

country	year	prod	cons	gdp_pc	trade	energy
Australia	1990	16,315939	14,263723	31549,171	-12,577975	9130,308
Australia	1991	16,184761	14,118853	30857,391	-12,764534	9146,121
Australia	1992	16,293507	14,11306	31326,526	-13,382308	9242,691
Australia	1993	16,383764	14,031878	32250,828	-14,354975	9379,9375
Australia	1994	16,494705	14,365695	33501,363	-12,907236	9555,611
Australia	1995	16,941784	14,520001	34022,069	-14,294733	9733,071
Australia	1996	17,12545	14,703376	35030,911	-14,14313	9890,648
Australia	1997	17,396969	14,954649	36274,865	-14,038771	10264,905
Australia	1998	17,959467	15,831035	37585,99	-11,851311	10723,286
Australia	1999	18,269806	15,713442	38817,92	-13,992289	11004,771
Australia	2000	18,384481	15,258868	39528,378	-17,001368	10419,62
Australia	2001	18,554117	15,528007	40047,928	-16,309643	11000,02
Australia	2002	18,56355	16,30463	41238,692	-12,168585	11020,833
Australia	2003	18,746101	16,992603	41911,223	-9,353938	10844,711
Australia	2004	19,213036	17,291674	43162,733	-10,000307	11195,45
Australia	2005	19,143301	17,050724	43887,845	-10,931122	10693,182
Australia	2006	19,17153	17,40951	44384,755	-9,190818	10744,597
Australia	2007	19,184296	17,677109	45492,598	-7,856353	11018,283
Australia	2008	19,024633	17,124224	45707,276	-9,989207	10803,433
Australia	2009	18,792618	18,22424	45734,894	-3,0244763	10837,039
Australia	2010	18,39776	17,97907	46166,885	-2,275757	10610,303
Australia	2011	18,062717	17,635862	46743,742	-2,3631878	10774,687
Australia	2012	17,869068	17,680569	47659,176	-1,0548906	10267,817
Australia	2013	17,21578	16,465809	47903,479	-4,356303	9950,766
Australia	2014	16,785683	16,255693	48423,476	-3,1573887	10294,604
Australia	2015	16,867716	16,051287	48757,04	-4,8401914	9690,918
Australia	2016	16,997408	15,392174	49250,47	-9,4439945	10169,986
Australia	2017	16,850452	15,369246	49656,816	-8,790314	10162,936
Australia	2018	16,6652	14,629854	50246,123	-12,213144	10023,528
Australia	2019	16,419682	14,309601	50486,897	-12,850923	9853,624
Australia	2020	15,579326	13,811205	49192,227	-11,3491535	9774,425
Australia	2021	15,091471	13,9205	51349,487	-11,3491535	9531,233
Brazil	1990	1,4508868	1,6296413	10744,855	12,320361	1478,5042
Brazil	1991	1,4960175	1,6443161	10673,586	9,912894	1528,5101
Brazil	1992	1,4983952	1,6300105	10451,805	8,783744	1550,7423
Brazil	1993	1,5419381	1,6589597	10766,104	7,589256	1590,5184
Brazil	1994	1,5778434	1,7114308	11163,164	8,466447	1615,355
Brazil	1995	1,6431366	1,8214377	11476,904	10,851269	1685,4777
Brazil	1996	1,7424477	1,9391533	11395,935	11,289033	1754,299

Brazil	1997	1,821151	2,0311158	11600,775	11,529243	1827,2726
Brazil	1998	1,8554686	2,0404608	11461,361	9,970104	1881,133
Brazil	1999	1,886351	1,9164295	11342,661	1,5945339	1929,4105
Brazil	2000	1,934246	1,9832942	11669,354	2,5357833	1947,875
Brazil	2001	1,9424405	1,917957	11667,507	-1,2604543	1813,4032
Brazil	2002	1,926925	1,8320668	11869,496	-4,9227724	1885,5067
Brazil	2003	1,887129	1,7724762	11858,178	-6,075511	1965,1832
Brazil	2004	1,9566369	1,8200339	12393,264	-6,981524	2063,4788
Brazil	2005	1,950622	1,8712362	12643,123	-4,0697684	2118,4456
Brazil	2006	1,9535519	1,9031813	12998,511	-2,5784104	2181,5935
Brazil	2007	2,0472486	2,0633817	13643,385	0,78803605	2291,4941
Brazil	2008	2,1416569	2,3041441	14190,395	7,5869846	2359,9136
Brazil	2009	2,0038037	2,1289282	14027,782	6,244341	2357,9878
Brazil	2010	2,2422264	2,4768727	14936,012	10,464874	2601,3289
Brazil	2011	2,3340783	2,626112	15394,31	12,511738	2661,0957
Brazil	2012	2,4918227	2,7749548	15554,689	11,362447	2736,1047
Brazil	2013	2,639368	2,9365275	15886,782	11,258733	2793,4019
Brazil	2014	2,7420719	3,012217	15831,188	9,851865	2859,83
Brazil	2015	2,5798414	2,6739426	15137,895	3,647562	2785,5889
Brazil	2016	2,382041	2,3595889	14522,029	-0,9425605	2762,2603
Brazil	2017	2,3856156	2,392754	14596,871	0,29922518	2787,2715
Brazil	2018	2,2701142	2,2745872	14736,809	0,19704293	2826,9954
Brazil	2019	2,243357	2,2566519	14799,45	0,5926443	2921,1992
Brazil	2020	2,074642	1,9972205	14117,324	-3,7317948	2881,7102
Brazil	2021	2,281014	1,9972205	14710,218	-3,7317948	3091,4558
Italy	1990	7,7444763	9,988994	36952,018	28,982178	3755,513
Italy	1991	7,7312803	9,887094	37450,887	27,884296	3845,9717
Italy	1992	7,729908	10,771868	37702,445	39,353115	3912,6787
Italy	1993	7,589396	9,839956	37355,84	29,654009	3857,7827
Italy	1994	7,4853764	9,53229	38116,502	27,345505	4016,0803
Italy	1995	7,907623	9,890141	39137,711	25,070963	4166,2915
Italy	1996	7,8038206	9,3004875	39633,659	19,178644	4201,306
Italy	1997	7,9007072	9,382641	40336,213	18,756971	4318,0767
Italy	1998	8,113035	9,564389	41046,313	17,889172	4442,143
Italy	1999	8,190787	9,813859	41710,145	19,815813	4541,219
Italy	2000	8,259029	9,996309	43278,732	21,034918	4724,715
Italy	2001	8,256306	9,819621	44094,477	18,934805	4756,207
Italy	2002	8,37015	10,049619	44181,17	20,06498	4846,2925
Italy	2003	8,636659	10,268371	44093,032	18,892862	4969,5977
Italy	2004	8,668467	10,493425	44390,363	21,052841	5095,5166
Italy	2005	8,629837	10,590776	44420,037	22,722794	5081,1104

Italy	2006	8,503296	10,943792	45025,681	28,700596	5248,511
Italy	2007	8,346019	10,682088	45522,064	27,990223	5226,5728
Italy	2008	8,085689	10,4011545	44708,939	28,636587	5276,5566
Italy	2009	7,130191	9,479596	42049,402	32,950104	4828,1777
Italy	2010	7,290197	10,078085	42576,56	38,241604	4979,903
Italy	2011	7,0678806	9,685514	42693,058	37,03562	4993,507
Italy	2012	6,7070255	8,781643	41312,435	30,932009	4925,723
Italy	2013	6,1293945	8,145485	40436,059	32,89217	4759,7017
Italy	2014	5,792012	7,865764	40388,242	35,803658	4599,257
Italy	2015	5,9961104	7,5636864	40736,641	26,143211	4664,394
Italy	2016	5,9579296	7,351407	41353,93	23,388618	4777,2217
Italy	2017	5,878529	7,4423437	42111,532	26,602142	4888,5054
Italy	2018	5,828657	7,5338826	42592,863	29,255886	4799,638
Italy	2019	5,679641	7,26578	42892,596	27,926756	4877,952
Italy	2020	5,080263	6,5347557	39135,865	28,630257	4673,4004
Italy	2021	5,5483704	6,5347557	42044,619	28,630257	4834,3755
Canada	1990	16,567774	17,463978	34853,972	5,40932	17376,781
Canada	1991	16,06095	17,216078	33694,312	7,1921606	18096,773
Canada	1992	16,359688	17,475994	33593,093	6,8235154	18295,236
Canada	1993	16,196068	16,834457	34092,986	3,9416358	18495,502
Canada	1994	16,518518	16,825378	35245,657	1,857676	19083,236
Canada	1995	16,776932	16,919556	35820,459	0,8501197	19046,76
Canada	1996	17,149193	17,071121	36022,7	-0,45524788	19315,549
Canada	1997	17,462915	17,972843	37190,072	2,9200616	19152,902
Canada	1998	17,57017	17,939678	38310,301	2,103042	18643,05
Canada	1999	17,896967	17,817675	39965,605	-0,4430539	19005,852
Canada	2000	18,46901	18,908627	41650,361	2,3803048	19177,195
Canada	2001	18,023472	18,027384	41952,425	0,021704523	18461,9
Canada	2002	18,007908	18,601952	42752,974	3,2988002	18642,57
Canada	2003	18,384417	18,24811	43117,353	-0,7414266	18102,146
Canada	2004	18,162386	18,301275	44033,292	0,7647089	18250,69
Canada	2005	17,83757	18,903889	45016,847	5,9779396	18825,166
Canada	2006	17,473667	17,723745	45740,722	1,4311793	18216,908
Canada	2007	18,060602	18,261328	46234,5	1,111403	18652,59
Canada	2008	17,356522	17,592745	46205,531	1,3610029	18508,94
Canada	2009	16,192442	17,136614	44343,806	5,8309355	17715,408
Canada	2010	16,387062	17,907896	45206,134	9,280704	17130,787
Canada	2011	16,520855	17,555578	46165,98	6,2631392	17816,93
Canada	2012	16,379143	16,713634	46482,402	2,0421836	17648,8
Canada	2013	16,33066	16,548939	47063,78	1,3366144	18187,756
Canada	2014	16,095068	15,855965	47924,294	-1,4855659	17966,303

Canada	2015	16,072325	15,22686	47853,972	-5,260375	17881,67
Canada	2016	15,521199	14,502855	47831,314	-6,5609884	17857,018
Canada	2017	15,635478	14,518459	48688,106	-7,1441264	17636,754
Canada	2018	15,778724	14,383343	49352,626	-8,843435	17169,855
Canada	2019	15,5829935	14,057888	49560,844	-9,786984	16734,455
Canada	2020	14,11671	12,95036	46405,461	-8,262188	16471,4
Canada	2021	14,3004675	12,95036	48218,96	-8,262188	16405,445
South Korea	1990	5,6779375	7,257062	12669,888	27,811583	2684,9656
South Korea	1991	6,196994	7,6830735	13897,217	23,980656	2958,5032
South Korea	1992	6,7087374	8,837342	14606,087	31,728848	3275,7751
South Korea	1993	7,348163	8,983179	15452,843	22,25067	3603,1753
South Korea	1994	7,8753157	9,412948	16716,073	19,524702	4059,8328
South Korea	1995	8,452007	9,938135	18139,807	17,583134	4484,0527
South Korea	1996	9,221569	10,738061	19385,581	16,445059	4946,231
South Korea	1997	9,6816025	10,822609	20389,685	11,785307	5364,983
South Korea	1998	8,17406	7,7790565	19204,671	-4,832405	5128,564
South Korea	1999	8,824875	9,319485	21255,237	5,6047153	5635,2026
South Korea	2000	9,403589	10,307842	22988,114	9,616037	5824,497
South Korea	2001	9,680925	10,261054	23919,364	5,992489	6202,5146
South Korea	2002	10,060402	11,063839	25618,675	9,974122	6580,2124
South Korea	2003	10,206468	11,381194	26288,357	11,509631	6818,9272
South Korea	2004	10,295775	11,568901	27545,279	12,365512	7253,0835
South Korea	2005	10,413295	12,124153	28671,229	16,429554	7608,754
South Korea	2006	10,478356	12,629928	30022,486	20,533482	7901,044
South Korea	2007	10,819209	13,143325	31603,579	21,481386	8352,861
South Korea	2008	11,005492	13,187906	32309,525	19,830227	8672,766
South Korea	2009	11,068979	11,824771	32398,463	6,828017	8786,321
South Korea	2010	12,175828	13,329329	34431,149	9,473692	9786,115
South Korea	2011	12,679364	13,7227335	35426,695	8,228876	10175,945
South Korea	2012	12,651422	13,223813	36087,615	4,524324	10300,964
South Korea	2013	12,666729	13,121113	37060,592	3,5872254	10323,918
South Korea	2014	12,448394	13,327028	38007,942	7,0582113	10375,995
South Korea	2015	12,436215	13,097697	38870,121	5,319002	10289,366
South Korea	2016	12,432552	12,7831955	39857,09	2,8203623	10446,8955
South Korea	2017	12,70659	13,400921	41001,067	5,46434	10503,6455
South Korea	2018	12,968438	13,984789	42010,614	7,8371096	10880,684
South Korea	2019	12,472093	13,655898	42804,158	9,49163	10701,911
South Korea	2020	11,527396	12,720634	42441,947	10,351333	10636,384
South Korea	2021	11,886425	12,720634	44286,728	10,351333	11354,784
China	1990	2,1538057	2,011824	1409,165	-6,592143	538,4396
China	1991	2,226241	2,051064	1520,403	-7,8687434	578,7928

