Appendix 12: Comparison of Modeled and Actual Gross Domestic Product

USA	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled GDP	6196089	6459615	6733970	7019588	7316920	7626434	7948619	8283981	8633046	8996363	9374499
Actual GDP	6743208	6911865	6782207	7066237	7581108	7874872	8146028	8432567	8787203	9091291	9250378
CHN	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled GDP	2498567	3122765	3900872	4870439	6078101	7581756	9453267	11781811	14678015	18279093	22755184
Actual GDP	1893784	1949955	2128598	2278862	2534000	2752674	2931539	3177307	3354463	3380560	3385122
BRA	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled GDP	543512.7	564974.1	586762.4	608881.9	631336.4	654130.2	677267.3	700752.1	724588.7	748781.4	773334.6
Actual GDP	1014792	971272.3	978935.4	950507.9	1001891	1080097	1160963	1201713	1200535	1238775	1185475
IND	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990

Modeled	1145279	1403629	1715910	2092859	2547290	3094476	3752616	4543386	5492584	6630904	7994846
GDP											
Actual	1015105	1077444	1111560	1202349	1248910	1298600	1353105	1412884	1560090	1663728	1750993
GDP											
HKG	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	539.9337	598.2892	662.8201	734.1694	813.0464	900.2332	996.5921	1103.074	1220.727	1350.706	1494.285
GDP											
Actual	82606.71	90351.79	93056.24	98638.83	108818.5	109638.3	121782.2	137910.7	149349.9	153499.1	159035.3
GDP											
HTI	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	15415.35	15707.86	15929.72	16087.4	16186.91	16233.81	16233.24	16189.95	16108.32	15992.41	15845.95
GDP											
Actual	11311.43	10988.58	10590.2	10692.55	10727.85	10790.98	10728.45	10655.47	10986.76	10662.73	10773.45
GDP											
GRC	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	1164345	1196509	1229415	1263081	1297522	1332755	1368796	1405662	1443371	1481941	1521390
GDP											
Actual	137887.8	137962.2	138508.1	139066.3	142899.3	147360.3	149738.3	149058.8	155690.5	161665.8	161709
GDP											

ISR	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	158778.4	162366.2	165998.9	169676.9	173400.6	177170.6	180987.3	184851.2	188762.8	192722.6	196731.2
GDP											
Actual	65435.68	68815.62	70049.63	72521.86	73171.25	75693.88	79316.33	85032.77	86737.06	87503.24	93268.26
GDP											
KEN	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	176374	181132.4	185833.7	190478.4	195066.9	199599.8	204077.6	208500.6	212869.3	217184.3	221445.9
GDP											
Actual	27353.66	27977.96	29668.75	29852.18	30366.04	31697.43	33951.06	35990.43	38155.53	39859.83	41570.97
GDP											
MWI	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	55081.25	56844.4	57960.66	58523.24	58614.51	58307.12	57665.04	56744.51	55594.84	54259.19	52775.21
GDP											
Actual	6283.546	5974.818	6028.067	6284.869	6571.626	7081.271	7121.541	7284.503	7481.57	7846.864	8210.711
GDP											
GBR	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	1212745	1248658	1285422	1323057	1361580	1401010	1441368	1482672	1524943	1568202	1612469
GDP											

Actual	1160744	1145638	1163415	1204671	1234772	1278428	1334599	1398101	1467801	1499837	1505692
GDP											
SAU	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled GDP	17067.34	18260.63	19514	20830.13	22211.78	23661.85	25183.35	26779.39	28453.26	30208.33	32048.15
Actual GDP	210662.3	227352.2	231114.7	206256.8	206035.2	192246.2	180536	188872.5	194907.9	201951	230231
321											
JPN	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	3886446	4016785	4151244	4289949	4433028	4580615	4732845	4889861	5051808	5218833	5391092
GDP											
Actual	2500144	2579317	2658130	2719951	2826577	2950874	3036326	3162654	3358738	3520998	3699822
GDP											
FIN	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	661392.2	679745.2	698521.4	717729.9	737379.8	757480.3	778041	799071.4	820581.6	842581.5	865081.4
GDP											
Actual	98649.6	100487.2	103754.9	106555.4	109771.9	113466.5	116153.6	120921.1	126851.5	134045.5	134055.2
GDP											
AUS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990

