## Annex A1

Table A1.1
Brazil: urban male workers by independent variables category and formal or informal sector, 1980–2010

(Percentages)

	19	1980 1991			20	00	2010	
Independent variables	Informal	Formal	Informal	Formal	Informal	Formal	Informal	Formal
Age-education indicators								
Aged 15–24, less than complete primary	34.13	16.62	26.74	12.49	16.56	6.73	8.62	3.29
Aged 15–24, complete primary	4.93	6.64	4.62	5.90	7.30	6.20	7.72	5.26
Aged 15–24, complete secondary	1.62	3.84	1.92	4.07	3.93	6.76	5.84	8.62
Aged 15–24, complete university	0.15	0.24	0.15	0.35	0.20	0.38	0.28	0.62
Aged 25–34, less than complete primary	18.61	20.01	20.63	14.99	17.21	11.73	11.12	6.64
Aged 25–34, complete primary	1.63	4.66	3.90	6.50	4.83	6.54	5.38	5.77
Aged 25–34, complete secondary	1.24	5.37	2.81	8.26	4.45	10.00	7.63	14.37
Aged 25–34, complete university	0.46	2.47	0.53	2.94	0.78	2.88	1.51	4.22
Aged 35–49, less than complete primary	21.33	20.92	21.97	18.79	20.84	15.26	19.08	11.57
Aged 35–49, complete primary	0.98	2.87	1.91	4.25	4.59	6.32	5.98	6.33
Aged 35–49, complete secondary	0.74	2.89	1.46	5.54	4.30	9.78	6.56	12.03
Aged 35–49, complete university	0.36	2.20	0.52	4.12	1.06	5.24	1.50	5.07
Aged 50–64, less than complete primary	13.00	8.75	11.72	8.67	10.86	7.16	12.01	6.94
Aged 50–64, complete primary	0.37	0.90	0.47	0.94	1.20	1.34	2.67	2.48
Aged 50–64, complete secondary	0.25	0.83	0.39	1.09	1.18	1.80	2.95	3.99
Aged 50–64, complete university	0.19	0.79	0.27	1.10	0.71	1.88	1.13	2.80
Race or colour								
Non-white	52.19	34.35	55.56	38.92	49.37	37.56	55.83	45.97
White	47.81	65.65	44.44	61.08	50.63	62.44	44.17	54.03
Marital status								
Unmarried	57.51	39.59	40.08	30.34	58.97	46.28	64.30	53.48
Married	42.49	60.41	59.92	69.66	41.03	53.72	35.70	46.52
Religion								
Non-Protestant	94.77	93.97	92.63	91.89	86.48	86.46	80.32	79.49
Protestant	5.23	6.03	7.37	8.11	13.52	13.54	19.68	20.51
Region								_
North	5.30	2.50	7.84	3.24	8.22	4.34	9.65	5.31
North-East	29.38	13.87	31.09	14.88	27.30	15.42	27.75	15.95
South	11.36	17.09	12.59	17.32	13.26	18.11	12.89	17.73
South-East	44.27	61.20	38.02	58.51	42.01	54.91	40.41	52.80
Centre-West	9.69	5.33	10.45	6.04	9.21	7.22	9.29	8.21
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Formal/informal sector								
Population percentage	22.65	77.35	30.79	69.21	40.91	59.09	33.45	66.55
Sample size	975 900	3 333 210	854 733	1 921 091	1 352 379	1 953 426	1 240 454	2 468 030
Total sample size	4 309	9 110	2 775	5 824	3 305	5 805	3 708	3 484

Source: Brazilian Institute of Geography and Statistics (IBGE), Brazilian Demographic Censuses of 1980, 1991, 2000 and 2010.

Table A1.2

Brazil: average monthly real incomes of urban male workers by independent variables category and formal or informal sector, 1980–2010

(Constant reais at 2010 prices)