China	1992	2,306772	2,1771772	1717,489	-5,61802	636,874
China	1993	2,443147	2,3065276	1933,654	-5,5919375	678,6689
China	1994	2,567743	2,2763627	2161,272	-11,34773	768,5001
China	1995	2,7565773	2,4563484	2373,174	-10,891356	826,69183
China	1996	2,8521018	2,5417502	2581,59	-10,881511	880,33136
China	1997	2,8358095	2,468247	2792,097	-12,961465	917,3927
China	1998	2,6951861	2,3717072	2984,049	-12,002099	935,969
China	1999	2,829973	2,522735	3187,053	-10,856562	987,1493
China	2000	2,8830526	2,5759516	3430,959	-10,651939	1072,3843
China	2001	2,92576	2,6342316	3690,639	-9,964201	1163,4666
China	2002	3,2105358	2,8557465	4001,128	-11,050782	1291,2533
China	2003	3,7454772	3,1555004	4375,732	-15,751711	1482,3644
China	2004	4,0281363	3,3323631	4790,101	-17,272833	1699,0142
China	2005	4,5034957	3,6132236	5304,324	-19,768469	1916,0731
China	2006	4,941642	3,908266	5947,033	-20,91159	2182,4302
China	2007	5,280773	4,1968794	6759,277	-20,525284	2483,1685
China	2008	5,6360073	4,488403	7370,108	-20,362013	2628,0605
China	2009	5,889315	5,0217624	8027,091	-14,730957	2773,9294
China	2010	6,3912683	5,444733	8836,395	-14,809815	3105,872
China	2011	7,0212865	5,9984584	9621,154	-14,567529	3456,905
China	2012	7,156126	6,2230935	10299,393	-13,038233	3634,8618
China	2013	7,235162	6,3457317	11034,449	-12,293162	3930,411
China	2014	7,218232	6,370863	11770,838	-11,73929	4164,2744
China	2015	7,079569	6,3680625	12535,035	-10,0501375	4152,784
China	2016	6,965584	6,3292365	13306,594	-9,135588	4344,8286
China	2017	7,0986867	6,4882283	14151,786	-8,599595	4650,338
China	2018	7,306542	6,7933064	15050,183	-7,024324	5024,8774
China	2019	7,5541654	7,0043044	15893,004	-7,278907	5247,6816
China	2020	7,6889496	7,041331	16226,099	-8,422723	5428,5273
China	2021	8,04574	7,041331	17531,136	-8,422723	5949,9673
France	1990	6,973989	8,731838	34898,353	25,20579	7395,472
France	1991	7,385745	8,906308	35064,36	20,587812	7972,782
France	1992	7,1512375	9,582179	35416,307	33,99329	8089,8213
France	1993	6,802012	8,835357	35058,47	29,893284	8231,89
France	1994	6,6732216	8,592659	35755,448	28,763275	8292,845
France	1995	6,726915	8,720812	36435,694	29,640577	8554,458
France	1996	6,96548	8,713947	36824,604	25,101906	8836,027
France	1997	6,8110213	8,429442	37554,24	23,76179	8661,2295
France	1998	7,121762	8,74393	38790,758	22,777628	8733,592
France	1999	7,063711	8,739405	39927,299	23,722574	8932,481
France	2000	6,934727	8,802583	41304,775	26,934818	9095,642

France	2001	6,974761	8,756404	41843,446	25,544146	9212,1
France	2002	6,8683066	8,603629	42014,977	25,265657	9299,211
France	2003	6,9068575	8,716033	42075,98	26,193903	9374,457
France	2004	6,883891	9,014732	42875,756	30,954014	9436,113
France	2005	6,877628	9,105045	43285,669	32,386414	9417,604
France	2006	6,6721606	9,0367775	44107,433	35,44005	9323,833
France	2007	6,4677076	8,982373	44886,785	38,88032	9167,059
France	2008	6,3313546	8,831246	44692,426	39,484314	9192,171
France	2009	5,975608	8,124049	43217,952	35,953518	8522,82
France	2010	6,0316763	8,0654545	43802,26	33,718304	9013,274
France	2011	5,6487603	7,982111	44565,42	41,30731	9038,591
France	2012	5,6588645	7,6181455	44516,212	34,62322	8991,078
France	2013	5,662309	7,3795176	44563,467	30,327003	9101,577
France	2014	5,1441264	6,8634176	44774,739	33,422413	8903,97
France	2015	5,196383	6,6428127	45056,999	27,835321	8994,234
France	2016	5,226494	6,74667	45381,276	29,085968	8730,363
France	2017	5,2609296	6,6883574	46369,701	27,132624	8669,232
France	2018	5,0177007	6,655166	47065,659	32,63378	8958,457
France	2019	4,9128566	6,451103	47766,04	31,310638	8784,505
France	2020	4,342917	5,82082	43865,116	34,03018	8176,9473
France	2021	4,7413116	5,82082	46716,372	34,03018	8528,864
Germany	1990	13,254084	15,016723	37168,149	13,298842	6889,4883
Germany	1991	12,704247	14,304148	38530,68	12,593433	6714,4946
Germany	1992	12,038421	15,013348	39013,341	24,711939	6653,6978
Germany	1993	11,862709	14,365218	38419,375	21,095594	6484,638
Germany	1994	11,615575	13,985097	39243,507	20,399532	6493,5244
Germany	1995	11,570214	14,024795	39769,395	21,214643	6567,9062
Germany	1996	11,7920065	13,792063	40015,882	16,961115	6773,483
Germany	1997	11,430682	13,213906	40708,374	15,60033	6729,3257
Germany	1998	11,319463	13,229395	41563,467	16,872993	6775,6416
Germany	1999	10,978242	13,339717	42360,045	21,510504	6774,896
Germany	2000	11,027999	13,276516	43571,703	20,38917	7017,6357
Germany	2001	11,239027	13,260297	44273,705	17,984385	7138,479
Germany	2002	11,04386	12,61845	44151,731	14,257606	7145,5737
Germany	2003	11,071457	13,125658	43857,235	18,554022	7407,051
Germany	2004	10,910218	12,937435	44427,028	18,580906	7509,5977
Germany	2005	10,667155	12,92138	44815,222	21,132397	7553,1777
Germany	2006	10,815008	12,847875	46617,825	18,796719	7758,4004
Germany	2007	10,485129	12,836312	48115,246	22,423983	7788,6196
Germany	2008	10,521234	12,814981	48714,444	21,801126	7796,35
Germany	2009	9,720574	11,997946	46100,069	23,428358	7247,5444

Germany	2010	10,237197	12,598794	48148,084	23,068789	7680,779
Germany	2011	9,934633	12,080902	50038,553	21,603899	7432,3853
Germany	2012	9,978385	11,26619	50157,852	12,905946	7607,8936
Germany	2013	10,176317	11,367278	50237,478	11,703261	7727,05
Germany	2014	9,678314	11,07061	51137,331	14,385728	7573,4043
Germany	2015	9,6932535	10,88889	51450,805	12,334735	7804,8594
Germany	2016	9,720951	11,07099	52175,097	13,887924	7809,532
Germany	2017	9,50829	10,887465	53373,918	14,504967	7818,6377
Germany	2018	9,100585	10,6732645	53737,272	17,28108	7632,6323
Germany	2019	8,504699	10,136722	54181,281	19,189657	7209,902
Germany	2020	7,672972	9,2343855	52138,096	20,34952	6807,475
Germany	2021	8,08974	9,2343855	53484,024	20,34952	6980,578
India	1990	0,66401875	0,6608514	1663,596	-0,4769911	330,59003
India	1991	0,692245	0,6711661	1647,231	-3,0450065	360,4934
India	1992	0,7221973	0,7122037	1703,08	-1,38378	371,4885
India	1993	0,7311479	0,70351976	1749,172	-3,778732	390,97073
India	1994	0,75774616	0,7245047	1829,743	-4,386886	410,43332
India	1995	0,78965646	0,7460731	1930,928	-5,5192776	442,97214
India	1996	0,8392318	0,7817688	2037,72	-6,8470936	450,74127
India	1997	0,85693395	0,80206245	2080,978	-6,4032407	468,06052
India	1998	0,8585494	0,80307645	2169,395	-6,4612446	494,47946
India	1999	0,9139364	0,8680128	2310,886	-5,0248113	526,0571
India	2000	0,92305845	0,85465384	2360,633	-7,410649	539,2336
India	2001	0,91914594	0,8463197	2434,893	-7,9232526	543,19354
India	2002	0,9306775	0,84511536	2487,647	-9,193527	555,0694
India	2003	0,9474771	0,87798804	2641,282	-7,3341146	571,0769
India	2004	0,9896619	0,9112559	2802,952	-7,922506	614,5752
India	2005	1,0262314	0,9489077	3015,188	-7,534721	610,16486
India	2006	1,0735854	0,98240006	3243,987	-8,493534	634,9767
India	2007	1,1405921	1,0665008	3508,589	-6,495871	669,29944
India	2008	1,2111346	1,1276596	3592,097	-6,8923044	686,48883
India	2009	1,3169036	1,2469307	3842,121	-5,31344	718,9287
India	2010	1,3513434	1,2716058	4179,502	-5,900608	755,65027
India	2011	1,414156	1,3058882	4399,886	-7,656	822,18713
India	2012	1,539909	1,428358	4583,166	-7,244002	856,68964
India	2013	1,5780071	1,4062512	4818,508	-10,884358	887,7016
India	2014	1,6732446	1,5241907	5116,627	-8,908081	965,4033
India	2015	1,7165496	1,6070377	5464,393	-6,379769	999,31464
India	2016	1,7807794	1,6501642	5851,393	-7,3347187	1047,0581
India	2017	1,7980177	1,6903577	6182,921	-5,987707	1086,3718
India	2018	1,8995181	1,7762579	6514,001	-6,4890275	1153,3793

India	2019	1,8989491	1,7840296	6689,367	-6,0517426	1172,6527
India	2020	1,7509557	1,6305512	6186,613	-6,8765035	1119,1095
India	2021	1,9250876	1,6305512	6659,007	-6,8765035	1217,529
Indonesia	1990	0,7948848	0,76668143	4366,436	-3,548106	181,7893
Indonesia	1991	0,9433742	0,86957663	4678,693	-7,8227296	205,55879
Indonesia	1992	1,0575962	0,984626	4902,565	-6,899631	213,64389
Indonesia	1993	1,1218932	1,0183588	5206,264	-9,228531	207,09291
Indonesia	1994	1,1199955	1,0253361	5507,477	-8,451761	235,6167
Indonesia	1995	1,1224122	1,0370321	5862,968	-7,6068354	273,14267
Indonesia	1996	1,2501339	1,1392938	6249,157	-8,866257	292,3308
Indonesia	1997	1,3557001	1,2044523	6468,155	-11,1564455	345,46112
Indonesia	1998	1,0222263	0,6679051	5554,937	-34,661716	368,9713
Indonesia	1999	1,138328	0,9868577	5534,957	-13,306381	397,97253
Indonesia	2000	1,2919137	1,1017592	5744,179	-14,718827	457,92917
Indonesia	2001	1,3971627	1,1780226	5869,758	-15,684644	488,9172
Indonesia	2002	1,4120718	1,258333	6047,621	-10,887463	513,5041
Indonesia	2003	1,5260952	1,4236811	6247,622	-6,7108526	526,22345
Indonesia	2004	1,5242802	1,4310815	6469,668	-6,1142764	552,2297
Indonesia	2005	1,5252659	1,4373349	6741,814	-5,7649636	580,75616
Indonesia	2006	1,4957266	1,4224746	7012,67	-4,8974166	595,26117
Indonesia	2007	1,6531469	1,5747461	7352,768	-4,742513	631,8278
Indonesia	2008	1,539458	1,5559375	7788,867	1,0704776	655,1746
Indonesia	2009	1,6680022	1,6480801	8040,417	-1,1943715	675,7371
Indonesia	2010	1,850474	1,8451427	8432,942	-0,28810558	727,4517
Indonesia	2011	2,0429008	2,0477993	8792,318	0,23977804	776,48816
Indonesia	2012	2,06198	2,1501288	9192,039	4,2749596	835,01624
Indonesia	2013	1,9309183	2,0259945	9570,556	4,9238853	888,99097
Indonesia	2014	1,9041111	1,9917151	9916,343	4,6007752	926,9806
Indonesia	2015	2,0809183	2,105436	10260,61	1,1782118	938,93304
Indonesia	2016	2,1105638	2,1386266	10655,77	1,3296306	983,5777
Indonesia	2017	2,14464	2,16339	11073,521	0,87427384	1004,95715
Indonesia	2018	2,260322	2,2958434	11522,78	1,57152	1062,6179
Indonesia	2019	2,4461334	2,4785686	11976,45	1,3259724	1095,8782
Indonesia	2020	2,2430317	2,2961504	11586,234	2,3681588	1073,4281
Indonesia	2021	2,2621746	2,2961504	11923,685	2,3681588	1129,0828
Iran	1990	3,7628624	3,627438	8931,796	-3,598968	1033,3617
Iran	1991	3,8253236	3,681442	9656,484	-3,761286	1083,17
Iran	1992	3,8222535	3,695041	9717,458	-3,3282075	1131,4758
Iran	1993	3,9428532	3,5738094	9697,161	-9,359814	1249,8612
Iran	1994	4,39805	3,9122274	9414,671	-11,046312	1350,3872
Iran	1995	4,4671903	4,114597	9373,408	-7,8929653	1387,5033