Modeled	1491549	1532235	1573916	1616614	1660353	1705156	1751048	1798054	1846199	1895509	1946011
GDP											
Actual	335756.5	348726.7	348301.5	348353.6	372379.6	391229.3	399344.4	419094	437912.8	457176.2	464136.6
GDP											
DMA	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Modeled	74.81599	85.79204	98.36917	112.7798	129.2899	148.204	169.8703	194.6875	223.1118	255.6652	292.9448
GDP											
Actual	164.206	184.926	191.808	195.656	207.348	209.656	223.704	242.64	261.777	263.694	275.73
GDP											

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
9768045	1017761	1060385	1104741	1150898	1198929	1248908	1300911	1355020	1411317	1469890	1530828
	7	1	2	8	6	0	3	0	3	3	9
9243499	9572148	9834941	1023202	1051026	1090916	1139875	1190602	1246381	1297384	1310047	1333449
			2	3	7	7	9	9	2	1	1
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
2831721	3522661	4380734	5446076	6768401	8409276	1.04E+08	1.3E+08	1.61E+08	2E+08	2.48E+08	3.08E+08
6	9	9	4	0	7						
3508948	3755037	4126170	4438753	4810000	5127590	5291339	5338703	5578503	5952682	6329737	6814494

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
798252.7	823540.1	849201.4	875240.9	901663.5	928473.6	955676	983275.4	1011277	1039685	1068504	1097740
1212666	1220990	1296907	1389945	1466460	1517464	1588457	1613656	1641348	1734491	1780379	1857599
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
9627795	1158129	1391656	1670628	2003668	2401008	2874779	3439363	4111804	4912291	5864737	6997453
	6	8	4	7	4	4	6	0	3	5	6
1762411	1842360	1931871	2039525	2171041	2323733	2403114	2541494	2681321	2773211	2906878	2989576
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1652.869	1828.003	2021.394	2234.919	2470.649	2730.864	3018.078	3335.058	3684.852	4070.821	4496.662	4966.45
166794.7	175823.9	185281.2	194935.8	198024.2	204854	213630.2	199509.3	202921.2	216781.2	216306.6	218185.3
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
15672.38	15474.87	15256.34	15019.47	14766.71	14500.32	14222.36	13934.74	13639.16	13337.2	13030.31	12719.78
11156.72	10725.68	10302.87	9215.061	10289.44	10882.1	11346.97	11780.95	12289.77	12590.12	12654.29	12820.1
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1561735	1602997	1645194	1688346	1732473	1777595	1823733	1870908	1919142	1968457	2018876	2070421
168230.9	170928.7	169706.7	174662.6	179928.4	186744.6	196868.8	206380.7	214634.2	225054.6	236462.1	247945.8

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
200788.9	204896.4	209054.1	213262.6	217522.4	221834	226198	230614.9	235085.2	239609.5	244188.4	248822.5
97249.24	103872.3	107432.7	114590.3	125242.9	132362.2	137269	142513.4	147072.9	159558.4	159187.5	158357.5
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
225654.6	229810.9	233915.2	237968	241969.7	245920.7	249821.4	253672.4	257474	261226.6	264930.7	268586.6
42852.79	43098.11	43754.84	45663.59	48490.93	51489.49	52761.22	55518.26	57993.14	59408.91	62956.47	64478.13
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
51175.71	49489.12	47740.04	45949.66	44136.14	42314.97	40499.29	38700.15	36926.79	35186.83	33486.49	31830.77
8886.468	8192.294	8945.962	7996.239	9062.586	9927.493	10535.37	10605.72	10931.5	10965.81	10477.11	10619.11
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1657766	1704116	1751539	1800060	1849700	1900485	1952437	2005583	2059946	2115552	2172429	2230601
1487461	1491383	1527375	1585210	1623419	1663252	1713664	1766691	1822989	1889458	1939162	1983812
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
33976.39	35996.88	38113.6	40330.71	42652.52	45083.53	47628.39	50291.99	53079.37	55995.81	59046.77	62237.97
279282.6	306153.2	318108.1	336600.6	354480.7	381901.5	404884.8	436679.3	440714.6	488694.4	507467.2	518914.1
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
5568743	5751948	5940876	6135698	6336594	6543745	6757340	6977574	7204645	7438760	7680130	7928973

