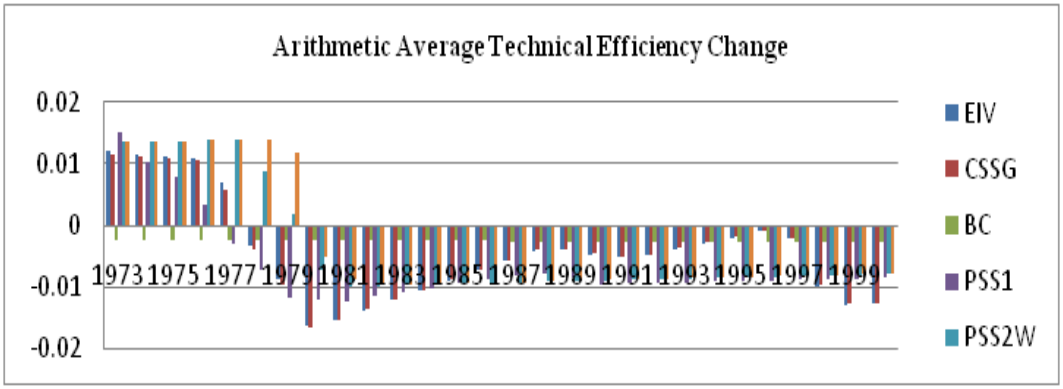
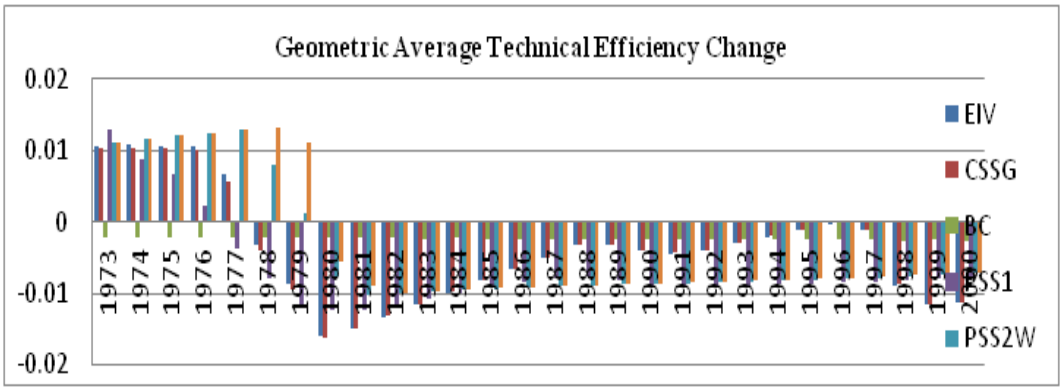
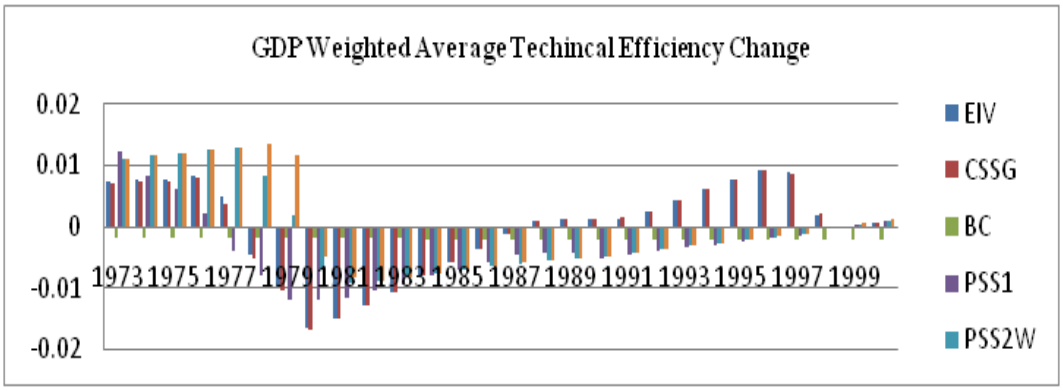
Figure 1: Average Technical Efficiency Change



Asia



Asia



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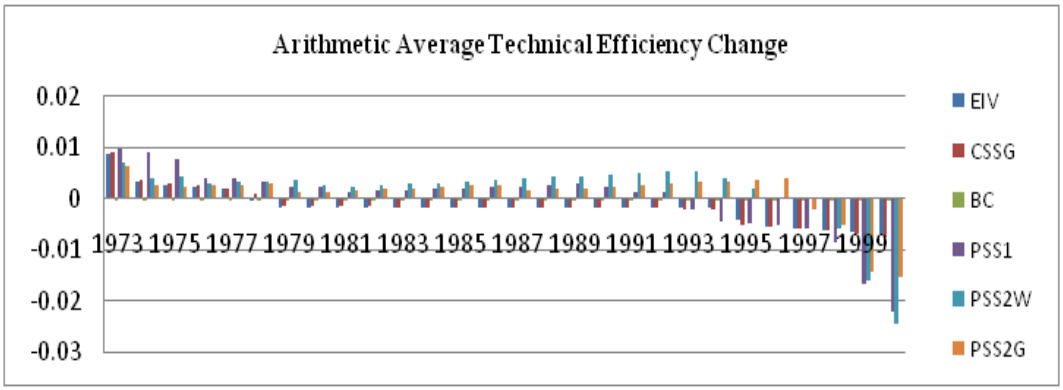
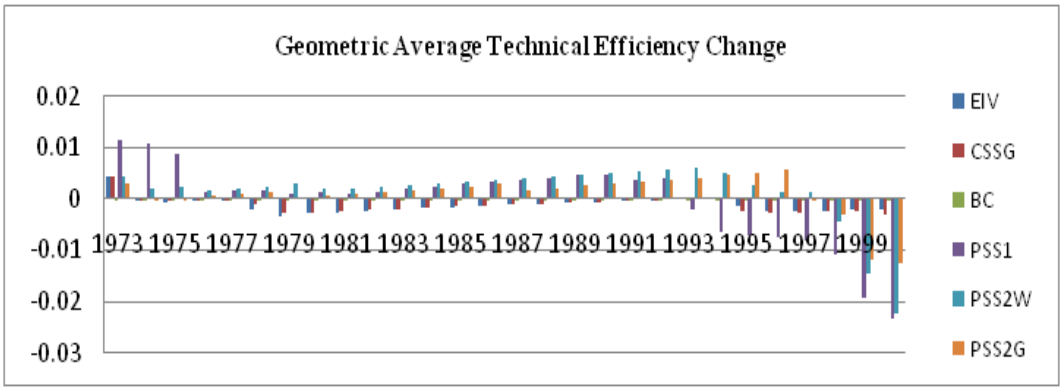
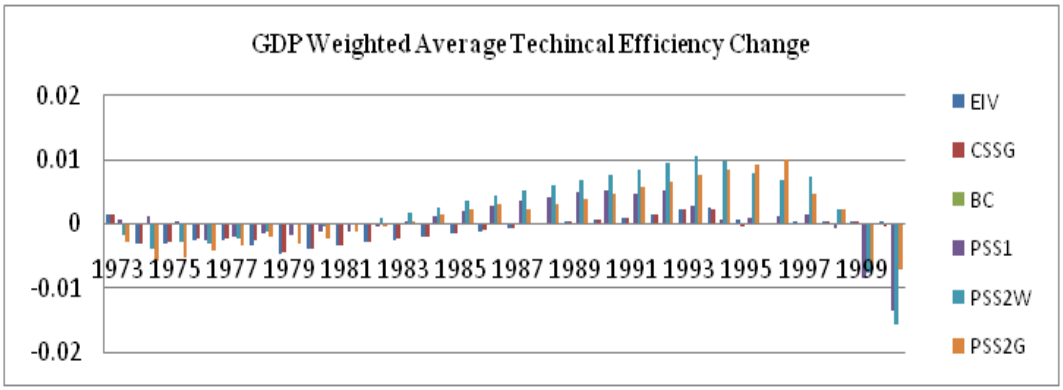


