

ISIC	Model	Value Added				Gross Sales			
		Constant	b_{w1}	b_{w2}	R	Constant	b_{w1}^*	b_{w2}^*	R
30	I	1.418 (0.190)	1.533 (0.379)		R = 0.788	2.334 (0.186)	1.325 (0.372)		R = 0.747
	II	0.513 (0.180)		1.726 (0.208)	R = 0.935	1.502 (0.172)		1.560 (0.198)	R = 0.928
31	I	2.210 (0.143)	1.477 (0.461)		R = 0.664	3.402 (0.178)	0.874 (0.575)		R = 0.388
	II	1.093 (0.366)		1.324 (0.336)	R = 0.738	2.906 (0.515)		0.624 (0.473)	R = 0.344
33	I	1.686 (0.211)	0.104 (0.230)		R = 0.129	2.268 (0.184)	0.081 (0.201)		R = 0.115
	II	0.225 (0.244)		2.035 (0.309)	R = 0.885	1.035 (0.240)		1.711 (0.304)	R = 0.851
34	I	1.495 (0.174)	0.485 (0.336)		R = 0.434	2.468 (0.156)	0.255 (0.300)		R = 0.273
	II	0.587 (0.342)		1.362 (0.409)	R = 0.743	1.796 (0.334)		0.955 (0.399)	R = 0.624
35	I	1.253 (0.234)	1.578 (0.614)		R = 0.596	2.208 (0.359)	1.395 (0.944)		R = 0.392
	II	1.102 (0.510)		0.875 (0.626)	R = 0.374	2.188 (0.723)		0.631 (0.888)	R = 0.201
36	I	1.288 (0.332)	0.848 (1.009)		R = 0.257	1.810 (0.341)	0.423 (1.034)		R = 0.128
	II	0.380 (0.517)		1.488 (0.644)	R = 0.590	1.234 (0.597)		0.903 (0.744)	R = 0.359
37	I	1.671 (0.168)	0.395 (0.502)		R = 0.213	2.451 (0.192)	0.064 (0.572)		R = 0.031
	II	0.870 (0.330)		1.216 (0.432)	R = 0.616	1.772 (0.420)		0.959 (0.550)	R = 0.436
38	I	1.572 (0.130)	0.453 (0.195)		R = 0.558	2.347 (0.204)	0.794 (0.307)		R = 0.598
	II	1.070 (0.324)		0.674 (0.313)	R = 0.528	1.488 (0.518)		1.158 (0.500)	R = 0.556

Note: Standard errors in parentheses.

Model I: regressions involving W_1 (Equations 5.1 and 5.2)

Model II: regressions involving W_2 (Equations 5.3 and 5.4)

Appendix Table 6. C.E.S. PRODUCTION FUNCTIONS
(Based on Sampled Observations)