3824698	3855720	3861077	3898677	4003033	4124648	4166541	4117007	4104027	4215552	4230084	4232500
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
888091.7	911623.2	935686.8	960293.5	985454.7	1011182	1037487	1064382	1091879	1119990	1148729	1178108
126220.4	122115.9	121309.7	126178.8	131585	136504.6	145148.3	153138	160062	169209.1	173703.2	176750.4
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
1997732	2050700	2104944	2160491	2217373	2275620	2335262	2396331	2458859	2522880	2588427	2655536
461003.8	477843.2	500840.6	527346.2	549172.9	574551.5	600621.1	634305	664206.8	691886.7	713625.8	746683.5
1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
335.6337	384.5136	440.4786	504.5514	577.9017	661.8676	757.9794	867.9872	993.8923	1137.983	1302.878	1491.568
285.8797	299.0183	303.7872	316.6149	327.0781	347.5338	361.9566	382.3888	390.8817	404.4838	411.787	415.539

2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
1594226	1660181	1728793	1800168	1874415	1951647	2031982	2115543	2202455	2292853	2386872	2484656
8	3	5	5	3	4	5	0	9	4	6	0
1370880	1422788	1470373	1509588	1536446	1531973	1489429	1527062	1550930	1584963	1610842	1648266
9	2	2	4	4	1	4	2	2	5	9	2
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
3.81E+08	4.73E+08	5.86E+08	7.26E+08	9E+08	1.12E+09	1.38E+09	1.71E+09	2.12E+09	2.62E+09	3.24E+09	4.01E+09

7248623	7830953	8602940	9489543	1035820	1079914	1157254	1285880	1367315	1435812	1530442	1622085
				6	8	4	8	9	7	6	7
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
1127398	1157482	1187998	1218951	1250346	1282188	1314484	1347237	1380455	1414141	1448302	1482944
1902061	2036567	2127881	2239748	2405104	2559007	2587478	2816706	2965070	3022026	3112906	3128572
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
8343949	9943876	1.18E+08	1.41E+08	1.68E+08	2E+08	2.37E+08	2.82E+08	3.35E+08	3.98E+08	4.72E+08	5.6E+08
2	3										
3212954	3454211	3709371	4024059	4355554	4601842	4945731	5314517	5675667	5949388	6320316	6754741
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
5484.669	6056.261	6686.665	7381.871	8148.47	8993.724	9925.624	10952.96	12085.43	13333.68	14709.44	16225.61
223111.7	240644.2	256420.8	272324.3	287685.1	291529.7	282158.6	298918.5	310881.4	316167.8	325974.6	334980.4
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
12406.79	12092.41	11777.62	11463.28	11150.17	10839.01	10530.4	10224.92	9923.049	9625.226	9331.831	9043.194
13072.6	12808.95	13245.37	13759.84	14437.11	14789.63	15482.9	14869.73	15936.16	16393.48	17085.68	17572.2
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
2123117	2176986	2232053	2288343	2345882	2404695	2464808	2526249	2589045	2653224	2718814	2785845