Iran	1996	4,4853425	4,2903166	9812,1	-4,348066	1456,8566
Iran	1997	4,2740626	4,267131	9595,968	-0,1621835	1552,2115
Iran	1998	4,814003	4,856788	9616,597	0,88876235	1613,3423
Iran	1999	5,8860474	5,1210833	9486,044	-12,996226	1707,4591
Iran	2000	5,6320558	4,483434	9968,999	-20,39436	1820,9037
Iran	2001	5,920553	4,797832	9882,843	-18,963114	1913,6149
Iran	2002	5,9059186	4,5338154	10731,98	-23,232677	2053,11
Iran	2003	6,087358	5,36362	11545,332	-11,889199	2231,6335
Iran	2004	6,4017963	5,6079044	11868,455	-12,401083	2356,734
Iran	2005	6,5993915	5,637753	12062,598	-14,571622	2522,9905
Iran	2006	7,0661244	6,0850224	12466,993	-13,884584	2713,8254
Iran	2007	7,0888224	6,784171	13319,359	-4,2976265	2808,6506
Iran	2008	7,292085	7,0357304	13186,477	-3,5155263	2870,9028
Iran	2009	7,5215907	7,1371813	13150,05	-5,1107454	2984,4185
Iran	2010	7,5592775	6,5014663	13732,191	-13,99355	3126,8132
Iran	2011	7,562403	6,4293947	13909,384	-14,982125	3085,9424
Iran	2012	7,60904	7,0416718	12723,495	-7,456501	3216,9644
Iran	2013	7,6212144	6,464204	12549,603	-15,181449	3299,3057
Iran	2014	7,9122066	6,8371453	14909,895	-13,5873785	3447,0264
Iran	2015	7,721905	7,2674475	14516,847	-5,885308	3426,3003
Iran	2016	7,608397	6,6379776	15601,647	-12,754584	3434,6772
Iran	2017	8,11077	7,023392	15805,787	-13,406592	3611,2625
Iran	2018	8,186843	6,9446874	15323,612	-15,172584	3648,2004
Iran	2019	8,120656	7,2455716	14675,905	-10,776029	3683,8552
Iran	2020	8,362657	7,543183	14990,882	-9,799205	3863,2063
Iran	2021	8,517396	7,543183	15549,763	-9,799205	4069,9048
Japan	1990	9,36344	10,653232	32908,174	13,774764	7126,9
Japan	1991	9,428065	10,770959	33898,237	14,243582	7344,835
Japan	1992	9,47814	11,4399	34065,149	20,697737	7367,0234
Japan	1993	9,396468	11,181535	33779,342	18,997208	7421,912
Japan	1994	9,810748	11,734203	33980,729	19,605587	7868,4365
Japan	1995	9,884957	11,958007	34785,809	20,971764	8059,061
Japan	1996	9,9617	11,876456	35797,502	19,221172	8191,267
Japan	1997	9,879865	11,651935	36062,768	17,936178	8370,077
Japan	1998	9,542121	10,8635435	35509,475	13,848311	8389,49
Japan	1999	9,812611	11,551422	35324,258	17,720175	8527,055
Japan	2000	9,972839	12,198596	36230,926	22,31818	7794,7153
Japan	2001	9,8373375	11,889635	36284,71	20,86233	7635,1816
Japan	2002	10,049841	11,793858	36223,56	17,353676	7749,776
Japan	2003	10,099358	11,968007	36712,198	18,502651	7654,3687
Japan	2004	10,049845	12,023214	37485,392	19,635824	7869,0366

Japan	2005	10,098716	12,080474	38156,339	19,623869	7943,4497
Japan	2006	9,910887	11,875333	38681,719	19,821087	8071,638
Japan	2007	10,182005	11,935599	39252,312	17,22248	8386,376
Japan	2008	9,62292	11,751825	38791,512	22,123283	7853,9863
Japan	2009	9,0805645	10,909085	36623,675	20,136633	7627,3228
Japan	2010	9,484828	11,317061	38111,411	19,317513	8447,495
Japan	2011	9,8825245	11,949874	38049,959	20,919237	8179,0674
Japan	2012	10,2162285	12,417858	38657,441	21,550316	8185,9194
Japan	2013	10,303727	12,021387	39500,441	16,670275	8065,4663
Japan	2014	9,9187765	11,35284	39683,837	14,458069	8069,786
Japan	2015	9,615686	10,699212	40348,241	11,268314	7896,2876
Japan	2016	9,479893	10,50297	40657,973	10,792073	7913,532
Japan	2017	9,382093	10,34995	41408,954	10,315999	7965,9746
Japan	2018	9,056306	10,140316	41757,908	11,969667	8015,944
Japan	2019	8,792438	9,933143	41699,176	12,973705	7888,121
Japan	2020	8,321498	9,478567	39890,783	13,90458	7697,967
Japan	2021	8,56574	9,478567	40662,244	13,90458	7692,084
Mexico	1990	3,8795977	3,9273155	14864,308	1,2299681	1438,9493
Mexico	1991	3,9607296	4,0587034	15205,52	2,4736297	1542,516
Mexico	1992	3,9153757	4,070049	15462,019	3,950399	1556,3096
Mexico	1993	3,9015958	4,0631924	15610,228	4,1418037	1553,8943
Mexico	1994	3,9804165	4,1218395	16107,463	3,5529716	1654,6287
Mexico	1995	3,685653	3,5838215	14850,678	-2,7629137	1671,1906
Mexico	1996	3,775293	3,7259371	15609,959	-1,3073438	1709,7589
Mexico	1997	3,956134	4,068989	16427,697	2,8526537	1789,4711
Mexico	1998	4,098006	4,2597346	17025,02	3,9465306	1910,5654
Mexico	1999	4,053742	4,258679	17248,744	5,0555	1972,0658
Mexico	2000	4,046719	4,516351	17862,551	11,605255	1983,3774
Mexico	2001	4,1320076	4,527222	17555,728	9,564705	2023,9594
Mexico	2002	4,0822396	4,4902983	17308,623	9,995953	2028,7943
Mexico	2003	4,2737513	4,4217668	17320,651	3,4633675	1977,3629
Mexico	2004	4,221976	4,525628	17761,165	7,1921935	2122,0671
Mexico	2005	4,400442	4,6559606	17930,841	5,8066573	2194,2786
Mexico	2006	4,4585977	4,7110195	18477,005	5,661459	2215,3345
Mexico	2007	4,4300427	4,6157093	18624,141	4,191075	2252,2002
Mexico	2008	4,494525	4,7223816	18553,794	5,0696516	2252,7341
Mexico	2009	4,2855067	4,4862046	17308,159	4,683179	2210,277
Mexico	2010	4,121324	4,453339	17929,569	8,056025	2349,6345
Mexico	2011	4,2414613	4,7162867	18325,537	11,194852	2455,005
Mexico	2012	4,332987	4,7405906	18738,297	9,40699	2459,9175
Mexico	2013	4,2244205	4,752003	18748,605	12,488873	2449,2996

Mexico	2014	4,076545	4,6221375	19044,55	13,383705	2443,584
Mexico	2015	3,9910128	4,4915586	19442,916	12,5418215	2479,2363
Mexico	2016	3,9482622	4,354288	19732,024	10,283657	2493,5972
Mexico	2017	3,7904897	4,2049108	19933,504	10,933185	2516,6226
Mexico	2018	3,8323855	4,2426333	20162,003	10,704763	2677,2812
Mexico	2019	3,7749555	4,130123	19923,177	9,408522	2542,9043
Mexico	2020	3,1088214	3,4316645	18143,802	10,384738	2583,527
Mexico	2021	3,2138007	3,4316645	18837,563	10,384738	2659,324
Russia	1990	17,126806	13,794909	21433,195	-19,454285	7311,8804
Russia	1991	16,203733	13,999881	20296,615	-13,600896	7195,1797
Russia	1992	13,216354	5,2366757	17320,611	-60,377304	6780,608
Russia	1993	12,531723	7,485521	15801,679	-40,26742	6424,476
Russia	1994	11,065991	7,9099026	13796,632	-28,52062	5885,367
Russia	1995	10,897812	7,871611	13241,944	-27,768885	5789,1875
Russia	1996	10,700508	8,465579	12782,707	-20,886194	5715,196
Russia	1997	10,015	7,9672627	12986,209	-20,446703	5638,307
Russia	1998	9,917492	7,150222	12311,123	-27,902918	5601,292
Russia	1999	10,134327	6,8614244	13150,907	-32,29521	5743,4893
Russia	2000	10,066303	6,781502	14529,964	-32,631653	5675,854
Russia	2001	10,358041	7,6043386	15338,276	-26,585161	5766,2456
Russia	2002	10,340811	7,6801577	16141,885	-25,729637	5816,877
Russia	2003	10,59212	8,006207	17403,778	-24,413553	5993,7197
Russia	2004	10,680394	8,198897	18721,771	-23,234133	6139,2974
Russia	2005	10,842018	8,3172035	19993,878	-23,287317	6271,278
Russia	2006	11,289669	8,639575	21680,716	-23,473623	6574,7783
Russia	2007	11,309478	9,151279	23550,149	-19,083092	6714,195
Russia	2008	11,5103	9,315643	24787,879	-19,066889	6883,596
Russia	2009	10,752071	8,957042	22833,742	-16,694729	6567,8687
Russia	2010	11,352681	9,47317	23856,88	-16,555662	6864,858
Russia	2011	11,713346	9,903425	25032,038	-15,451779	6971,1797
Russia	2012	11,798259	10,214987	25986,483	-13,419543	7064,9204
Russia	2013	11,341706	9,916256	26383,753	-12,568216	6977,0903
Russia	2014	11,3086	9,642815	26105,56	-14,730257	6989,6353
Russia	2015	11,265164	9,107773	25542,032	-19,151001	6988,811
Russia	2016	11,196788	9,368515	25546,351	-16,328545	7126,5664
Russia	2017	11,372466	9,583283	25999,323	-15,732583	7130,436
Russia	2018	11,674742	9,3166	26747,205	-20,198668	7192,403
Russia	2019	11,612027	9,468638	27341,101	-18,45835	7297,676
Russia	2020	11,154039	9,340569	26718,039	-16,258425	7175,726
Russia	2021	12,09865	9,340569	28104,876	-16,258425	7652,232
Poland	1990	9,899408	8,468872	11366,51	-14,450723	3531,9229