Indomendent wordebles	19	80	199	91	20	00	20	10
Independent variables	Informal	Formal	Informal	Formal	Informal	Formal	Informal	Formal
Age-education indicators								
Aged 15–24, less than complete primary	416.80	639.49	355.16	493.23	420.72	579.71	467.15	694.84
Aged 15–24, complete primary	573.38	813.47	565.46	671.01	527.71	679.18	528.55	725.51
Aged 15–24, complete secondary	955.42	1 307.42	798.16	999.18	842.36	1 024.30	748.15	939.00
Aged 15–24, complete university	1 523.25	2 636.32	1 222.29	1 757.34	1 545.82	2 325.39	1 569.66	1 829.81
Aged 25–34, less than complete primary	717.37	1 048.75	570.31	755.21	705.90	857.04	681.08	878.81
Aged 25–34, complete primary	1 346.28	1 636.21	975.39	1 117.13	1 108.13	1 225.89	912.40	1 044.38
Aged 25–34, complete secondary	1 960.23	2 425.66	1 430.37	1 705.39	1 563.82	1 855.62	1 234.28	1 411.19
Aged 25–34, complete university	3 229.54	4 771.23	2 660.41	3 316.43	2 936.76	4 169.23	2 846.49	3 315.17
Aged 35–49, less than complete primary	815.55	1 319.97	664.84	1 018.63	840.87	1 176.60	819.64	1 066.03
Aged 35–49, complete primary	2 132.00	2 525.90	1 258.76	1 660.46	1 367.20	1 809.59	1 198.81	1 411.59
Aged 35–49, complete secondary	3 233.28	3 792.14	1 975.94	2 535.42	2 148.13	3 032.83	1 720.32	2 096.14
Aged 35–49, complete university	5 631.51	6 693.26	4 300.66	5 066.40	4 461.99	6 478.57	4 217.73	5 161.21
Aged 50–64, less than complete primary	745.45	1 326.77	612.53	1 003.57	843.11	1 373.27	839.15	1 205.08
Aged 50–64, complete primary	2 332.67	2 930.67	1 573.44	2 096.54	1 593.31	2 484.86	1 325.19	1 736.50
Aged 50-64, complete secondary	3 972.71	4 328.56	2 527.99	3 271.40	2 473.39	4 017.80	1 987.10	2 759.65
Aged 50–64, complete university	6 017.05	7 061.40	4 919.62	6 003.43	5 679.71	8 311.60	4 796.99	6 675.99
Race or colour								
Non-white	574.27	1 014.89	519.55	896.46	700.38	1 192.20	798.49	1 260.80
White	940.12	1 891.40	862.05	1 707.01	1 232.43	2 383.37	1 352.00	2 196.53
Marital status								
Unmarried	545.43	1 036.82	465.30	887.06	735.76	1 340.03	847.97	1 349.11
Married	1 024.99	1 953.09	809.90	1 611.23	1 306.00	2 449.32	1 390.94	2 242.22
Religion								
Non-Protestant	745.50	1 596.51	669.12	1 406.29	967.72	1 988.86	1 044.25	1 841.85
Protestant	815.91	1 493.61	705.09	1 224.54	982.83	1 598.30	1 033.95	1 467.11
Region								
North	899.15	1 428.38	760.42	1 343.60	873.32	1 651.34	924.92	1 603.83
North-East	511.63	1 268.53	450.02	1 015.66	642.31	1 436.47	702.38	1 402.27
South	832.87	1 452.88	721.12	1 283.73	1 052.49	1 889.65	1 182.19	1 776.59
South-East	842.61	1 700.88	791.73	1 511.10	1 150.33	2 095.81	1 224.66	1 858.04
Centre-West	862.49	1 674.90	769.01	1 494.39	1 083.97	2 074.89	1 271.70	2 004.30
Total	749.18	1 590.31	671.77	1 391.55	969.76	1 935.99	1 042.24	1 765.12

Source: Brazilian Institute of Geography and Statistics (IBGE), Brazilian Demographic Censuses of 1980, 1991, 2000 and 2010.

Note: Incomes are adjusted by the IBGE national consumer price index (INPC) to correct for currency movements and inflation(https://www.ibge.gov.br/en/statistics/economic/prices-and-costs/17136-national-consumer-pricee-index.html?=&t=o-que-e)

Table A1.3

Brazil: coefficients and standard errors estimated by ordinary least squares regression from equation (4) for the logarithm of urban male workers' individual earnings as the dependent variable, 1980–2010

dependent variable, 1980–2010								
Independent variables	1980	1991	2000	2010				
Formal or informal sector								
Informal	Reference	Reference	Reference	Reference				
	category	category	category	category				
Formal	0.371***	0.258***	0.281***	0.283***				
	(0.001)	(0.001)	(0.001)	(0.001)				
Age-education indicators								
Aged 15–24, less than complete primary	Reference	Reference	Reference	Reference				
	category	category	category	category				
Aged 15–24, complete primary	-0.039***	-0.572***	-0.394***	0.114***				
	(0.007)	(0.013)	(0.011)	(0.015)				
Aged 15–24, complete secondary	0.358***	-0.085***	-0.241***	-0.293***				
	(0.008)	(0.012)	(0.008)	(0.009)				
Aged 15–24, complete university	1.036***	0.378***	0.570***	0.483***				
	(0.027)	(0.033)	(0.025)	(0.020)				
Aged 25–34, less than complete primary	-0.336***	0.405***	0.485***	0.235***				
	(0.007)	(0.009)	(0.006)	(0.006)				
Aged 25–34, complete primary	0.273***	0.075***	-0.025**	-0.417***				
	(0.008)	(0.012)	(0.011)	(0.015)				
Aged 25–34, complete secondary	0.564***	0.283***	0.112***	-0.142***				
	(0.008)	(0.010)	(0.008)	(0.008)				
Aged 25–34, complete university	1.202***	0.905***	0.959***	0.653***				
	(0.009)	(0.013)	(0.010)	(0.009)				
Aged 35–49, less than complete primary	0.661***	0.714***	0.820***	0.500***				
	(0.007)	(0.009)	(0.007)	(0.007)				
Aged 35–49, complete primary	0.751***	0.453***	0.424***	0.012				
	(0.009)	(0.012)	(0.010)	(0.011)				
Aged 35–49, complete secondary	0.918***	0.781***	0.676***	0.280***				
	(0.010)	(0.011)	(0.009)	(0.008)				
Aged 35–49, complete university	1.400***	1.262***	1.331***	0.917***				
	(0.009)	(0.011)	(0.009)	(0.009)				
Aged 50–64, less than complete primary	0.571***	0.698***	0.738***	0.446***				
	(0.007)	(0.011)	(0.009)	(0.008)				
Aged 50–64, complete primary	0.861***	0.683***	0.534***	0.309***				
	(0.013)	(0.018)	(0.015)	(0.012)				
Aged 50-64, complete secondary	1.080***	0.992***	0.960***	0.645***				
	(0.015)	(0.018)	(0.014)	(0.010)				
Aged 50–64, complete university	1.469***	1.418***	1.518***	1.209***				
	(0.014)	(0.018)	(0.013)	(0.012)				