ISIC	Model	Value Added				Gross Sales			
		Constant	b_{w1}	b_{w2}	R	Constant	b_{w1}^*	b_{w2}^*	R
20	I	1.552 (0.209)	1.413 (0.442)		R = 0.649	2.524 (0.141)	1.369 (0.300)		R = 0.774
	II	0.674 (0.218)		1.709 (0.264)	R = 0.866	1.851 (0.175)		1.396 (0.211)	R = 0.870
21	I	2.531 (0.170)	0.953 (0.165)		R = 0.848	3.116 (0.120)	0.763 (0.117)		R = 0.875
	II	1.206 (0.249)		1.146 (0.226)	R = 0.815	2.142 (0.224)		0.809 (0.203)	R = 0.741
22	I	1.340 (0.208)	1.528 (0.406)		R = 0.722	2.350 (0.194)	1.697 (0.377)		R = 0.780
	II	0.666 (0.177)		1.564 (0.318)	R = 0.806	1.618 (0.170)		1.662 (0.306)	R = 0.834
23	I	1.145 (0.206)	-0.027 (0.322)		R = 0.022	2.232 (0.206)	0.046 (0.322)		R = 0.038
	II	1.041 (0.223)		0.360 (0.381)	R = 0.245	2.089 (0.220)		0.444 (0.375)	R = 0.301
24	I	0.904 (0.113)	0.536 (0.234)		R = 0.569	1.888 (0.141)	0.641 (0.291)		R = 0.553
	II	0.735 (0.098)		0.591 (0.192)	R = 0.679	1.695 (0.132)		0.635 (0.260)	R = 0.594
25	I	1.002 (0.217)	0.899 (0.220)		R = 0.750	1.752 (0.191)	0.688 (0.193)		R = 0.702
	II	0.618 (0.110)		1.166 (0.117)	R = 0.940	1.456 (0.120)		0.903 (0.128)	R = 0.890
26	I	0.911 (0.177)	1.235 (0.269)		R = 0.837	1.539 (0.191)	1.372 (0.291)		R = 0.844
	II	0.451 (0.145)		1.307 (0.177)	R = 0.926	1.026 (0.150)		1.453 (0.183)	R = 0.935
27	I	2.225 (0.372)	0.565 (0.482)		R = 0.364	3.084 (0.310)	0.875 (0.402)		R = 0.587
	II	1.287 (0.396)		1.184 (0.336)	R = 0.761	2.140 (0.290)		1.297 (0.247)	R = 0.868
28	I	1.033 (0.205)	0.818 (0.217)		R = 0.722	1.724 (0.253)	0.741 (0.269)		R = 0.607
	II	0.752 (0.623)		0.910 (0.600)	R = 0.387	0.948 (0.618)		1.341 (0.595)	R = 0.530
29	I	1.452 (0.144)	1.218 (0.410)		R = 0.772	2.477 (0.110)	1.105 (0.312)		R = 0.822
	II	1.223 (0.378)		0.361 (0.738)	R = 0.196	2.174 (0.307)		0.556 (0.600)	R = 0.354

Appendix Table 6. C.E.S. PRODUCTION FUNCTIONS
(Based on Sampled Observations)

ISIC	Model	Value Added				Gross Sales			
		Constant	b_{w1}	b_{w2}	R	Constant	b_{w1}^*	b_{w2}^*	R
30	I	1.392 (0.234)	1.559 (0.592)		R = 0.640	2.328 (0.208)	1.519 (0.525)		R = 0.675
	II	0.423 (0.216)		1.798 (0.272)	R = 0.902	1.478 (0.225)		1.609 (0.284)	R = 0.873
31	I	2.346 (0.224)	0.326 (0.322)		R = 0.271	3.304 (0.241)	0.346 (0.346)		R = 0.267
	II	0.701 (0.464)		1.500 (0.400)	R = 0.721	2.501 (0.681)		0.726 (0.588)	R = 0.324
33	I	1.293 (0.176)	1.191 (0.256)		R = 0.803	1.961 (0.185)	0.939 (0.269)		R = 0.709
	II	0.710 (0.211)		1.249 (0.235)	R = 0.838	1.514 (0.237)		0.964 (0.264)	R = 0.725
34	I	1.888 (0.138)	-0.055 (0.182)		R = 0.101	2.759 (0.149)	-0.034 (0.197)		R = 0.057
	II	0.985 (0.667)		0.974 (0.723)	R = 0.410	2.312 (0.778)		0.481 (0.842)	R = 0.187
35	I	1.242 (0.379)	0.810 (0.753)		R = 0.296	2.180 (0.370)	0.715 (0.734)		R = 0.271
	II	0.267 (0.470)		1.827 (0.612)	R = 0.652	1.282 (0.474)		1.664 (0.617)	R = 0.614
36	I	0.990 (0.284)	1.143 (0.706)		R = 0.456	1.441 (0.306)	1.060 (0.762)		R = 0.403
	II	0.500 (0.452)		1.045 (0.522)	R = 0.534	1.163 (0.522)		0.746 (0.604)	R = 0.364
37	I	1.666 (0.175)	0.492 (0.384)		R = 0.335	2.320 (0.218)	0.441 (0.477)		R = 0.249
	II	1.143 (0.490)		0.796 (0.590)	R = 0.350	1.766 (0.603)		0.821 (0.727)	R = 0.299
38	I	1.635 (0.156)	0.171 (0.213)		R = 0.226	2.418 (0.231)	0.206 (0.316)		R = 0.185
	II	1.194 (0.333)		0.608 (0.321)	R = 0.480	1.666 (0.499)		0.838 (0.481)	R = 0.450