Poland	1991	9,794603	8,829851	10542,632	-9,849836	3477,3142
Poland	1992	9,535346	9,08444	10728,933	-4,728787	3416,528
Poland	1993	9,536919	8,799133	11155,454	-7,736099	3438,998
Poland	1994	9,394602	8,443662	11715,517	-10,122197	3473,3127
Poland	1995	9,449833	8,366654	12503,812	-11,462407	3568,8267
Poland	1996	9,8323965	8,573455	13274,028	-12,804013	3676,6882
Poland	1997	9,571921	8,393393	14203,667	-12,312357	3670,6833
Poland	1998	8,842245	7,7322054	14903,284	-12,553817	3667,7966
Poland	1999	8,592173	8,063958	15574,724	-6,147617	3649,8547
Poland	2000	8,251497	7,7958503	16409,483	-5,521988	3718,5327
Poland	2001	8,117609	7,6462674	16611,322	-5,806412	3717,2627
Poland	2002	7,933514	7,3769016	16856,279	-7,015968	3686,9163
Poland	2003	8,275798	7,381552	17456,785	-10,805555	3884,102
Poland	2004	8,405946	7,5455475	18340,023	-10,235592	3944,9644
Poland	2005	8,383716	7,5136747	18991,5	-10,377749	4019,3477
Poland	2006	8,7507715	8,242415	20164,752	-5,809277	4162,4316
Poland	2007	8,741307	8,45317	21606,568	-3,2962716	4114,805
Poland	2008	8,57893	8,5618515	22519,846	-0,19907704	4014,2375
Poland	2009	8,218549	8,0643425	23145,379	-1,8763214	3918,788
Poland	2010	8,6772	8,56295	24082,507	-1,3166726	4067,6362
Poland	2011	8,656909	8,451238	25201,85	-2,3757958	4220,777
Poland	2012	8,458965	8,423585	25535,031	-0,41825712	4184,5015
Poland	2013	8,357247	8,069423	25826,059	-3,4440162	4245,5645
Poland	2014	8,043131	7,8005	26729,985	-3,0166214	4105,0356
Poland	2015	8,130483	8,039241	27871,319	-1,1222204	4260,0933
Poland	2016	8,418466	7,9698105	28776,045	-5,3294134	4310,431
Poland	2017	8,764865	8,288775	30161,551	-5,4318004	4410,0073
Poland	2018	8,749628	8,536161	31773,19	-2,4397202	4399,885
Poland	2019	8,273783	8,045942	33284,21	-2,7537644	4235,509
Poland	2020	7,8984118	7,4706326	32391,246	-5,416013	4089,1665
Poland	2021	8,577376	7,4706326	34154,247	-5,416013	4666,683
Saudi Arabia	1990	13,02718	12,099707	44244,709	-7,1195273	4991,041
Saudi Arabia	1991	17,325603	15,7720785	48459,669	-8,966643	5103,5347
Saudi Arabia	1992	18,295715	16,625803	47415,744	-9,127339	5408,9043
Saudi Arabia	1993	19,087381	17,577583	45879,723	-7,9099293	5752,8755
Saudi Arabia	1994	17,865171	16,497288	45030,639	-7,656706	5773,5566
Saudi	1995	13,892902	12,998864	44044,864	-6,43522	5819,727

Arabia						
Saudi Arabia	1996	13,306084	12,504361	44123,381	-6,0252357	5778,749
Saudi Arabia	1997	10,823722	10,308724	43541,528	-4,758048	5973,6284
Saudi Arabia	1998	10,122812	10,633352	43727,857	5,0434575	6162,765
Saudi Arabia	1999	10,756266	8,890874	41073,95	-17,342379	6235,1963
Saudi Arabia	2000	13,75404	9,518428	42345,027	-30,795408	6436,0435
Saudi Arabia	2001	13,428822	9,880876	40830,013	-26,420378	6614,6177
Saudi Arabia	2002	14,396499	10,255411	38728,21	-28,764547	6847,3315
Saudi Arabia	2003	14,103893	13,043868	42047,391	-7,5158324	7195,416
Saudi Arabia	2004	16,676027	14,909147	44299,507	-10,595333	7328,6895
Saudi Arabia	2005	16,225117	14,379398	45233,738	-11,375688	7830,672
Saudi Arabia	2006	16,991459	15,549956	44967,852	-8,483683	7733,9556
Saudi Arabia	2007	14,640386	14,008824	44293,841	-4,3138266	7743,541
Saudi Arabia	2008	15,757219	15,153372	45518,613	-3,8322012	7442,409
Saudi Arabia	2009	16,35471	16,524351	43120,098	1,0372634	7629,249
Saudi Arabia	2010	17,602243	17,547812	43809,968	-0,30923522	8161,9937
Saudi Arabia	2011	16,505583	16,504793	46809,069	-0,0047775684	8294,266
Saudi Arabia	2012	18,390554	17,800718	47957,06	-3,2072744	8815,584
Saudi Arabia	2013	17,297338	17,06774	47940,569	-1,3273662	9022,79
Saudi Arabia	2014	19,076452	18,990238	49125,685	-0,45193776	9707,531
Saudi Arabia	2015	20,728325	21,378126	49953,776	3,1348484	10332,571
Saudi Arabia	2016	19,237926	19,407516	49629,15	0,8815409	10097,774
Saudi Arabia	2017	18,823627	18,507671	48014,585	-1,6785073	10363,78
Saudi	2018	17,881912	17,182863	48042,079	-3,9092574	9562,475

Arabia						
Saudi Arabia	2019	18,323465	17,760344	47069,144	-3,0732274	9362,955
Saudi Arabia	2020	18,367947	18,277689	44096,745	-0,49138817	9390,477
Saudi Arabia	2021	18,70299	18,277689	44954,011	-0,49138817	9919,779
Thailande	1990	1,5699399	2,151179	7010,146	37,023018	798,72864
Thailande	1991	1,6948719	2,1514697	7509,654	26,939962	893,4137
Thailande	1992	1,8428266	2,7164187	8120,697	47,40501	1001,56537
Thailande	1993	2,1041024	2,658527	8745,552	26,349699	1096,2552
Thailande	1994	2,2855778	2,6957002	9358,708	17,943935	1213,1448
Thailande	1995	2,6256237	2,9184341	10017,934	11,15203	1341,8164
Thailande	1996	2,9000762	3,0427687	10467,455	4,920306	1444,7773
Thailande	1997	2,9867165	2,8522837	10059,377	-4,5010276	1519,3087
Thailande	1998	2,6198468	2,1193469	9180,02	-19,10417	1450,0397
Thailande	1999	2,7269847	2,389563	9489,818	-12,373434	1444,7703
Thailande	2000	2,7471056	2,444941	9809,622	-10,999381	1419,6102
Thailande	2001	2,9274585	2,5994973	10053,815	-11,202929	1504,0088
Thailande	2002	3,0696185	2,8143392	10583,76	-8,316318	1581,6869
Thailande	2003	3,1762323	2,883996	11260,158	-9,200721	1682,2339
Thailande	2004	3,375	3,1271865	11886,325	-7,3426237	1792,8021
Thailande	2005	3,4534998	3,3023596	12304,402	-4,376437	1868,6942
Thailande	2006	3,4852574	3,2689703	12837,878	-6,205774	1948,5964
Thailande	2007	3,542298	3,2961738	13460,061	-6,94815	1980,0455
Thailande	2008	3,463452	3,3894355	13620,532	-2,1370695	2025,5989
Thailande	2009	3,6403062	3,4574392	13458,527	-5,0234027	2022,8964
Thailande	2010	3,8345406	3,814076	14399,045	-0,5336879	2201,5369
Thailande	2011	3,7689989	3,807016	14450,479	1,0086824	2141,3755
Thailande	2012	4,003597	3,9025111	15424,544	-2,5248713	2272,3647
Thailande	2013	4,1731873	4,05995	15767,361	-2,7134445	2308,4683
Thailande	2014	4,0877085	3,731775	15854,132	-8,707402	2329,014
Thailande	2015	4,117252	3,7115192	16285,387	-9,854453	2371,8813
Thailande	2016	4,08616	3,6400425	16782,099	-10,917776	2517,5962
Thailande	2017	4,133732	3,7207317	17422,952	-9,9909725	2564,2397
Thailande	2018	3,966176	3,7792535	18095,737	-4,7129164	2560,1802
Thailande	2019	4,070233	3,868974	18453,47	-4,944655	2673,0608
Thailande	2020	3,8805997	3,8430374	17284,701	-0,96795434	2507,8467
Thailande	2021	3,889545	3,8430374	17412,956	-0,96795434	2610,0156
Turkey	1990	2,7918441	3,9700465	12332,081	42,201584	1059,1976
Turkey	1991	2,8585935	3,8682709	12237,752	35,32078	1088,9141

Turkey	1992	2,9139516	4,4379344	12758,208	52,299526	1196,2267
Turkey	1993	2,986835	4,0411515	13563,634	35,298775	1288,2223
Turkey	1994	2,87361	3,606949	12622,216	25,519789	1343,3318
Turkey	1995	3,0601184	3,7760453	13321,679	23,3954	1454,3341
Turkey	1996	3,3101714	3,4870646	14040,151	5,3439326	1573,2965
Turkey	1997	3,4602861	3,6595652	14873,721	5,759037	1685,776
Turkey	1998	3,407173	3,6407006	15117,162	6,8540034	1783,838
Turkey	1999	3,2896373	3,6144962	14416,151	9,875221	1842,8243
Turkey	2000	3,5851738	3,933014	15198,583	9,702183	1939,2157
Turkey	2001	3,2807262	3,104505	14133,897	-5,37141	1877,7657
Turkey	2002	3,3513062	3,365441	14864,246	0,42176962	1946,0918
Turkey	2003	3,5395958	3,6676087	15537,13	3,6166	2086,5198
Turkey	2004	3,6097727	4,0905294	16852,71	13,318197	2209,0408
Turkey	2005	3,8537183	4,4079795	18141,34	14,3825035	2351,3672
Turkey	2006	4,0554786	4,7006044	19159,887	15,90752	2531,1296
Turkey	2007	4,449882	5,1561074	19882,136	15,870647	2716,235
Turkey	2008	4,3540263	4,910339	19783,247	12,776977	2780,538
Turkey	2009	4,379598	4,4937625	18558,16	2,6067228	2696,1335
Turkey	2010	4,3177123	4,8098726	19804,918	11,398633	2883,5164
Turkey	2011	4,608933	5,2034307	21728,07	12,898816	3091,1162
Turkey	2012	4,7276134	5,288716	22496,657	11,868623	3179,97
Turkey	2013	4,5334325	5,054351	24074,301	11,490599	3132,4387
Turkey	2014	4,6582603	5,1158442	24929,24	9,823062	3221,2693
Turkey	2015	4,825473	5,181285	26095,081	7,373621	3280,6345
Turkey	2016	5,002561	5,1753407	26599,436	3,453822	3378,0798
Turkey	2017	5,240849	5,3868737	28242,491	2,786278	3611,0442
Turkey	2018	5,102916	5,155689	28660,967	1,0341774	3669,3943
Turkey	2019	4,8120704	4,738198	28485,734	-1,5351439	3627,0232
Turkey	2020	4,9139	4,7794228	28878,96	-2,7366712	3630,0999
Turkey	2021	5,263368	4,7794228	31752,912	-2,7366712	3907,7368
Ukraine	1990	13,681577	9,703509	14495,738	-29,076092	5788,3516
Ukraine	1991	12,241189	8,813905	14495,738	-27,997965	5389,1006
Ukraine	1992	11,375081	8,487364	13019,819	-25,386343	4872,4395
Ukraine	1993	9,853518	7,187042	11204,486	-27,061153	4436,4043
Ukraine	1994	8,14309	5,29961	8708,542	-34,918938	3937,47
Ukraine	1995	7,6352324	4,263806	7710,171	-44,156174	3795,832
Ukraine	1996	6,942628	5,6506057	7004,428	-18,609985	3611,499
Ukraine	1997	6,7818847	5,491249	6852,282	-19,030628	3544,3953
Ukraine	1998	6,605106	4,883518	6780,253	-26,064497	3470,64
Ukraine	1999	6,045774	4,802996	6825,907	-20,556137	3486,2043
Ukraine	2000	5,837221	4,5234585	7295,688	-22,506649	3503,9048