Independent variables	1980	1991	2000	2010
Proportions in age-education groups				
Aged 15–24, less than complete primary	-1.143***	-1.588***	-1.737***	-3.337***
	(0.015)	(0.021)	(0.020)	(0.047)
Aged 15–24, complete primary	-0.592***	6.669***	2.163***	-3.733***
	(0.071)	(0.160)	(0.106)	(0.153)
Aged 15–24, complete secondary	-0.423***	8.369***	6.498***	3.520***
	(0.156)	(0.267)	(0.112)	(0.098)
Aged 15–24, complete university	_	71.660***	71.411***	6.067*
	35.999***			
	(8.128)	(7.974)	(6.089)	(3.472)
Aged 25–34, less than complete primary	2.101***	-3.507***	-3.639***	-3.593***
	(0.032)	(0.050)	(0.040)	(0.044)
Aged 25–34, complete primary	4.493***	3.229***	6.655***	9.864***
	(0.197)	(0.203)	(0.201)	(0.284)
Aged 25–34, complete secondary	5.748***	5.645***	7.814***	4.135***
, ,	(0.166)	(0.148)	(0.111)	(0.064)
Aged 25–34, complete university	11.514***	14.690***	19.936***	11.365***
	(0.360)	(0.477)	(0.459)	(0.285)
Aged 35–49, less than complete primary	-2.951***	-4.047***	-4.424***	-3.663***
	(0.032)	(0.044)	(0.035)	(0.034)
Aged 35–49, complete primary	-0.683**	0.868***	1.241***	4.148***
	(0.295)	(0.326)	(0.178)	(0.186)
Aged 35–49, complete secondary	9.508***	2.997***	3.908***	2.910***
	(0.353)	(0.237)	(0.119)	(0.080)
Aged 35–49, complete university	16.960***	10.220***	10.901***	11.971***
	(0.371)	(0.282)	(0.229)	(0.245)
Aged 50–64, less than complete primary	-4.984***	-7.294***	-6.570***	-4.459***
	(0.056)	(0.079)	(0.070)	(0.059)
Aged 50–64, complete primary	-7. <del>4</del> 37***	-9.369***	2.754***	-0.211
	(0.876)	(1.249)	(0.845)	(0.383)
Aged 50–64, complete secondary	10.734***	1.145	4.239***	0.793***
•	(1.275)	(1.121)	(0.632)	(0.236)
Aged 50–64, complete university	26.037***	18.686***	18.659***	12.714***
	(1.363)	(1.252)	(0.687)	(0.462)

Independent variables	1980	1991	2000	2010
Race or colour				
Non-white	Reference	Reference	Reference	Reference
	category	category	category	category
White	0.190***	0.238***	0.204***	0.159***
	(0.001)	(0.001)	(0.001)	(0.001)
Marital status				
Unmarried	Reference	Reference	Reference	Reference
	category	category	category	category
Married	0.291***	0.326***	0.257***	0.200***
	(0.001)	(0.001)	(0.001)	(0.001)
Religion				
Non-Protestant	Reference	Reference	Reference	Reference
	category	category	category	category
Protestant	-0.031***	-0.021***	-0.035***	-0.046***
	(0.001)	(0.002)	(0.001)	(0.001)
Region				
North	-0.025***	0.006**	-0.104***	-0.067***
	(0.002)	(0.003)	(0.002)	(0.002)
North-East	-0.309***	-0.406***	-0.347***	-0.271***
	(0.001)	(0.002)	(0.001)	(0.001)
South	-0.163***	-0.168***	-0.101***	0.001
	(0.001)	(0.001)	(0.001)	(0.001)
South-East	Reference	Reference	Reference	Reference
	category	category	category	category
Centre-West	-0.070***	-0.024***	0.011***	0.098***
	(0.001)	(0.002)	(0.002)	(0.002)
Constant	8.491***	10.720***	5.455***	6.351***
	(0.003)	(0.005)	(0.003)	(0.005)
R <sup>2</sup>	0.478	0.433	0.470	0.423
Sample size	4 309 104	2 775 824	3 305 805	3 708 484

Table A1.4

Brazil: coefficients and standard errors estimated by ordinary least squares regression from equation (5) for the logarithm of urban male workers' individual earnings as the dependent variable, 1980–2010

dependent var				
Independent variables	1980	1991	2000	2010
Formal or informal sector				
Informal	Reference	Reference	Reference	Reference
	category	category	category	category
Formal	0.377***	0.207***	0.321***	0.441***
	(0.001)	(0.002)	(0.002)	(0.003)
Age-education indicators	_	_		_
Aged 15–24, less than complete primary	Reference	Reference	Reference	Reference
	category	category	category	category
Aged 15–24, complete primary	-0.074***	-0.619***	-0.375***	0.112***
riged 13 24, complete primary	(0.008)	(0.013)	(0.012)	(0.016)
Aged 15–24, complete secondary	0.318***	-0.165***	-0.198***	-0.170***
riged 13 21, complete secondary	(0.010)	(0.014)	(0.009)	(0.010)
Aged 15–24, complete university	0.716***	0.134***	0.478***	0.626***
riged 13 24, complete university	(0.036)	(0.042)	(0.029)	(0.025)
Aged 25–34, less than complete primary	-0.281***	0.411***	0.607***	0.375***
riged 25 54, less than complete primary	(0.007)	(0.010)	(0.007)	(0.007)
Aged 25–34, complete primary	0.422***	0.060***	0.044***	-0.261***
riged 25 51, complete primary	(0.010)	(0.013)	(0.011)	(0.015)
Aged 25–34, complete secondary	0.679***	0.250***	0.188***	0.039***
11gea 20 c i, compress secondary	(0.011)	(0.012)	(0.009)	(0.009)
Aged 25–34, complete university	1.096***	0.812***	0.928***	0.819***
11gea 20 c i, compress am valuely	(0.016)	(0.020)	(0.013)	(0.012)
Aged 35–49, less than complete primary	0.658***	0.566***	0.842***	0.648***
11gea oo 19, 1000 uuun oompioo pinnaag	(0.008)	(0.010)	(0.007)	(0.008)
Aged 35–49, complete primary	0.931***	0.363***	0.457***	0.162***
g,	(0.012)	(0.014)	(0.010)	(0.012)
Aged 35–49, complete secondary	1.127***	0.661***	0.661***	0.447***
	(0.014)	(0.014)	(0.009)	(0.009)
Aged 35–49, complete university	1.563***	1.193***	1.252***	1.032***
	(0.016)	(0.020)	(0.012)	(0.013)
Aged 50–64, less than complete primary	0.469***	0.523***	0.688***	0.521***
1 1 1	(0.009)	(0.012)	(0.009)	(0.009)
Aged 50–64, complete primary	0.898***	0.547***	0.510***	0.433***
	(0.020)	(0.024)	(0.016)	(0.013)
Aged 50–64, complete secondary	1.148***	0.817***	0.874***	0.730***
	(0.025)	(0.026)	(0.016)	(0.012)
Aged 50–64, complete university	1.538***	1.267***	1.412***	1.206***
	(0.026)	(0.030)	(0.017)	(0.016)