Note: Standard errors in parentheses.

Model I: regressions involving W_1 (Equations 5.1 and 5.2)

Model II: regressions involving W_2 (Equations 5.3 and 5.4)

Appendix Table 7. GENERALIZED C.E.S. PRODUCTION FUNCTIONS
(Data Based on Simple Aggregation)

ISIC	Model	Value Added					Gross Sales				
		Constant	b_{w1}	b_{w2}	g	R	Constant	b_{w1}^*	b_{w2}^*	g^*	R
20	I	1.211 (0.177)	1.248 (0.208)		0.467 (0.104)	0.944	2.245 (0.177)	0.243 (0.208)		0.487 (0.104)	0.86
	II	0.554 (0.225)		1.172 (0.307)	0.444 (0.148)	0.898	2.077 (0.154)		0.433 (0.210)	0.427 (0.101)	0.88
21	I	2.671 (0.288)	1.701 (0.197)		-0.085 (0.164)	0.959	2.406 (0.188)	0.880 (0.128)		0.420 (0.107)	0.97
	II	0.462 (0.254)		1.094 (0.209)	0.476 (0.188)	0.910	1.258 (0.136)		0.593 (0.112)	0.698 (0.100)	0.95
22	I	1.040 (0.201)	0.808 (0.540)		0.375 (0.182)	0.798	2.033 (0.146)	1.188 (0.394)		0.201 (0.133)	0.86
	II	0.777 (0.159)		0.980 (0.454)	0.278 (0.180)	0.830	1.671 (0.117)		1.172 (0.332)	0.136 (0.132)	0.88
23	I	1.373 (0.242)	-0.187 (0.255)		-0.012 (0.131)	0.204	2.186 (0.225)	-0.343 (0.236)		0.166 (0.121)	0.46
	II	1.436 (0.260)		-0.305 (0.570)	0.032 (0.164)	0.153	2.296 (0.249)		-0.526 (0.545)	0.241 (0.157)	0.35
24	I	0.916 (0.131)	0.436 (0.336)		0.111 (0.198)	0.541	1.762 (0.304)	-0.309 (0.779)		0.443 (0.460)	0.25
	II	0.836 (0.098)		0.570 (0.306)	-0.058 (0.228)	0.622	1.867 (0.233)		0.742 (0.731)	-0.069 (0.544)	0.45
25	I	1.757 (0.196)	0.310 (0.288)		-0.394 (0.138)	0.636	2.626 (0.267)	-0.002 (0.392)		-0.389 (0.188)	0.55
	II	1.390 (0.242)		0.728 (0.366)	-0.363 (0.118)	0.714	2.474 (0.358)		0.332 (0.541)	-0.398 (0.175)	0.55
26	I	0.956 (0.136)	1.453 (0.301)		-0.057 (0.161)	0.897	1.642 (0.151)	1.943 (0.335)		-0.124 (0.180)	0.95
	II	0.501 (0.090)		1.281 (0.166)	-0.030 (0.105)	0.953	1.038 (0.094)		1.683 (0.173)	-0.078 (0.109)	0.95
27	I	2.470 (0.699)	0.466 (0.584)		-0.152 (0.353)	0.275	3.471 (0.580)	0.478 (0.485)		-0.207 (0.293)	0.35
	II	0.544 (0.505)		3.078 (0.685)	-0.490 (0.187)	0.847	1.767 (0.404)		2.656 (0.549)	-0.468 (0.150)	0.85
28	I	1.175 (0.313)	0.624 (0.272)		0.119 (0.172)	0.557	1.902 (0.290)	0.460 (0.251)		0.132 (0.159)	0.45
	II	1.588 (0.949)		0.151 (0.900)	-0.049 (0.190)	0.100	1.841 (0.817)		0.469 (0.774)	0.027 (0.164)	0.15
29	I	1.268 (0.340)	0.911 (0.696)		0.096 (0.282)	0.765	2.238 (0.190)	0.860 (0.389)		0.202 (0.158)	0.95
	II	1.024 (0.307)		-0.449 (0.840)	0.463 (0.233)	0.687	1.962 (0.211)		-0.231 (0.577)	0.518 (0.160)	0.85