Ukraine	2001	6,270054	5,2839036	8007,261	-15,7279415	3569,3823
Ukraine	2002	6,1628866	5,2076054	8505,308	-15,500554	3617,8103
Ukraine	2003	6,448788	4,959919	9388,106	-23,087585	3785,2654
Ukraine	2004	6,5649123	4,771788	10572,024	-27,313755	3851,3003
Ukraine	2005	6,6734047	5,326753	10981,664	-20,17938	3962,9
Ukraine	2006	7,1387615	5,6940336	11888,365	-20,237797	4147,2295
Ukraine	2007	7,262556	6,314632	12939,345	-13,052214	4235,0903
Ukraine	2008	7,0672045	6,4926715	13289,867	-8,129563	4180,802
Ukraine	2009	6,0460796	5,4599786	11327,655	-9,693906	3785,5496
Ukraine	2010	6,438073	5,43304	11839,776	-15,610778	4133,264
Ukraine	2011	6,765866	5,8955164	12526,09	-12,863825	4283,0967
Ukraine	2012	6,694593	6,008929	12576,492	-10,242064	4368,564
Ukraine	2013	6,5608077	6,0296693	12611,945	-8,095629	4275,489
Ukraine	2014	5,7036943	4,9916587	12467,834	-12,483757	4030,7366
Ukraine	2015	4,975796	4,1544433	11292,085	-16,506962	3593,392
Ukraine	2016	5,219492	4,018695	11612,979	-23,006014	3632,5461
Ukraine	2017	4,995539	4,0654225	11942,821	-18,618946	3457,8926
Ukraine	2018	5,2123866	4,8000846	12428,081	-7,910043	3559,974
Ukraine	2019	5,022646	4,6984425	12902,796	-6,454834	3452,979
Ukraine	2020	4,7128844	4,332448	12517,375	-8,072262	3376,4775
Ukraine	2021	4,6370573	4,332448	13039,972	-8,072262	3577,1863
United Kingdom	1990	10,521594	11,696713	30580,227	11,168636	5554,231
United Kingdom	1991	10,624451	11,793274	30137,065	11,00126	5602,215
United Kingdom	1992	10,326097	12,046045	30181,211	16,656334	5552,8467
United Kingdom	1993	10,054433	11,407504	30863,734	13,457464	5579,951
United Kingdom	1994	9,933512	11,245523	31968,785	13,20794	5624,555
United Kingdom	1995	9,773094	11,14485	32685,975	14,036042	5739,3047
United Kingdom	1996	10,102876	11,606233	33420,299	14,880485	6014,61
United Kingdom	1997	9,660194	11,551663	34992,839	19,58003	5994,658
United Kingdom	1998	9,728953	11,925702	36190,375	22,579502	6178,8223
United Kingdom	1999	9,57871	11,647475	37249,759	21,597534	6229,193
United Kingdom	2000	9,669214	12,686361	38423,582	31,203642	6361,593

United Kingdom	2001	9,780857	12,32091	39321,071	25,969645	6470,7554
United Kingdom	2002	9,439251	12,419777	40006,576	31,575876	6479,5815
United Kingdom	2003	9,5829115	12,57402	41147,712	31,21295	6629,6953
United Kingdom	2004	9,557823	12,704535	41868,718	32,92289	6521,9507
United Kingdom	2005	9,4452305	12,444709	42775,866	31,756529	6548,4517
United Kingdom	2006	9,338998	12,432338	43629,179	33,122826	6470,6587
United Kingdom	2007	9,134187	12,3116045	44300,728	34,786003	6414,8813
United Kingdom	2008	8,825938	11,702072	43816,395	32,587284	6233,019
United Kingdom	2009	7,938317	10,136984	41718,922	27,696892	5993,89
United Kingdom	2010	8,156536	10,83794	42245,61	32,874302	6037,44
United Kingdom	2011	7,422031	9,710438	42429,609	30,83262	5768,384
United Kingdom	2012	7,6396565	10,005735	42752,763	30,97101	5655,8096
United Kingdom	2013	7,4275928	9,648185	43414,134	29,896526	5526,708
United Kingdom	2014	6,774484	9,237608	44317,526	36,358845	5175,11
United Kingdom	2015	6,4770393	9,061222	45208,371	39,89759	5141,33
United Kingdom	2016	6,0837545	8,765312	45852,767	44,077354	5121,909
United Kingdom	2017	5,8634415	8,297335	46553,491	41,50963	5072,2925
United Kingdom	2018	5,7159815	8,064993	47039,985	41,09551	4974,9375
United Kingdom	2019	5,4621234	7,699153	47567,992	40,955307	4816,6587
United Kingdom	2020	4,8652816	6,929181	42975,525	42,420975	4583,5435
United Kingdom	2021	5,1540995	6,929181	45988,558	42,420975	4565,3276
United States	1990	20,648254	20,347502	40382,199	-1,4565499	13031,002
United States	1991	20,134295	19,72527	39806,051	-2,0314877	13001,756

United States	1992	20,281036	20,175217	40664,921	-0,52177256	12871,11
United States	1993	20,381666	20,126003	41242,867	-1,2543817	13156,663
United States	1994	20,457945	20,2478	42386,511	-1,0272007	13186,712
United States	1995	20,43133	20,21765	43012,381	-1,0458469	13428,155
United States	1996	20,880138	20,590729	44118,005	-1,3860499	13619,328
United States	1997	20,895596	20,717155	45532,569	-0,8539593	13643,318
United States	1998	20,799135	21,054504	47021,525	1,2277906	13978,677
United States	1999	20,812017	21,440773	48716,083	3,021121	14098,702
United States	2000	21,304466	22,11325	50145,354	3,796315	13463,596
United States	2001	20,70963	21,609846	50105,605	4,346847	13057,637
United States	2002	20,643988	21,833733	50459,399	5,763151	13331,809
United States	2003	20,665068	22,287737	51386,126	7,85223	13290,311
United States	2004	20,813087	22,531967	52882,73	8,258649	13444,391
United States	2005	20,676287	22,669197	54220,91	9,638635	13593,026
United States	2006	20,207176	22,407478	55204,977	10,888722	13500,912
United States	2007	20,265636	21,971756	55760,348	8,418789	13683,437
United States	2008	19,362011	20,698753	55312,798	6,903936	13436,697
United States	2009	17,772331	18,750208	53409,242	5,5022435	12770,394
United States	2010	18,257408	19,188433	54437,45	5,099442	13220,33
United States	2011	17,671368	18,551445	54890,026	4,980246	13026,999
United States	2012	16,881199	17,862911	55744,766	5,815414	12760,629
United States	2013	17,161404	17,98237	56382,986	4,783794	12698,577
United States	2014	17,168596	18,141993	57258,643	5,669627	12719,186

United States	2015	16,563307	17,852444	58 385,72	7,783087	12581,307
United States	2016	16,050102	17,309807	58937,871	7,8485656	12492,153
United States	2017	15,800776	17,087513	59885,714	8,14351	12287,501
United States	2018	16,187923	17,476597	61305,187	7,960712	12649,936
United States	2019	15,730885	17,027067	62417,549	8,239732	12438,334
United States	2020	14,037217	15,471115	59803,375	10,214972	12035,351
United States	2021	14,858668		63014,33	10,214972	12321,215
Vietnam	1990	0,31830537	0,34809786	2041,063	9,359713	129,73637
Vietnam	1991	0,31269604	0,33929774	2120,262	8,507203	134,73024
Vietnam	1992	0,30759197	0,33330432	2264,059	8,359236	139,06253
Vietnam	1993	0,32107553	0,35390574	2404,986	10,2250805	149,79681
Vietnam	1994	0,3609444	0,39344686	2573,825	9,004839	169,4871
Vietnam	1995	0,3890597	0,42297724	2773,524	8,717825	198,5924
Vietnam	1996	0,456412	0,50140184	2984,436	9,857296	226,0814
Vietnam	1997	0,5852969	0,59809273	3177,756	2,1862097	251,5429
Vietnam	1998	0,6066694	0,6103849	3309,752	0,6124366	281,19336
Vietnam	1999	0,60019976	0,5563794	3416,117	-7,3009686	301,56018
Vietnam	2000	0,6658252	0,46927088	3599,173	-29,520407	336,19766
Vietnam	2001	0,747378	0,5286639	3795,973	-29,264189	383,49857
Vietnam	2002	0,8494232	0,59637356	4011,636	-29,79077	443,9357
Vietnam	2003	0,9333775	0,7378255	4265,994	-20,95101	502,35767
Vietnam	2004	1,0659959	0,8345104	4556,153	-21,715427	561,2843
Vietnam	2005	1,1389403	0,8832318	4855,02	-22,451443	626,3975
Vietnam	2006	1,1747901	0,8983464	5145,627	-23,531324	689,6815
Vietnam	2007	1,1840411	0,9247434	5460,725	-21,899385	756,94055
Vietnam	2008	1,323955	1,0364654	5714,783	-21,714458	828,8819
Vietnam	2009	1,4273672	1,0960053	5964,555	-23,214903	932,4385
Vietnam	2010	1,5854424	1,160719	6284,506	-26,78895	1049,2957
Vietnam	2011	1,7116977	1,20533	6695,705	-29,582771	1148,9647
Vietnam	2012	1,6166952	1,158777	6988,794	-28,324337	1289,4546
Vietnam	2013	1,6785437	1,1957507	7298,825	-28,76261	1378,7872
Vietnam	2014	2,0148401	1,3951073	7684,58	-30,758419	1548,1912
Vietnam	2015	2,3617034	1,6153966	8133,268	-31,60036	1713,2834
Vietnam	2016	2,4278777	1,6444806	8585,476	-32,26674	1887,2174
Vietnam	2017	2,4782856	1,6028664	9085,612	-35,32358	2037,5815

Vietnam	2018	2,8891642	1,8197008	9637,216	-37,016357	2203,9875
Vietnam	2019	3,560416	2,1990716	10131,714	-38,23554	2374,4812
Vietnam	2020	3,403044	2,1079402	10331,659	-38,057213	2435,6255
Vietnam	2021	3,344827	2,1079402	10622,408	-38,057213	2511,2852

country	year	prod	cons	gdp_pc	trade	energy	policy
Australia	1990	16,315939	14,263723	31549,171	-12,577975	9130,308	0,17
Australia	1991	16,184761	14,118853	30857,391	-12,764534	9146,121	0,17
Australia	1992	16,293507	14,11306	31326,526	-13,382308	9242,691	0,17
Australia	1993	16,383764	14,031878	32250,828	-14,354975	9379,9375	0,17
Australia	1994	16,494705	14,365695	33501,363	-12,907236	9555,611	0,17
Australia	1995	16,941784	14,520001	34022,069	-14,294733	9733,071	0,17
Australia	1996	17,12545	14,703376	35030,911	-14,14313	9890,648	0,17
Australia	1997	17,396969	14,954649	36274,865	-14,038771	10264,905	0,17
Australia	1998	17,959467	15,831035	37585,99	-11,851311	10723,286	0,50
Australia	1999	18,269806	15,713442	38817,92	-13,992289	11004,771	0,50
Australia	2000	18,384481	15,258868	39528,378	-17,001368	10419,62	0,83
Australia	2001	18,554117	15,528007	40047,928	-16,309643	11000,02	0,89
Australia	2002	18,56355	16,30463	41238,692	-12,168585	11020,833	1,14
Australia	2003	18,746101	16,992603	41911,223	-9,353938	10844,711	1,14
Australia	2004	19,213036	17,291674	43162,733	-10,000307	11195,45	1,47
Australia	2005	19,143301	17,050724	43887,845	-10,931122	10693,182	1,81
Australia	2006	19,17153	17,40951	44384,755	-9,190818	10744,597	2,22
Australia	2007	19,184296	17,677109	45492,598	-7,856353	11018,283	2,22
Australia	2008	19,024633	17,124224	45707,276	-9,989207	10803,433	2,36
Australia	2009	18,792618	18,22424	45734,894	-3,0244763	10837,039	2,53
Australia	2010	18,39776	17,97907	46166,885	-2,275757	10610,303	2,83
Australia	2011	18,062717	17,635862	46743,742	-2,3631878	10774,687	3,00
Australia	2012	17,869068	17,680569	47659,176	-1,0548906	10267,817	3,42
Australia	2013	17,21578	16,465809	47903,479	-4,356303	9950,766	3,53
Australia	2014	16,785683	16,255693	48423,476	-3,1573887	10294,604	2,69
Australia	2015	16,867716	16,051287	48757,04	-4,8401914	9690,918	2,69
Australia	2016	16,997408	15,392174	49250,47	-9,4439945	10169,986	2,69
Australia	2017	16,850452	15,369246	49656,816	-8,790314	10162,936	2,75
Australia	2018	16,6652	14,629854	50246,123	-12,213144	10023,528	2,86
Australia	2019	16,419682	14,309601	50486,897	-12,850923	9853,624	2,86
Australia	2020	15,579326	13,811205	49192,227	-11,3491535	9774,425	2,92
Australia	2021	15,091471	13,9205	51349,487		9531,233	
Brazil	1990	1,4508868	1,6296413	10744,855	12,320361	1478,5042	0,17

