	(577)						
c.	What kind of work were you doing before your limitation? (For example: typist, electrical engineer, laborer, etc.)	578						
d.	What were your most important activities or duties? (For example: typing, filing, selling cars, finishing concrete, etc.)	;   						
e.	Did you work for —	(579)	A private company, business, or individual for wages, salary, or commission? — SKIP to 14a  The Federal Government?— SKIP to 14a  A State, county, or local government? — SKIP to 14a  Yourself (self-employed) in own business,					
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	professional practice, or farm?  Is the business incorporated?  If farm, mark "No" without asking  4 Yes - SKIP to 14a  5 No - SKIP to 15  Working without pay in family business or farm?  SKIP to 15					
14a.	What were your usual total earnings per week at that job BEFORE DEDUCTIONS?	580	\$ 00 per week					
ь.	How much did you earn per hour BEFORE DEDUCTIONS at that job?	(581)	\$ per hour  Dollars Cents  X Don't know					
15a.	. How many hours a week did you USUALLY work at this job?	(582)	Hours					
Ь.	How many weeks per year did you work either full time or part time at that job? Include paid vacations and paid sick leave.	583	Weeks					
c.	How long did you work at this job?	584)	1 ☐ Less than 6 months 2 ☐ 6—II months OR					
		585	Years					
16.	Were you a member of a labor union then?	586	1  Yes 2  No					
Not	es							

Page 38

Section E - WORK LIMITATIONS - Continued						
17. Which of these things did you have to do on your job before your health limited your ability to work? We are talking about the job you had before your health	For each "Yes," ask:					
forced you to make a change.  Did you have to —		A lot?	Sometimes?	Never/No		
Walk?	<b>(587)</b>	1	2 🗍	3 🔲		
Use stairs or inclines?	588	1 🗀	2 🗌	3 🔲		
Stand for long periods?	<b>589</b>	1 🗀	2 🔲	3 🔲		
Sit for long periods?	590	1 🔲	2 🗀	3 🔲		
Stoop, crouch or kneel?	591)	1 🗀	2 🗀	3 🔲		
Reach?	<b>592</b>	1	2 🗀	3 🔲		
Use fingers to grasp or handle?	593	1 🗀	2 🔲	3 🔲		
Use your eyes for inspection of things?	594	1 🔲	2 🗍	3 🗀		
Use your eyes for reading?	595	1 🗀	2 🗀	3 🔲		
Lift or carry weights up to 10 pounds?	596	1	2 🗍	3 🔲		
Lift or carry weights up to 25 pounds?	597	1 🔲	2 🗍	3 🔲		
Lift or carry weights up to 50 pounds?	598	1 🔲	2	3 🔲		
	1					
18a. Did having to do any of these things interfere with or keep you from working at that job after your health limited your ability to work?	599) 1 ☐ Yes 2 ☐ No — SKIP to Check Item E-4					
b. Which ones?  Read list  Mark ALL that apply.	600	3 🔲 S	alk se stairs or inclines tand for long periods it for long periods			
	5 Stoop, crouch or kneel  601 6 Reach  7 Use hands and fingers  8 Use your eyes for inspection of things  9 Use your eyes for reading  10 Lift or carry weights up to 10 pounds					
	*		ift or carry weights up to 50			
CHECK ITEM E-4  I'm interested in what ways your health has affected your family. Were you married at the time your health started to affect your work?	603	1 🔲 Y	es No - SKIP to 21			
19. Was your wife/husband working at that time?	604	1   \ \ 2	es No - SKIP to 21			
Notes						
		•				