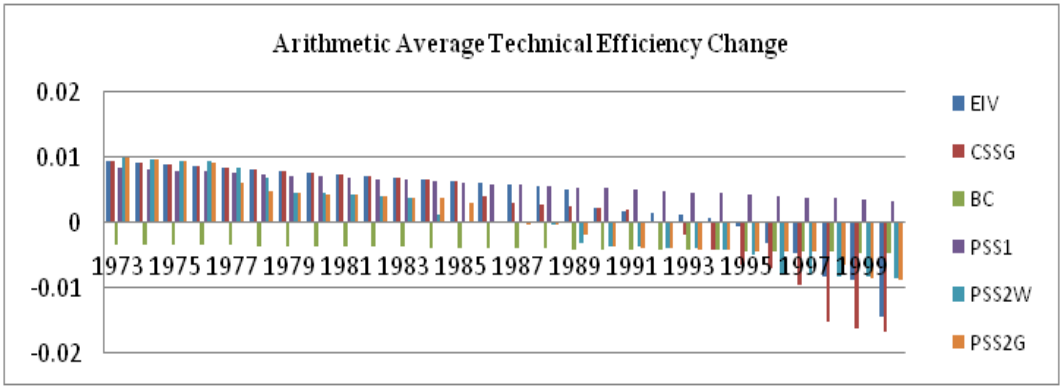
Latin America



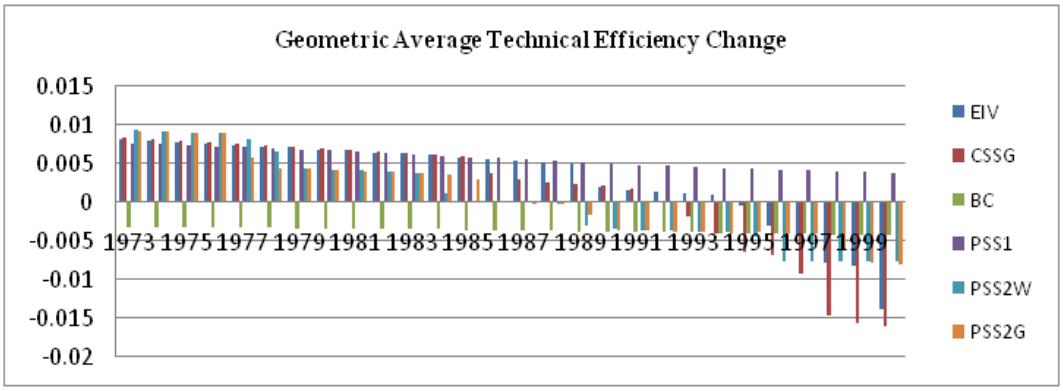
Latin America



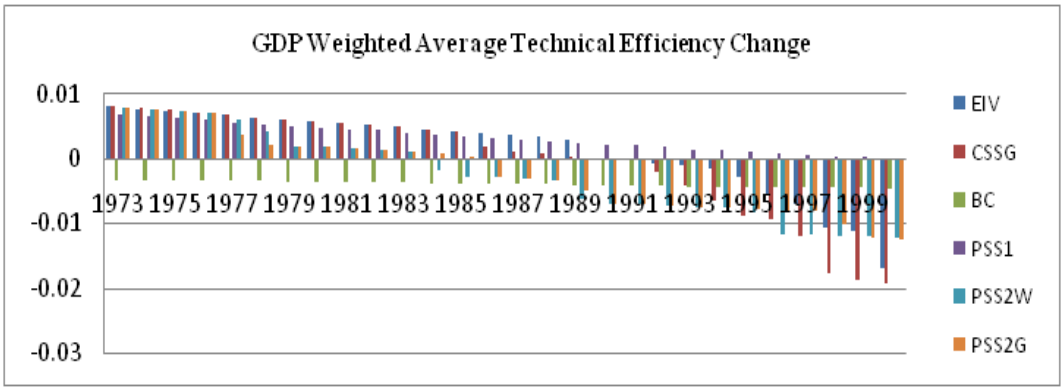
Latin America



OECD



OECD



OECD

Figure 2: Technical Innovation Change