Appendix Table 7. GENERALIZED C.E.S. PRODUCTION FUNCTIONS
(Based on Simple Aggregation)

SIC	Model	Value Added					Gross Sales				
		Constant	b_{w1}	b_{w2}	g	R	Constant	b_{w1}^*	b_{w2}^*	g^*	R
30	I	1.251 (0.332)	1.349 (0.491)		0.148 (0.238)	0.798	2.191 (0.328)	1.168 (0.485)		0.126 (0.235)	0.757
	II	0.455 (0.202)		1.631 (0.254)	0.090 (0.130)	0.938	1.471 (0.197)		1.508 (0.247)	0.049 (0.126)	0.929
31	I	2.292 (0.662)	1.462 (0.493)		-0.038 (0.305)	0.665	4.078 (0.802)	0.753 (0.598)		-0.319 (0.370)	0.447
	II	1.816 (0.577)		1.388 (0.321)	-0.386 (0.246)	0.788	3.837 (0.826)		0.707 (0.460)	-0.497 (0.352)	0.493
33	I	0.719 (0.339)	0.012 (0.174)		0.519 (0.161)	0.703	1.506 (0.323)	0.008 (0.166)		0.408 (0.153)	0.638
	II	0.058 (0.221)		1.641 (0.314)	0.235 (0.101)	0.924	0.923 (0.244)		1.447 (0.347)	0.158 (0.112)	0.870
34	I	1.520 (0.200)	0.548 (0.406)		-0.034 (0.108)	0.445	2.453 (0.179)	0.217 (0.364)		0.020 (0.097)	0.288
	II	0.488 (0.337)		1.662 (0.453)	-0.097 (0.073)	0.796	1.757 (0.358)		1.073 (0.481)	-0.038 (0.078)	0.638
35	I	1.162 (0.287)	1.411 (0.693)		0.098 (0.169)	0.612	2.192 (0.448)	1.365 (1.082)		0.018 (0.264)	0.398
	II	1.171 (0.539)		0.521 (0.896)	0.140 (0.247)	0.406	2.220 (0.774)		0.465 (1.288)	0.066 (0.355)	0.208
36	I	0.782 (0.452)	1.028 (0.953)		0.323 (0.209)	0.511	1.308 (0.467)	0.601 (0.985)		0.321 (0.216)	0.458
	II	-0.485 (0.488)		1.838 (0.500)	0.422 (0.144)	0.817	0.437 (0.655)		1.226 (0.670)	0.389 (0.193)	0.638
37	I	1.292 (0.159)	0.269 (0.362)		0.360 (0.099)	0.739	2.013 (0.178)	-0.081 (0.406)		0.417 (0.111)	0.738
	II	0.900 (0.263)		0.733 (0.382)	0.285 (0.098)	0.798	1.811 (0.324)		0.316 (0.470)	0.379 (0.120)	0.748
38	I	1.904 (0.250)	0.355 (0.196)		-0.230 (0.151)	0.656	2.384 (0.434)	0.783 (0.339)		-0.026 (0.262)	0.598
	II	1.506 (0.353)		0.609 (0.278)	-0.287 (0.136)	0.697	1.738 (0.656)		1.121 (0.516)	-0.164 (0.253)	0.578

Note: Standard errors in parentheses.