	Section E - WORK LIM	ITATIO	DNS - Continued
20a.	How many hours a week did she/he work then?	605)	
_		1	Hours
ь.	How many weeks per year did she/he work then?	606	Weeks
c.	How long had she/he worked at that job?	(607)	1 Less than 6 months 2 6-II months OR
		608	Years
21a.	Did anyone in your family living with you begin to work, or change their work hours AFTER your health started to affect your ability to work?	609	1 Yes - Ask b and c 2 No - SKIP to 22
ь.	Who?	! !	c. Did she/he —
	Mark all that apply and ask c.	<b>610</b>	Begin to Work Work less/ work? more? stop?  (Wife) 2
		<u>(611)</u>	1 Parent 2 3 4
		<u>612</u>	1 Child 2 3 4 4
		613	1 Other 2 3 4
22.	What happened to your (your family's) income after your health started to affect your work — did it decrease, remain the same or increase?	614	<ul> <li>Decreased</li> <li>Remained about the same</li> <li>Increased</li> </ul>
23.	Did you have any savings when your health began to affect your ability to work?	615	1  Yes 2  No – SKIP to 25
24.	Did you start to use part of your savings to get along after your health began to affect your ability to work?	616	1
25.	Were you living at this address at the time your health started to affect your ability to work?	617	1  Yes - SKIP to 27 2  No
26.	Why did you move?	618	
27.	Some houses have features such as entrance ramps instead of steps and lower kitchen counters that make it easier to get around in or use the home.  Because of health problems, would you or any person living here need any of these features in your home?	619	1 ☐ Yes 2 ☐ No — SKIP to Section F, Q.I, page 43.
28.	Have you made any changes in your home so that anyone here can get around in or use your home more easily?	620	1 ☐ Yes — Ask 29 2 ☐ No — SKIP to Section F, Q.1, page 43
Note	es		

Section E - WORK LIMITATIONS - Continued					
29a. Was the change made in the bathroom?	621)	1			
b. What kind of change(s) did you make?  Mark all that apply  Do not read list	622 *	Add grab bars to bathtub  Add grab bars to toilet  Add hand held shower  Changed shower or sink controls (Lever handles)  Lowered medicine cabinet or mirror  Re-positioned light switch  Add emergency alarm  Other — Specify			
30a. Did you make any changes in the kitchen?	624)	1			
b. What kind of changes did you make —  Mark all that apply  Do not read list	625	Lowered counter top or sink  Changed sink control (lever)  Re-positioned sink control  Changed size or location of oven, stove, or cooktop  Lowered light switches or changed location of electric outlets  Other — Specify			
31a. Did you make any changes in the entrance?	627)	1  Yes - Ask b 2  No - SKIP to 32			
b. What kind of changes did you make —  Mark all that apply  Do not read list	628	1 ☐ Widened doorway 2 ☐ Installed ramp to replace steps 3 ☐ Changed doorknob 4 ☐ Other — Specify			
32a. Did you make any changes in the bedroom?	629	1  Yes – Ask b 2  No – SKIP to 33			
b. What kind of changes did you make —  Mark all that apply  Do not read list	630	Widened doorway    Lowered light switches   Repositioned electrical outlet   Repositioned heating/cooling controls   Remove raised threshold   Lowered clothing rods in closets   Other - Specify			
Notes		· · · · · · · · · · · · · · · · · · ·			
, , , , , , , , , , , , , , , , , , ,					

s al outlet cooling controls old in closets
F, Q.1
es al outlet Cooling controls old s in closets
a co

	Section F - JO	TRAINING	
	Now I would like to ask you about any job training you may have received.		
1.	Other than formal education in high school or college, have you ever been in a special job training program or attended a trade school?	1  Yes – Ask 2 2  No – SKIP to Sec	tion G, page 44
2.	How many programs have you been in?	Numb	er
3a.	Did (this/any of these) program(s) help you to get a job or a better job?	1 Yes — had only l 2 Yes — had more t 3 No — had only l 4 No — had more th	han I program 🗕 Ask b
Ь.	Which one was most important in helping you get a better job?	646	- SKIP to 4
c.	Which program lasted the longest time?	647	
	For persons with more than one program, refer to 3b or 3c	648	
4.	For what kind of job skills or occupation did this program train you?		
5.	How long did the program last?	649 Weeks	
		650 Months	
	·	651)Years	
6.	When did you complete this program?	652) Month (0	01–12)
7a.	Did you pay for this training program?	654) 1  Yes – Ask b 2  No – Ask d	1
Ъ.	Did you pay for all of it or part of it?	655) 1  All of it — SKIP : 2  Part of it — Ask	
c.	Who paid for the rest of it?  Mark all that apply	* 2	
d	. Who paid for it? Mark all that apply	* 2	
No	tes		

