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# IWH-FDI-Micro-Database

## Representativeness

## Survey 2008

**In East Germany (including Berlin)**

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**Halle Institute for Economic Research (IWH)**

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# Representativeness of the sample

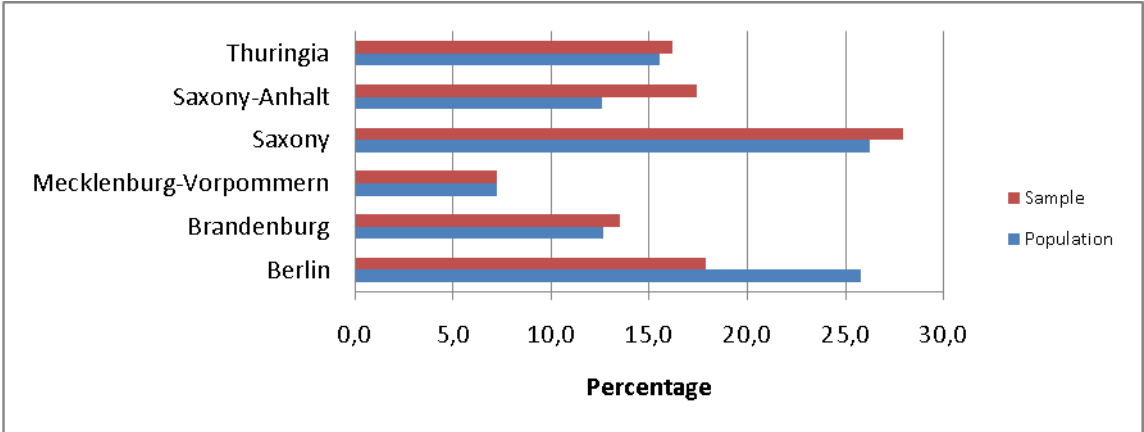
In the following chapter, the representativeness of the survey 2008 will be discussed separately for the INWARD and OUTWARD sample. The representativeness of the samples is considered by analyzing the employment size, the ownership structure, and the branch of industry as well as the regional distribution. In order to check the identity between the sample and the population, a Chi-square-test will be applied. If the test statistic does not exceed the significance level of 5%, the null hypotheses will be rejected.

## 1. Investors in East Germany

### 1.1 Multinational investors

The regional distribution basing on the federal state level shows that most of the enterprises with a multinational investor are located in Saxony (26.2%) followed by Berlin with a share of 25.8%. The state of Mecklenburg-Vorpommern has the lowest share of Inward-enterprises (7.2%). In comparison with the population, Berlin is underweight with a share of 17.9%, while the state of Saxony-Anhalt is overweight since it accounts for 17.4% of enterprises compared to a population share of 12.6%. Checking the enterprises’ distribution of the sample and the population with a multinational investor by the means of a Chi-Square-Test, the null hypotheses of an identical distribution is rejected on the federal state level (see table A1 and graph1).

Graph 1: Regional distribution of East German enterprises with a multinational investor per federal state



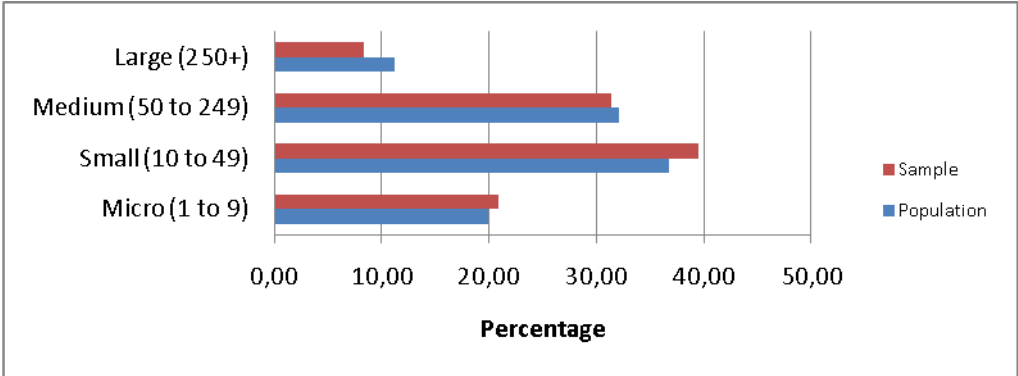
Source: IWH 2008

On the regional level referring to the ROR<sup>1</sup>, the Saxon regions of Oberes Elbtal/Osterzgebirge and West Saxony attract the largest share of investors outside of Berlin, as 8.4% or 6.0%, respectively, of the enterprises with a multinational investor are located in these regions. The regions Altmark and Uckermark-Barnim account only for 0.6% or 1.1%, respectively, of the Inward enterprises. The sample share of the region of Halle (Saale) is almost twice the

<sup>1</sup> Standing for „Raumordnungregionen“, what can be translated as ordered by spatial planning regions.

size of its population (9.1% vs. 4.6%). The assumption of an identical distribution of the sample and the population on a regional level is rejected (see table A2).

*Graph 2: Distribution of enterprises with a multinational investor by employment size*

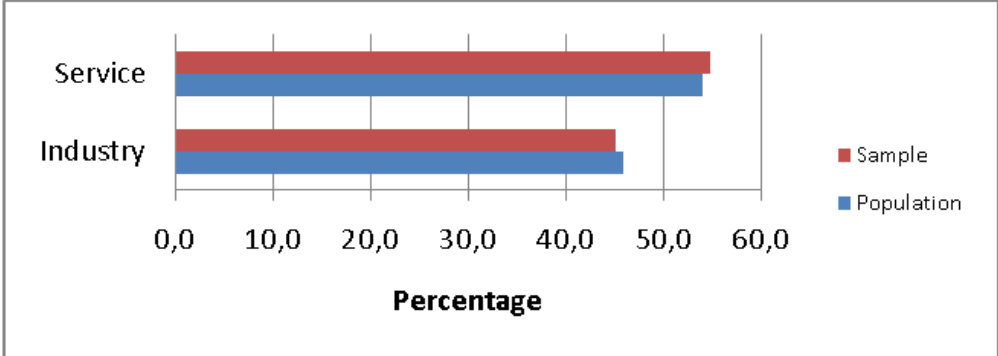


Source: IWH 2008

More than two thirds of enterprises of the inward population are classified as small and medium-sized enterprises (SME) with an amount of employees between 10 and 250 (see table A9 and graph 2). Large firms with more than 250 employees account for 11.2% of the population. Compared to the population small enterprises are only slightly overweight in the sample. Hence, the null is not rejected, when the employment size of enterprises with a multinational investor is considered.

Sorted by sectors, 54.1% of the East German enterprises with a multinational investor belong to the service sector, while 45.9% are part of the industrial sector (see table A13 and graph 3). These figures remain nearly constant in the sample. Hence, the null hypothesis of an identical distribution of the sample and the population cannot be rejected.

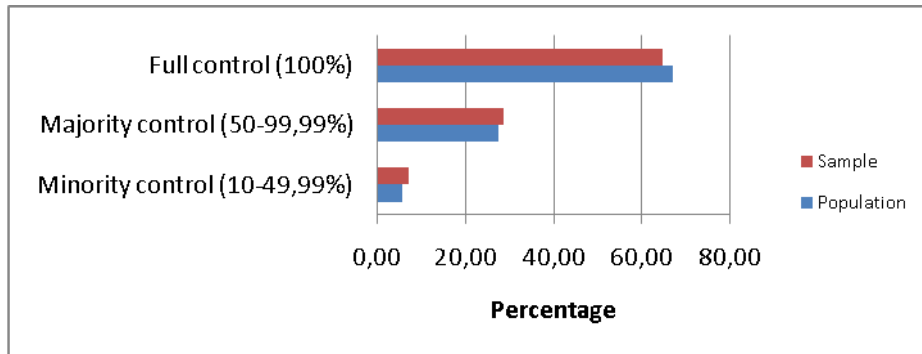
*Graph 3: Distribution of enterprises with a multinational investor sorted by sectors*



Source: IWH 2008

The analysis of the ownership structure measured by the company shares held by multinational investors (see table A21, Graph 10), shows that more than two thirds of the population’s enterprises are completely owned by their multinational investor. An additional share of more than 25% holds a majority control of its East German affiliate. This relation remains constant in the sample. Hence, the null hypothesis cannot be rejected.

