

Appendix

Levels Computed Using Fare-Primont Aggregator Functions

Obs	firm	Year	Q	X	TFP	TFP*	TFPE	OTE	OSE
1	1	2007	2.6322	2.2306	1.18	1.18	1	1	1
2	2	2007	0.0002	0.3421	0.0006	1.18	0.0005	1	0.0015
3	3	2007	0.0003	0.3424	0.0008	1.18	0.0006	1	0.0113
4	1	2008	2.8052	2.3265	1.2058	1.2058	1	1	1
5	2	2008	0.0002	0.4333	0.0005	1.2058	0.0004	1	0.0015
6	3	2008	0.0004	0.3442	0.0011	1.2058	0.0009	0.1511	0.0968
7	1	2009	2.5706	2.1367	1.2031	1.2058	0.9977	1	1
8	2	2009	0.0002	0.4121	0.0005	1.2058	0.0004	1	0.0016
9	3	2009	0.0004	0.3422	0.0011	1.2058	0.0009	1	0.015
10	1	2010	2.7395	2.2531	1.2159	1.2159	1	1	1
11	2	2010	0.0002	0.4065	0.0005	1.2159	0.0004	1	0.0014
12	3	2010	0.0004	0.3425	0.001	1.2159	0.0008	0.6553	0.0221
13	1	2011	2.891	2.3234	1.2443	1.2443	1	1	1
14	2	2011	0.0002	0.3991	0.0006	1.2443	0.0005	1	0.0012
15	3	2011	0.0003	0.3432	0.001	1.2443	0.0008	1	0.0158
16	1	2012	2.9282	2.4037	1.2182	1.2443	0.9791	1	1
17	2	2012	0.0002	0.3749	0.0006	1.2443	0.0005	1	0.0012
18	3	2012	0.0003	0.3451	0.0008	1.2443	0.0007	0.2387	0.0541
19	1	2013	3.0527	2.4503	1.2458	1.2458	1	1	1
20	2	2013	0.0002	0.3569	0.0007	1.2458	0.0005	1	0.0014
21	3	2013	0.0003	0.3466	0.0007	1.2458	0.0006	0.1025	0.1031
22	1	2014	3.1637	2.5103	1.2603	1.2603	1	1	1
23	2	2014	0.0002	0.3847	0.0006	1.2603	0.0005	1	0.0016
24	3	2014	0.0002	0.3483	0.0007	1.2603	0.0005	0.0641	0.1439
25	1	2015	3.1342	2.5335	1.2371	1.2603	0.9816	1	1
26	2	2015	0.0002	0.3589	0.0007	1.2603	0.0005	1	0.0019
27	3	2015	0.0002	0.3477	0.0007	1.2603	0.0006	0.1505	0.0684

Levels Computed Using Fare-Primont Aggregator Functions (continued)

OME	ROSE	OSME	ITE	ISE	IME	RISE	ISME	RME
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0015	1	0.0005	0.0005	0.337
1	0.0006	0.0006	1	0.0113	0.9994	0.0006	0.0006	0.057
1	1	1	1	1	1	1	1	1
1	0.0004	0.0004	1	0.0015	0.7896	0.0005	0.0004	0.2859
1	0.0062	0.0062	0.9964	0.0147	0.998	0.0009	0.0009	0.064
1	0.9977	0.9977	1	1	1	0.9977	0.9977	0.9977
1	0.0004	0.0004	1	0.0016	0.8302	0.0005	0.0004	0.2696
1	0.0009	0.0009	1	0.015	1	0.0009	0.0009	0.0582
1	1	1	1	1	1	1	1	1
1.0192	0.0004	0.0004	1	0.0014	0.8416	0.0005	0.0004	0.3239
1	0.0013	0.0013	0.9996	0.0145	0.9997	0.0008	0.0008	0.0583
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0012	0.8573	0.0005	0.0005	0.3894
1	0.0008	0.0008	1	0.0158	0.9971	0.0008	0.0008	0.0488
1	0.9791	0.9791	1	1	1	0.9791	0.9791	0.9791
1	0.0005	0.0005	1	0.0012	0.9127	0.0005	0.0005	0.4143
1	0.0028	0.0028	0.9978	0.0129	0.9939	0.0007	0.0007	0.052
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0014	0.9587	0.0006	0.0005	0.3871
1	0.0058	0.0058	0.9948	0.0106	0.9925	0.0006	0.0006	0.0561
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0016	0.8894	0.0006	0.0005	0.3192
1	0.0086	0.0086	0.9918	0.0093	0.9905	0.0006	0.0006	0.0596
1	0.9816	0.9816	1	1	0.9828	0.9987	0.9816	0.9816
1	0.0005	0.0005	1	0.0019	0.9534	0.0006	0.0005	0.288
1	0.0037	0.0037	0.9968	0.0103	0.9871	0.0006	0.0006	0.0538