Sect	Section G - FAMILY INCOME						
1. During 1977, that is last year, how much did YOU yourself earn altogether from working? This includes wages, salary, tips, commissions, and net income from own business, professional practice, partnership or farm?	658	\$ o	. 00				
CHECK Refer to Section A, page 3, Q.7	659	Sample pers			o Check Item G-2		
2. During 1977, how much did your wife/ husband earn altogether from working? This includes wages, salary, tips, commis- sions, and net income from own business, professional practice, partnership or farm.	660	\$ o	. 00				
CHECK Refer to Section A, page 2, Q.3	661	Other related No other results SKIP to 4			er living at home —		
3. During 1977, how much did (read name(s))	 	Parents	Chile	dren	Other relatives		
earn altogether from working? This includes wages, salary, tips, commissions, and net income from own business, professional practice, partnership or farm.	662	1 No parents		No children	666 1 No other relatives		
, , , , , , , , , , , , , , , , , , , ,		×		<b>×</b>	_		
	(663)	\$ <u>00</u> o		00 None	667) \$ 000 □ None		
4a. During 1977, did anyone in this family currently living here receive — Read all	 	No	b. How much was received Yes altogether?				
(1) Net income from roomers or boarders? (excluding relatives living in household)	668	1 🗀	2 □ →	672 \$_	. 00		
(2) Net income from rent from an apartment or other real estate?	669	1 🗀	2 □ →	673 S_	. 00		
(3) Interest or dividends?	670	1 🗀	2 □ →	674) s_	. 00		
(4) Gifts from friends or relatives other than your family living at home?	671	1 🗀	2 □ →	675 \$_	. 00		
Notes							

Notes				
Notes				
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		-		

Section G - FAMILY INCOME - Continued							
5a. During 1977, did you or any other members of your family receive —		b. How much was recei altogether in 1977?	ved	c. Did anyone in this family receive any income from (name source) last month?			
(1) Social Security benefits? (Green check)	1	<b>686</b>	. 00	$\smile$	Yes → No - Go to next income source		
(2) Supplemental Security Income (SSI) benefits? (Gold check).	1	687 \$	. 00	_	☐ Yes → ☐ No — Go to next income source		
(3) Railroad Retirement	1	\$	. 00	G-5	Yes → No - Go to next income source		
(4) Veterans Administration benefits?	1	689	00		☐ Yes → ☐ No - Go to next income source		
(5) Unemployment compensation?	1	690 \$	. 00	700 3 [ 4 [	Yes Go to next income source		
(6) Workmen's compensation?	1	691) \$	. 00	701) 3 ( 4 (	☐ Yes → ☐ No - Go to next income source		
(7) AFDC (Welfare)?	1 ☐ Yes → 2 ☐ No – Go to c	692)	. 00	702 3 4	Yes → No - Go to next income source		
(8) Public welfare or	1	693)	. 00		Yes No - Go to next income source		
assistance?	1 ☐ Yes → 2 ☐ No – Go to G	694)	. 00	704) 3 4	☐ Yes → ☐ No — Go to next income source		
(9) Civil Service Benefits?  (10) Any other benefits — Specify  (685)	ı ☐ Yes→	695)	. 00		☐ Yes →		
	2 🔲 No - Go to o	·  •———	<u> </u>	1			

Section G - FAMILY INCOME - Continued									
ber	s any of this refit for a	e. Whose disability?		f. Who received the benefits?					
dis e a	ability? (Ask nd f for each n marked es'')	Sample person family member		Sample person	Spouse	Children	Other relative		
706	5 ☐ Yes → 6 ☐ No	<u>(716)</u> 1 □	2 🗀	726) 1 □	2 🗍	3 🗀	4 🗔		
707	5	<u>(717)</u> 1 □	2 🗀	727 1 🗆	2 🗆	3 🗀	4 🗀		
708	5	718 1 🗆	2 🗀	<b>728</b> 1 □	2 🗀	3 🗀	4 🗆		
709	5	719 1	2 🗀	729 1 🗆	2 🗀	3 🗍	4 🗆		
710	5	720 1 🗆	2 🗀	(730) 1 🗆	2 🗀	3 🗔	4 🗆		
711	5	721) 1 🗆	2 🗀	(731) 1 <u> </u>	2 🗀	3 🗀	4 🗔		
712	5	722 1 🗆	2 🗀	732 1 🗆	2 🗍	3 🗀	4 🗀		
713	s	723 1 🗆	2 🗌	733 1 🗆	2 🗀	3 🗀	4 🗆		
714)	5	724 1 🗀	2 🗆	734 1 🗆	2 🗀	3 🗍	4 :		
715)	5	725 1 🗆	2 🗀	(735) 1 [	2 🗌	3 🗍	4 🗀		

