TABLES Chapter 10:

On the Construction of Early Warning Indicators of Old-Age Poverty: The Index-Building versus the Microsimulation Approach, Georg P. Mueller

Table 10.1: Estimates of the poverty lines and poverty rates of Germany, USA, and Sweden

Variable	Germany	USA	Sweden
Median M of the standardised household incomes	1343.5 EUR	2651.7 USD	24095.6 SEK
Poverty line = 50% of the median M	671.8 EUR	1325.8 USD	12047.8 SEK
Poverty rate of the general population	11.0%	26.1%	8.8%
Poverty rate of the 55-75 old, <i>before</i> retirement	8.2%	20.1%	3.7%
Poverty rate of the 55-75 old, <i>after</i> retirement	6.4%	22.0%	11.0%

<u>Definitions</u> (variables in *italies* refer to ISSP 2008): Standardised household income = xx_i / Squareroot(hompop). <u>Source</u>: International Social Survey Programme (ISSP 2008) "Religion III". <u>Case weights</u>: Sweden = 1; USA = 1; West-Germany = 1; East-Germany = 0.557 (= weight for correcting the over-representation of the East-Germans in the sample of the German ISSP-Survey).

Table 10.2: Logistic regression-coefficients for explaining old-age poverty

Variable	Germany		USA		Sweden	
	Initial	Final	Initial	Final	Initial	Final
Female * Retired	[0.261]		[0.557]		[0.568]	
Married * Retired	[-0.864]	-1.056*	[-0.882]	-0.823*	[5.785]	
Divorced * Retired	[0.711]		1.237*	1.243**	[8.590]	2.735***
Single * Retired	[0.389]		[-1.405]		[7.161]	1.174*
Underclass * Retired	[-0.037]		3.247**	2.666*	[0.837]	
Immigrated * Retired	[1.667]	1.704*			[1.424]	
Retired	[-0.062]		[-0.271]		[-6.048]	
Constant	-2.411***	-2.252***	-1.380***	-1.397***	-3.471***	-3.071***
Nagelkerke pseudo r-sq	[0.057]	0.046*	0.094**	0.080***	0.168**	0.117***
Number of obs. N	381	384	316	316	317	351

Significances (1-tailed): ***: 0.1%, **: 1.0%, **: 5%, []: n.s., -.--: Not used. Sample: Only persons in the age-interval [55,75]. Source: International Social Survey Programme (ISSP 2008). Method: Binary logistic regression. Dependent variable: (Variables in *italics* refer to ISSP 2008): Poor = 1, if the standardised household income xx_i / Squareroot(hompop) is below the poverty-line of Table 10.1; Poor = 0, else. Independent variables (Variables in *italics* refer to ISSP 2008): Female = 1, if sex = 2; Female = 0, else. Married = 1, if marital = 1; Married = 0, else. Divorced = 1, if marital = 3 or marital = 4; Divorced = 0, else. Underclass = 1, if $educyrs \le 8$; Underclass = 0, else. Immigrated = 0, if ethnic = citizenship in the respective country; Immigrated = 1, else; for USA due to missing data: Immigrated = -----. Retired = 1, if mrkst = 7; Retired = 0, else. Case weights: Sweden = 1; USA = 1; West-Germany = 1; East-Germany = 0.557 (see legend for Table 10.1).

Table 10.3a: Germany: Forecasts by different indicators

	Forecasted time period:		
Indicator	+0 years	+10 years	+20 years
V_Index	0.47	0.53	0.57
V_Share	0.03	0.08	0.11
V_Gap	1.91	2.37	2.49
V_Immigrated	100.0	100.0	100.0
V_Non-married	0.0	20.5	25.1
%_Immigrated	2.6	8.1	11.2
%_Married	75.8	73.8	71.3

 $V = 1.704*Immigrated - 1.056*Married. V_Index = exp(mean (V)), by cohort. V_Share = Share of persons with <math>V > 0$ in a cohort. $V_Gap = exp(mean (V))$ for persons with V > 0. Forecasted time period = 0 corresponds to the survey year 2008. V_Immigrated = %-share of immigrated in vulnerable persons with V > 0. V_Non-married = %-share of non-married in vulnerable persons with V > 0. %_Immigrated = %-share of immigrated in the total population. %_Married = %-share of married in the total population.

Table 10.3b: Sweden: Forecasts by different indicators

	Forecasted time period:			
Indicator	+0 years	+10 years	+20 years	
V_Index	1.62	2.25	1.94	
V_Share	0.31	0.49	0.47	
V_Gap	4.75	5.29	4.06	
V_Divorced	24.7	31.5	14.5	
V_Single	75.3	68.5	85.5	
%_Divorced	7.6	15.3	6.9	
%_Single	23.3	33.3	40.3	

 $V=2.735*Divorced + 1.174*Single. V_Index = exp(mean (V)), by cohort. V_Share = Share of persons with <math display="inline">V>0$ in a cohort. $V_Gap = exp(mean (V))$ for persons with V>0. Forecasted period = 0 corresponds to the survey year 2008. V_Divorced = %-share of divorced in vulnerable persons with V>0. V_Single = %-share of singles in vulnerable persons with V>0. %_Divorced = %-share of divorced in the total population. %_Single = %-share of singles in the total population.

Table 10.3c: USA: Forecasts by different indicators

	Forecasted time period:		
Indicator	+0 years	+10 years	+20 years
V_Index	0.92	0.91	0.96
V_Share	0.26	0.26	0.29
V_Gap	4.38	4.26	3.92
V_Divorced	89.1	92.4	95.8
V_Non-married	95.7	92.4	98.6
V_Underclass	15.2	13.6	7.0
%_Divorced	23.3	23.7	27.3
%_Married	58.0	58.8	52.2
%_Underclass	4.0	3.5	2.0

 $V = 1.243* Divorced + 2.666* Underclass - 0.823* Married. V_Index = exp(mean (V)), by cohort. V_Share = Share of persons with V > 0 in a cohort. V_Gap = exp(mean (V)) for persons with V > 0. Forecasted period = 0 corresponds to the survey year 2008. V_Divorced = %-share of divorced in vulnerable persons with V > 0. V_Non-married = %-share of non-married in vulnerable persons with V > 0. V_Underclass = %-share of underclass in vulnerable persons with V > 0. %_Divorced = %-share of divorced in the total population. %_Married = %-share of married in the total population. %_Underclass = %-share of underclass in the total population.$