Graph 4: Distribution of enterprises with a multinational investor by ownership structure



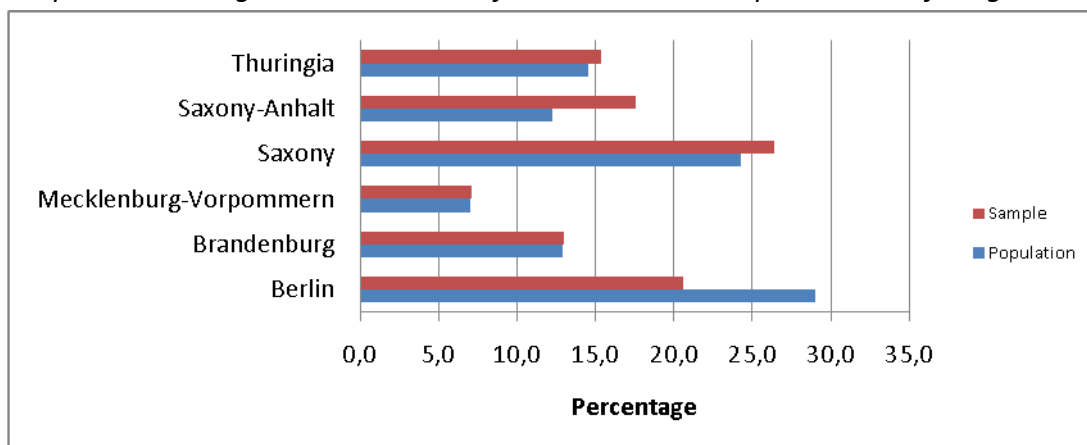
Source: IWH 2008

Compared to the population of enterprises with a multinational investor, the figures are quite similar among enterprises with a foreign investor (see table A22 and graph 4). More than two thirds of the companies have a multinational investor holding the complete company share. In the sample, the figures hardly change. Hence, the assumption cannot be rejected.

### 1.2 Foreign Investors

The distribution of enterprises with a foreign investor shows that 29% of the population is located in Berlin followed by Saxony with a share of 24.3%. In the sample, the federal capital is so weakly represented (20.6%) that the state of Saxony hosts the largest share of enterprises with a foreign investor (26.4%). The state of Saxony-Anhalt is overweight in the sample (17.5 vs. 12.2%). The null hypothesis can be rejected, since the differences between both distributions are significantly pronounced (see table A3 and graph 5).

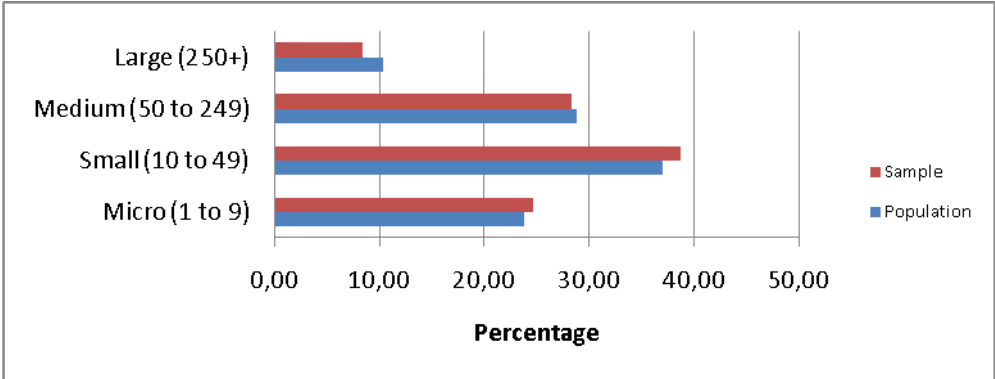
Graph 5: Regional distribution of East German enterprises with a foreign investor



Source: IWH 2008

Excluding Berlin, the largest amount of enterprises with a foreign investor is resident in the region of Oberes Elbtal/Osterzgebirge around Dresden with a population share of 8.1% (see table A4). In the sample, the overweight of the state of Saxony-Anhalt bases on the high sample share of the region around the city of Halle (8.7% vs. 4.4%), which is the region with the second largest frequency in the sample. The hypothesis of an identical distribution can be rejected on the regional level, since the distributional differences are significant.

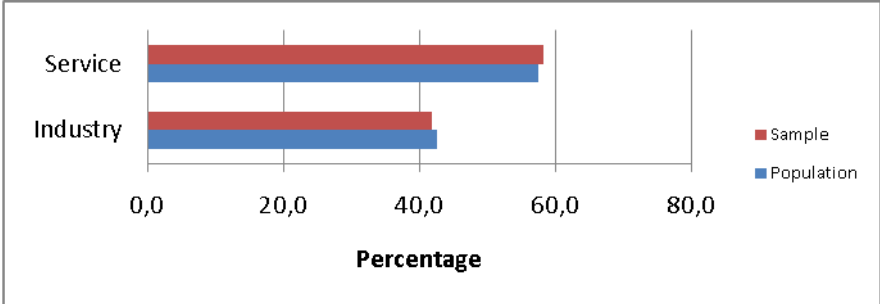
Graph 6: Distribution of East German enterprises with a foreign investor by employment size



Source: IWH 2008

The employment size figures above are similar among enterprises with a foreign investor (see table A10 and graph 6). Within the population, 37.0% of the enterprises are classified as small firms, while 28.8% are considered as medium-sized. Compared to the sample, large companies are underrepresented (-3.6%) and medium-sized firms are overrepresented (+2.0%). These deviations are too small to lead to a rejection of an identical distribution.

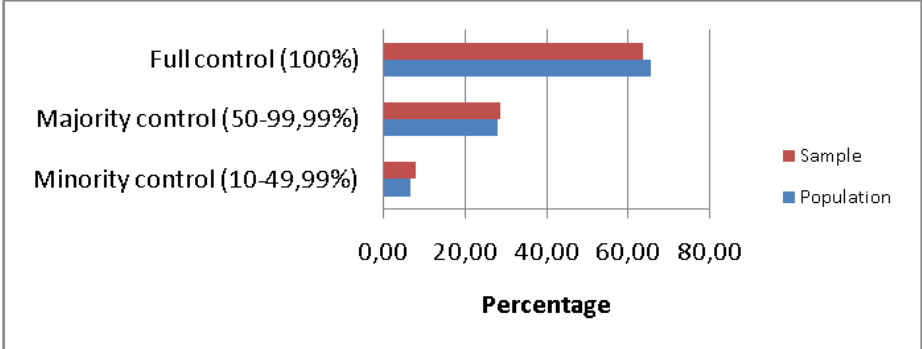
Graph 7: Distribution of East German enterprises with a foreign investor sorted by sectors



Source: IWH 2008

The population of enterprises with foreign investors (see table A15 and graph 7) shows that 57.1% of the enterprises are part of the service sector. In the sample, this figure is almost identical to the population. Thus, the assumption of an identical distribution cannot be rejected.