Section G - FAMILY	Y INCOME - Continued
<ul> <li>6. How much did you and the other members of your famineceive in 1977 from —</li> <li>Read list.</li> <li>(1) Company or employer group insurance plans?</li> </ul>	736 \$ 00
(2) Sick pay?	737 \$ 00
(3) Individual insurance plans?	738 \$ 00 None
(4) Union or employer pension benefits for disability?	? o None
(5) Union or employer pension payments for retiremen	
(6) Annuities?	741) \$ 00
Show Flashcard No. 4  7. Which category on this card represents the total combined income of all members of this family during 1977? This includes money from jobs, net income from business or farm, pensions, dividends, interest, net rent, Social Security payments, and any other money income received by members of this family who are 16 years of age or older?	3 🖂 4.000 — 4.999
8. About how much do you and the other members of you family now have in —  (1) Checking accounts?	(743) \$
(2) Savings and Credit Union accounts?	744) \$ bo
(3) U.S. Savings bonds?	
(4) Stocks, bonds and mutual fund shares?	

Section G - FAMILY INCOME - Continued						
9a.	Are you covered by some form of life insurance?	747	1  Yes 2  No – SKIP to 10			
ь.	What is the total face value of your policies?	748	s [00]			
10a.	Are the other members of your family covered by some form of life insurance?	749	1  Yes 2  No – SKIP to II			
Ъ.	What is the total face value of these life insurance policies?	750	s			
11.	About how much do you and the other members of your family owe for —	751)	s <u>oo</u>			
	(1) Store purchases or charge accounts?	752	o None			
	(2) Hospital bills?		o None			
	(3) Other medical bills, such as doctor or dentist bills?	753	\$ 00			
	(4) Loans from banks, loan companies, or other persons excluding loans to buy a house or a car?	754	\$ 00			
12a.	Are you paying a loan on a car?	755)	1 Yes 2 No - SKIP to Section H			
Ь.	How much is the monthly payment?	756	s @@			
c.	How many more payments do you have to make?	757	Number			
		758				
		759				
		761				
		762				
ļ						

Section H - JOB SATISFACTION							
1. Some activities are more important to people than others. Here is a list of things on a set of cards. Please put the cards in order of how important each activity is to you now, with the most important activity on top and the least important activity on the bottom.  There are six cards in this set. Hand card deck to respondent after shuffling. Read off the activities in their deck placement as order is recorded below.	Order — Fill in number from 1 to 6  (763)  (764)						
(1) Getting together with friends and neighbors	765)						
(2) Working in a job	766)						
(3) Spending time with your family							
(4) Being free to do what you like	(767)						
(5) Taking care of your home or helping at home	(768)						
(6) Taking care of your health							
CHECK Refer to Section B	769 1 Job described in Q 5a-5e, page 6 (currently employed) - SKIP to 8  2 If box 5 in Q 47, page 16 (never worked at all) - SKIP to Section I  3 All others - Ask 2						
2. Are you not working now because of your health or a health condition?	770 1  Yes 2  No – SKIP to 8						
3. Some people who have had to stop work because of a health condition like yours think they can never work again; others think they can. Do you ever expect to work again? Would you say definitely yes, maybe, or no?	771) 1 Definitely yes 2 Maybe 3 No - SKIP to 8 4 Can't say, not sure						
4. Do you feel there are some kinds of work you could do now (if there were jobs available)? Would you say definitely yes, maybe, or no?	1 Definitely yes 2 Maybe 3 No 4 Can't say not sure						
Interviewer: Read lead in only if box 3 or 4 checked in Q.4. Let's say your health condition improves enough so you could go back to work —  5. Would you have less chance, more chance, or about the same chance as other people of being hired because of the health problems you've had?	1 Less chance 2 More chance 3 Some chance 4 Can't say, not sure						
6. Let's say you were hired. Because of your health problems would you expect to get less pay, more pay, or about the same pay others with your experience?	1 Less pay 2 More pay 3 Same pay 4 Can't say, not sure						
7. Because of the health problems you've had, do you think you'd be among the first let go if there was a layoff?	1 Definitely yes 2 Maybe 3 No 4 Can't say, not sure						
Notes							