Independent variables	1980	1991	2000	2010
Interactions of age-education indicators and formal				
or informal sector				
Aged 15–24, less than complete primary x formal	Reference	Reference	Reference	Reference
sector	category	category	category	category
Aged 15–24, complete primary x formal sector	0.062***	-0.020***	-0.011***	-0.040***
	(0.004)	(0.005)	(0.004)	(0.004)
Aged 15–24, complete secondary x formal sector,	0.051***	0.068***	-0.072***	-0.148***
	(0.007)	(0.008)	(0.004)	(0.004)
Aged 15–24, complete university x formal sector,	0.350***	0.280***	0.124***	-0.178***
	(0.025)	(0.033)	(0.020)	(0.019)
Aged 25–34, less than complete primary x formal	-0.049***	-0.004	-0.135***	-0.172***
sector				
	(0.002)	(0.003)	(0.003)	(0.004)
Aged 25–34, complete primary x formal sector	-0.183***	-0.065***	-0.188***	-0.252***
	(0.006)	(0.006)	(0.004)	(0.005)
Aged 25–34, complete secondary x formal sector	-0.122***	0.006	-0.121***	-0.247***
	(0.008)	(0.007)	(0.005)	(0.004)
Aged 25–34, complete university x formal sector	0.116***	0.078***	0.033***	-0.205***
	(0.013)	(0.017)	(0.010)	(0.009)
Aged 35–49, less than complete primary x formal	0.001	0.116***	-0.034***	-0.179***
sector	(0.002)	(0.000)	(0.002)	(0.004)
1. 1.25 10	(0.002)	(0.003)	(0.003)	(0.004)
Aged 35–49, complete primary x formal sector	-0.199***	0.081***	-0.060***	-0.264***
1 125 10 1 1 1 1 1	(0.009)	(0.009)	(0.005)	(0.005)
Aged 35–49, complete secondary x formal sector	-0.215***	0.112***	0.023***	-0.221***
1 125 40 1 1 1 1 1 1 1 1	(0.010)	(0.010)	(0.005)	(0.005)
Aged 35–49, complete university x formal sector	-0.164***	0.051***	0.086***	-0.144***
A 150 (4.1 d. 1 d	(0.013)	(0.018)	(0.009)	(0.010)
Aged 50–64, less than complete primary x formal	0.081***	0.160***	0.0/3***	-0.076***
sector	(0.002)	(0.004)	(0.004)	(0.004)
A and 50, 64, complete mimory w formed as the	(0.003) -0.039**	(0.004) 0.138***	(0.004) 0.059***	(0.004) -0.153***
Aged 50–64, complete primary x formal sector				
Aged 50–64, complete secondary x formal sector	(0.017) -0.070***	(0.020) 0.177***	(0.010) 0.127***	(0.007) -0.097***
Aged 50–04, complete secondary x formal sector				
Aged 50–64, complete university x formal sector	(0.021) -0.070***	(0.022) 0.144***	(0.010) 0.125***	(0.007) -0.002
Aged 50-04, complete university x formal sector		011.1	***	
	(0.023)	(0.027)	(0.012)	(0.012)

Independent variables	1980	1991	2000	2010
Proportions in age-education groups				
Aged 15–24, less than complete primary	-1.119***	-1.776***	-1.669***	-2.761***
	(0.015)	(0.022)	(0.020)	(0.049)
Aged 15–24, complete primary	-0.719***	7.144***	2.076***	-3.127***
	(0.071)	(0.163)	(0.106)	(0.152)
Aged 15–24, complete secondary	-0.451***	8.347***	6.623***	3.490***
	(0.156)	(0.269)	(0.113)	(0.099)
Aged 15–24, complete university	-27.537***	67.314***	70.429***	6.441*
	(8.125)	(7.956)	(6.079)	(3.491)
Aged 25–34, less than complete primary	2.036***	-3.765***	-4.000***	-3.655***
	(0.032)	(0.050)	(0.040)	(0.045)
Aged 25–34, complete primary	5.050***	4.036***	7.840***	10.629**
				*
	(0.197)	(0.206)	(0.203)	(0.286)
Aged 25–34, complete secondary	5.804***	5.735***	8.030***	4.317***
	(0.166)	(0.149)	(0.112)	(0.065)
Aged 25–34, complete university	11.506***	14.727***	19.749***	11.429**
				*
	(0.360)	(0.477)	(0.460)	(0.285)
Aged 35–49, less than complete primary	-2.918***	-3.850***	-4.416***	-3.726***
	(0.033)	(0.045)	(0.035)	(0.034)
Aged 35–49, complete primary	-0.502*	0.784**	1.384***	5.115***
	(0.294)	(0.329)	(0.180)	(0.189)
Aged 35–49, complete secondary	9.252***	2.905***	3.795***	3.040***
	(0.353)	(0.238)	(0.119)	(0.080)
Aged 35–49, complete university	16.797***	10.267***	10.753***	11.967**
				*
	(0.371)	(0.283)	(0.229)	(0.245)
Aged 50–64, less than complete primary	-4.555***	-6.982***	-6.389***	-4.404***
	(0.058)	(0.080)	(0.070)	(0.059)
Aged 50–64, complete primary	-7.350***	-9.715***	2.053**	-0.247
	(0.876)	(1.251)	(0.848)	(0.387)
Aged 50–64, complete secondary	10.827***	1.030	4.060***	0.688***
	(1.274)	(1.121)	(0.631)	(0.236)
Aged 50–64, complete university	26.025***	18.642***	18.657***	12.621**
				*
	(1.363)	(1.252)	(0.685)	(0.461)