Brazil	1991	1,4960175	1,6443161	10673,586	9,912894	1528,5101	0,17
Brazil	1992	1,4983952	1,6300105	10451,805	8,783744	1550,7423	0,17
Brazil	1993	1,5419381	1,6589597	10766,104	7,589256	1590,5184	0,17
Brazil	1994	1,5778434	1,7114308	11163,164	8,466447	1615,355	0,17
Brazil	1995	1,6431366	1,8214377	11476,904	10,851269	1685,4777	0,22
Brazil	1996	1,7424477	1,9391533	11395,935	11,289033	1754,299	0,22
Brazil	1997	1,821151	2,0311158	11600,775	11,529243	1827,2726	0,22
Brazil	1998	1,8554686	2,0404608	11461,361	9,970104	1881,133	0,22
Brazil	1999	1,886351	1,9164295	11342,661	1,5945339	1929,4105	0,22
Brazil	2000	1,934246	1,9832942	11669,354	2,5357833	1947,875	0,22
Brazil	2001	1,9424405	1,917957	11667,507	-1,2604543	1813,4032	0,28
Brazil	2002	1,926925	1,8320668	11869,496	-4,9227724	1885,5067	0,83
Brazil	2003	1,887129	1,7724762	11858,178	-6,075511	1965,1832	0,75
Brazil	2004	1,9566369	1,8200339	12393,264	-6,981524	2063,4788	0,56
Brazil	2005	1,950622	1,8712362	12643,123	-4,0697684	2118,4456	0,56
Brazil	2006	1,9535519	1,9031813	12998,511	-2,5784104	2181,5935	0,56
Brazil	2007	2,0472486	2,0633817	13643,385	0,78803605	2291,4941	0,22
Brazil	2008	2,1416569	2,3041441	14190,395	7,5869846	2359,9136	0,22
Brazil	2009	2,0038037	2,1289282	14027,782	6,244341	2357,9878	0,22
Brazil	2010	2,2422264	2,4768727	14936,012	10,464874	2601,3289	0,22
Brazil	2011	2,3340783	2,626112	15394,31	12,511738	2661,0957	0,17
Brazil	2012	2,4918227	2,7749548	15554,689	11,362447	2736,1047	0,25
Brazil	2013	2,639368	2,9365275	15886,782	11,258733	2793,4019	0,58
Brazil	2014	2,7420719	3,012217	15831,188	9,851865	2859,83	0,58
Brazil	2015	2,5798414	2,6739426	15137,895	3,647562	2785,5889	0,64
Brazil	2016	2,382041	2,3595889	14522,029	-0,9425605	2762,2603	0,89
Brazil	2017	2,3856156	2,392754	14596,871	0,29922518	2787,2715	0,89
Brazil	2018	2,2701142	2,2745872	14736,809	0,19704293	2826,9954	0,89
Brazil	2019	2,243357	2,2566519	14799,45	0,5926443	2921,1992	0,89
Brazil	2020	2,074642	1,9972205	14117,324	-3,7317948	2881,7102	0,89
Brazil	2021	2,281014	1,9972205	14710,218		3091,4558	
Italy	1990	7,7444763	9,988994	36952,018	28,982178	3755,513	1,61
Italy	1991	7,7312803	9,887094	37450,887	27,884296	3845,9717	1,50
Italy	1992	7,729908	10,771868	37702,445	39,353115	3912,6787	1,58
Italy	1993	7,589396	9,839956	37355,84	29,654009	3857,7827	1,33
Italy	1994	7,4853764	9,53229	38116,502	27,345505	4016,0803	1,33
Italy	1995	7,907623	9,890141	39137,711	25,070963	4166,2915	1,42
Italy	1996	7,8038206	9,3004875	39633,659	19,178644	4201,306	1,42
Italy	1997	7,9007072	9,382641	40336,213	18,756971	4318,0767	1,33
Italy	1998	8,113035	9,564389	41046,313	17,889172	4442,143	1,58
Italy	1999	8,190787	9,813859	41710,145	19,815813	4541,219	1,50

Italy	2000	8,259029	9,996309	43278,732	21,034918	4724,715	1,78
Italy	2001	8,256306	9,819621	44094,477	18,934805	4756,207	1,78
Italy	2002	8,37015	10,049619	44181,17	20,06498	4846,2925	1,92
Italy	2003	8,636659	10,268371	44093,032	18,892862	4969,5977	1,92
Italy	2004	8,668467	10,493425	44390,363	21,052841	5095,5166	1,97
Italy	2005	8,629837	10,590776	44420,037	22,722794	5081,1104	2,22
Italy	2006	8,503296	10,943792	45025,681	28,700596	5248,511	3,14
Italy	2007	8,346019	10,682088	45522,064	27,990223	5226,5728	2,97
Italy	2008	8,085689	10,4011545	44708,939	28,636587	5276,5566	3,08
Italy	2009	7,130191	9,479596	42049,402	32,950104	4828,1777	3,28
Italy	2010	7,290197	10,078085	42576,56	38,241604	4979,903	3,47
Italy	2011	7,0678806	9,685514	42693,058	37,03562	4993,507	3,50
Italy	2012	6,7070255	8,781643	41312,435	30,932009	4925,723	3,58
Italy	2013	6,1293945	8,145485	40436,059	32,89217	4759,7017	3,67
Italy	2014	5,792012	7,865764	40388,242	35,803658	4599,257	4,00
Italy	2015	5,9961104	7,5636864	40736,641	26,143211	4664,394	4,06
Italy	2016	5,9579296	7,351407	41353,93	23,388618	4777,2217	4,06
Italy	2017	5,878529	7,4423437	42111,532	26,602142	4888,5054	4,06
Italy	2018	5,828657	7,5338826	42592,863	29,255886	4799,638	3,78
Italy	2019	5,679641	7,26578	42892,596	27,926756	4877,952	3,75
Italy	2020	5,080263	6,5347557	39135,865	28,630257	4673,4004	3,72
Italy	2021	5,5483704	6,5347557	42044,619		4834,3755	
Canada	1990	16,567774	17,463978	34853,972	5,40932	17376,781	0,67
Canada	1991	16,06095	17,216078	33694,312	7,1921606	18096,773	0,67
Canada	1992	16,359688	17,475994	33593,093	6,8235154	18295,236	0,67
Canada	1993	16,196068	16,834457	34092,986	3,9416358	18495,502	0,72
Canada	1994	16,518518	16,825378	35245,657	1,857676	19083,236	0,72
Canada	1995	16,776932	16,919556	35820,459	0,8501197	19046,76	0,72
Canada	1996	17,149193	17,071121	36022,7	-0,45524788	19315,549	0,50
Canada	1997	17,462915	17,972843	37190,072	2,9200616	19152,902	0,83
Canada	1998	17,57017	17,939678	38310,301	2,103042	18643,05	0,83
Canada	1999	17,896967	17,817675	39965,605	-0,4430539	19005,852	0,83
Canada	2000	18,46901	18,908627	41650,361	2,3803048	19177,195	0,72
Canada	2001	18,023472	18,027384	41952,425	0,021704523	18461,9	0,72
Canada	2002	18,007908	18,601952	42752,974	3,2988002	18642,57	0,72
Canada	2003	18,384417	18,24811	43117,353	-0,7414266	18102,146	1,89
Canada	2004	18,162386	18,301275	44033,292	0,7647089	18250,69	1,89
Canada	2005	17,83757	18,903889	45016,847	5,9779396	18825,166	2,06
Canada	2006	17,473667	17,723745	45740,722	1,4311793	18216,908	2,47
Canada	2007	18,060602	18,261328	46234,5	1,111403	18652,59	2,86
Canada	2008	17,356522	17,592745	46205,531	1,3610029	18508,94	2,94

Canada	2009	16,192442	17,136614	44343,806	5,8309355	17715,408	3,19
Canada	2010	16,387062	17,907896	45206,134	9,280704	17130,787	3,61
Canada	2011	16,520855	17,555578	46165,98	6,2631392	17816,93	3,61
Canada	2012	16,379143	16,713634	46482,402	2,0421836	17648,8	3,44
Canada	2013	16,33066	16,548939	47063,78	1,3366144	18187,756	3,44
Canada	2014	16,095068	15,855965	47924,294	-1,4855659	17966,303	3,19
Canada	2015	16,072325	15,22686	47853,972	-5,260375	17881,67	2,53
Canada	2016	15,521199	14,502855	47831,314	-6,5609884	17857,018	2,36
Canada	2017	15,635478	14,518459	48688,106	-7,1441264	17636,754	2,58
Canada	2018	15,778724	14,383343	49352,626	-8,843435	17169,855	2,69
Canada	2019	15,5829935	14,057888	49560,844	-9,786984	16734,455	2,64
Canada	2020	14,11671	12,95036	46405,461	-8,262188	16471,4	3,03
Canada	2021	14,3004675	12,95036	48218,96		16405,445	
South Korea	1990	5,6779375	7,257062	12669,888	27,811583	2684,9656	0,08
South Korea	1991	6,196994	7,6830735	13897,217	23,980656	2958,5032	0,33
South Korea	1992	6,7087374	8,837342	14606,087	31,728848	3275,7751	0,33
South Korea	1993	7,348163	8,983179	15452,843	22,25067	3603,1753	0,33
South Korea	1994	7,8753157	9,412948	16716,073	19,524702	4059,8328	0,33
South Korea	1995	8,452007	9,938135	18139,807	17,583134	4484,0527	0,33
South Korea	1996	9,221569	10,738061	19385,581	16,445059	4946,231	0,75
South Korea	1997	9,6816025	10,822609	20389,685	11,785307	5364,983	0,75
South Korea	1998	8,17406	7,7790565	19204,671	-4,832405	5128,564	0,75
South Korea	1999	8,824875	9,319485	21255,237	5,6047153	5635,2026	0,83
South Korea	2000	9,403589	10,307842	22988,114	9,616037	5824,497	0,89
South Korea	2001	9,680925	10,261054	23919,364	5,992489	6202,5146	0,89
South Korea	2002	10,060402	11,063839	25618,675	9,974122	6580,2124	1,39
South Korea	2003	10,206468	11,381194	26288,357	11,509631	6818,9272	1,81
South Korea	2004	10,295775	11,568901	27545,279	12,365512	7253,0835	2,22
South	2005	10,413295	12,124153	28671,229	16,429554	7608,754	3,14

Korea							
South Korea	2006	10,478356	12,629928	30022,486	20,533482	7901,044	3,31
South Korea	2007	10,819209	13,143325	31603,579	21,481386	8352,861	3,31
South Korea	2008	11,005492	13,187906	32309,525	19,830227	8672,766	3,14
South Korea	2009	11,068979	11,824771	32398,463	6,828017	8786,321	3,31
South Korea	2010	12,175828	13,329329	34431,149	9,473692	9786,115	3,39
South Korea	2011	12,679364	13,7227335	35426,695	8,228876	10175,945	3,61
South Korea	2012	12,651422	13,223813	36087,615	4,524324	10300,964	3,00
South Korea	2013	12,666729	13,121113	37060,592	3,5872254	10323,918	3,00
South Korea	2014	12,448394	13,327028	38007,942	7,0582113	10375,995	2,83
South Korea	2015	12,436215	13,097697	38870,121	5,319002	10289,366	2,94
South Korea	2016	12,432552	12,7831955	39857,09	2,8203623	10446,8955	3,00
South Korea	2017	12,70659	13,400921	41001,067	5,46434	10503,6455	3,00
South Korea	2018	12,968438	13,984789	42010,614	7,8371096	10880,684	3,11
South Korea	2019	12,472093	13,655898	42804,158	9,49163	10701,911	3,17
South Korea	2020	11,527396	12,720634	42441,947	10,351333	10636,384	3,17
South Korea	2021	11,886425	12,720634	44286,728		11354,784	
China	1990	2,1538057	2,011824	1409,165	-6,592143	538,4396	0,00
China	1991	2,226241	2,051064	1520,403	-7,8687434	578,7928	0,00
China	1992	2,306772	2,1771772	1717,489	-5,61802	636,874	0,06
China	1993	2,443147	2,3065276	1933,654	-5,5919375	678,6689	0,06
China	1994	2,567743	2,2763627	2161,272	-11,34773	768,5001	0,06
China	1995	2,7565773	2,4563484	2373,174	-10,891356	826,69183	0,06
China	1996	2,8521018	2,5417502	2581,59	-10,881511	880,33136	0,06
China	1997	2,8358095	2,468247	2792,097	-12,961465	917,3927	0,22
China	1998	2,6951861	2,3717072	2984,049	-12,002099	935,969	0,22
China	1999	2,829973	2,522735	3187,053	-10,856562	987,1493	0,22
China	2000	2,8830526	2,5759516	3430,959	-10,651939	1072,3843	0,22