	Section H - JOB SATISFA	CTION	- Continued
	I'd like to find out how you (feel/felt) about your (current/last) job. Do you agree or disagree with the following statements?	! ! ! !	
8a.	I am (was) bored at work.	776	1  Agree 2  Disagree 3  Can't say – SKIP to 9a
	Do you agree/disagree strongly with that, or just somewhat agree/disagree with that?	777	1 Strongly 2 Somewhat
9a.	The best part of my job is (was) being with the people at work.	778	1  Agree 2 Disagree 3 Can't say – SKIP to 10a
ь.	Do you agree/disagree strongly with that, or just somewhat agree/disagree with that?	779	1  Strongly 2  Somewhat
10a.	After leaving work at the end of the day, I put it out of my mind.	780	1  Agree 2  Disagree 3  Can't say — SKIP to IIa
ь.	Do you agree/disagree strongly with that, or just somewhat agree/disagree with that?	(781)	1 Strongly 2 Somewhat
1 la.	My job serves (served) mainly to get me through the day.	782	1  Agree 2  Disagree 3  Can't say – SKIP to 12a
ь.	Do you agree/disagree strongly with that, or just somewhat agree/disagree with that?	783	1 Strongly 2 Somewhat
Not	25		

	Section H - JOB SATISFACTION - Continued						
	Other people say	k at work in terms of money that they need.  that besides the money, work is an themselves. Whether or not you're able to U feel about it?					
	Tell me if you as	gree or disagree with each of the following:					
12a.	. If you don't have	e a job, you don't feel right.	784) 1  Agree 2  Disagree 3  Can't say - SKIP to 13a				
Ь.	Do you agree/disomewhat agree/	sagree strongly with that, or just disagree with that?	785) 1 Strongly 2 Somewhat				
13a.	. Work is importan	t MAINLY because of the money.	786 1 Agree 2 Disagree 3 Can't say - SKIP to 14a				
ь.	Do you agree/dis	sagree strongly with that, or just disagree with that?	787 1 Strongly 2 Somewhat				
14a.	. A person should of family and fri	work in a job in order to keep the respect	788) 1  Agree 2  Disagree 3  Can't say – SKIP to 15a				
ь.	Do you agree/di	sagree strongly with that, or just	789 1 ☐ Strongly 2 ☐ Somewhat				
15a.	somewhat agree/disagree with that?  15a. You really can't think well of yourself unless you have a job.		790 1 Agree 2 Disagree 3 Can't say - SKIP to Check Item H-2				
Ь.	Do you agree/di somewhat agree/	sagree strongly with that, or just disagree with that?	1 Strongly Somewhat				
	CHECK TEM H-2	Observation  Has another person prompted three or more of the previous responses of Section H?	792) 1  Yes 2  No				
Not	tes						

Section I - GOVERNMENT PROGRAMS						
We would like to get some idea of what people know about the government programs that provide cash benefits and other services for disabled people.						
la. Do you know of a Federal, State, or local government office where disabled people can go to get cash benefits or other services?	793)	1  Yes 2  No - SKIP to 2a				
b. Where would you go?  DO NOT READ LIST.  Mark each office person mentions.	794)	Public welfare or as Veterans Administra Social Security Adm Workmen's compensa	tion office inistration office			
· ·	5 State Rehabilitation agency  6 State employment service  7 Other — Specify					
	1	8 Don't know of any				
2a. Have you EVER applied for any of the following kinds of cash benefits from Social Security?	} 	If "Yes," Ask b	b. When did you last apply?			
(1) Retirement?	796	1	802   19 OR			
(2) Disability?	797	1 ☐ Yes → 2 ☐ No - SKIP to (3)	803			
(a) Have you ever received disability benefits?	798	1  Yes 2  No - SKIP to (3)				
(b) Are you now receiving disability benefits?	799	1	(90)			
(3) Medicare?	(800)	1 ☐ Yes → 2 ☐ No	(804) 19 OR x Can't recall			
(4) Supplemental Security Income (SSI) (gold check)?	(801)	1	19 OR x ☐ Can't recall			
c. Have you ever applied for any other cash benefits from Social Security?	806	1 Tes - Specify				
		<ul> <li>Yes, don't know kin applied for somethin</li> <li>No - SKIP to 3a</li> </ul>				
d. When did you last apply?	807	I9 OR x □ Can't recall				
Notes	'					