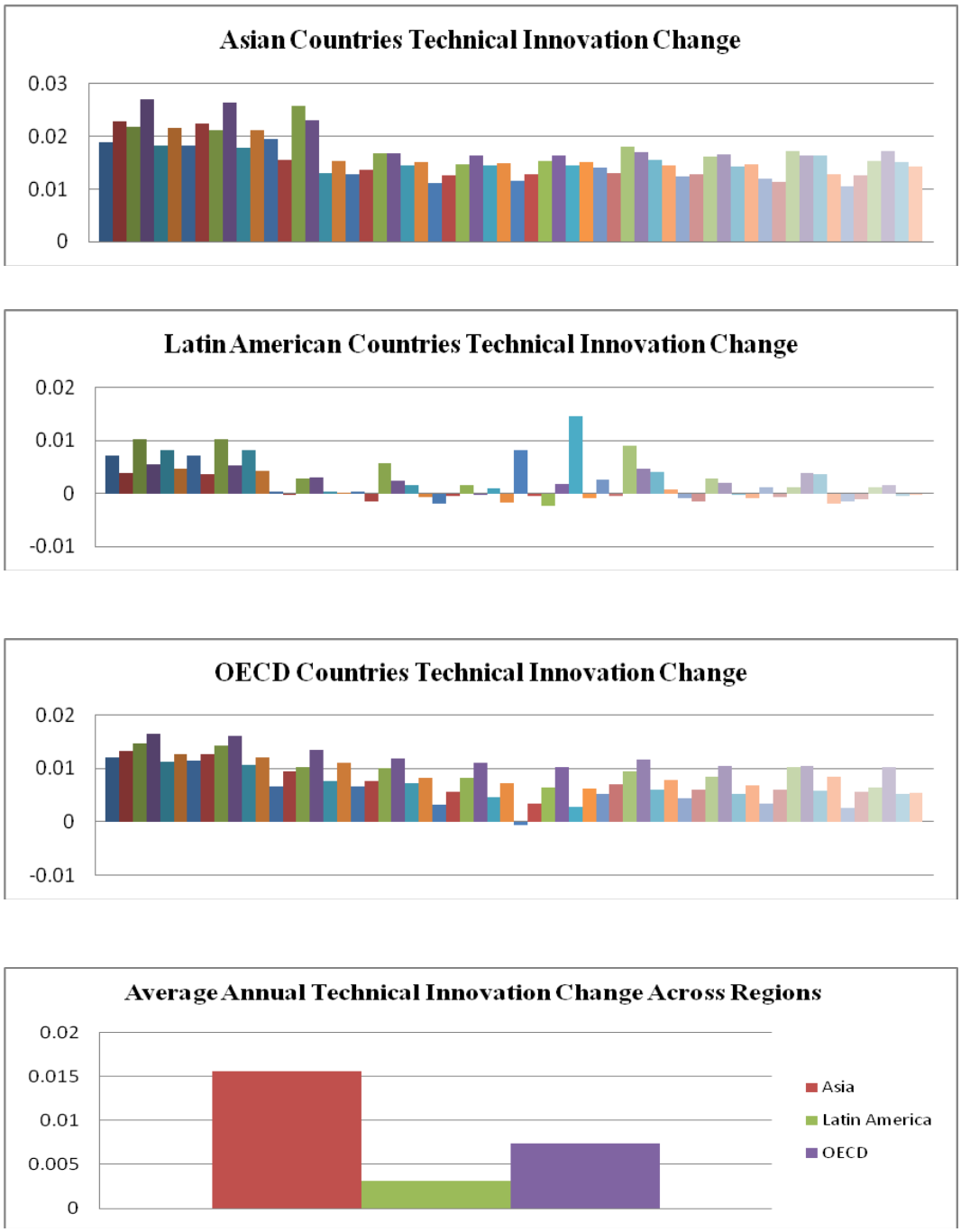


Figure 3: Regional Average TFP Change

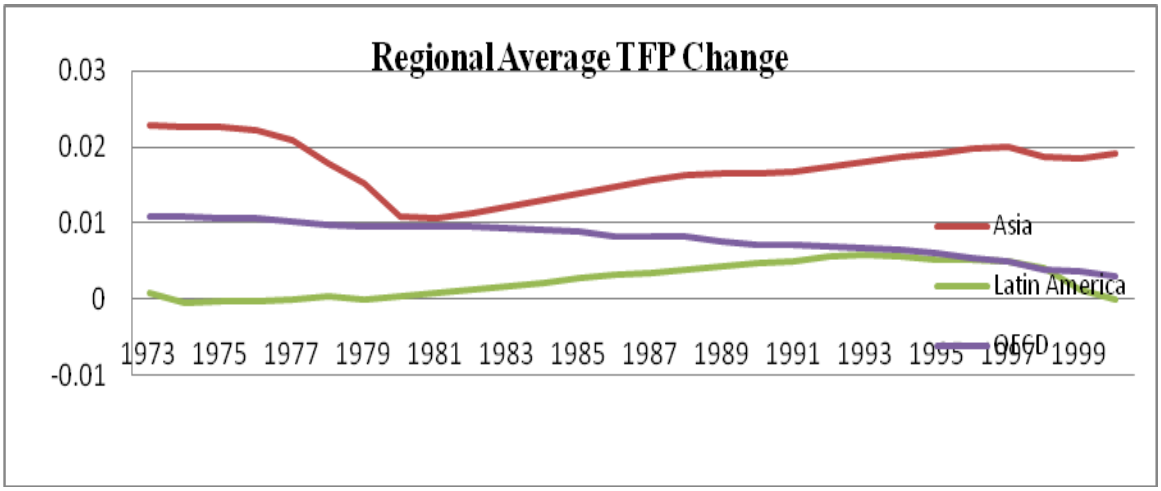


Figure 4: World Efficiency Change

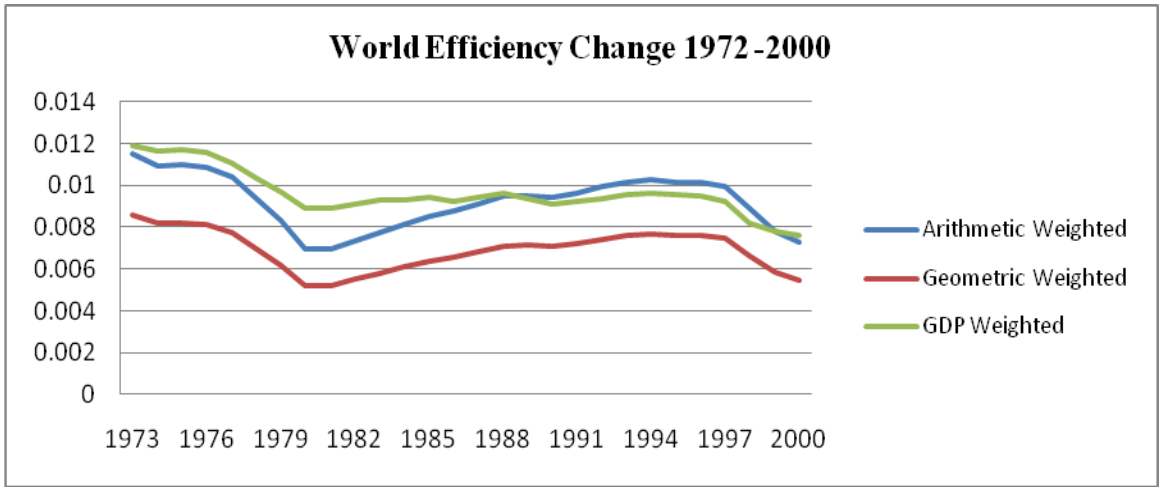
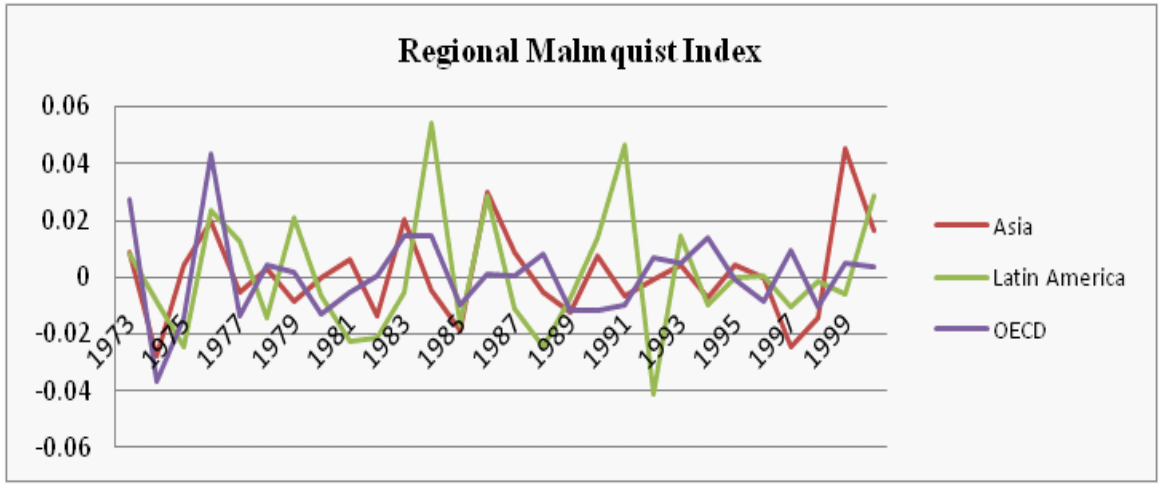