Fare-Primont Indexes Comparing Observation i to Observation 4

Obs	firm	Year	dQ	dX	dTFP	dTech	dTFPE	dOTE	dOSE
1	1	2007	0.9383	0.9588	0.9786	0.9786	1	1	1
2	2	2007	0.0001	0.1471	0.0005	0.9786	0.0005	1	0.0015
3	3	2007	0.0001	0.1472	0.0006	0.9786	0.0006	1	0.0113
4	1	2008	1	1	1	1	1	1	1
5	2	2008	0.0001	0.1862	0.0004	1	0.0004	1	0.0015
6	3	2008	0.0001	0.1479	0.0009	1	0.0009	0.1511	0.0968
7	1	2009	0.9163	0.9184	0.9977	1	0.9977	1	1
8	2	2009	0.0001	0.1771	0.0004	1	0.0004	1	0.0016
9	3	2009	0.0001	0.1471	0.0009	1	0.0009	1	0.015
10	1	2010	0.9766	0.9684	1.0084	1.0084	1	1	1
11	2	2010	0.0001	0.1747	0.0005	1.0084	0.0004	1	0.0014
12	3	2010	0.0001	0.1472	0.0009	1.0084	0.0008	0.6553	0.0221
13	1	2011	1.0306	0.9987	1.0319	1.0319	1	1	1
14	2	2011	0.0001	0.1715	0.0005	1.0319	0.0005	1	0.0012
15	3	2011	0.0001	0.1475	0.0008	1.0319	0.0008	1	0.0158
16	1	2012	1.0438	1.0332	1.0103	1.0319	0.9791	1	1
17	2	2012	0.0001	0.1611	0.0005	1.0319	0.0005	1	0.0012
18	3	2012	0.0001	0.1483	0.0007	1.0319	0.0007	0.2387	0.0541
19	1	2013	1.0882	1.0532	1.0332	1.0332	1	1	1
20	2	2013	0.0001	0.1534	0.0006	1.0332	0.0005	1	0.0014
21	3	2013	0.0001	0.149	0.0006	1.0332	0.0006	0.1025	0.1031
22	1	2014	1.1278	1.079	1.0452	1.0452	1	1	1
23	2	2014	0.0001	0.1654	0.0005	1.0452	0.0005	1	0.0016
24	3	2014	0.0001	0.1497	0.0006	1.0452	0.0005	0.0641	0.1439
25	1	2015	1.1172	1.089	1.0259	1.0452	0.9816	1	1
26	2	2015	0.0001	0.1543	0.0006	1.0452	0.0005	1	0.0019
27	3	2015	0.0001	0.1495	0.0006	1.0452	0.0006	0.1505	0.0684

Fare-Primont Indexes Comparing Observation i to Observation 4 (continued)

dOME	dROSE	dOSME	dITE	dISE	dIME	dRISE	dISME	dRME
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0015	1	0.0005	0.0005	0.337
1	0.0006	0.0006	1	0.0113	0.9994	0.0006	0.0006	0.057
1	1	1	1	1	1	1	1	1
1	0.0004	0.0004	1	0.0015	0.7896	0.0005	0.0004	0.2859
1	0.0062	0.0062	0.9964	0.0147	0.998	0.0009	0.0009	0.064
1	0.9977	0.9977	1	1	1	0.9977	0.9977	0.9977
1	0.0004	0.0004	1	0.0016	0.8302	0.0005	0.0004	0.2696
1	0.0009	0.0009	1	0.015	1	0.0009	0.0009	0.0582
1	1	1	1	1	1	1	1	1
1.0192	0.0004	0.0004	1	0.0014	0.8416	0.0005	0.0004	0.3239
1	0.0013	0.0013	0.9996	0.0145	0.9997	0.0008	0.0008	0.0583
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0012	0.8573	0.0005	0.0005	0.3894
1	0.0008	0.0008	1	0.0158	0.9971	0.0008	0.0008	0.0488
1	0.9791	0.9791	1	1	1	0.9791	0.9791	0.9791
1	0.0005	0.0005	1	0.0012	0.9127	0.0005	0.0005	0.4143
1	0.0028	0.0028	0.9978	0.0129	0.9939	0.0007	0.0007	0.052
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0014	0.9587	0.0006	0.0005	0.3871
1	0.0058	0.0058	0.9948	0.0106	0.9925	0.0006	0.0006	0.0561
1	1	1	1	1	1	1	1	1
1	0.0005	0.0005	1	0.0016	0.8894	0.0006	0.0005	0.3192
1	0.0086	0.0086	0.9918	0.0093	0.9905	0.0006	0.0006	0.0596
1	0.9816	0.9816	1	1	0.9828	0.9987	0.9816	0.9816
1	0.0005	0.0005	1	0.0019	0.9534	0.0006	0.0005	0.288
1	0.0037	0.0037	0.9968	0.0103	0.9871	0.0006	0.0006	0.0538

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