Section I - GOVERNMENT PROGRAMS - Continued							
3a. Have you ever applied for:		If "Yes" ask b and c →		b. Did you apply for MONEY or SERVICES?		c. When did you last apply?	
	! [		Money Services				
(1) Public welfare or assistance?	808	1	<b>819</b>	1	2 🔲	825)	19 OR  x
(2) Veterans Administration (VA) benefits?	809	1	820 *	1 🗔	2 🗀	826	19 OR  x
(3) Workmen's compensation?	810	1	821 *	1 🗀	2 🗌	827	I9OR x ☐ Can't recall
(4) Federal, state or local housing subsidies?	811	1  Yes — Ask c 2  No				828	19 OR x
(5) Federal food stamps?	812	1 Yes — Ask c 2 No				829	<ul><li>19 OR</li><li>x □ Can't recall</li></ul>
(6) Medicaid or medical care card?	813)	1				830	<pre>19 OR x □ Can't recall</pre>
(7) State employment service?	814)	1 ☐ Yes→ 2 ☐ No	822	1 🗀	2 🗌	831)	<ul><li>19 OR</li><li>x ☐ Can't recall</li></ul>
(8) Private social service?	815)	1	823	1.	2 🔲	832	<pre>19 OR x</pre>
(9) State sponsored rehabilitation?	816	1 ☐ Yes — Ask c 2 ☐ No				833	<pre>19 OR x □ Can't recall</pre>
(10) Special income tax exemption due to legal blindness?	817	1  Yes - Ask c 2  No				834	19 OR x
(11) Other - Specify,	818	1	<b>824</b>	1	2 🗀	835	I9OR x □ Can't recall
Notes							

Section I - GOVERNMENT PROGRAMS - Continued						
4a. Have you ever received any rehabilitation services such as physical therapy, transportation assistance, or job or vocational training because of your health?	1 ☐ Yes — Ask b and c 2 ☐ No — SKIP to Check Item I—I, page 56					
b. What types of services —		If "Yes," Ask c	c. When did you last receive this service?			
(1) Counseling and guidance?	837	1	848 19 OR x [ Can't recall			
(2) Job training?	838	1	849			
(3) Job placement?	839	1 ☐ Yes → 2 ☐ No	850 19 OR x Can't recall			
(4) Vocational or business school training?	840	1	(851) 19 OR x Can't recall			
(5) College or university education?	841	1 ☐ Yes → 2 ☐ No	852 19 OR x Can't recall			
(6) Physical therapy?	842	1	853 19 OR x Can't recall			
(7) Medical treatment (physical or mental)?	843	1	854 19 OR x Can't recall			
(8) Special devices (e.g., brace, artificial limb, wheelchair, hearing aid)?	844	1				
(9) Transportation assistance?	845)	1	(856) 19 OR  x			
(10) Training for personal care and/or leisure-time activities?	846	1	(857) 19 OR x Can't recall			
(11) Any other services? — Specify	847)	1 ☐ Yes → 2 ☐ No				
Notes	! <del> </del>					
·						

Section I - GOVERNMENT PROGRAMS - Continued						
5. Who provided or arranged for these rehabilitation	859)	1 Vocational rehabilitation agency				
services you received?	*	2 Rehabilitation counselor				
DO NOT READ LIST.	f	3 Public Welfare				
Mark ALL that apply.	İ	4 🔲 Veterans Administration				
	i	5 Workmen's compensation				
	860	6 ☐ School				
	*	7 Own doctor				
	1	e 🔛 Hospital				
	l I	9 Court/lawyer				
	861)	10 Rehabilitation center				
	*	11 Employer (on-the-job)				
	1	12 Private insurance carrier				
	(862)	13 Private agency - Specify				
	*	is				
	 	14 Other public agency — Specify				
	1	•				
		15 Other private person				
	863	16 Myself				
	*	17 Don't remember				
	1	18 None of the above				
CHECK ITEM I-1	864	Aware of Social Security Disability Program (Q.1b, item 3 OR "Yes" in Q.2, item 2, page 53) — SKIP to Q.7				
		2 All others - Ask Q.6				
6. Have you ever heard of the Social Security Disability Benefit Program?	865)	1 ☐ Yes 2 ☐ No - SKIP to Check Item J2, page 60				
Notes						
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Section I - GOVERNMENT PROGRAMS - Continued							
7. We are interested in learning how people get information about the Social Security Disability Benefit program.							
Ask a, b, c, and d — DO NOT READ LIST. Mark ALL that apply.							
	a. How did you find out about the Social Security Disability Benefit program?  Any other way?	If only I box marked, mark same box in b. If more than one response, Ask — b. Of the people or places you just mentioned, who gave you MOST information about the program?	c. Did anyone advise you to file for benefits? If "Yes," Ask d, otherwise go to Q.8	d. Who?			
(1) Can't say or don't remember	866 * 1 🗆	1	873 1 ☐ Yes→ 2 ☐ No	874) * 1 □			
(2) Friend or relative	2 🗀	2 🗀		2 🗌			
(3) Employer	3 🔲	3 🗔		3 🗍			
(4) Social Security personnel	4 🗌	4 🗀		4			
(5) Some other federal or State agency	5 🗌	5 🗌		5 🗆			
(6) Veterans Administration	<b>867</b> ∗ 6 □	6 🗔		(875) * 6 □			
(7) Workmen's compensation	7 🗌	7 🗔		7 🗌			
(8) State Rehabilitation Agency	8 🗀	8 🗀		8 🗌			
(9) Employment service	9 🗆	9 🗍		9 🗆			
(10) Public welfare or assistance.	868 * 10 □	10 🗆		(876) * 10 □			
(11) Union official	11 🗀	11		11			
(12) Doctor	12 🗌	12 🗀		12 🗆			
(13) Hospital	869 * 13 🗆	13 🗌		877 * 13 🗆			
(14) Private insurance company	14	14		14 🗌			
(15) Private social service agency	15 🗍	15		15 🗌			
(16) Advertising	870 * 16 <u></u>	16		(878) * 16 [			
(17) Television	17 🗌	17 🗔		17 🗔			
(18) Radio	18 🗌	18		18 🗀			
(19) Newspaper	871) * 19 🗆	19 🗌		(879) * 19 [			
(20) Social Security pamphlet	20 🗌	20 🗀		20 🗌			
(21) Other — Specify	21 🔲	21 🗀		21 🗀			