Figure 5: Malmquist Index



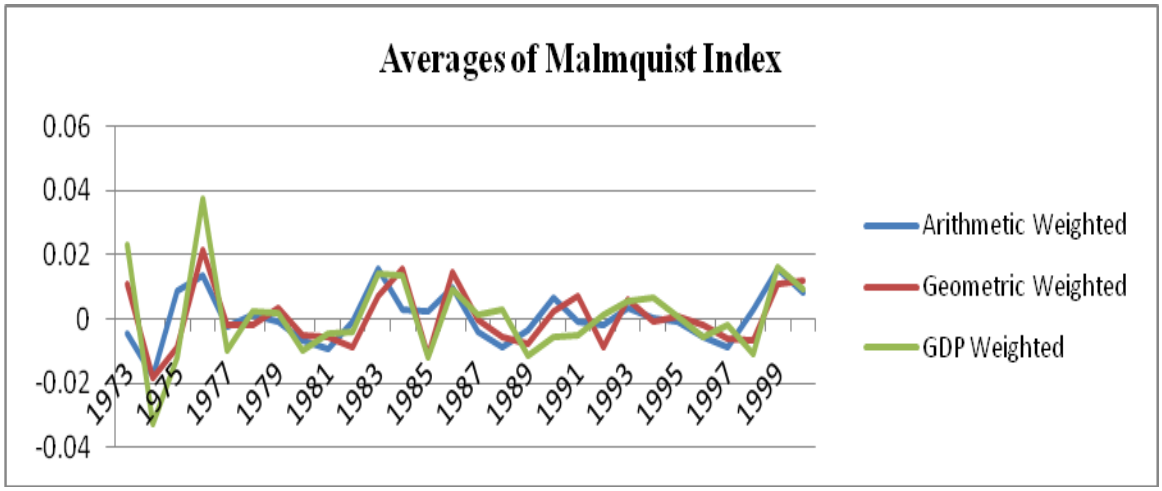


Figure 6: TFP Growth Based on Solow Residual

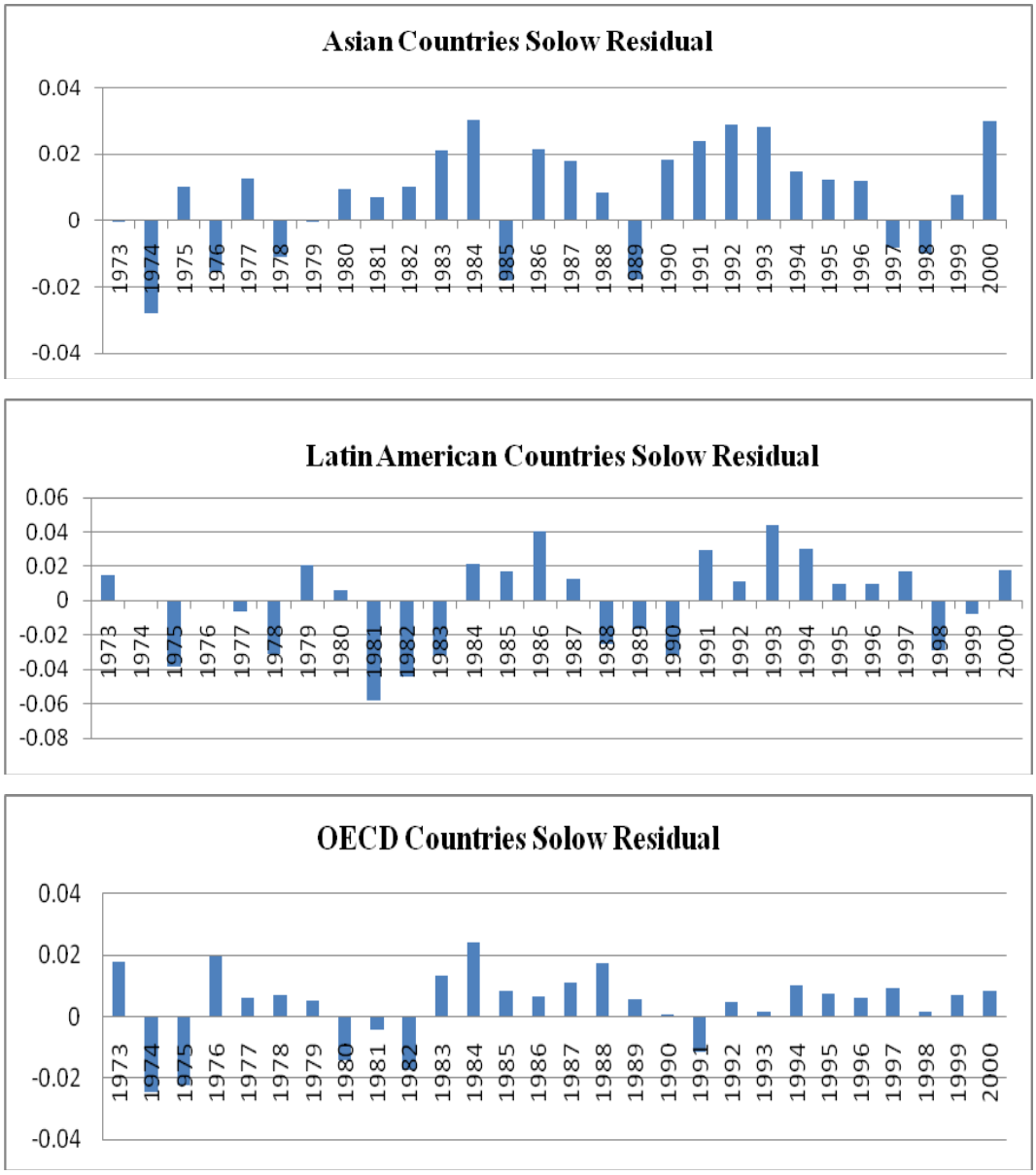
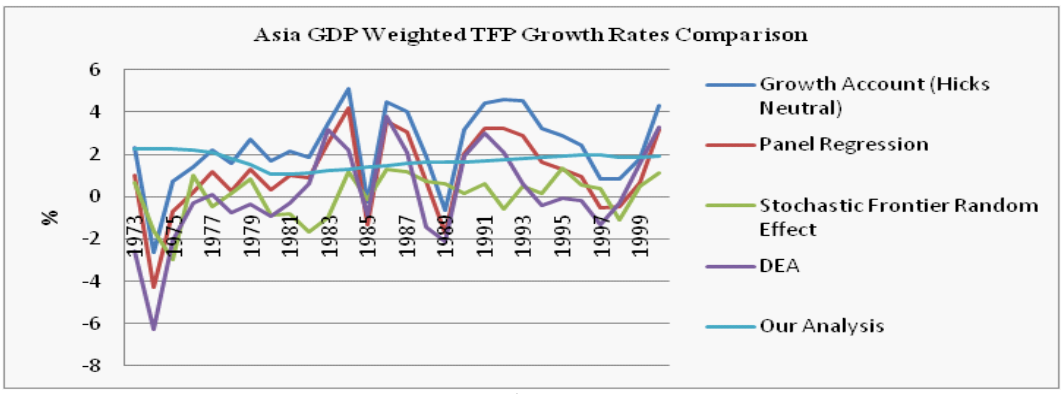
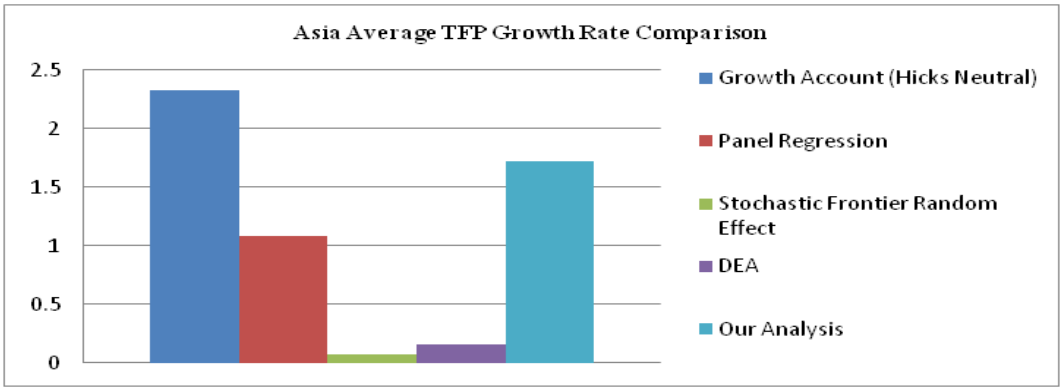