Graph 8: Distribution of enterprises with a foreign investor by ownership structure

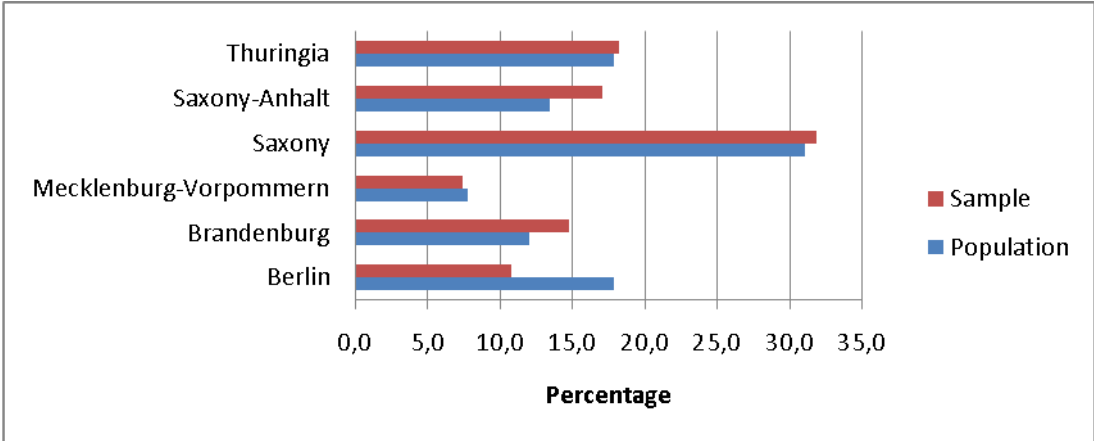


Source: IWH 2008

Compared to the population of enterprises with a multinational investor, the figures are quite similar among enterprises with a foreign investor (see table A22 and graph 8). More than two thirds of the companies have a multinational investor holding the complete company share. In the sample, the figures hardly change. Hence, the assumption cannot be rejected.

**1.3 West German Multinational Investors**

*Graph 9: Regional distribution of East German enterprises with a West German investor*

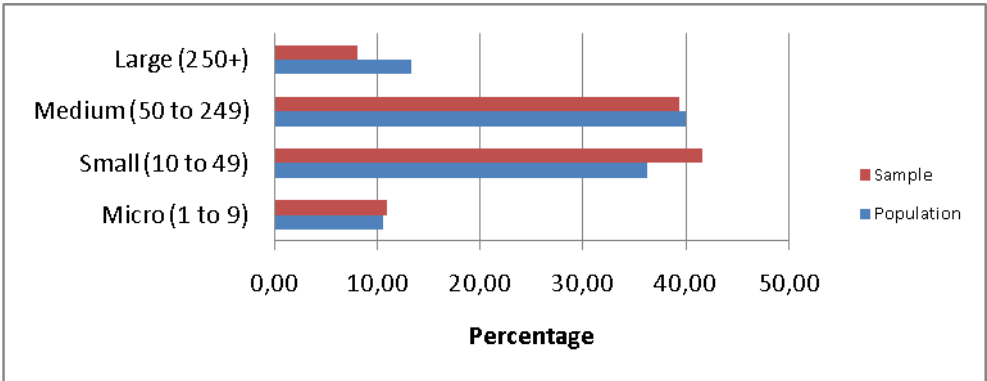


Source: IWH 2008

Within the population of enterprises with a West German investor (see table A5 and graph 9), the state of Saxony covers 31.0%, followed by Berlin and Thuringia with a share of 17.9%, each. In the sample the share of Saxony slightly increases to 31.8%, while Berlin accounts for only 10.8% of the sample. Despite these differences, the null hypotheses cannot be rejected.

Referring to the amount of enterprises with a West German investor outside of Berlin (see table A6), the Saxon regions around the cities of Dresden, Leipzig and Chemnitz account for the largest shares within the population. In the sample, the region of Halle comprises 10.2% of the relevant companies (compared to 4.4% in the population), which is nearly as much as in the federal capital. Nevertheless, the null hypothesis is not rejected.

*Graph 10: Distribution of enterprises with a West German investor by employment size*



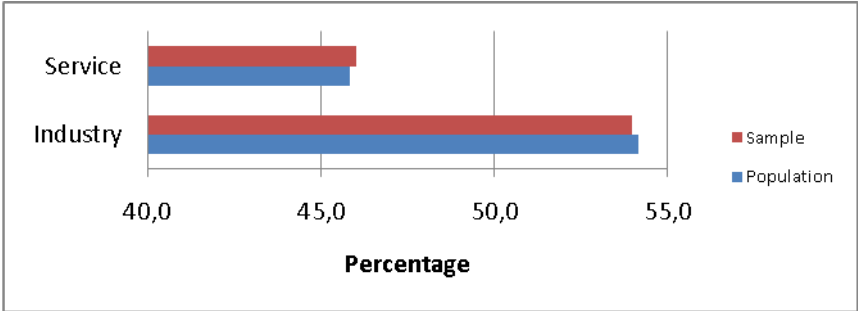
Source: IWH 2008

Among the firms held by a West German investor (see table A11 and graph 10), three quarters of the relevant enterprises are classified as small or medium-sized, respectively, while micro enterprises with less than 10 employees account for only 10.5%. Compared to the population, the share of small firms (+5.4%) and large companies (-5.2%) deviate. Despite the sample's deviation from the population, the null hypothesis is not rejected.

The consideration of the figures of enterprises with a West German investor (see table A16) sorted by branches, leads to the conclusion that population structure is almost of the same pattern as the distribution of the population of the enterprises with a multinational investor. Business service providers and companies belonging to the branch of wholesale are again the most frequent branches. The deviations are not as pronounced as in the population of enterprises with a multinational investor. Hence, the null hypothesis cannot be rejected.

Compared to the population distribution among enterprises with a foreign investor, most of the enterprises with a West German investor (see table 17 and graph 11) belong to the industrial sector (54.0%). As this figure is hardly different in the sample, the null hypothesis cannot be rejected.

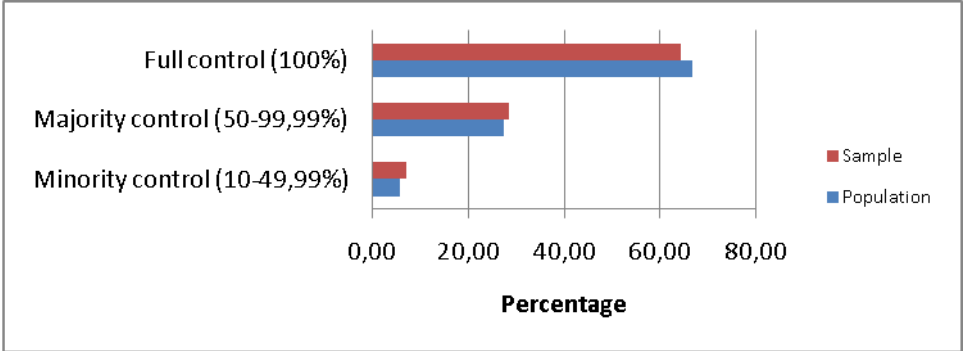
*Graph 11: Distribution of East German enterprises with a West German investor sorted by sectors*



Source: IWH 2008

Within the population of enterprises with a West German investor (table A23, graph 12), nearly 70% of the companies have an investor with the full control over its affiliate in East Germany. These enterprises are slightly underrepresented in the sample (-2.8%). Nevertheless the null hypothesis cannot be rejected.