Section I - GOVERNMENT PROGRAMS - Continued							
8. We would like to know how much people know about the Social Security Disability Program. How long must a person wait after he becomes disabled and stops working before he can start getting benefits?							
9. How long must a person's disability be expected to last in order to get benefits?	883 Months Years						
10. Do older people have to be as disabled as younger people in order to get disability benefits?	x						
11. Can a person continue to work at all and still get disability benefits?	886 1 Yes 2 No 3 Don't know						
12. Are people who are receiving Social Security disability benefits eligible for Medicare?	887) 1  Yes 2  No 3  Don't know						
13. Have you ever heard of the "trial work period program" for persons who now get Social Security benefits?	888 1  Yes 2 No						
CHECK Refer to Section 1, page 53	(889) 1 "'Yes,'' in Q.2, item (2) b., (Currently receiving disability benefits) — Ask 14 2 All others — SKIP to Check Item J1, page 59						
14. Would you try to return to work — Read before each item on list.  a. If the law allowed you to keep a part of your disability benefits no matter how much you earned?	890 1  Yes 2  No						
b. If your health improved a lot?	891) 1  Yes 2  No						
c. If you were given vocational or rehabilitation training?	(892) 1 ☐ Yes 2 ☐ No						
d. If you were helped to find a suitable job?	893) 1  Yes 2  No						
Notes							

Section J - DI	SABILITY BENEFITS
CHECK Refer to Section 1, Q.2, page 53	894) 1 "Yes," marked in (2) and/or (4) of Q.2 (Former applicant or current applicant) — Ask I  2 "No," marked (Not former applicant) — SKIP to 6
<ol> <li>Altogether, how many times have you applied for disability benefits?</li> </ol>	895) Number
2a. After (the last time) you applied for benefits were you told by letter that you didn't qualify?	896) 1  Yes - Ask 2b  2  No 3  Don't know SKIP to Check Item J2, page 60
b. Did you discuss this letter with someone from the Social Security district office?	897) 1  Yes - Ask c 2  No 3  Don't recall  SKIP to 3
c. Did you get in touch with them or did they get in touch with you?	898) 1  Respondent contacted district office 2  District office contacted respondent 3  Don't recall
3. Did you file an appeal or ask to have your case reviewed?	899) 1  Yes 2  No - SKIP to 5 3  Don't know - SKIP to Check Item J-2, page 60
4a. Did anyone tell you to make the appeal?	900 1 Tyes 2 No, did it on my own—SKIP to Check Item J-2, page 60
b. Who told you to appeal?  DO NOT READ LIST. Mark ALL that apply	901 1 Friends or relatives 2 District Social Security office 3 Congressman 4 Lawyer  902 5 Employer 6 Union official 7 Doctor or medical person 8 Other government agency 903 9 Letter of denial 10 Other - Specify
5. What is the main reason you did not have your case reviewed?  DO NOT READ LIST. Mark one.	1 No use, agency would not change decision 2 Also receiving retirement benefits 3 Didn't know there was an appeals process 4 SSA advised not to pursue claim 5 Agreed with decision — condition not severe or long lasting 6 Too much trouble or bother 7 Too expensive 8 Told not eligible or feel not eligible 9 Other — Specify
Notes	