Figure 7: Growth Rate Comparison



Asia



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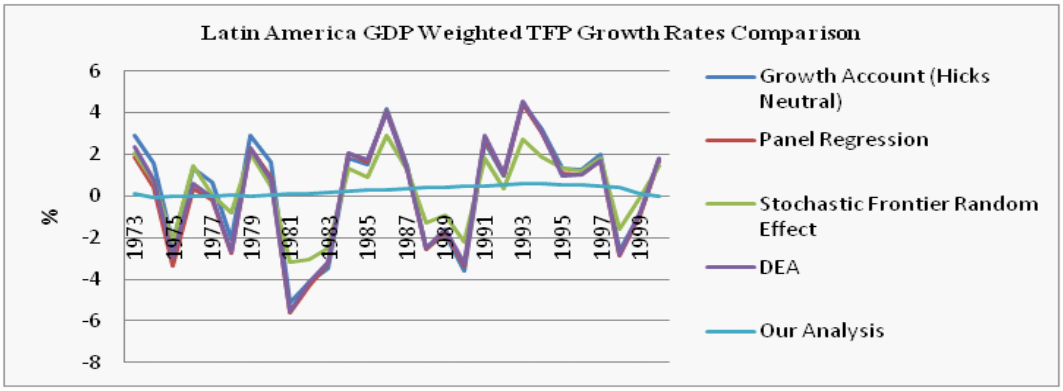
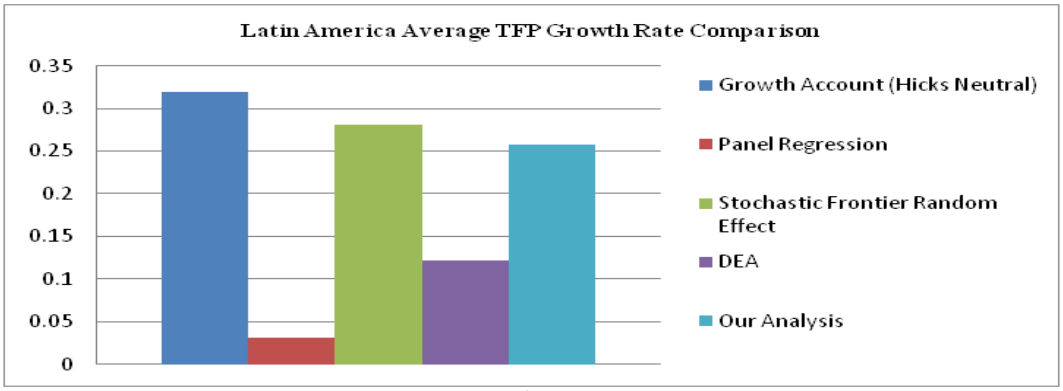
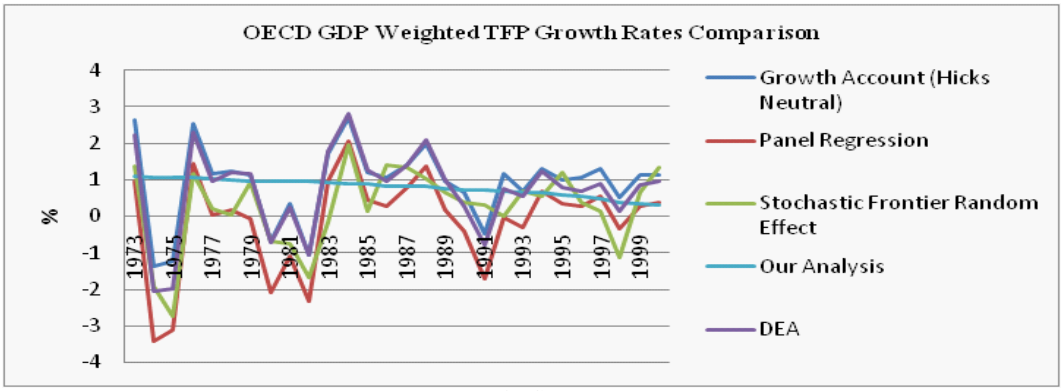