Model I: regressions involving W_1 (Equations 5.9 and 5.10)

Model II: regressions involving W_2 (Equations 5.11 and 5.12)

Appendix Table 8. GENERALIZED C.E.S. PRODUCTION FUNCTIONS
(Based on Sampled Observations)

		Value Added					Gross Sales				
SIC	Model	Constant	b _{w1}	b _{w2}	g	R	Constant	b _{w1} [*]	b _{w2} [*]	g [*]	R
20	I	1.262 (0.151)	0.720 (0.328)		0.367 (0.082)	0.878	2.351 (0.118)	0.956 (0.257)		0.219 (0.065)	0.887
	II	0.813 (0.191)		1.106 (0.321)	0.231 (0.089)	0.914	1.918 (0.177)		1.104 (0.297)	0.112 (0.082)	0.887
21	I	2.670 (0.279)	1.014 (0.194)		-0.092 (0.145)	0.854	2.962 (0.193)	0.696 (0.134)		0.102 (0.100)	0.887
	II	1.106 (0.282)		1.097 (0.237)	0.114 (0.142)	0.825	1.921 (0.216)		0.701 (0.182)	0.252 (0.109)	0.833
22	I	1.288 (0.237)	1.480 (0.428)		0.080 (0.155)	0.729	2.317 (0.222)	1.666 (0.400)		0.051 (0.145)	0.787
	II	0.594 (0.184)		1.534 (0.314)	0.148 (0.124)	0.829	1.556 (0.178)		1.635 (0.304)	0.130 (0.120)	0.857
23	I	0.716 (0.382)	-0.112 (0.321)		0.281 (0.213)	0.344	2.022 (0.401)	0.004 (0.337)		0.137 (0.224)	0.177
	II	0.748 (0.360)		0.227 (0.401)	0.226 (0.219)	0.362	2.002 (0.367)		0.404 (0.409)	0.067 (0.223)	0.317
24	I	0.930 (0.127)	0.597 (0.269)		-0.082 (0.158)	0.584	1.897 (0.160)	0.662 (0.339)		-0.028 (0.199)	0.557
	II	0.739 (0.104)		0.602 (0.208)	-0.026 (0.132)	0.681	1.690 (0.140)		0.618 (0.281)	0.041 (0.178)	0.597
25	I	0.964 (0.250)	0.844 (0.279)		0.061 (0.180)	0.753	1.654 (0.212)	0.547 (0.236)		0.158 (0.153)	0.737
	II	0.631 (0.116)		1.207 (0.146)	-0.046 (0.091)	0.941	1.438 (0.126)		0.842 (0.158)	0.068 (0.099)	0.897
26	I	0.757 (0.310)	1.054 (0.405)		0.130 (0.211)	0.845	1.229 (0.314)	1.008 (0.411)		0.262 (0.214)	0.877
	II	0.459 (0.189)		1.322 (0.283)	-0.012 (0.154)	0.926	0.947 (0.189)		1.300 (0.284)	0.111 (0.155)	0.937
27	I	3.134 (1.234)	0.564 (0.493)		-0.323 (0.417)	0.439	4.327 (0.963)	0.873 (0.385)		-0.442 (0.326)	0.687
	II	1.763 (0.993)		1.152 (0.356)	-0.158 (0.301)	0.770	2.936 (0.673)		1.244 (0.241)	-0.265 (0.204)	0.897
28	I	1.030 (0.295)	0.819 (0.247)		0.002 (0.117)	0.722	1.489 (0.352)	0.855 (0.295)		0.135 (0.140)	0.647
	II	0.992 (0.707)		0.789 (0.630)	-0.110 (0.144)	0.435	0.837 (0.714)		1.397 (0.636)	0.051 (0.146)	0.537
29	I	1.449 (0.292)	1.216 (0.500)		0.002 (0.190)	0.772	2.220 (0.176)	0.874 (0.301)		0.199 (0.115)	0.897
	II	1.084 (0.443)		0.145 (0.832)	0.189 (0.271)	0.351	1.935 (0.294)		0.185 (0.552)	0.324 (0.180)	0.687