*Graph 12: Distribution of enterprises with a West German investor by ownership structure*



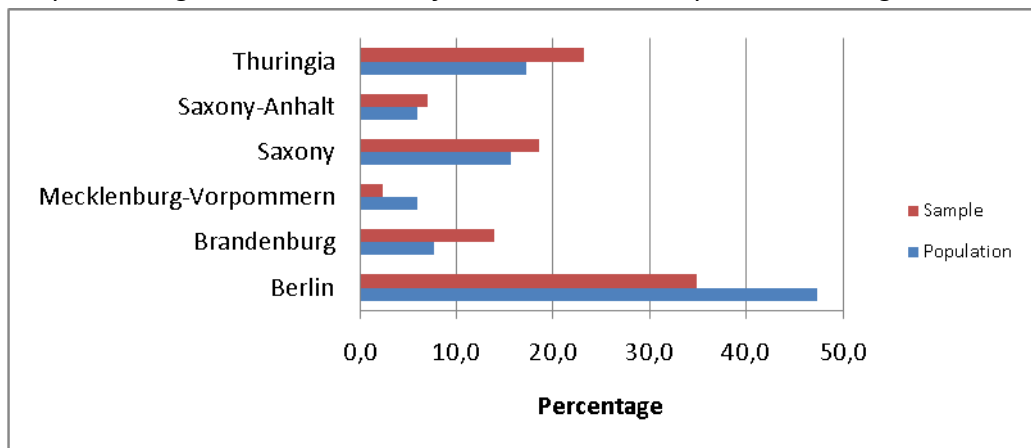
Source: IWH 2008



## 2. East German Enterprises investing abroad

The regional distribution of East German enterprises investing abroad reflects Berlin's dominant position within East Germany (see table A7 and graph 13), since almost the half of the concerning companies are located in the federal capital. Excluding Berlin, the federal states of Thuringia and Saxony account for two thirds of the East German companies with foreign investments. In the sample, the federal states of Thuringia and Brandenburg have an increased share (+6% each), while the federal capital is underrepresented (-12.9%). Despite these deviations, the null hypothesis cannot be rejected.

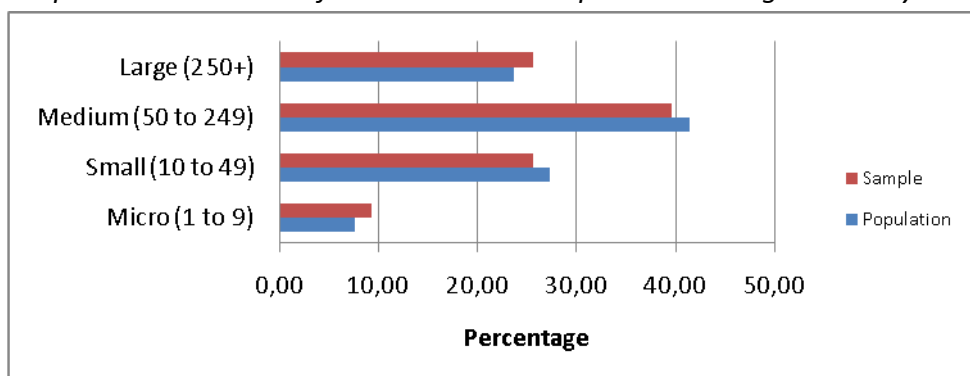
*Graph 13: Regional distribution of East German enterprises investing abroad*



Source: IWH 2008

On a regional level (see table A8), the regions of East Thuringia and West Saxony host the largest share of companies investing abroad, while there is not any company coming from Vorpommern meeting the criteria to be counted as a company with foreign investments. The sample amplifies the regional discrepancies above as 6 of the 22 regions are not included in the sample of investing enterprises located in East Germany. Despite the difference described above, the null hypotheses cannot be rejected on the regional level.

*Graph 14: Distribution of East German enterprises investing abroad by enterprise size*



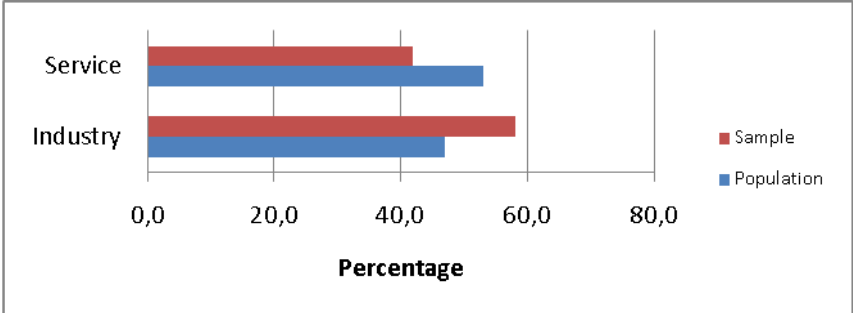
Source: IWH 2008

Compared to the distribution of enterprises with a multinational investor by employment size, the figures of East German companies holding foreign investments show a shift towards larger-scaled companies (see table A12 and graph 14). Two thirds of these companies

employ at least 50 individuals. The sample is slightly biased toward large enterprises with more than 250 employees. Hence, the null hypothesis is not rejected, neither.

Taking only East German enterprises holding foreign investments into account, there are more enterprises belonging to the service sector (53%) than to the industrial one (see table A19 and graph 15). This figure is almost identical to the relation among enterprises with multinational investors. Despite a large shift towards the industrial production in the sample, the null hypothesis testing the identical distribution between the sample and the population is not rejected.

Graph 15: Regional distribution of East German enterprises investing abroad by sectors

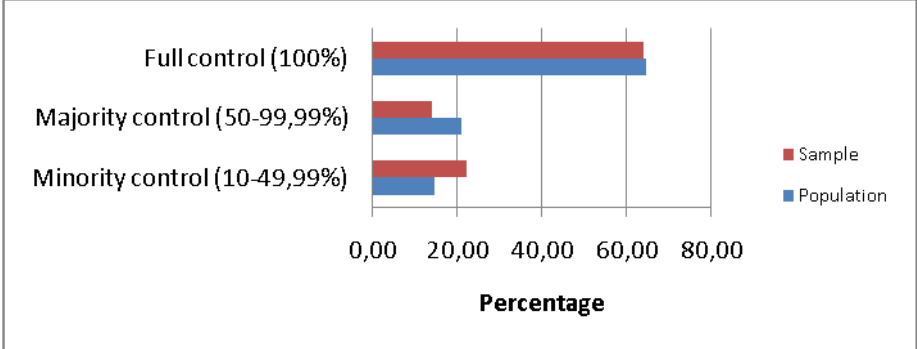


Source: IWH 2008

Due to the lower sized population of enterprises investing abroad (see table 20), the population contains only 32 of the 44 analyzed branches. Beyond that, only 18 branches are part of the sample. Compared to the population, the chemical industry (WZ 2003 Code 24) is overweight (11.6 vs. 4.0%). Nevertheless, the null hypothesis cannot be rejected.

Nearly two thirds of the East German enterprises holdings investments abroad (see table A24 and graph 16) have the full control over a least one of its subsidiaries outside Germany. An additional share of around 20% has a majority control over at least one of its affiliates. In the sample, the East German enterprises hold a minority share are overweight (+7.7%) at the expense of companies with a majority control (-7.0%). Nevertheless, the null hypothesis cannot be rejected.