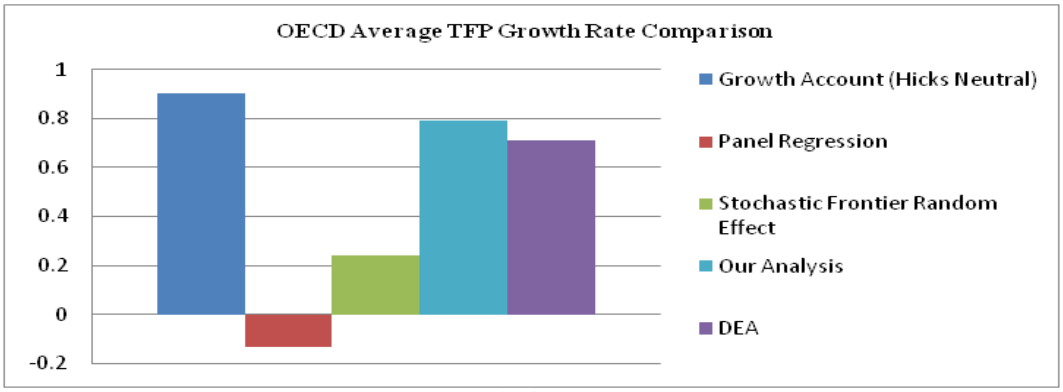
Latin America



Latin America

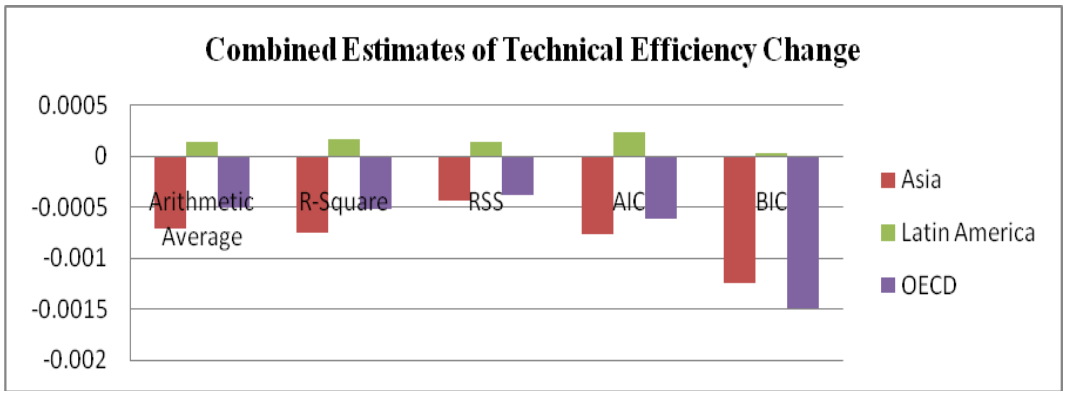


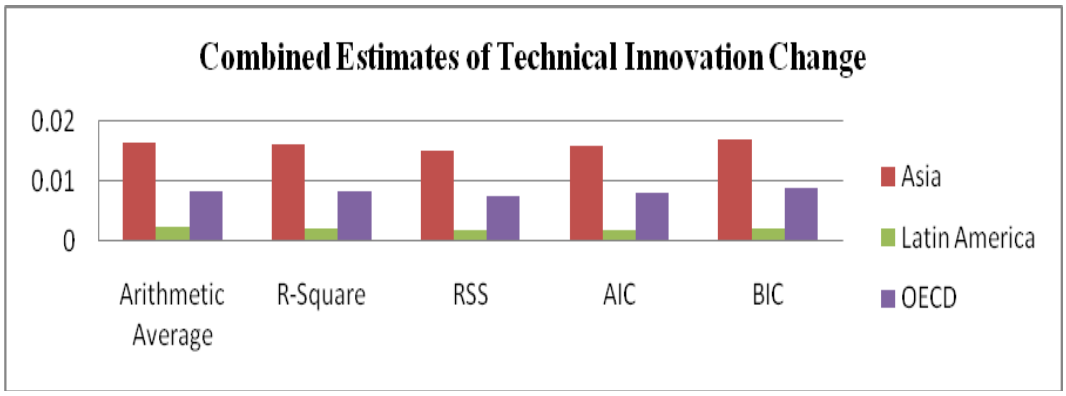
OECD



OECD

Figure 8: Combined Estimates





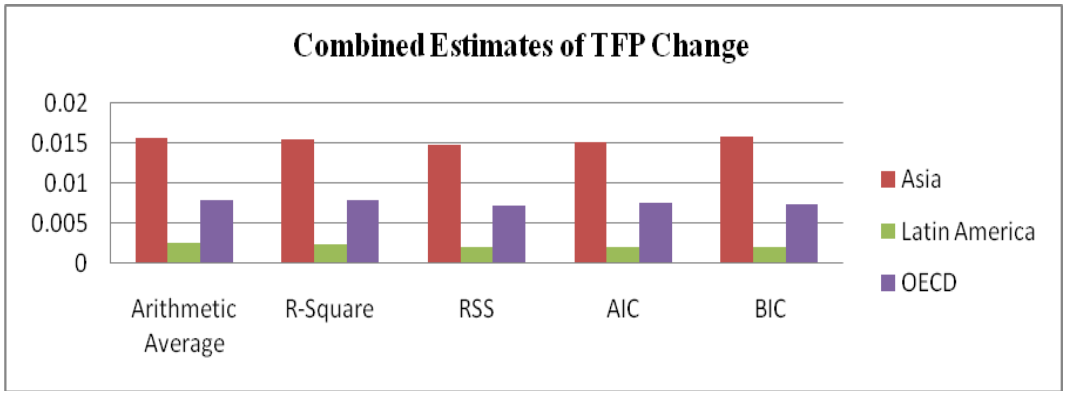


Table 1: Estimation Results for Asia, Latin America, and the OECD

	Estimate	S.E.	Estimate	S.E.	Estimate	S.E.
EIV	K06, LF		K06, EMP		K_eff, LF	
LnK	0.3325	0.0324	0.3221	0.0205	0.2837	0.0357
LnL	0.5931	0.0186	0.4532	0.0119	0.6360	0.0205
Constant	5.8509	0.3356	6.4017	0.2122	6.2285	0.3785
t	0.0189	0.0033	0.0229	0.0020	0.0217	0.0036
EIV	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.2659	0.0223	0.3508	0.0344	0.3454	0.0212
LnL	0.4685	0.0130	0.6003	0.0197	0.4699	0.0123
Constant	6.9401	0.2367	5.6048	0.3576	6.0781	0.2204
t	0.0270	0.0022	0.0182	0.0034	0.0216	0.0020
CSSG	K06, LF		K06, EMP		K_eff, LF	
LnK	0.3408	0.0322	0.3310	0.0202	0.2933	0.0356
LnL	0.5900	0.0185	0.4507	0.0118	0.6333	0.0205
Constant	5.7653	0.3339	6.3067	0.2093	6.1256	0.3775
t	0.0183	0.0033	0.0223	0.0020	0.0212	0.0036
CSSG	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.2769	0.0219	0.3580	0.0343	0.3530	0.0210
LnL	0.4654	0.0128	0.5979	0.0196	0.4683	0.0122
Constant	6.8209	0.2325	5.5293	0.3568	5.9957	0.2189
t	0.0263	0.0022	0.0178	0.0034	0.0211	0.0020
BC	K06, LF		K06, EMP		K_eff, LF	
LnK	0.4781	0.0245	0.4788	0.0360	0.3925	0.0260
LnL	0.3426	0.0255	0.3638	0.0285	0.3644	0.0248
Constant	5.6114	0.3344	5.1744	0.3543	6.0163	0.2682
t	0.0194	0.0050	0.0155	0.0038	0.0258	0.0023
BC	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.4270	0.0277	0.5105	*[1]	0.4815	0.0372
LnL	0.3836	0.0316	0.3430	*	0.3663	0.0300
Constant	5.7652	0.2209	5.0301	*	5.1329	0.3696
t	0.0230	0.0024	0.0131	0.0281	0.0153	0.0041
PSS1	K06, LF		K06, EMP		K_eff, LF	
t	0.0127	0.0015	0.0137	0.0015	0.0167	0.0015
LnK	0.5017	0.0144	0.4776	0.0146	0.4413	0.0142
LnL	0.3689	0.0085	0.3896	0.0088	0.4085	0.0084
PSS1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0168	0.0015	0.0145	0.0015	0.0151	0.0015
LnK	0.4316	0.0149	0.4880	0.0146	0.4688	0.0148
LnL	0.4231	0.0089	0.3818	0.0085	0.4004	0.0089

[1] * indicates numerical instability.

	Estimate	S.E.	Estimate	S.E.	Estimate	S.E.
PSS2W	K06, LF		K06, EMP		K_eff, LF	
t	0.0112	0.0036	0.0125	0.0031	0.0146	0.0034
LnK	0.5117	0.0474	0.4979	0.0441	0.4708	0.0436
LnL	0.3698	0.0703	0.3521	0.0542	0.3870	0.0743
PSS2W	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0164	0.0030	0.0144	0.0028	0.0149	0.0027
LnK	0.4511	0.0407	0.4977	0.0353	0.4829	0.0365
LnL	0.3661	0.0574	0.3454	0.0617	0.3541	0.0538
PSS2G	K06, LF		K06, EMP		K_eff, LF	
t	0.0116	0.0035	0.0127	0.0031	0.0152	0.0033
LnK	0.5130	0.0470	0.4981	0.0439	0.4705	0.0438
LnL	0.3535	0.0667	0.3469	0.0544	0.3660	0.0688
PSS2G	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0163	0.0030	0.0145	0.0027	0.0151	0.0027
LnK	0.4517	0.0408	0.4984	0.0355	0.4819	0.0365
LnL	0.3669	0.0571	0.3382	0.0590	0.3508	0.0546
FIX1	K06, LF		K06, EMP		K_eff, LF	
t	0.0140	0.0028	0.0131	0.0025	0.0180	0.0029
LnK	0.5020	0.0245	0.4883	0.0242	0.4486	0.0235
LnL	0.3064	0.0837	0.3760	0.0751	0.3323	0.0870
FIX1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0169	0.0025	0.0155	0.0028	0.0144	0.0025
LnK	0.4354	0.0231	0.4888	0.0241	0.4754	0.0237
LnL	0.4033	0.0777	0.3302	0.0842	0.4026	0.0752
RND1	K06, LF		K06, EMP		K_eff, LF	
t	0.0123	0.0017	0.0129	0.0016	0.0161	0.0016
LnK	0.5156	0.0231	0.4970	0.0230	0.4657	0.0223
LnL	0.3376	0.0269	0.3589	0.0265	0.3606	0.0273
RND1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0166	0.0016	0.0143	0.0016	0.0147	0.0016
LnK	0.4477	0.0222	0.5025	0.0228	0.4845	0.0227
LnL	0.3824	0.0269	0.3438	0.0274	0.3660	0.0269
FIX2	K06, LF		K06, EMP		K_eff, LF	
t	0.0090	0.0040	0.0055	0.0039	0.0142	0.0040
t^2	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
LnK	0.5100	0.0248	0.4983	0.0243	0.4538	0.0238
LnL	0.3214	0.0839	0.4162	0.0761	0.3439	0.0873
FIX2	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0106	0.0039	0.0134	0.0039	0.0100	0.0038
t^2	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
LnK	0.4426	0.0233	0.4913	0.0243	0.4796	0.0238
LnL	0.4379	0.0791	0.3366	0.0847	0.4278	0.0768
RND2	K06, LF		K06, EMP		K_eff, LF	
t	0.0075	0.0030	0.0068	0.0029	0.0124	0.0030
t^2	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
LnK	0.5225	0.0233	0.5049	0.0231	0.4703	0.0225
LnL	0.3363	0.0269	0.3599	0.0265	0.3599	0.0273
RND2	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0114	0.0029	0.0122	0.0029	0.0113	0.0028
t^2	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
LnK	0.4533	0.0223	0.5046	0.0229	0.4875	0.0228
LnL	0.3837	0.0268	0.3436	0.0274	0.3674	0.0269