Appendix Table 8. GENERALIZED C.E.S. PRODUCTION FUNCTIONS
(Based on Sampled Observations)

SIC	Model	Value Added					Gross Sales				
		Constant	b_{w1}	b_{w2}	g	R	Constant	b_{w1}^*	b_{w2}^*	g^*	R
30	I	1.264 (0.381)	1.411 (0.703)		0.102 (0.232)	0.650	2.273 (0.341)	1.456 (0.629)		0.044 (0.208)	0.677
	II	0.443 (0.243)		1.833 (0.325)	-0.030 (0.131)	0.903	1.510 (0.253)		1.666 (0.338)	-0.048 (0.136)	0.875
31	I	2.260 (0.356)	0.307 (0.339)		0.066 (0.208)	0.284	3.232 (0.385)	0.330 (0.365)		0.056 (0.224)	0.276
	II	0.645 (0.448)		1.819 (0.446)	-0.226 (0.158)	0.767	2.489 (0.711)		0.797 (0.706)	-0.050 (0.251)	0.132
33	I	1.215 (0.224)	1.190 (0.263)		0.048 (0.082)	0.809	1.975 (0.239)	0.940 (0.281)		-0.008 (0.088)	0.710
	II	0.706 (0.244)		1.248 (0.248)	0.002 (0.077)	0.838	1.575 (0.271)		0.982 (0.275)	-0.045 (0.085)	0.730
34	I	1.801 (0.229)	-0.079 (0.196)		0.053 (0.109)	0.196	2.661 (0.248)	-0.061 (0.213)		0.060 (0.118)	0.185
	II	0.953 (0.726)		1.051 (0.864)	-0.021 (0.111)	0.414	2.356 (0.846)		0.376 (1.007)	0.029 (0.129)	0.202
35	I	0.784 (0.321)	0.581 (0.574)		0.390 (0.124)	0.722	1.671 (0.267)	0.460 (0.477)		0.434 (0.103)	0.800
	II	0.489 (0.454)		0.986 (0.748)	0.271 (0.157)	0.740	1.594 (0.395)		0.484 (0.650)	0.381 (0.136)	0.790
36	I	0.436 (0.539)	1.578 (0.781)		0.260 (0.217)	0.562	0.885 (0.588)	1.496 (0.851)		0.261 (0.236)	0.512
	II	-0.467 (0.694)		1.552 (0.560)	0.346 (0.200)	0.681	0.367 (0.866)		1.164 (0.698)	0.285 (0.249)	0.490
37	I	1.187 (0.179)	0.440 (0.273)		0.439 (0.118)	0.765	1.816 (0.257)	0.387 (0.390)		0.463 (0.170)	0.640
	II	1.124 (0.383)		0.217 (0.500)	0.426 (0.140)	0.710	1.746 (0.519)		0.212 (0.676)	0.448 (0.190)	0.610
38	I	1.649 (0.186)	0.158 (0.238)		-0.013 (0.085)	0.231	2.302 (0.266)	0.315 (0.341)		0.110 (0.122)	0.310
	II	1.120 (0.360)		0.598 (0.336)	-0.019 (0.072)	0.485	1.542 (0.523)		0.888 (0.489)	0.092 (0.105)	0.500

Note: Standard errors in parentheses.

Model I: regressions involving W_1 (Equations 5.9 and 5.10)

Model II: regressions involving W_2 (Equations 5.11 and 5.12)

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B-4

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