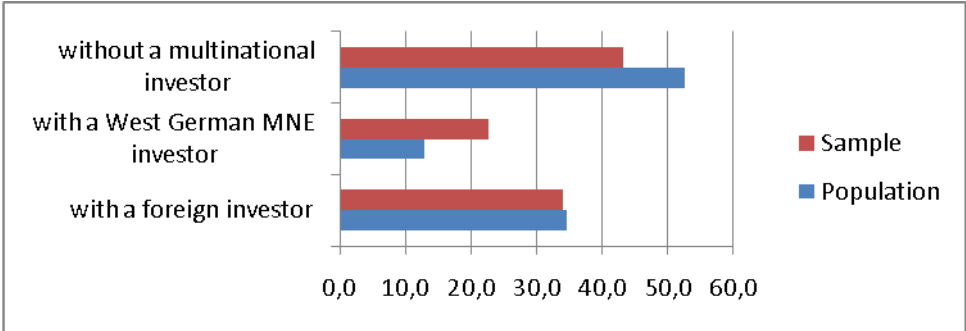
Graph 16: Distribution of East German enterprises investing abroad by ownership structure



Source: IWH 2008

The analysis of the ownership structure of East German enterprises investing abroad shows that slightly more than the half (52,6%) of the enterprises are originally East German (see table A25 and Graph 17), since 34.5% or 12.9% of these companies have either a foreign or a West German multinational investor, respectively. Despite the underweight of companies without a multinational enterprise (-9,4%) and the overweight of the enterprises having a Western German investor (+9,9%), the assumption of an identical distribution of the population and the corresponding sample is not rejected.

*Graph 17 Distribution of East German Enterprises investing abroad by ownership structure*



Source: IWH 2008

## A ANNEX

**Table A1** Number of enterprises with multinational investors per federal state

Enterprises per federal state	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
Berlin	912	25,8	114	17,9	164	-7,9
Brandenburg	448	12,7	86	13,5	81	0,8
Mecklenburg-Vorpommern	256	7,2	46	7,2	46	0,0
Saxony	928	26,2	178	27,9	167	1,7
Saxony-Anhalt	445	12,6	111	17,4	80	4,8
Thuringia	549	15,5	103	16,1	99	0,6
<b>Total</b>	<b>3.538</b>	<b>100</b>	<b>638</b>	<b>100</b>	<b>638</b>	
Missing	0					
Chi-Square-Test	28,445					
DF	5					
<b>Asymptotic significance</b>	<b>0,0000</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A2** Number of enterprises with multinational investors per region

Enterprises per federal state	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
ALTMARK	20	0,6	1	0,2	4	-0,4
BERLIN	912	25,8	114	17,9	164	-7,9
CHEMNITZ-ERZGEBIRGE	184	5,2	31	4,9	33	-0,3
DESSAU	86	2,4	17	2,7	16	0,2
HALLE/S.	161	4,6	58	9,1	29	4,5
HAVELLAND-FLÄMING	156	4,4	27	4,2	28	-0,2
LAUSITZ-SPREEWALD	118	3,3	21	3,3	21	-0,0
MAGDEBURG	178	5,0	35	5,5	32	0,5
MECKLENBURGISCHE SEENPLATTE	43	1,2	8	1,3	8	0,0
MITTELTHÜRINGEN	165	4,7	41	6,4	30	1,8
MITTLERES MECKLENBURG/ROSTOCK	80	2,3	11	1,7	14	-0,5
NORDTHÜRINGEN	63	1,8	11	1,7	11	-0,1
OBERES ELBTAL/OSTERZGEBIRGE	296	8,4	54	8,5	53	0,1
OBERLAUSITZ-NIEDERSCHLESIEIN	123	3,5	26	4,1	22	0,6
ODERLAND-SPREE	79	2,2	19	3,0	14	0,7
OSTTHÜRINGEN	191	5,4	35	5,5	34	0,1
PRIGNITZ-OBERHAVEL	57	1,6	11	1,7	10	0,1
SÜDTHÜRINGEN	130	3,7	16	2,5	23	-1,2
SÜDWESTSACHSEN	113	3,2	32	5,0	20	1,8
UCKERMARK-BARNIM	38	1,1	8	1,3	7	0,2
VORPOMMERN	52	1,5	11	1,7	9	0,3
WESTMECKLENBURG	81	2,3	16	2,5	15	0,2
WESTSACHSEN	212	6,0	35	5,5	38	-0,5
<b>Total</b>	<b>3.538</b>	<b>100</b>	<b>638</b>	<b>100</b>	<b>638</b>	0,0
Missing	0					
Chi-Square-Test	64,132					
DF	22					
<b>Asymptotic significance</b>	<b>0,0000</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A3 Number of enterprises with foreign investors per federal state**

Enterprises per federal state	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
Berlin	729	29,0	95	20,6	134	-8,4
Brandenburg	325	12,9	60	13,0	60	0,1
Mecklenburg-Vorpommern	176	7,0	33	7,1	32	0,1
Saxony	610	24,3	122	26,4	112	2,1
Saxony-Anhalt	307	12,2	81	17,5	56	5,3
Thuringia	366	14,6	71	15,4	67	0,8
<b>Total</b>	<b>2.513</b>	<b>100</b>	<b>462</b>	<b>100</b>	<b>462</b>	
Missing						
<i>Chi-Square-Test</i>	23,134					
<i>DF</i>	5					
<b>Asymptotic significance</b>	<b>0,0003</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A4 Number of enterprises with foreign investors per region**

Enterprises per region	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
ALTMARK	14	0,6	0	0,0	3	-0,6
BERLIN	729	29,0	95	20,6	134	-8,4
CHEMNITZ-ERZGEBIRGE	111	4,4	20	4,3	20	-0,1
DESSAU	62	2,5	14	3,0	11	0,6
HALLE/S.	111	4,4	40	8,7	20	4,2
HAVELLAND-FLÄMING	112	4,5	19	4,1	21	-0,3
LAUSITZ-SPREEWALD	87	3,5	14	3,0	16	-0,4
MAGDEBURG	120	4,8	27	5,8	22	1,1
MECKLENBURGISCHE SEENPLATTE	27	1,1	5	1,1	5	0,0
MITTELTHÜRINGEN	114	4,5	29	6,3	21	1,7
MITTLERES MECKLENBURG/ROSTOCK	55	2,2	8	1,7	10	-0,5
NORDTHÜRINGEN	39	1,6	8	1,7	7	0,2
ÖBERES ELBTAL/OSTERZGEBIRGE	204	8,1	37	8,0	38	-0,1
OBERLAUSITZ-NIEDERSCHLESIEIN	88	3,5	19	4,1	16	0,6
ODERLAND-SPREE	57	2,3	14	3,0	10	0,8
OSTTHÜRINGEN	133	5,3	24	5,2	24	-0,1
PRIGNITZ-OBERHADEL	43	1,7	6	1,3	8	-0,4
SÜDTHÜRINGEN	80	3,2	10	2,2	15	-1,0
SÜDWESTSACHSEN	67	2,7	21	4,5	12	1,9
UCKERMARK-BARNIM	26	1,0	7	1,5	5	0,5
VORPOMMERN	35	1,4	9	1,9	6	0,6
WESTMECKLENBURG	59	2,3	11	2,4	11	0,0
WESTSACHSEN	140	5,6	25	5,4	26	-0,2
<b>Total</b>	<b>2.513</b>	<b>100</b>	<b>462</b>	<b>100</b>	<b>462</b>	<b>0</b>
Missing						
<i>Chi-Square-Test</i>	50,304					
<i>DF</i>	22					
<b>Asymptotic significance</b>	<b>0,0005</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A5 Number of enterprises with West German multinational investors per federal state**

Enterprises per federal state	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
Berlin	183	17,9	19	10,8	31	-7,1
Brandenburg	123	12,0	26	14,8	21	2,8
Mecklenburg-Vorpommern	80	7,8	13	7,4	14	-0,4
Saxony	318	31,0	56	31,8	55	0,8
Saxony-Anhalt	138	13,5	30	17,0	24	3,6
Thuringia	183	17,9	32	18,2	31	0,3
<b>Total</b>	<b>1.025</b>	<b>100</b>	<b>176</b>	<b>100</b>	<b>176</b>	
Missing						
<i>Chi-Square-Test</i>	7,802					
<i>DF</i>	5					
<b>Asymptotic significance</b>	<b>0,1675</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A6 Number of enterprises with West German multinational investors per region**