Asia

	Estimate	S.E.	Estimate	S.E.	Estimate	S.E.
EIV	K06, LF		K06, EMP		K_eff, LF	
LnK	0.3593	0.0412	0.4704	0.0681	0.4651	0.0475
LnL	0.4413	0.0463	0.1205	0.0774	0.2777	0.0531
Constant	6.1546	0.4274	5.2821	0.6786	5.2169	0.4815
t	0.0055	0.0025	0.0082	0.0041	0.0046	0.0028
EIV	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.3593	0.0412	0.4704	0.0681	0.4651	0.0475
LnL	0.4413	0.0463	0.1205	0.0774	0.2777	0.0531
Constant	6.1546	0.4274	5.2821	0.6786	5.2169	0.4815
t	0.0055	0.0025	0.0082	0.0041	0.0046	0.0028
CSSG	K06, LF		K06, EMP		K_eff, LF	
LnK	0.4828	0.0632	0.4792	0.0439	0.3613	0.0673
LnL	0.1400	0.0719	0.2893	0.0492	0.2385	0.0767
Constant	5.1304	0.6293	5.0564	0.4445	6.2786	0.6859
t	0.0072	0.0038	0.0036	0.0026	0.0103	0.0041
CSSG	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.3684	0.0403	0.4840	0.0684	0.4783	0.0466
LnL	0.4388	0.0453	0.1034	0.0777	0.2702	0.0522
Constant	6.0549	0.4182	5.1509	0.6818	5.0779	0.4729
t	0.0053	0.0024	0.0082	0.0041	0.0043	0.0028
BC	K06, LF		K06, EMP		K_eff, LF	
LnK	0.5759	0.2796	0.5613	0.0385	0.5016	0.0319
LnL	0.3175	0.0009	0.3548	0.0330	0.3976	0.0337
Constant	4.1558	0.0310	4.3689	0.3671	4.7728	0.3278
t	0.0003	0.0328	-1.40E-05	0.0012	0.0029	0.0009
BC	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.4716	0.0254	0.5866	0.0433	0.5663	0.0395
LnL	0.4376	0.0291	0.3041	0.0499	0.3495	0.0343
Constant	5.1470	0.2603	4.0584	0.3744	4.3177	0.3784
t	0.0030	0.0009	0.0004	0.0011	0.000028	0.0012
PSS1	K06, LF		K06, EMP		K_eff, LF	
t	0.0004	0.0014	-0.0015	0.0014	0.0058	0.0014
LnK	0.5802	0.0226	0.6212	0.0203	0.4656	0.0224
LnL	0.2939	0.0257	0.3223	0.0232	0.3121	0.0255
PSS1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0024	0.0014	0.0015	0.0014	-0.0006	0.0014
LnK	0.4213	0.0220	0.5890	0.0226	0.5608	0.0203
LnL	0.5001	0.0248	0.2454	0.0257	0.3713	0.0231

	Estimate	S.E.	Estimate	S.E.	Estimate	S.E.
PSS2W	K06, LF		K06, EMP		K_eff, LF	
t	-0.0019	0.0029	-0.0005	0.0027	0.0016	0.0039
LnK	0.5547	0.0540	0.5494	0.0569	0.4499	0.0592
LnL	0.3971	0.1043	0.3487	0.0864	0.4903	0.1408
PSS2W	K_eff, EMP		Ks, LF		Ks, EMP	
t	-0.0001	0.0045	0.0009	0.0046	-0.0018	0.0027
LnK	0.4336	0.0768	0.5612	0.1073	0.5582	0.0547
LnL	0.5842	0.1105	0.3077	0.1486	0.3989	0.0843
PSS2G	K06, LF		K06, EMP		K_eff, LF	
t	0.0082	0.0118	-0.0005	0.0027	-0.0023	0.0038
LnK	0.6653	0.0969	0.5525	0.0576	0.4839	0.0745
LnL	*	0.1506	0.3420	0.0873	0.5579	0.1205
PSS2G	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0018	0.0027	0.0145	0.0033	-0.0009	0.0028
LnK	0.4561	0.0489	0.5397	0.0668	0.5573	0.0573
LnL	0.4991	0.0789	*	0.1205	0.3631	0.0880
FIX1	K06, LF		K06, EMP		K_eff, LF	
t	0.0027	0.0021	-0.0004	0.0020	0.0089	0.0022
LnK	0.5914	0.0306	0.5789	0.0301	0.4686	0.0283
LnL	0.1884	0.0801	0.3320	0.0732	0.1874	0.0868
FIX1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0046	0.0020	0.0041	0.0022	0.0007	0.0020
LnK	0.4588	0.0275	0.5910	0.0316	0.5769	0.0311
LnL	0.3720	0.0786	0.1404	0.0819	0.3003	0.0751
RND1	K06, LF		K06, EMP		K_eff, LF	
t	-0.0008	0.0017	-0.0015	0.0012	0.0029	0.0013
LnK	0.6032	0.0231	0.5808	0.0288	0.4881	0.0278
LnL	0.3137	0.0269	0.3731	0.0484	0.4114	0.0519
RND1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0020	0.0012	-0.0002	0.0013	-0.0010	0.0012
LnK	0.4695	0.0267	0.6049	0.0306	0.5808	0.0299
LnL	0.4700	0.0482	0.2988	0.0527	0.3634	0.0495
FIX2	K06, LF		K06, EMP		K_eff, LF	
t	-0.0075	0.0035	-0.0094	0.0031	-0.0015	0.0037
t^2	0.0003	0.0001	0.0003	0.0001	0.0003	0.0001
LnK	0.6142	0.0306	0.6015	0.0301	0.4912	0.0285
LnL	0.2326	0.0794	0.3467	0.0719	0.2320	0.0861
FIX2	K_eff, EMP		Ks, LF		Ks, EMP	
t	-0.0048	0.0033	-0.0051	0.0035	-0.0077	0.0032
t^2	0.0003	0.0001	0.0003	0.0001	0.0002	0.0001
LnK	0.4816	0.0278	0.6109	0.0317	0.5973	0.0313
LnL	0.3878	0.0773	0.1795	0.0815	0.3130	0.0740
RND2	K06, LF		K06, EMP		K_eff, LF	
t	-0.0102	0.0027	-0.0099	0.0026	-0.0075	0.0029
t^2	0.0003	0.0001	0.0003	0.0001	0.0003	0.0001
LnK	0.6213	0.0291	0.6000	0.0287	0.5087	0.0276
LnL	0.3147	0.0507	0.3648	0.0479	0.4077	0.0511
RND2	K_eff, EMP		Ks, LF		Ks, EMP	
t	-0.0071	0.0027	-0.0091	0.0027	-0.0089	0.0026
t^2	0.0003	0.0001	0.0003	0.0001	0.0003	0.0001
LnK	0.4901	0.0267	0.6215	0.0304	0.5985	0.0299
LnL	0.4589	0.0477	0.2992	0.0521	0.3550	0.0491