264671.5	280566.8	284786.8	303593.2	316350.9	318127.3	307180.7	292966.5	268611.5	248992.9	240930.5	241776.4
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
253512.2	258258.2	263061	267921.3	272839.6	277816.6	282852.7	287948.7	293105.1	298322.6	303601.8	308943.3
159602	167111.8	173480.3	182781.5	193502.2	198668.2	200768.8	211431.2	221407.1	226681.1	236605.7	244088.4
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
272194.9	275755.9	279270	282737.6	286159.2	289535	292865.6	296151.3	299392.6	302589.7	305743	308853.1
67617.07	72070.03	77598.87	83653.54	91061.4	92973.74	97797.56	108091.1	117165.8	122978.8	130279.3	137740.2
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
30223.59	28667.95	27166.04	25719.37	24328.84	22994.85	21717.35	20495.95	19329.94	18218.36	17160.04	16153.65
11173.21	11727.02	12058.08	12575.06	13731.75	14709.9	15876.24	16885.78	17638.38	17964.29	18903.97	19988.98
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
2290098	2350945	2413172	2476808	2541882	2608424	2676464	2746035	2817167	2889894	2964248	3040263
2050646	2100503	2160946	2212969	2267380	2251038	2151646	2190775	2221719	2250912	2293925	2363953
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
65575.33	69065	72713.41	76527.23	80513.39	84679.12	89031.9	93579.56	98330.19	103292.2	108474.5	113886
608022.9	691928	770496.5	835772.4	898734.3	1008969	1045205	1159438	1355527	1438372	1486736	1550551

2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
8185512	8449979	8722611	9003653	9293356	9591979	9899788	1021705	1054407	1088112	1122850	1158652
							9	3	1	2	3
4294504	4386537	4456734	4517299	4589238	4536234	4287890	4464956	4456991	4523675	4614147	4629616
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
1208141	1238841	1270222	1302297	1335082	1368591	1402839	1437840	1473611	1510168	1547526	1585701
180407.9	187631.8	192989.5	200964.5	211541	213224.9	195737	201743.1	207082.1	204128.4	202580	201300.4
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
2724240	2794577	2866583	2940296	3015754	3092997	3172065	3252999	3335840	3420632	3507419	3596246
773868.6	809419.7	840554.5	868839	913875.9	942108.9	964937.5	994067.7	1026035	1064162	1087110	1117472
2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
1707.475	1954.51	2237.147	2560.498	2930.409	3353.559	3837.587	4391.223	5024.444	5748.654	6576.886	7524.036
455.1808	475.3944	482.2225	513.6323	554.3117	617.1466	621.3656	640.0989	652.912	644.079	667.585	694.011

2015	2016	2017	2018
25863517	26921134	28021008	29164799
16902579	17162557	17596284	18140645

2015	2016	2017	2018	
4.97E+09	6.14E+09	7.6E+09	9.4E+09	
16710946	17255473	17575081	18151620	
2015	2016	2017	2018	
1518072	1553692	1589810	1626432	
3270706	2889037	2926999	2965401	
2015	2016	2017	2018	
6.64E+08	7.87E+08	9.33E+08	1.11E+09	
7259603	7767450	8275647	8835758	
2015	2016	2017	2018	
17896.41	19737.47	21765.99	24000.88	
342917.1	350065.7	363336.8	373682.6	
2015	2016	2017	2018	
8759.598	8481.289	8208.469	7941.309	
17862.47	18119.81	18372.04	18653.68	
2015	2016	2017	2018	
2854345	2924346	2995878	3068973	

241242.1	241653.9	245291	250035.8	
2015	2016	2017	2018	
314347.8	319815.9	325348.2	330945.5	
250204.4	260228.5	269531.6	278806.2	
2015	2016	2017	2018	
311920.1	314944.6	317926.9	320867.3	
146192.5	155624.1	163192.2	173505.9	
2015	2016	2017	2018	
15197.71	14290.66	13430.84	12616.56	
20572.94	21039.45	21881.03	22574.66	
2015	2016	2017	2018	
3117974	3197416	3278625	3361638	
2415783	2460057	2506604	2540210	
2015	2016	2017	2018	
119536.4	125435.4	131593.3	138020.8	
1621730	1649723	1637482	1677339	

2015	2016	2017	2018
11955503	12335766	12727648	13131495
4685428	4732217	4844015	4867010
2015	2016	2017	2018
1624712	1664574	1705305	1746923
201844	204639.6	211331.2	214535.7
2015	2016	2017	2018
3687157	3780200	3875422	3972873
1145387	1176481	1205343	1238560
2015	2016	2017	2018
8607.125	9845.605	11261.7	12880.82
689.606	706.7	653.399	667.8104