Enterprises per federal state	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
ALTMARK	6	0,6	1	0,6	1	-0,0
BERLIN	183	17,9	19	10,8	31	-7,1
CHEMNITZ-ERZGEBIRGE	73	7,1	11	6,3	13	-0,9
DESSAU	24	2,3	3	1,7	4	-0,6
HALLE/S.	50	4,9	18	10,2	9	5,3
HAVELLAND-FLÄMING	44	4,3	8	4,5	8	0,3
LAUSITZ-SPREEWALD	31	3,0	7	4,0	5	1,0
MAGDEBURG	58	5,7	8	4,5	10	-1,1
MECKLENBURGISCHE SEENPLATTE	16	1,6	3	1,7	3	0,1
MITTELTHÜRINGEN	51	5,0	12	6,8	9	1,8
MITTLERES MECKLENBURG/ROSTOCK	25	2,4	3	1,7	4	-0,7
NORDTHÜRINGEN	24	2,3	3	1,7	4	-0,6
OBERES ELBTAL/OSTERZGEBIRGE	92	9,0	17	9,7	16	0,7
OBERLAUSITZ-NIEDERSCHLESIEIN	35	3,4	7	4,0	6	0,6
ODERLAND-SPREE	22	2,1	5	2,8	4	0,7
OSTTHÜRINGEN	58	5,7	11	6,3	10	0,6
PRIGNITZ-OBERHAVEL	14	1,4	5	2,8	2	1,5
SÜDTHÜRINGEN	50	4,9	6	3,4	9	-1,5
SÜDWESTSACHSEN	46	4,5	11	6,3	8	1,8
UCKERMARK-BARNIM	12	1,2	1	0,6	2	-0,6
VORPOMMERN	17	1,7	2	1,1	3	-0,5
WESTMECKLENBURG	22	2,1	5	2,8	4	0,7
WESTSACHSEN	72	7,0	10	5,7	12	-1,3
<b>Total</b>	<b>1.025</b>	<b>100</b>	<b>176</b>	<b>100</b>	<b>176</b>	<b>0</b>
Missing						
<i>Chi-Square-Test</i>	25,829					
<i>DF</i>	22					
<b>Asymptotic significance</b>	<b>0,2591</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A7 Number of East German enterprises with foreign investments per federal state**

Enterprises per federal state	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
Berlin	118	47,4	15	34,9	20	-12,5
Brandenburg	19	7,6	6	14,0	3	6,3
Mecklenburg-Vorpommern	15	6,0	1	2,3	3	-3,7
Saxony	39	15,7	8	18,6	7	2,9
Saxony-Anhalt	15	6,0	3	7,0	3	1,0
Thuringia	43	17,3	10	23,3	7	6,0
<b>Total</b>	<b>249</b>	<b>100</b>	<b>43</b>	<b>100</b>	<b>43</b>	
Missing	0					
Chi-Square-Test	5,843					
DF	5					
<b>Asymptotic significance</b>	<b>0,3218</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A8 Number of East German enterprises with foreign investments per region**

Enterprises per federal state	Population		Sample		Expected Sample Value	Deviation in %
	Frequency	%	Frequency	%		
ALTMARK	1	0,4	0	0,0	0	-0,4
BERLIN	118	47,4	15	34,9	20	-12,5
CHEMNITZ-ERZGEBIRGE	4	1,6	1	2,3	1	0,7
DESSAU	2	0,8	1	2,3	0	1,5
HALLE/S.	4	1,6	0	0,0	1	-1,6
HAVELLAND-FLÄMING	4	1,6	2	4,7	1	3,0
LAUSITZ-SPREEWALD	5	2,0	2	4,7	1	2,6
MAGDEBURG	8	3,2	2	4,7	1	1,4
MECKLENBURGISCHE SEENPLATTE	5	2,0	0	0,0	1	-2,0
MITTELTHÜRINGEN	9	3,6	4	9,3	2	5,7
MITTLERES MECKLENBURG/ROSTOCK	4	1,6	1	2,3	1	0,7
NORDTHÜRINGEN	5	2,0	1	2,3	1	0,3
OBERES ELBTAL/OSTERZGEBIRGE	8	3,2	3	7,0	1	3,8
OBERLAUSITZ-NIEDERSCHLESIEN	7	2,8	2	4,7	1	1,8
ODERLAND-SPREE	3	1,2	1	2,3	1	1,1
OSTTHÜRINGEN	21	8,4	4	9,3	4	0,9
PRIGNITZ-OBERHAVEL	5	2,0	1	2,3	1	0,3
SÜDTHÜRINGEN	8	3,2	1	2,3	1	-0,9
SÜDWESTSACHSEN	3	1,2	0	0,0	1	-1,2
UCKERMARK-BARNIM	2	0,8	0	0,0	0	-0,8
VORPOMMERN	0	0,0	0	0,0	0	0,0
WESTMECKLENBURG	6	2,4	0	0,0	1	-2,4
WESTSACHSEN	17	6,8	2	4,7	3	-2,2
<b>Total</b>	<b>249</b>	<b>100</b>	<b>43</b>	<b>100</b>	<b>43</b>	<b>0</b>
Missing	0					
Chi-Square-Test	18,014					
DF	21					
<b>Asymptotic significance</b>	<b>0,6481</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A9 Number of enterprises with multinational investors per employment size**

Enterprises per size	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Micro (1 to 9)	686	19,89	131	20,86	125	1,0
Small (10 to 49)	1.268	36,76	248	39,49	231	2,7
Medium (50 to 249)	1.107	32,10	197	31,37	202	-0,7
Large (250+)	388	11,25	52	8,28	71	-3,0
<b>Total</b>	<b>3.449</b>	<b>100,0</b>	<b>628</b>	<b>100,0</b>	<b>628</b>	
Missing	89					
Chi-Square-Test	6,592					
DF	3					
<b>Asymptotic significance</b>	<b>0,0861</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A10 Number of enterprises with foreign investors per employment size**

Enterprises per size	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Micro (1 to 9)	579	23,80	112	24,62	108	0,8
Small (10 to 49)	900	36,99	176	38,68	168	1,7
Medium (50 to 249)	701	28,81	129	28,35	131	-0,5
Large (250+)	253	10,40	38	8,35	47	-2,0
<b>Total</b>	<b>2.433</b>	<b>100,0</b>	<b>455</b>	<b>100,0</b>	<b>455</b>	
Missing	80					
Chi-Square-Test	2,346					
DF	3					
<b>Asymptotic significance</b>	<b>0,5037</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A11 Number of enterprises with West German multinational investors per employment size**

Enterprises per size	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Micro (1 to 9)	107	10,53	19	10,98	18	0,5
Small (10 to 49)	368	36,22	72	41,62	63	5,4
Medium (50 to 249)	406	39,96	68	39,31	69	-0,7
Large (250+)	135	13,29	14	8,09	23	-5,2
<b>Total</b>	<b>1.016</b>	<b>100,0</b>	<b>173</b>	<b>100,0</b>	<b>173</b>	
Missing	9					
Chi-Square-Test	4,957					
DF	3					
<b>Asymptotic significance</b>	<b>0,1749</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A12 Number of East German enterprises with foreign investments per employment size**

Enterprises per size	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Micro (1 to 9)	19	7,63	4	9,30	3	1,7
Small (10 to 49)	68	27,31	11	25,58	12	-1,7
Medium (50 to 249)	103	41,37	17	39,53	18	-1,8
Large (250+)	59	23,69	11	25,58	10	1,9
<b>Total</b>	<b>249</b>	<b>100,0</b>	<b>43</b>	<b>100,0</b>	<b>43</b>	
Missing	0					
Chi-Square-Test	0,304					
DF	3					
<b>Asymptotic significance</b>	<b>0,9593</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change