Independent variables	1980	1991	2000	2010
Race or colour				
Non-white	Reference	Reference	Reference	Reference
	category	category	category	category
White	0.190***	0.237***	0.203***	0.159***
	(0.001)	(0.001)	(0.001)	(0.001)
Marital status				
Unmarried	Reference	Reference	Reference	Reference
	category	category	category	category
Married	0.292***	0.326***	0.257***	0.201***
	(0.001)	(0.001)	(0.001)	(0.001)
Religion				
Non-Protestant	Reference	Reference	Reference	Reference
	category	category	category	category
Protestant	-0.031***	-0.021***	-0.034***	-0.047***
	(0.001)	(0.002)	(0.001)	(0.001)
Region				
North	-0.027***	0.010***	-0.105***	-0.068***
	(0.002)	(0.003)	(0.002)	(0.002)
North-East	-0.309***	-0.401***	-0.346***	-0.270***
	(0.001)	(0.002)	(0.001)	(0.001)
South	-0.163***	-0.168***	-0.101***	0.001
	(0.001)	(0.001)	(0.001)	(0.001)
South-East	Reference	Reference	Reference	Reference
	category	category	category	category
Centre-West	-0.070***	-0.022***	0.012***	0.097***
	(0.001)	(0.002)	(0.002)	(0.002)
Constant	8.482***	10.786***	5.428***	6.224***
	(0.004)	(0.005)	(0.004)	(0.006)
$\mathbb{R}^2$	0.479	0.434	0.471	0.424
Sample size	4 309 104	2 775 824	3 305 805	3 708 484

Table A1.5

Brazil: coefficients and standard errors estimated by ordinary least squares regression from equation (6) for the logarithm of urban male workers' individual earnings as the dependent variable, 1980–2010

dependent v	ariabie, 1980	-2010		
Independent variables	1980	1991	2000	2010
Formal or informal sector				
Proportion of male workers in the formal sector	1.381***	1.921***	1.610***	1.442***
•	(0.004)	(0.006)	(0.008)	(0.006)
Age-education indicators				
Aged 15–24, less than complete primary	Reference	Reference	Reference	Reference
	category	category	category	category
Aged 15–24, complete primary	0.483***	0.286***	0.045***	0.107***
	(0.008)	(0.013)	(0.012)	(0.016)
Aged 15–24, complete secondary	0.887***	0.667***	0.189***	0.252***
	(0.008)	(0.012)	(0.009)	(0.010)
Aged 15–24, complete university	1.464***	0.912***	0.862***	0.778***
	(0.028)	(0.034)	(0.026)	(0.020)
Aged 25–34, less than complete primary	-0.079***	0.259***	0.402***	0.231***
	(0.007)	(0.009)	(0.006)	(0.006)
Aged 25–34, complete primary	0.880***	0.869***	0.443***	0.071***
	(0.009)	(0.012)	(0.011)	(0.015)
Aged 25–34, complete secondary	1.202***	1.106***	0.579***	0.413***
	(0.008)	(0.011)	(0.008)	(0.008)
Aged 25–34, complete university	1.736***	1.529***	1.290***	0.982***
	(0.009)	(0.013)	(0.010)	(0.010)
Aged 35–49, less than complete primary	0.374***	0.453***	0.687***	0.395***
	(0.007)	(0.009)	(0.007)	(0.007)
Aged 35–49, complete primary	1.183***	1.099***	0.793***	0.438***
	(0.009)	(0.013)	(0.010)	(0.012)
Aged 35–49, complete secondary	1.434***	1.479***	1.107***	0.718***
	(0.010)	(0.011)	(0.009)	(0.009)
Aged 35–49, complete university	1.854***	1.866***	1.676***	1.236***
	(0.009)	(0.011)	(0.009)	(0.010)
Aged 50–64, less than complete primary	0.462***	0.595***	0.659***	0.382***
	(0.008)	(0.011)	(0.009)	(0.008)
Aged 50–64, complete primary	1.188***	1.157***	0.798***	0.541***
	(0.013)	(0.018)	(0.016)	(0.012)
Aged 50-64, complete secondary	1.449***	1.490***	1.263***	0.906***
	(0.015)	(0.018)	(0.014)	(0.010)
Aged 50–64, complete university	1.822***	1.900***	1.806***	1.468***
	(0.014)	(0.018)	(0.013)	(0.012)