Section J - DIS	ABILITY BENEFITS - Continued
6. Earlier you said that you have never applied for Social Security disability benefits. Why haven't you applied?  DO NOT READ LIST. Mark ALL that apply.	* 2 Doesn't think he has worked enough to qualify  3 Doesn't think he is old enough to qualify  4 Thinks having some income will prevent receipt of benefits  906 * Doesn't think health condition is severe enough to qualify  6 Expects to get better and/or return to work  7 Doesn't need or want the money  8 Too complicated to apply (Too much bother)  9 Didn't think chances of getting benefits were good  907 10 Doesn't know or doesn't remember  * 11 Other - Specify
CHECK OVERALL IMPRESSION Speech difficulty	908 1  Yes Do check item page.
Notes	909
	910
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	(912)
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Mati voeto v				CONTROL NUMBER		
Section N - CHECN LIEMS						
Refer to Section A when filling Items 1-6	Respon No spouse	Respondent and spouse in household — ASK ( No spouse in household — Respondent column — ASK OR FILL 1—11	sehold – ASK OR FI OR FILL I–II	<ul> <li>Respondent and spouse in household — ASK OR FILL 1—11 (Both columns)</li> <li>No spouse in household —</li> <li>—</li> <li>—</li> <li>ASK OR FILL 1—11</li> </ul>		
(as appropriate)	AN Spou	AND pouse column (If responde	nt is widowed, separ	ND is a column (If respondent is widowed, separated or spouse absent) $-$ ASK $2-11$	- ASK 2–11	71.0
1. Address	Number	Street	City		State	71L code
		RESPONDENT			Ϋ́	AN ANI II
2. Name of person	First	Middle   Last	Lie	Line No First	Middle Last	L III
3. Date of birth	Month	Бау	Year	Month	Day	Year
4. Race	1 🗌 White	2 🔲 Negro	3 🗌 Other	1 White	2 Negro	3 🗌 Other
5. Sex	1 🗌 Male	2 🗌 Female		1 🗌 Male	2 🔲 Female	
6. Marital status	1   Married 2   Widowed	3 🔲 Divorced 4 📋 Separated	s 🔲 Never married			
	1 🗌 Refused	1 📋 Refused — end interview		1 Refused – end interview	id interview	
7. What is your Social Security, Medicare or Railroad Retirement number?	2 Don't know	*		2 Don t know		
8. Where were you born? (City, county, State, or foreign country)	r, untry)					-
9. What is your father's full name?	First	Middle	Last	First	Middle	Last
10. What is your mother's full maiden name?						
11. (Ask if female) What was your full maiden name?						
(0.00 to 10.010)						

## APPENDIX B.--Sample means and covariance for the Y and X variables

## 1. Mean values of the Y and X variables

<u>Varia</u>	<u>ble</u>	<u>Me an</u>
Y1.	Stay in chair or wheelchair	.008
Y2.		.019
	Not able to use public transportation	.040
	Not able to drive	.027
Y5.	Limited in the kind or amount of work	.156
X1.	Walk for long distances	.170
	Use stairs or inclines	. 143
х3.	Stand for long periods	.198
	Sit for long periods	.126
X5.	Stoop, crouch or kneel	. 184
X6.	Reach	.064
X7.	Use fingers to grasp or handle	.065
x8.	Lift or carry 10 lbs.	.078
Х9.	Lift or carry 25 lbs.	.182
X10.	Lift or carry 50 lbs.	.396
X11.	Male	.493
X12.	Age, tens of years	3.795
X13.	Married	.673
X14.	White	.875
X15.	Education, tens of years	1.209
X16.	Psychological distress	3.759

Number of cases = 9,199

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- 000108 - 00072 - 00472 - 00475 - 00475 - 00477 - 00477 - 00477 - 00477 - 000100 - 00067 - 00057 - 00475 - 00529 - 01708 - 00067 - 000100 - 01708 - 00027 - 000100 - 01708 - 000100 - 01708 - 01708 - 000100 - 01708 - 01708 - 000100 - 01708	. 00128 . 00100 . 00070	195004	00377	.04546	.04185	.04170	.04118	04711	06388
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