**Table A13 Number of enterprises with multinational investors per sector**

Enterprises per branch	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Industry	1.625	45,9	288	45,1	293	-0,8
Service	1.913	54,1	350	54,9	345	0,8
<b>Total</b>	<b>3.538</b>	<b>100</b>	<b>638</b>	<b>100</b>	<b>638</b>	
Missing	0					
Chi-Square-Test	0,160					
DF	1					
<b>Asymptotic significance</b>	<b>0,6893</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A14 Number of enterprises with multinational investors per branch (WZ 2003)**

Enterprises per sector (WZ 2003)	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
10	2	0,06	0	0,00	0	-0,1
13	1	0,03	0	0,00	0	0,0
14	30	0,85	5	0,78	5	-0,1
15	133	3,76	17	2,66	24	-1,1
16	3	0,08	0	0,00	1	-0,1
17	49	1,39	6	0,94	9	-0,4
18	8	0,23	0	0,00	1	-0,2
19	4	0,11	3	0,47	1	0,4
20	42	1,19	10	1,57	8	0,4
21	62	1,75	13	2,04	11	0,3
22	104	2,94	14	2,19	19	-0,7
23	11	0,31	4	0,63	2	0,3
24	146	4,13	26	4,08	26	-0,1
25	114	3,22	26	4,08	21	0,9
26	162	4,58	29	4,55	29	0,0
27	65	1,84	19	2,98	12	1,1
28	233	6,59	56	8,78	42	2,2
29	232	6,56	32	5,02	42	-1,5
30	26	0,74	5	0,78	5	0,0
31	96	2,72	13	2,04	17	-0,7
32	98	2,77	24	3,76	18	1,0
33	133	3,76	29	4,55	24	0,8
34	80	2,26	11	1,72	14	-0,5
35	44	1,24	3	0,47	8	-0,8
36	59	1,67	11	1,72	11	0,1
37	43	1,22	6	0,94	8	-0,3
40	107	3,03	23	3,61	19	0,6
41	10	0,28	3	0,47	2	0,2
51	393	11,12	67	10,50	71	-0,6
52	4	0,11	1	0,16	1	0,0
60	41	1,16	6	0,94	7	-0,2
61	5	0,14	0	0,00	1	-0,1
62	5	0,14	1	0,16	1	0,0
63	99	2,80	22	3,45	18	0,6
64	28	0,79	5	0,78	5	0,0
65	14	0,40	4	0,63	3	0,2
66	7	0,20	0	0,00	1	-0,2
67	19	0,54	1	0,16	3	-0,4
72	155	4,38	23	3,61	28	-0,8
73	84	2,38	28	4,39	15	2,0
74	500	14,14	78	12,23	90	-1,9
90	37	1,05	10	1,57	7	0,5
92	46	1,30	4	0,63	8	-0,7
93	1	0,03	0	0,00	0	0,0
<b>Total</b>	<b>3.535</b>	<b>100</b>	<b>638</b>	<b>100</b>	<b>638</b>	<b>0</b>
Missing	0					
Chi-Square-Test	63,899					
DF	43					
<b>Asymptotic significance</b>	<b>0,0209</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A15 Number of enterprises with foreign investors per sector**

Enterprises per branch	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Industry	1.070	42,6	193	41,8	197	-0,8
Service	1.443	57,4	269	58,2	265	0,8
<b>Total</b>	<b>2.513</b>	<b>100</b>	<b>462</b>	<b>100</b>	<b>462</b>	
Missing						
Chi-Square-Test	0,122					
DF	1					
<b>Asymptotic significance</b>	<b>0,7268</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A16 Number of enterprises with foreign investors per branch (WZ 2003)**

Enterprises per sector (WZ 2003)	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
10	2	0,08	0	0,00	0	-0,1
13	1	0,04	0	0,00	0	0,0
14	15	0,60	1	0,22	3	-0,4
15	96	3,82	10	2,16	18	-1,7
16	3	0,12	0	0,00	1	-0,1
17	40	1,59	6	1,30	7	-0,3
18	7	0,28	0	0,00	1	-0,3
19	3	0,12	2	0,43	1	0,3
20	34	1,35	8	1,73	6	0,4
21	49	1,95	10	2,16	9	0,2
22	70	2,79	10	2,16	13	-0,6
23	8	0,32	3	0,65	1	0,3
24	114	4,54	22	4,76	21	0,2
25	78	3,11	14	3,03	14	-0,1
26	109	4,34	23	4,98	20	0,6
27	50	1,99	16	3,46	9	1,5
28	172	6,85	41	8,87	32	2,0
29	139	5,54	19	4,11	26	-1,4
30	24	0,96	4	0,87	4	-0,1
31	72	2,87	8	1,73	13	-1,1
32	81	3,23	20	4,33	15	1,1
33	95	3,78	22	4,76	17	1,0
34	58	2,31	11	2,38	11	0,1
35	33	1,31	3	0,65	6	-0,7
36	43	1,71	8	1,73	8	0,0
37	27	1,08	4	0,87	5	-0,2
40	43	1,71	8	1,73	8	0,0
41	6	0,24	2	0,43	1	0,2
51	286	11,39	53	11,47	53	0,1
52	0	0,00	0	0,00	0	0,0
60	27	1,08	6	1,30	5	0,2
61	2	0,08	0	0,00	0	-0,1
62	4	0,16	1	0,22	1	0,1
63	79	3,15	17	3,68	15	0,5
64	18	0,72	3	0,65	3	-0,1
65	5	0,20	1	0,22	1	0,0
66	2	0,08	0	0,00	0	-0,1
67	9	0,36	1	0,22	2	-0,1
72	121	4,82	15	3,25	22	-1,6
73	61	2,43	23	4,98	11	2,5
74	383	15,26	60	12,99	70	-2,3
90	16	0,64	5	1,08	3	0,4
92	25	1,00	2	0,43	5	-0,6
93	0	0,00	0	0,00	0	0,0
<b>Total</b>	<b>2.510</b>	<b>100</b>	<b>462</b>	<b>100</b>	<b>462</b>	<b>0</b>
Missing						
Chi-Square-Test	52,126					
DF	41					
<b>asymptotic significance</b>	<b>0,1142</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A17 Number of enterprises with West German multinational investors per sector**

Enterprises per branch	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Industry	555	54,1	95	54,0	95	-0,2
Service	470	45,9	81	46,0	81	0,2
<b>Total</b>	<b>1.025</b>	<b>100</b>	<b>176</b>	<b>100</b>	<b>176</b>	
Missing	0					
Chi-Square-Test	0,002					
DF	1					
<b>Asymptotic significance</b>	<b>0,9641</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A18 Number of enterprises with West German multinational investors per branch (WZ 2003)**