Independent variables	1980	1991	2000	2010
Proportions in age-education groups				
Aged 15–24, less than complete primary	-0.014	0.218***	-0.773***	-1.771***
	(0.016)	(0.022)	(0.021)	(0.050)
Aged 15–24, complete primary	-3.226***	0.210	-0.443***	-1.942***
	(0.073)	(0.161)	(0.109)	(0.158)
Aged 15–24, complete secondary	-5.117***	-0.024	3.112***	-0.610***
	(0.159)	(0.269)	(0.115)	(0.103)
Aged 15–24, complete university	-82.941***	32.559***	47.786***	-10.955***
	(8.471)	(8.085)	(6.234)	(3.487)
Aged 25–34, less than complete primary	2.323***	0.070	-1.611***	-1.562***
	(0.032)	(0.050)	(0.041)	(0.046)
Aged 25–34, complete primary	-3.597***	-4.502***	1.125***	3.806***
	(0.198)	(0.205)	(0.203)	(0.286)
Aged 25–34, complete secondary	-1.731***	-1.165***	3.985***	0.768***
	(0.167)	(0.149)	(0.113)	(0.067)
Aged 25–34, complete university	0.750**	5.057***	14.396***	7.188***
	(0.368)	(0.481)	(0.468)	(0.288)
Aged 35–49, less than complete primary	0.101***	-0.367***	-2.541***	-1.736***
	(0.034)	(0.045)	(0.037)	(0.035)
Aged 35–49, complete primary	-6.104***	-6.586***	-2.417***	-0.524***
	(0.292)	(0.324)	(0.181)	(0.189)
Aged 35–49, complete secondary	0.590*	-4.061***	0.503***	0.087
	(0.351)	(0.236)	(0.121)	(0.082)
Aged 35–49, complete university	8.797***	3.875***	7.332***	8.610***
	(0.374)	(0.284)	(0.233)	(0.247)
Aged 50–64, less than complete primary	-1.654***	-2.866***	-4.261***	-2.466***
	(0.059)	(0.081)	(0.072)	(0.061)
Aged 50–64, complete primary	-10.896***	-16.308***	-2.753***	-2.848***
	(0.882)	(1.249)	(0.859)	(0.389)
Aged 50-64, complete secondary	2.460*	-6.512***	-1.453**	-1.393***
	(1.275)	(1.117)	(0.641)	(0.239)
Aged 50–64, complete university	18.403***	11.084***	13.741***	9.941***
	(1.358)	(1.247)	(0.697)	(0.468)

Independent variables	1980	1991	2000	2010
Race or colour				
Non-white	Reference	Reference	Reference	Reference
	category	category	category	category
White	0.187***	0.214***	0.190***	0.147***
	(0.001)	(0.001)	(0.001)	(0.001)
Marital status				
Unmarried	Reference	Reference	Reference	Reference
	category	category	category	category
Married	0.334***	0.344***	0.280***	0.221***
	(0.001)	(0.001)	(0.001)	(0.001)
Religion				
Non-Protestant	Reference	Reference	Reference	Reference
	category	category	category	category
Protestant	-0.035***	-0.022***	-0.041***	-0.051***
	(0.001)	(0.002)	(0.001)	(0.001)
Region				
North	0.166***	0.382***	0.093***	0.122***
	(0.002)	(0.003)	(0.002)	(0.002)
North-East	-0.118***	-0.079***	-0.154***	-0.088***
	(0.001)	(0.002)	(0.002)	(0.002)
South	-0.182***	-0.171***	-0.152***	-0.056***
	(0.001)	(0.001)	(0.001)	(0.001)
South-East	Reference	Reference	Reference	Reference
	category	category	category	category
Centre-West	0.041***	0.195***	0.065***	0.125***
	(0.002)	(0.002)	(0.002)	(0.002)
Constant	7.550***	9.328***	4.704***	5.591***
	(0.005)	(0.007)	(0.006)	(0.006)
$\mathbb{R}^2$	0.470	0.443	0.460	0.412
Sample size	4 309 104	2 775 824	3 305 805	3 708 484

Table A1.6
Brazil: coefficients and standard errors estimated by ordinary least squares regression from equation (7) for the logarithm of formal urban male workers' individual earnings as the dependent variable, 1980–2010

Independent variables	1980	1991	2000	2010
	1700	1771	2000	2010
Age-education indicators	D.C.	D. C	D.C	D.C
Aged 15–24, less than complete primary	Reference	Reference	Reference	Reference
	category	category	category	category
Aged 15–24, complete primary	-0.004	-0.701***	-0.375***	0.046***
	(0.008)	(0.016)	(0.014)	(0.015)
Aged 15–24, complete secondary	0.367***	-0.110***	-0.253***	-0.137***
	(0.009)	(0.014)	(0.010)	(0.010)
Aged 15–24, complete university	1.043***	0.409***	0.621***	0.575***
	(0.028)	(0.036)	(0.028)	(0.021)
Aged 25–34, less than complete primary	-0.413***	0.275***	0.485***	0.240***
	(0.007)	(0.011)	(0.007)	(0.006)
Aged 25–34, complete primary	0.278***	-0.006	-0.090***	-0.261***
	(0.009)	(0.014)	(0.013)	(0.016)
Aged 25–34, complete secondary	0.570***	0.245***	0.128***	-0.017**
	(0.009)	(0.012)	(0.009)	(0.009)
Aged 25–34, complete university	1.215***	0.865***	0.992***	0.730***
	(0.009)	(0.014)	(0.011)	(0.010)
Aged 35–49, less than complete primary	0.560***	0.481***	0.781***	0.468***
	(0.008)	(0.012)	(0.009)	(0.007)
Aged 35–49, complete primary	0.782***	0.448***	0.446***	0.072***
	(0.009)	(0.015)	(0.012)	(0.013)
Aged 35–49, complete secondary	0.942***	0.762***	0.738***	0.372***
	(0.010)	(0.013)	(0.010)	(0.009)
Aged 35–49, complete university	1.406***	1.221***	1.377***	0.998***
	(0.009)	(0.012)	(0.009)	(0.010)
Aged 50–64, less than complete primary	0.512***	0.621***	0.749***	0.501***
	(0.009)	(0.014)	(0.012)	(0.010)
Aged 50–64, complete primary	0.872***	0.683***	0.660***	0.455***
	(0.013)	(0.020)	(0.020)	(0.015)
Aged 50-64, complete secondary	1.095***	0.975***	1.080***	0.772***
	(0.015)	(0.020)	(0.017)	(0.012)
Aged 50–64, complete university	1.481***	1.393***	1.583***	1.324***

