
**Crosswalk National Occupational Classification (KldB) –
ISCO88-com**

German – Microcensus

(Labour Force Survey = part of the Microcensus)

- first results -

Microcensus

- 4-Digit national occupational classification (KldB) is transformed into ISCO88-Com-3digit by the Federal Bureau of Statistics
 - **Variables used for the cross-walk by Federal Bureau of Statistic:**
 - KldB (4 Digit)
 - Status in employment (self-employed – employed)
 - Number of employees in firm (information only available for 0.45 subsample)
- ⇒ Even though the crosswalk-matrix is available, the quality of the crosswalk can not be checked directly
- **Scientific-Use-File Microcensus:**
 - KldB – 3 Digit (> 300 categories)
 - ISCO88-Com – 3 Digit ($\cong$ 99 categories)

Checking of the crosswalk

1. EGP based on national classification (Kldb 3-Digit) Microcensus

- ISCO 3-Digit to generate EGP-Distribution
- ISCO 3-Digit to generate ESEC (V2.1)

2. National social science survey on job quality (BIBB, N > 30.000)

- Includes Kldb 4-Digit & 3-Digit; ,status in employment' variable is identical to the Microcensus
- Crosswalk KldB 4-Digit to ISCO 4-Digit => ESEC V2.1
- Crosswalk KldB 4-Digit to ISCO 3-Digit => ESEC V2.1
- [EGP hasn't yet been generate for BIBB]

EGP-KldB_3d – EGP_ISCO88com (MZ1996)

Microcensus 1996				
	EGP		ESEC	V2.1
	KldB	ISCO	ISCO_3d	
I	15,0	14,8	12,5	1 large empl., high. managerial & p
II	13,4	13,2	15,9	2 low. managerial & prof. occup
IIIa	17,1	17,8	20,5	3 intermediate clerical, services &
Ivab	6,1	6,0	3,1	4 self empl. & small employers (ex
Ivc	1,4	1,4	0,7	5 self empl. & small employer in ag
IIIb	8,9	8,0	8,9	6 low. clerical, services & sales oc
V	6,2	6,6	6,8	7 low. supervisory & intermediate
VI	17,3	17,0	6,9	8 low. technical occup
			8,2	10 new: qualified workers
VII	14,7	15,2	16,4	9 routine occup
total	100,0	100,0	100,0	

ESEC v2.1 based on ISCO88_3digit (MZ 1996; 2000)

ESECv2.1 ISCO 3-Digit	1996	2000
	%	%
1,00 large empl., high. managerial & prof. occup	12,5	13,2
2,00 low. managerial & prof. occup	15,9	16,8
3,00 intermediate clerical, services & sales occup	20,5	20,3
4,00 self empl. & small employers (excl. prof & agr)	3,1	3,2
5,00 self empl. & small employer in agriculture	0,7	0,6
6,00 low. clerical, services & sales occup	8,9	9,0
7,00 low. supervisory & intermediate technical occup	6,8	6,4
8,00 low. technical occup	6,9	6,3
9,00 routine occup	16,4	17,2
10,00 new: qualified workers	8,2	7,0
Total	219844	220435

Source: microcensus 1996, 2000; based on crosswalk Kldb_4d to ISCO88_3d;

BIBB:

ESEC based on crosswalk Kldb_4d to ISCO88_4d & _3d

esec Beta2.1 (BIBB)	KLdB4=>	Kldb4=>
	ISCO4	ISCO_3
	Valid%	Valid %
1 large empl., high. managerial & prof. occup	11,5	13,5
2 low. managerial & prof. occup	21,8	19,9
3 intermediate clerical, services & sales occup	19,3	18,4
4 self empl. & small employers (excl. prof & agr)	5,6	5,8
5 self empl. & small employer in agriculture	0,7	0,6
6 low. clerical, services & sales occup	8,0	8,6
7 low. supervisory & intermediate technical occup	3,9	6,1
8 low. technical occup	8,5	5,8
9 routine occup	14,3	14,6
10 new: qualified workers	6,4	6,6
Total	34105	34105
Missing	238	238

Source: BIBB: Survey on Quality of Work 1998/99; Crosswalk KldB_4d to ISCO88_4d; 3d using the Matrix of the German Federal Bureau of Statistics

Univariate distribution: ESEC Microcensus - BIBB

	MZ2000	BIBB98/99
	ISCO3_d	ISCO3_d
1,00 large empl., high. managerial & prof. occup	13,2	13,5
2,00 low. managerial & prof. occup	16,8	19,9
3,00 intermediate clerical, services & sales occ	20,3	18,4
4,00 self empl. & small employers (excl. prof &	3,2	5,8
5,00 self empl. & small employer in agriculture	0,6	0,6
6,00 low. clerical, services & sales occup	9,0	8,6
7,00 low. supervisory & intermediate technical c	6,4	6,1
8,00 low. technical occup	6,3	5,8
9,00 routine occup	17,2	14,6
10,00 new: qualified workers	7,0	6,6
Total	220435	34105