China	2001	2,92576	2,6342316	3690,639	-9,964201	1163,4666	0,22
China	2002	3,2105358	2,8557465	4001,128	-11,050782	1291,2533	0,31
China	2003	3,7454772	3,1555004	4375,732	-15,751711	1482,3644	0,36
China	2004	4,0281363	3,3323631	4790,101	-17,272833	1699,0142	0,69
China	2005	4,5034957	3,6132236	5304,324	-19,768469	1916,0731	0,69
China	2006	4,941642	3,908266	5947,033	-20,91159	2182,4302	0,69
China	2007	5,280773	4,1968794	6759,277	-20,525284	2483,1685	0,69
China	2008	5,6360073	4,488403	7370,108	-20,362013	2628,0605	0,81
China	2009	5,889315	5,0217624	8027,091	-14,730957	2773,9294	0,97
China	2010	6,3912683	5,444733	8836,395	-14,809815	3105,872	1,31
China	2011	7,0212865	5,9984584	9621,154	-14,567529	3456,905	1,47
China	2012	7,156126	6,2230935	10299,393	-13,038233	3634,8618	2,47
China	2013	7,235162	6,3457317	11034,449	-12,293162	3930,411	2,53
China	2014	7,218232	6,370863	11770,838	-11,73929	4164,2744	2,75
China	2015	7,079569	6,3680625	12535,035	-10,0501375	4152,784	2,89
China	2016	6,965584	6,3292365	13306,594	-9,135588	4344,8286	2,78
China	2017	7,0986867	6,4882283	14151,786	-8,599595	4650,338	2,83
China	2018	7,306542	6,7933064	15050,183	-7,024324	5024,8774	2,86
China	2019	7,5541654	7,0043044	15893,004	-7,278907	5247,6816	2,94
China	2020	7,6889496	7,041331	16226,099	-8,422723	5428,5273	3,14
China	2021	8,04574	7,041331	17531,136		5949,9673	
France	1990	6,973989	8,731838	34898,353	25,20579	7395,472	1,44
France	1991	7,385745	8,906308	35064,36	20,587812	7972,782	1,33
France	1992	7,1512375	9,582179	35416,307	33,99329	8089,8213	1,33
France	1993	6,802012	8,835357	35058,47	29,893284	8231,89	1,33
France	1994	6,6732216	8,592659	35755,448	28,763275	8292,845	1,39
France	1995	6,726915	8,720812	36435,694	29,640577	8554,458	1,39
France	1996	6,96548	8,713947	36824,604	25,101906	8836,027	1,47
France	1997	6,8110213	8,429442	37554,24	23,76179	8661,2295	1,47
France	1998	7,121762	8,74393	38790,758	22,777628	8733,592	1,47
France	1999	7,063711	8,739405	39927,299	23,722574	8932,481	1,64
France	2000	6,934727	8,802583	41304,775	26,934818	9095,642	1,75
France	2001	6,974761	8,756404	41843,446	25,544146	9212,1	1,67
France	2002	6,8683066	8,603629	42014,977	25,265657	9299,211	2,00
France	2003	6,9068575	8,716033	42075,98	26,193903	9374,457	2,08
France	2004	6,883891	9,014732	42875,756	30,954014	9436,113	2,83
France	2005	6,877628	9,105045	43285,669	32,386414	9417,604	2,86
France	2006	6,6721606	9,0367775	44107,433	35,44005	9323,833	3,08
France	2007	6,4677076	8,982373	44886,785	38,88032	9167,059	3,25
France	2008	6,3313546	8,831246	44692,426	39,484314	9192,171	3,42
France	2009	5,975608	8,124049	43217,952	35,953518	8522,82	3,69

France	2010	6,0316763	8,0654545	43802,26	33,718304	9013,274	3,61
France	2011	5,6487603	7,982111	44565,42	41,30731	9038,591	3,94
France	2012	5,6588645	7,6181455	44516,212	34,62322	8991,078	3,92
France	2013	5,662309	7,3795176	44563,467	30,327003	9101,577	3,92
France	2014	5,1441264	6,8634176	44774,739	33,422413	8903,97	4,22
France	2015	5,196383	6,6428127	45056,999	27,835321	8994,234	4,03
France	2016	5,226494	6,74667	45381,276	29,085968	8730,363	3,92
France	2017	5,2609296	6,6883574	46369,701	27,132624	8669,232	4,17
France	2018	5,0177007	6,655166	47065,659	32,63378	8958,457	4,56
France	2019	4,9128566	6,451103	47766,04	31,310638	8784,505	4,72
France	2020	4,342917	5,82082	43865,116	34,03018	8176,9473	4,89
France	2021	4,7413116	5,82082	46716,372		8528,864	
Germany	1990	13,254084	15,016723	37168,149	13,298842	6889,4883	1,44
Germany	1991	12,704247	14,304148	38530,68	12,593433	6714,4946	1,69
Germany	1992	12,038421	15,013348	39013,341	24,711939	6653,6978	1,61
Germany	1993	11,862709	14,365218	38419,375	21,095594	6484,638	1,61
Germany	1994	11,615575	13,985097	39243,507	20,399532	6493,5244	1,67
Germany	1995	11,570214	14,024795	39769,395	21,214643	6567,9062	1,50
Germany	1996	11,7920065	13,792063	40015,882	16,961115	6773,483	1,69
Germany	1997	11,430682	13,213906	40708,374	15,60033	6729,3257	1,44
Germany	1998	11,319463	13,229395	41563,467	16,872993	6775,6416	1,58
Germany	1999	10,978242	13,339717	42360,045	21,510504	6774,896	1,50
Germany	2000	11,027999	13,276516	43571,703	20,38917	7017,6357	1,78
Germany	2001	11,239027	13,260297	44273,705	17,984385	7138,479	1,78
Germany	2002	11,04386	12,61845	44151,731	14,257606	7145,5737	2,42
Germany	2003	11,071457	13,125658	43857,235	18,554022	7407,051	2,67
Germany	2004	10,910218	12,937435	44427,028	18,580906	7509,5977	2,78
Germany	2005	10,667155	12,92138	44815,222	21,132397	7553,1777	2,89
Germany	2006	10,815008	12,847875	46617,825	18,796719	7758,4004	2,94
Germany	2007	10,485129	12,836312	48115,246	22,423983	7788,6196	2,78
Germany	2008	10,521234	12,814981	48714,444	21,801126	7796,35	3,03
Germany	2009	9,720574	11,997946	46100,069	23,428358	7247,5444	3,14
Germany	2010	10,237197	12,598794	48148,084	23,068789	7680,779	3,08
Germany	2011	9,934633	12,080902	50038,553	21,603899	7432,3853	3,17
Germany	2012	9,978385	11,26619	50157,852	12,905946	7607,8936	3,06
Germany	2013	10,176317	11,367278	50237,478	11,703261	7727,05	3,22
Germany	2014	9,678314	11,07061	51137,331	14,385728	7573,4043	3,11
Germany	2015	9,6932535	10,88889	51450,805	12,334735	7804,8594	3,03
Germany	2016	9,720951	11,07099	52175,097	13,887924	7809,532	3,08
Germany	2017	9,50829	10,887465	53373,918	14,504967	7818,6377	3,03
Germany	2018	9,100585	10,6732645	53737,272	17,28108	7632,6323	3,25

Germany	2019	8,504699	10,136722	54181,281	19,189657	7209,902	3,31
Germany	2020	7,672972	9,2343855	52138,096	20,34952	6807,475	3,47
Germany	2021	8,08974	9,2343855	53484,024		6980,578	
India	1990	0,66401875	0,6608514	1663,596	-0,4769911	330,59003	0,64
India	1991	0,692245	0,6711661	1647,231	-3,0450065	360,4934	0,64
India	1992	0,7221973	0,7122037	1703,08	-1,38378	371,4885	0,69
India	1993	0,7311479	0,70351976	1749,172	-3,778732	390,97073	0,69
India	1994	0,75774616	0,7245047	1829,743	-4,386886	410,43332	0,69
India	1995	0,78965646	0,7460731	1930,928	-5,5192776	442,97214	0,78
India	1996	0,8392318	0,7817688	2037,72	-6,8470936	450,74127	0,78
India	1997	0,85693395	0,80206245	2080,978	-6,4032407	468,06052	0,86
India	1998	0,8585494	0,80307645	2169,395	-6,4612446	494,47946	0,86
India	1999	0,9139364	0,8680128	2310,886	-5,0248113	526,0571	0,86
India	2000	0,92305845	0,85465384	2360,633	-7,410649	539,2336	0,92
India	2001	0,91914594	0,8463197	2434,893	-7,9232526	543,19354	0,92
India	2002	0,9306775	0,84511536	2487,647	-9,193527	555,0694	1,06
India	2003	0,9474771	0,87798804	2641,282	-7,3341146	571,0769	1,31
India	2004	0,9896619	0,9112559	2802,952	-7,922506	614,5752	1,31
India	2005	1,0262314	0,9489077	3015,188	-7,534721	610,16486	1,56
India	2006	1,0735854	0,98240006	3243,987	-8,493534	634,9767	1,56
India	2007	1,1405921	1,0665008	3508,589	-6,495871	669,29944	1,50
India	2008	1,2111346	1,1276596	3592,097	-6,8923044	686,48883	1,50
India	2009	1,3169036	1,2469307	3842,121	-5,31344	718,9287	1,58
India	2010	1,3513434	1,2716058	4179,502	-5,900608	755,65027	1,69
India	2011	1,414156	1,3058882	4399,886	-7,656	822,18713	1,78
India	2012	1,539909	1,428358	4583,166	-7,244002	856,68964	1,86
India	2013	1,5780071	1,4062512	4818,508	-10,884358	887,7016	1,78
India	2014	1,6732446	1,5241907	5116,627	-8,908081	965,4033	1,86
India	2015	1,7165496	1,6070377	5464,393	-6,379769	999,31464	1,97
India	2016	1,7807794	1,6501642	5851,393	-7,3347187	1047,0581	2,53
India	2017	1,7980177	1,6903577	6182,921	-5,987707	1086,3718	2,53
India	2018	1,8995181	1,7762579	6514,001	-6,4890275	1153,3793	2,69
India	2019	1,8989491	1,7840296	6689,367	-6,0517426	1172,6527	2,69
India	2020	1,7509557	1,6305512	6186,613	-6,8765035	1119,1095	2,83
India	2021	1,9250876	1,6305512	6659,007		1217,529	
Indonesia	1990	0,7948848	0,76668143	4366,436	-3,548106	181,7893	0,17
Indonesia	1991	0,9433742	0,86957663	4678,693	-7,8227296	205,55879	0,17
Indonesia	1992	1,0575962	0,984626	4902,565	-6,899631	213,64389	0,17
Indonesia	1993	1,1218932	1,0183588	5206,264	-9,228531	207,09291	0,17
Indonesia	1994	1,1199955	1,0253361	5507,477	-8,451761	235,6167	0,17
Indonesia	1995	1,1224122	1,0370321	5862,968	-7,6068354	273,14267	0,25

Indonesia	1996	1,2501339	1,1392938	6249,157	-8,866257	292,3308	0,25
Indonesia	1997	1,3557001	1,2044523	6468,155	-11,1564455	345,46112	0,25
Indonesia	1998	1,0222263	0,6679051	5554,937	-34,661716	368,9713	0,25
Indonesia	1999	1,138328	0,9868577	5534,957	-13,306381	397,97253	0,25
Indonesia	2000	1,2919137	1,1017592	5744,179	-14,718827	457,92917	0,25
Indonesia	2001	1,3971627	1,1780226	5869,758	-15,684644	488,9172	0,25
Indonesia	2002	1,4120718	1,258333	6047,621	-10,887463	513,5041	0,25
Indonesia	2003	1,5260952	1,4236811	6247,622	-6,7108526	526,22345	0,25
Indonesia	2004	1,5242802	1,4310815	6469,668	-6,1142764	552,2297	0,25
Indonesia	2005	1,5252659	1,4373349	6741,814	-5,7649636	580,75616	0,25
Indonesia	2006	1,4957266	1,4224746	7012,67	-4,8974166	595,26117	0,33
Indonesia	2007	1,6531469	1,5747461	7352,768	-4,742513	631,8278	0,33
Indonesia	2008	1,539458	1,5559375	7788,867	1,0704776	655,1746	0,33
Indonesia	2009	1,6680022	1,6480801	8040,417	-1,1943715	675,7371	0,33
Indonesia	2010	1,850474	1,8451427	8432,942	-0,28810558	727,4517	0,67
Indonesia	2011	2,0429008	2,0477993	8792,318	0,23977804	776,48816	0,83
Indonesia	2012	2,06198	2,1501288	9192,039	4,2749596	835,01624	0,83
Indonesia	2013	1,9309183	2,0259945	9570,556	4,9238853	888,99097	0,75
Indonesia	2014	1,9041111	1,9917151	9916,343	4,6007752	926,9806	0,75
Indonesia	2015	2,0809183	2,105436	10260,61	1,1782118	938,93304	0,75
Indonesia	2016	2,1105638	2,1386266	10655,77	1,3296306	983,5777	1,08
Indonesia	2017	2,14464	2,16339	11073,521	0,87427384	1004,95715	1,25
Indonesia	2018	2,260322	2,2958434	11522,78	1,57152	1062,6179	1,31
Indonesia	2019	2,4461334	2,4785686	11976,45	1,3259724	1095,8782	1,56
Indonesia	2020	2,2430317	2,2961504	11586,234	2,3681588	1073,4281	1,64
Indonesia	2021	2,2621746	2,2961504	11923,685		1129,0828	
Iran	1990	3,7628624	3,627438	8931,796	-3,598968	1033,3617	
Iran	1991	3,8253236	3,681442	9656,484	-3,761286	1083,17	
Iran	1992	3,8222535	3,695041	9717,458	-3,3282075	1131,4758	
Iran	1993	3,9428532	3,5738094	9697,161	-9,359814	1249,8612	
Iran	1994	4,39805	3,9122274	9414,671	-11,046312	1350,3872	
Iran	1995	4,4671903	4,114597	9373,408	-7,8929653	1387,5033	
Iran	1996	4,4853425	4,2903166	9812,1	-4,348066	1456,8566	
Iran	1997	4,2740626	4,267131	9595,968	-0,1621835	1552,2115	
Iran	1998	4,814003	4,856788	9616,597	0,88876235	1613,3423	
Iran	1999	5,8860474	5,1210833	9486,044	-12,996226	1707,4591	
Iran	2000	5,6320558	4,483434	9968,999	-20,39436	1820,9037	
Iran	2001	5,920553	4,797832	9882,843	-18,963114	1913,6149	
Iran	2002	5,9059186	4,5338154	10731,98	-23,232677	2053,11	
Iran	2003	6,087358	5,36362	11545,332	-11,889199	2231,6335	
Iran	2004	6,4017963	5,6079044	11868,455	-12,401083	2356,734	