Independent variables	1980	1991	2000	2010
Proportions in age-education groups				
Aged 15–24, less than complete primary	-1.042***	-1.933***	-1.301***	-1.087***
	(0.018)	(0.032)	(0.027)	(0.054)
Aged 15–24, complete primary	-0.631***	7.518***	2.541***	-1.305***
	(0.074)	(0.194)	(0.131)	(0.151)
Aged 15–24, complete secondary	-0.121	7.804***	7.230***	3.050***
	(0.162)	(0.297)	(0.127)	(0.103)
Aged 15–24, complete university	-16.674**	58.555***	80.043***	10.181***
	(8.379)	(8.526)	(6.779)	(3.731)
Aged 25–34, less than complete primary	2.616***	-3.048***	-3.617***	-2.341***
	(0.034)	(0.063)	(0.050)	(0.050)
Aged 25–34, complete primary	4.443***	3.506***	8.004***	8.542***
	(0.207)	(0.235)	(0.242)	(0.304)
Aged 25–34, complete secondary	5.846***	5.420***	8.026***	3.876***
•	(0.170)	(0.160)	(0.124)	(0.069)
Aged 25–34, complete university	11.937***	14.320***	21.245***	12.526***
	(0.365)	(0.491)	(0.487)	(0.301)
Aged 35–49, less than complete primary	-2.294***	-2.864***	-3.850***	-2.623***
	(0.039)	(0.055)	(0.046)	(0.040)
Aged 35–49, complete primary	-1.859***	-0.133	1.720***	4.669***
	(0.309)	(0.360)	(0.217)	(0.217)
Aged 35–49, complete secondary	8.611***	2.533***	3.953***	3.060***
	(0.367)	(0.251)	(0.135)	(0.088)
Aged 35–49, complete university	17.136***	10.043***	11.506***	13.166***
	(0.382)	(0.288)	(0.241)	(0.251)
Aged 50–64, less than complete primary	-4.084***	-6.666***	-5.670***	-3.518***
	(0.074)	(0.103)	(0.097)	(0.072)
Aged 50–64, complete primary	-7.279***	· -	0.512	-1.036**
		11.766***		
	(0.919)	(1.365)	(1.058)	(0.472)
Aged 50–64, complete secondary	10.324***	0.263	3.304***	0.926***
	(1.303)	(1.182)	(0.745)	(0.267)
Aged 50–64, complete university	25.776***	17.609***	19.756***	13.878***
	(1.389)	(1.296)	(0.744)	(0.492)

Independent variables	1980	1991	2000	2010
Race or colour				
Non-white	Reference	Reference	Reference	Reference
	category	category	category	category
White	0.207***	0.255***	0.209***	0.163***
	(0.001)	(0.001)	(0.001)	(0.001)
Marital status				
Unmarried	Reference	Reference	Reference	Reference
	category	category	category	category
Married	0.289***	0.315***	0.242***	0.191***
	(0.001)	(0.002)	(0.001)	(0.001)
Religion				
Non-Protestant	Reference	Reference	Reference	Reference
	category	category	category	category
Protestant	-0.038***	-0.034***	-0.054***	-0.065***
	(0.001)	(0.002)	(0.001)	(0.001)
Region				
North	-0.129***	-0.044***	-0.097***	-0.040***
	(0.003)	(0.004)	(0.003)	(0.002)
North-East	-0.288***	-0.408***	-0.301***	-0.197***
	(0.001)	(0.002)	(0.002)	(0.001)
South	-0.175***	-0.173***	-0.090***	0.001
	(0.001)	(0.002)	(0.001)	(0.001)
South-East	Reference	Reference	Reference	Reference
	category	category	category	category
Centre-West	-0.113***	-0.061***	0.002	0.074***
	(0.002)	(0.003)	(0.002)	(0.002)
Constant	8.838***	11.026**	5.686***	6.513***
		*		
	(0.004)	(0.006)	(0.004)	(0.005)
$\mathbb{R}^2$	0.441	0.407	0.465	0.408
Sample size	3 333 208	1 921 091	1 953 426	2 468 030

Table A1.7
Brazil: coefficients and standard errors estimated by ordinary least squares regression from equation (8) for the logarithm of informal urban male workers' individual earnings as the dependent variable, 1980–2010