Microcensus 2000 (all vs. subsample) – BIBB 98/99

	MZ2000	MZ2000	BIBB
	All	subsample	3_dig
1,00 large empl., high. managerial & pro	13,2	14,0	13,5
2,00 low . managerial & prof. occup	16,8	14,8	19,9
3,00 intermediate clerical, services & sa	20,3	19,8	18,4
4,00 self empl. & small employers (excl	3,2	5,9	5,8
5,00 self empl. & small employer in agric	0,6	1,3	0,6
6,00 low . clerical, services & sales occ	9,0	8,8	8,6
7,00 low . supervisory & intermediate te	6,4	6,3	6,1
8,00 low . technical occup	6,3	5,6	5,8
9,00 routine occup	17,2	16,7	14,6
10,00 new: qualified workers	7,0	6,8	6,6
Total	220435	101521	34105

Univariate Distribution: # of employees; st_empl

Number of employees			st_empl Status Employm.		
	MZ2000	BIBB98/99			
10+	76,1	71,6	1,00	SEN10+	1,4
2-9	19,2	24,3	2,00	SE<10	5,7
1	4,7	4,1	3,00	SEN0	4,8
	100,0	100,0	4,00	MAN10+	16,0
			5,00	MAN<10	1,9
			6,00	SUP	3,9
			7,00	EMPL	66,3
					100,0

Conclusions (preliminary)

- Crosswalk KldB_4d to ISCO_3d doesn't cause a ,real' problem
- Some Problems, which have to be checked:
 - **Distributions of occupation in different surveys**
 - e.g. ISCO-Codes 130; 131 are overrepresented in the BIBB-Survey compared to the Microcensus
 - **Status in employment**
 - Might be the reason for differences in ESEC-distributions depending on the survey
 - Is asked only every 4 years in the German microcensus
 - **Numbers of employees in establishments**
 - Differs between surveys
 - Is asked only for a subsample (0.45) in the German Microcensus (change in 2005 => total sample)

EGP_KldB vs. EGP_ISCO

Microcensus 1996										
	EGP-Kldb									Total
EGP-ISCO	I	II	IIIa	IIIb	Ivab	Ivc	V	VI	VII	
I	95,6	2,4	0,2	0,0	0,5		0,1	0,0		14,8
II	4,1	89,5	1,7	0,1	1,9	0,0	2,2	0,0	0,0	13,2
IIIa	0,0	3,2	95,0	2,9	0,0		2,0	4,4	0,1	17,8
IIIb		0,1	0,9	80,5			0,1	0,3	3,7	8,0
Ivab	0,2	0,2	0,0		96,9	0,1				6,0
Ivc	0,0				0,7	99,9				1,4
V	0,1	4,4	1,0	0,2			93,4	0,1	0,1	6,6
VI	0,0	0,0	0,9	4,1			1,7	94,5	1,4	17,0
VII		0,0	0,3	12,2			0,5	0,6	94,8	15,2
	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0	100,0

BIBB – ESEC ISCO_4 vs. ISCO_3

ESEC	ESEC 3 Digit										Total	COL
4 Digit	1	2	3	4	5	6	7	8	9	10		%
1	97,7	2,3									100,0	11,5
2	8,8	82,2	8,3	0,3		0,0	0,3				100,0	21,8
3	1,7	7,7	83,0			6,8		0,7	0,2		100,0	19,3
4		0,1		97,5				2,3	0,1		100,0	5,6
5					85,0			12,8	2,2		100,0	0,7
6		0,1	2,8	2,9		91,4			2,8		100,0	8,0
7		5,5	9,7				84,6	0,1			100,0	3,9
8							32,1	48,2	12,1	7,6	100,0	8,5
9				0,1		0,1		3,1	93,2	3,4	100,0	14,3
10				0,3				13,7		85,9	100,0	6,4
total	13,5	19,9	18,4	5,8	0,6	8,6	6,1	5,8	14,6	6,6	100,0	100,0

Microcensus – Problem ,number of employees‘

ESEC-v2.103dg esec Beta2.1 - Microcensus 1996 (isco88-com)		
	1996	2000
	%	%
1,00 large empl., high. managerial & prof. c	13,3	14,0
2,00 low. managerial & prof. occup	14,0	14,8
3,00 intermediate clerical, services & sales	20,2	19,8
4,00 self empl. & small employers (excl. p	5,9	5,9
5,00 self empl. & small employer in agricul	1,5	1,3
6,00 low. clerical, services & sales occup	8,8	8,8
7,00 low. supervisory & intermediate techn	6,6	6,3
8,00 low. technical occup	6,1	5,6
9,00 routine occup	15,7	16,7
10,00 new: qualified workers	7,9	6,8
Total	98741	101521

Source: MZ1996;2000; using subsample for which number of employee