Latin America

	Estimate	S.E.	Estimate	S.E.	Estimate	S.E.
EIV	K06, LF		K06, EMP		K_eff, LF	
LnK	0.2317	0.0184	0.3103	0.0177	0.1732	0.0205
LnL	0.7614	0.0183	0.6484	0.0173	0.8020	0.0204
Constant	7.7130	0.2058	2.0023	0.0931	8.3426	0.2341
t	0.0121	0.0011	0.0132	0.0012	0.0146	0.0012
EIV	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.2435	0.0206	0.2733	0.0173	0.3463	0.0164
LnL	0.6872	0.0201	0.7368	0.0171	0.6244	0.0160
Constant	2.4277	0.1114	7.2149	0.1936	1.7511	0.0871
t	0.0165	0.0014	0.0113	0.001	0.0127	0.0011
CSSG	K06, LF		K06, EMP		K_eff, LF	
LnK	0.2516	0.0179	0.3284	0.017	0.1875	0.0200
LnL	0.7510	0.0177	0.6425	0.0166	0.7954	0.0199
Constant	7.4794	0.1995	1.8285	0.0895	8.1700	0.2282
t	0.0115	0.0011	0.0126	0.0012	0.0142	0.0012
CSSG	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.2568	0.0199	0.2943	0.0168	0.3664	0.0158
LnL	0.6840	0.0195	0.7256	0.0167	0.6170	0.0154
Constant	2.2871	0.1078	6.9673	0.1889	1.5644	0.0837
t	0.0161	0.0013	0.0107	0.0010	0.0120	0.0011
BC	K06, LF		K06, EMP		K_eff, LF	
LnK	0.5409	0.0150	0.5964	0.0154	0.4877	0.0181
LnL	0.5025	0.0181	0.4658	0.0228	0.5558	0.0280
Constant	4.4840	0.1603	0.3663	0.2060	4.9927	0.1756
t	0.0066	0.0009	0.0095	0.0013	0.0102	0.0014
BC	K_eff, EMP		Ks, LF		Ks, EMP	
LnK	0.5274	0.0139	0.5437	0.156	0.5975	0.0127
LnL	0.5217	0.0157	0.5025	0.0009	0.4626	0.0144
Constant	0.6131	0.1092	4.4346	0.14920	0.3474	0.0940
t	0.0135	0.0008	0.0077	0.00075	0.0110	0.0008
PSS1	K06, LF		K06, EMP		K_eff, LF	
t	0.0066	0.0011	0.0077	0.0011	0.0100	0.0011
LnK	0.4504	0.0164	0.5022	0.0152	0.4025	0.0172
LnL	0.5248	0.0166	0.3974	0.0150	0.5522	0.0173
PSS1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0118	0.0011	0.0073	0.0011	0.0083	0.0011
LnK	0.4442	0.0152	0.4592	0.0170	0.5166	0.0155
LnL	0.4210	0.0151	0.5067	0.0171	0.3650	0.0153

	Estimate	S.E.	Estimate	S.E.	Estimate	S.E.
PSS2W	K06, LF		K06, EMP		K_eff, LF	
t	0.0032	0.0019	0.0057	0.0021	0.0082	0.0012
LnK	0.5529	0.0439	0.5613	0.044	0.4703	0.0318
LnL	0.4955	0.0564	0.4239	0.0544	0.5384	0.0496
PSS2W	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0111	0.0013	0.0046	0.0013	0.0072	0.0014
LnK	0.4752	0.0319	0.5481	0.0348	0.5539	0.0356
LnL	0.4465	0.0484	0.4827	0.0497	0.3978	0.0488
PSS2G	K06, LF		K06, EMP		K_eff, LF	
t	-0.0006	0.0023	0.0035	0.0023	0.0064	0.0013
LnK	0.5448	0.0527	0.5368	0.0479	0.4556	0.034
LnL	0.5092	0.0648	0.4383	0.0588	0.5519	0.0526
PSS2G	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0103	0.0013	0.0028	0.0014	0.0062	0.0015
LnK	0.4503	0.0324	0.5444	0.0384	0.5378	0.0373
LnL	0.4582	0.0497	0.4814	0.0539	0.4026	0.0511
FIX1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0052	0.0005	0.0071	0.0006	0.0094	0.0005
LnK	0.5282	0.0153	0.5396	0.0156	0.4618	0.0140
LnL	0.3984	0.0347	0.3085	0.0312	0.4339	0.0354
FIX1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0116	0.0005	0.0061	0.0005	0.0079	0.0005
LnK	0.4716	0.0143	0.5366	0.0151	0.5495	0.0156
LnL	0.3403	0.0319	0.3776	0.0344	0.2817	0.0312
RND1	K06, LF		K06, EMP		K_eff, LF	
t	0.0044	0.0005	0.0060	0.0005	0.0085	0.0004
LnK	0.5320	0.0147	0.5496	0.0152	0.4665	0.0137
LnL	0.4584	0.0197	0.4098	0.0199	0.5127	0.0196
RND1	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0105	0.0005	0.0053	0.0005	0.0069	0.0005
LnK	0.4811	0.0142	0.5386	0.0146	0.5567	0.0152
LnL	0.4612	0.0201	0.4492	0.0197	0.3979	0.0200
FIX2	K06, LF		K06, EMP		K_eff, LF	
t	-0.0024	0.0012	0.0002	0.0013	0.0016	0.0011
t^2	0.0002	0.0000	0.0002	0.0000	0.0003	0.0000
LnK	0.5473	0.0149	0.5629	0.0157	0.4806	0.0137
LnL	0.3669	0.0336	0.2578	0.0315	0.4006	0.0343
FIX2	K_eff, EMP		Ks, LF		Ks, EMP	
t	-0.0031	0.0011	-0.0001	0.0013	0.0007	0.0011
t^2	0.0002	0.0000	0.0002	0.0000	0.0002	0.0000
LnK	0.5486	0.0144	0.5673	0.0153	0.4829	0.0134
LnL	0.4391	0.0195	0.3853	0.0202	0.4928	0.0194
RND2	K06, LF		K06, EMP		K_eff, LF	
t	0.0075	0.0030	0.0068	0.0029	0.0124	0.0030
t^2	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
LnK	0.5225	0.0233	0.5049	0.0231	0.4703	0.0225
LnL	0.3363	0.0269	0.3599	0.0265	0.3599	0.0273
RND2	K_eff, EMP		Ks, LF		Ks, EMP	
t	0.0045	0.0013	-0.0006	0.0011	0.0025	0.0012
t^2	0.0002	0.0000	0.0002	0.0000	0.0001	0.0000
LnK	0.4976	0.0144	0.5487	0.0144	0.5677	0.0153
LnL	0.4371	0.0204	0.4369	0.0195	0.3819	0.0203

OECD

Table 2: Confidence Intervals for Combined Estimates

		Arithmetic	RSS	R-Square	AIC	BIC
Asia	Estimate	0.0159	0.0147	0.0155	0.0152	0.0158
	Variance	6.55E-06	1.47E-06	6.20E-06	4.49E-06	3.37E-06
	Bound	3.38E-05	1.38E-05	3.27E-05	2.70E-05	2.10E-05
Latin America	Estimate	0.0025	0.0023	0.0020	0.0021	0.0021
	Variance	3.31E-06	3.77E-06	3.95E-06	3.58E-06	3.56E-06
	Bound	3.40E-05	1.98E-05	3.33E-05	3.00E-05	2.73E-05
OECD	Estimate	0.0079	0.0075	0.0079	0.0075	0.0073
	Variance	1.01E-05	4.29E-07	8.05E-06	5.00E-06	6.94E-06
	Bound	4.41E-05	1.87E-05	4.39E-05	3.77E-05	3.15E-05