Independent variables	1980	1991	2000	2010
Age-education indicators				_
Aged 15–24, less than complete primary	Reference	Reference	Reference	Reference
g	category	category	category	category
		87	87	
Aged 15–24, complete primary	-0.127***	-0.601***	-0.323***	0.178***
	(0.017)	(0.022)	(0.017)	(0.026)
Aged 15–24, complete secondary	0.359***	-0.259***	-0.146***	-0.282***
	(0.025)	(0.026)	(0.015)	(0.020)
Aged 15–24, complete university	0.987***	0.003	0.557***	0.592***
	(0.095)	(0.083)	(0.054)	(0.049)
Aged 25–34, less than complete primary	0.117***	0.592***	0.617***	0.406***
	(0.015)	(0.015)	(0.009)	(0.010)
Aged 25–34, complete primary	0.131***	-0.043*	0.036**	-0.468***
	(0.023)	(0.022)	(0.018)	(0.030)
Aged 25–34, complete secondary	0.500***	0.101***	0.170***	-0.089***
	(0.031)	(0.025)	(0.016)	(0.017)
Aged 25–34, complete university	1.218***	0.817***	1.007***	0.808***
	(0.043)	(0.046)	(0.026)	(0.025)
Aged 35–49, less than complete primary	0.946***	0.888***	0.909***	0.727***
	(0.014)	(0.016)	(0.010)	(0.011)
Aged 35–49, complete primary	0.602***	0.228***	0.453***	0.109***
	(0.026)	(0.027)	(0.016)	(0.020)
Aged 35–49, complete secondary	0.923***	0.529***	0.666***	0.404***
	(0.035)	(0.031)	(0.017)	(0.017)
Aged 35–49, complete university	1.557***	1.148***	1.314***	1.066***
	(0.036)	(0.045)	(0.024)	(0.029)
Aged 50–64, less than complete primary	0.500***	0.552***	0.727***	0.586***
	(0.014)	(0.018)	(0.012)	(0.014)
Aged 50–64, complete primary	0.877***	0.433***	0.448***	0.370***
	(0.038)	(0.041)	(0.024)	(0.020)
Aged 50-64, complete secondary	1.106***	0.769***	0.816***	0.701***
	(0.059)	(0.051)	(0.025)	(0.020)
Aged 50–64, complete university	1.510***	1.160***	1.434***	1.198***
-	(0.063)	(0.064)	(0.031)	(0.030)

Independent variables	1980	1991	2000	2010
Proportions in age-education groups				
Aged 15–24, less than complete primary	-1.317***	-1.863***	-1.664***	-2.909***
	(0.025)	(0.031)	(0.026)	(0.069)
Aged 15–24, complete primary	-0.601***	6.740***	1.487***	-4.096***
	(0.179)	(0.293)	(0.164)	(0.252)
Aged 15-24, complete secondary	-2.065***	10.638***	5.693***	4.535***
	(0.512)	(0.626)	(0.222)	(0.226)
Aged 15–24, complete university	-115.179***	104.151**	47.942***	5.659
		*		
	(27.449)	(21.340)	(13.222)	(9.362)
Aged 25–34, less than complete primary	-0.536***	-5.110***	-4.133***	-4.185***
	(0.080)	(0.084)	(0.060)	(0.074)
Aged 25–34, complete primary	11.868***	5.657***	7.721***	14.155***
	(0.596)	(0.419)	(0.347)	(0.585)
Aged 25–34, complete secondary	9.032***	8.035***	8.150***	5.255***
	(0.677)	(0.397)	(0.241)	(0.158)
Aged 25–34, complete university	4.389**	14.389***	14.784***	10.213***
	(1.871)	(1.951)	(1.315)	(0.846)
Aged 35–49, less than complete primary	-4.614***	-5.745***	-4.896***	-4.488***
	(0.060)	(0.075)	(0.054)	(0.056)
Aged 35–49, complete primary	11.026***	4.343***	1.079***	5.309***
	(0.926)	(0.809)	(0.314)	(0.349)
Aged 35–49, complete secondary	15.643***	5.767***	3.447***	3.042***
	(1.244)	(0.742)	(0.249)	(0.182)
Aged 35–49, complete university	15.313***	11.513***	8.120***	9.257***
	(1.541)	(1.431)	(0.713)	(0.881)
Aged 50–64, less than complete primary	-5.220***	-7.498***	-6.888***	-5.379***
	(0.094)	(0.126)	(0.099)	(0.097)
Aged 50–64, complete primary	-8.963***	-1.216	4.611***	0.210
	(2.810)	(3.107)	(1.410)	(0.665)
Aged 50–64, complete secondary	11.831**	3.736	5.959***	0.191
	(5.262)	(3.400)	(1.179)	(0.490)
Aged 50–64, complete university	26.353***	27.094***	16.060***	10.474***
	(6.200)	(4.703)	(1.699)	(1.279)

Independent variables	1980	1991	2000	2010
Race or colour				
Non-white	Reference	Reference	Reference	Reference
	category	category	category	category
White	0.134***	0.192***	0.195***	0.153***
	(0.002)	(0.002)	(0.002)	(0.002)
Marital status				
Unmarried	Reference	Reference	Reference	Reference
	category	category	category	category
Married	0.302***	0.350***	0.282***	0.228***
	(0.002)	(0.002)	(0.002)	(0.002)
Religion				
Non-Protestant	Reference	Reference	Reference	Reference
	category	category	category	category
Protestant	-0.007**	0.014***	-0.006***	-0.010***
	(0.003)	(0.004)	(0.002)	(0.002)
Region				
North	0.153***	0.081***	-0.126***	-0.133***
	(0.004)	(0.004)	(0.003)	(0.003)
North-East	-0.327***	-0.369***	-0.398***	-0.390***
	(0.002)	(0.003)	(0.002)	(0.002)
South	-0.113***	-0.155***	-0.126***	-0.000
	(0.003)	(0.003)	(0.002)	(0.002)
South-East	Reference	Reference	Reference	Reference
	category	category	category	category
Centre-West	0.029***	0.052***	0.013***	0.121***
	(0.003)	(0.003)	(0.003)	(0.003)
Constant	8.536***	10.793**	5.448***	6.280***
	(0.006)	(0.007)	(0.005)	(0.007)
R <sup>2</sup>	0.303	0.286	0.327	0.307
Sample size	975 896	854 733	1 352 379	1 240 454