Enterprises per sector (WZ 2003)	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
10	0	0,00	0	0,00	0	0,0
13	0	0,00	0	0,00	0	0,0
14	15	1,46	4	2,27	3	0,8
15	37	3,61	7	3,98	6	0,4
16	0	0,00	0	0,00	0	0,0
17	9	0,88	0	0,00	2	-0,9
18	1	0,10	0	0,00	0	-0,1
19	1	0,10	1	0,57	0	0,5
20	8	0,78	2	1,14	1	0,4
21	13	1,27	3	1,70	2	0,4
22	34	3,32	4	2,27	6	-1,0
23	3	0,29	1	0,57	1	0,3
24	32	3,12	4	2,27	5	-0,8
25	36	3,51	12	6,82	6	3,3
26	53	5,17	6	3,41	9	-1,8
27	15	1,46	3	1,70	3	0,2
28	61	5,95	15	8,52	10	2,6
29	93	9,07	13	7,39	16	-1,7
30	2	0,20	1	0,57	0	0,4
31	24	2,34	5	2,84	4	0,5
32	17	1,66	4	2,27	3	0,6
33	38	3,71	7	3,98	7	0,3
34	22	2,15	0	0,00	4	-2,1
35	11	1,07	0	0,00	2	-1,1
36	16	1,56	3	1,70	3	0,1
37	16	1,56	2	1,14	3	-0,4
40	64	6,24	15	8,52	11	2,3
41	4	0,39	1	0,57	1	0,2
51	107	10,44	14	7,95	18	-2,5
52	4	0,39	1	0,57	1	0,2
60	14	1,37	0	0,00	2	-1,4
61	3	0,29	0	0,00	1	-0,3
62	1	0,10	0	0,00	0	-0,1
63	20	1,95	5	2,84	3	0,9
64	10	0,98	2	1,14	2	0,2
65	9	0,88	3	1,70	2	0,8
66	5	0,49	0	0,00	1	-0,5
67	10	0,98	0	0,00	2	-1,0
72	34	3,32	8	4,55	6	1,2
73	23	2,24	5	2,84	4	0,6
74	117	11,41	18	10,23	20	-1,2
90	21	2,05	5	2,84	4	0,8
92	21	2,05	2	1,14	4	-0,9
93	1	0,10	0	0,00	0	-0,1
<b>Total</b>	<b>1.025</b>	<b>100</b>	<b>176</b>	<b>100</b>	<b>176</b>	<b>0</b>
Missing	0					
Chi-Square-Test	38,749					
DF	40					
<b>Asymptotic significance</b>	<b>0,5265</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A19 Number of East German enterprises with foreign investments per sector**

Enterprises per branch	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Industry	117	47,0	25	58,1	20	11,2
Service	132	53,0	18	41,9	23	-11,2
<b>Total</b>	<b>249</b>	<b>100</b>	<b>43</b>	<b>100</b>	<b>43</b>	
Missing	0					
Chi-Square-Test	2,147					
DF	1					
<b>Asymptotic significance</b>	<b>0,1429</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A20 Number of East German enterprises with foreign investments per branch (WZ 2003)**

Enterprises per sector (WZ 2003)	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
10	0	0,00	0	0,00	0	0,0
13	0	0,00	0	0,00	0	0,0
14	0	0,00	0	0,00	0	0,0
15	8	3,21	2	4,65	1	1,4
16	0	0,00	0	0,00	0	0,0
17	3	1,20	1	2,33	1	1,1
18	0	0,00	0	0,00	0	0,0
19	0	0,00	0	0,00	0	0,0
20	1	0,40	0	0,00	0	-0,4
21	5	2,01	0	0,00	1	-2,0
22	9	3,61	3	6,98	2	3,4
23	1	0,40	0	0,00	0	-0,4
24	10	4,02	5	11,63	2	7,6
25	6	2,41	0	0,00	1	-2,4
26	1	0,40	0	0,00	0	-0,4
27	3	1,20	2	4,65	1	3,4
28	10	4,02	1	2,33	2	-1,7
29	25	10,04	5	11,63	4	1,6
30	2	0,80	1	2,33	0	1,5
31	8	3,21	4	9,30	1	6,1
32	9	3,61	2	4,65	2	1,0
33	16	6,43	1	2,33	3	-4,1
34	2	0,80	0	0,00	0	-0,8
35	0	0,00	0	0,00	0	0,0
36	5	2,01	0	0,00	1	-2,0
37	2	0,80	0	0,00	0	-0,8
40	2	0,80	0	0,00	0	-0,8
41	0	0,00	0	0,00	0	0,0
51	25	10,04	3	6,98	4	-3,1
52	0	0,00	0	0,00	0	0,0
60	0	0,00	0	0,00	0	0,0
61	1	0,40	0	0,00	0	-0,4
62	1	0,40	0	0,00	0	-0,4
63	6	2,41	1	2,33	1	-0,1
64	1	0,40	1	2,33	0	1,9
65	2	0,80	1	2,33	0	1,5
66	0	0,00	0	0,00	0	0,0
67	2	0,80	0	0,00	0	-0,8
72	16	6,43	0	0,00	3	-6,4
73	7	2,81	1	2,33	1	-0,5
74	58	23,29	9	20,93	10	-2,4
90	1	0,40	0	0,00	0	-0,4
92	1	0,40	0	0,00	0	-0,4
93	0	0,00	0	0,00	0	0,0
<b>Total</b>	<b>249</b>	<b>100</b>	<b>43</b>	<b>100</b>	<b>43</b>	<b>0</b>
Missing	0					
Chi-Square-Test	34,246					
DF	31					
<b>Asymptotic significance</b>	<b>0,3146</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A21 Number of East German Enterprises with a multinational investor per share of company**

Enterprises per ownership structure	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Minority control (10-49,99%)	144	5,59	33	7,05	26	1,5
Majority control (50-99,99%)	708	27,51	133	28,42	129	0,9
Full control (100%)	1.722	66,90	302	64,53	313	-2,4
<b>Total</b>	<b>2.574</b>	<b>100,0</b>	<b>468</b>	<b>100,0</b>	<b>468</b>	
Missing	964					
Chi-Square-Test	2,310					
DF	2					
<b>Asymptotic significance</b>	<b>0,3150</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A22 Number of East German Enterprises with a foreign investor per share of company**

Enterprises per ownership structure	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Minority control (10-49,99%)	115	6,42	26	7,69	22	1,3
Majority control (50-99,99%)	500	27,90	97	28,70	94	0,8
Full control (100%)	1.177	65,68	215	63,61	222	-2,1
<b>Total</b>	<b>1.792</b>	<b>100,0</b>	<b>338</b>	<b>100,0</b>	<b>338</b>	
Missing	721					
Chi-Square-Test	1,154					
DF	2					
<b>Asymptotic significance</b>	<b>0,5617</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A23 Number of East German Enterprises with a West German investor per share of company**

Enterprises per ownership structure	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Minority control (10-49,99%)	29	3,71	7	5,38	5	1,7
Majority control (50-99,99%)	208	26,60	36	27,69	35	1,1
Full control (100%)	545	69,69	87	66,92	91	-2,8
<b>Total</b>	<b>782</b>	<b>100,0</b>	<b>130</b>	<b>100,0</b>	<b>130</b>	
Missing	243					
Chi-Square-Test	1,187					
DF	2					
<b>Asymptotic significance</b>	<b>0,5525</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A24 Number of East German Enterprises with an investment abroad per share of company**

Enterprises per ownership structure	Population		Sample		Expected Sample	Deviation in %
	Frequency	%	Frequency	%		
Minority control (10-49,99%)	32	14,55	8	22,22	5	7,7
Majority control (50-99,99%)	46	20,91	5	13,89	8	-7,0
Full control (100%)	142	64,55	23	63,89	23	-0,7
<b>Total</b>	<b>220</b>	<b>100,0</b>	<b>36</b>	<b>100,0</b>	<b>36</b>	
Missing	29					
Chi-Square-Test	2,310					
DF	2					
<b>Asymptotic significance</b>	<b>0,3151</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change

**Table A25 Number of East German Enterprises with an investment abroad by ownership structure**

Enterprises per ownership structure	Population		Sample		Expected Sample	Deviation (in %)
	Frequency	in %	Frequency	in %		
with a foreign investor	86	34,5	15	34,1	15	-0,4
with a West German MNE investor	32	12,9	10	22,7	6	9,9
without a multinational investor	131	52,6	19	43,2	23	-9,4
<b>Total</b>	<b>249</b>	<b>100,0</b>	<b>44</b>	<b>100,0</b>	<b>44</b>	
Missing	0					
Chi-Square-Test	4,085					
DF	2					
<b>Asymptotic significance</b>	<b>0,1297</b>					

Source: IWH FDI-Micro Database 2008, Department of Structural Change