Iran	2005	6,5993915	5,637753	12062,598	-14,571622	2522,9905	
Iran	2006	7,0661244	6,0850224	12466,993	-13,884584	2713,8254	
Iran	2007	7,0888224	6,784171	13319,359	-4,2976265	2808,6506	
Iran	2008	7,292085	7,0357304	13186,477	-3,5155263	2870,9028	
Iran	2009	7,5215907	7,1371813	13150,05	-5,1107454	2984,4185	
Iran	2010	7,5592775	6,5014663	13732,191	-13,99355	3126,8132	
Iran	2011	7,562403	6,4293947	13909,384	-14,982125	3085,9424	
Iran	2012	7,60904	7,0416718	12723,495	-7,456501	3216,9644	
Iran	2013	7,6212144	6,464204	12549,603	-15,181449	3299,3057	
Iran	2014	7,9122066	6,8371453	14909,895	-13,5873785	3447,0264	
Iran	2015	7,721905	7,2674475	14516,847	-5,885308	3426,3003	
Iran	2016	7,608397	6,6379776	15601,647	-12,754584	3434,6772	
Iran	2017	8,11077	7,023392	15805,787	-13,406592	3611,2625	
Iran	2018	8,186843	6,9446874	15323,612	-15,172584	3648,2004	
Iran	2019	8,120656	7,2455716	14675,905	-10,776029	3683,8552	
Iran	2020	8,362657	7,543183	14990,882	-9,799205	3863,2063	
Iran	2021	8,517396	7,543183	15549,763		4069,9048	
Japan	1990	9,36344	10,653232	32908,174	13,774764	7126,9	1,58
Japan	1991	9,428065	10,770959	33898,237	14,243582	7344,835	1,58
Japan	1992	9,47814	11,4399	34065,149	20,697737	7367,0234	1,58
Japan	1993	9,396468	11,181535	33779,342	18,997208	7421,912	1,58
Japan	1994	9,810748	11,734203	33980,729	19,605587	7868,4365	1,64
Japan	1995	9,884957	11,958007	34785,809	20,971764	8059,061	1,75
Japan	1996	9,9617	11,876456	35797,502	19,221172	8191,267	1,94
Japan	1997	9,879865	11,651935	36062,768	17,936178	8370,077	1,94
Japan	1998	9,542121	10,8635435	35509,475	13,848311	8389,49	2,11
Japan	1999	9,812611	11,551422	35324,258	17,720175	8527,055	2,61
Japan	2000	9,972839	12,198596	36230,926	22,31818	7794,7153	2,69
Japan	2001	9,8373375	11,889635	36284,71	20,86233	7635,1816	2,69
Japan	2002	10,049841	11,793858	36223,56	17,353676	7749,776	2,69
Japan	2003	10,099358	11,968007	36712,198	18,502651	7654,3687	2,75
Japan	2004	10,049845	12,023214	37485,392	19,635824	7869,0366	3,03
Japan	2005	10,098716	12,080474	38156,339	19,623869	7943,4497	3,03
Japan	2006	9,910887	11,875333	38681,719	19,821087	8071,638	2,97
Japan	2007	10,182005	11,935599	39252,312	17,22248	8386,376	3,06
Japan	2008	9,62292	11,751825	38791,512	22,123283	7853,9863	3,00
Japan	2009	9,0805645	10,909085	36623,675	20,136633	7627,3228	3,11
Japan	2010	9,484828	11,317061	38111,411	19,317513	8447,495	3,22
Japan	2011	9,8825245	11,949874	38049,959	20,919237	8179,0674	3,42
Japan	2012	10,2162285	12,417858	38657,441	21,550316	8185,9194	4,06
Japan	2013	10,303727	12,021387	39500,441	16,670275	8065,4663	3,83

Japan	2014	9,9187765	11,35284	39683,837	14,458069	8069,786	3,83
Japan	2015	9,615686	10,699212	40348,241	11,268314	7896,2876	3,72
Japan	2016	9,479893	10,50297	40657,973	10,792073	7913,532	3,94
Japan	2017	9,382093	10,34995	41408,954	10,315999	7965,9746	3,89
Japan	2018	9,056306	10,140316	41757,908	11,969667	8015,944	3,61
Japan	2019	8,792438	9,933143	41699,176	12,973705	7888,121	3,78
Japan	2020	8,321498	9,478567	39890,783	13,90458	7697,967	3,78
Japan	2021	8,56574	9,478567	40662,244		7692,084	
Mexico	1990	3,8795977	3,9273155	14864,308	1,2299681	1438,9493	0,00
Mexico	1991	3,9607296	4,0587034	15205,52	2,4736297	1542,516	0,00
Mexico	1992	3,9153757	4,070049	15462,019	3,950399	1556,3096	0,06
Mexico	1993	3,9015958	4,0631924	15610,228	4,1418037	1553,8943	0,14
Mexico	1994	3,9804165	4,1218395	16107,463	3,5529716	1654,6287	0,72
Mexico	1995	3,685653	3,5838215	14850,678	-2,7629137	1671,1906	0,61
Mexico	1996	3,775293	3,7259371	15609,959	-1,3073438	1709,7589	0,56
Mexico	1997	3,956134	4,068989	16427,697	2,8526537	1789,4711	0,61
Mexico	1998	4,098006	4,2597346	17025,02	3,9465306	1910,5654	0,97
Mexico	1999	4,053742	4,258679	17248,744	5,0555	1972,0658	1,03
Mexico	2000	4,046719	4,516351	17862,551	11,605255	1983,3774	0,92
Mexico	2001	4,1320076	4,527222	17555,728	9,564705	2023,9594	0,97
Mexico	2002	4,0822396	4,4902983	17308,623	9,995953	2028,7943	0,97
Mexico	2003	4,2737513	4,4217668	17320,651	3,4633675	1977,3629	0,92
Mexico	2004	4,221976	4,525628	17761,165	7,1921935	2122,0671	0,81
Mexico	2005	4,400442	4,6559606	17930,841	5,8066573	2194,2786	0,81
Mexico	2006	4,4585977	4,7110195	18477,005	5,661459	2215,3345	0,75
Mexico	2007	4,4300427	4,6157093	18624,141	4,191075	2252,2002	0,75
Mexico	2008	4,494525	4,7223816	18553,794	5,0696516	2252,7341	0,75
Mexico	2009	4,2855067	4,4862046	17308,159	4,683179	2210,277	0,81
Mexico	2010	4,121324	4,453339	17929,569	8,056025	2349,6345	0,75
Mexico	2011	4,2414613	4,7162867	18325,537	11,194852	2455,005	0,75
Mexico	2012	4,332987	4,7405906	18738,297	9,40699	2459,9175	1,25
Mexico	2013	4,2244205	4,752003	18748,605	12,488873	2449,2996	1,42
Mexico	2014	4,076545	4,6221375	19044,55	13,383705	2443,584	1,47
Mexico	2015	3,9910128	4,4915586	19442,916	12,5418215	2479,2363	1,47
Mexico	2016	3,9482622	4,354288	19732,024	10,283657	2493,5972	1,47
Mexico	2017	3,7904897	4,2049108	19933,504	10,933185	2516,6226	1,47
Mexico	2018	3,8323855	4,2426333	20162,003	10,704763	2677,2812	1,47
Mexico	2019	3,7749555	4,130123	19923,177	9,408522	2542,9043	1,58
Mexico	2020	3,1088214	3,4316645	18143,802	10,384738	2583,527	1,58
Mexico	2021	3,2138007	3,4316645	18837,563		2659,324	
Russia	1990	17,126806	13,794909	21433,195	-19,454285	7311,8804	0,00

Russia	1991	16,203733	13,999881	20296,615	-13,600896	7195,1797	0,00
Russia	1992	13,216354	5,2366757	17320,611	-60,377304	6780,608	0,00
Russia	1993	12,531723	7,485521	15801,679	-40,26742	6424,476	0,06
Russia	1994	11,065991	7,9099026	13796,632	-28,52062	5885,367	0,06
Russia	1995	10,897812	7,871611	13241,944	-27,768885	5789,1875	0,06
Russia	1996	10,700508	8,465579	12782,707	-20,886194	5715,196	0,06
Russia	1997	10,015	7,9672627	12986,209	-20,446703	5638,307	0,56
Russia	1998	9,917492	7,150222	12311,123	-27,902918	5601,292	0,56
Russia	1999	10,134327	6,8614244	13150,907	-32,29521	5743,4893	0,56
Russia	2000	10,066303	6,781502	14529,964	-32,631653	5675,854	0,56
Russia	2001	10,358041	7,6043386	15338,276	-26,585161	5766,2456	0,61
Russia	2002	10,340811	7,6801577	16141,885	-25,729637	5816,877	0,61
Russia	2003	10,59212	8,006207	17403,778	-24,413553	5993,7197	0,72
Russia	2004	10,680394	8,198897	18721,771	-23,234133	6139,2974	0,67
Russia	2005	10,842018	8,3172035	19993,878	-23,287317	6271,278	0,67
Russia	2006	11,289669	8,639575	21680,716	-23,473623	6574,7783	0,67
Russia	2007	11,309478	9,151279	23550,149	-19,083092	6714,195	0,67
Russia	2008	11,5103	9,315643	24787,879	-19,066889	6883,596	0,67
Russia	2009	10,752071	8,957042	22833,742	-16,694729	6567,8687	0,67
Russia	2010	11,352681	9,47317	23856,88	-16,555662	6864,858	0,67
Russia	2011	11,713346	9,903425	25032,038	-15,451779	6971,1797	0,67
Russia	2012	11,798259	10,214987	25986,483	-13,419543	7064,9204	0,67
Russia	2013	11,341706	9,916256	26383,753	-12,568216	6977,0903	1,08
Russia	2014	11,3086	9,642815	26105,56	-14,730257	6989,6353	1,08
Russia	2015	11,265164	9,107773	25542,032	-19,151001	6988,811	1,08
Russia	2016	11,196788	9,368515	25546,351	-16,328545	7126,5664	1,17
Russia	2017	11,372466	9,583283	25999,323	-15,732583	7130,436	1,17
Russia	2018	11,674742	9,3166	26747,205	-20,198668	7192,403	1,17
Russia	2019	11,612027	9,468638	27341,101	-18,45835	7297,676	1,17
Russia	2020	11,154039	9,340569	26718,039	-16,258425	7175,726	1,17
Russia	2021	12,09865	9,340569	28104,876		7652,232	
Saudi Arabia	1990	13,02718	12,099707	44244,709	-7,1195273	4991,041	
Saudi Arabia	1991	17,325603	15,7720785	48459,669	-8,966643	5103,5347	
Saudi Arabia	1992	18,295715	16,625803	47415,744	-9,127339	5408,9043	
Saudi Arabia	1993	19,087381	17,577583	45879,723	-7,9099293	5752,8755	
Saudi Arabia	1994	17,865171	16,497288	45030,639	-7,656706	5773,5566	
Saudi	1995	13,892902	12,998864	44044,864	-6,43522	5819,727	

Arabia							
Saudi Arabia	1996	13,306084	12,504361	44123,381	-6,0252357	5778,749	
Saudi Arabia	1997	10,823722	10,308724	43541,528	-4,758048	5973,6284	
Saudi Arabia	1998	10,122812	10,633352	43727,857	5,0434575	6162,765	
Saudi Arabia	1999	10,756266	8,890874	41073,95	-17,342379	6235,1963	
Saudi Arabia	2000	13,75404	9,518428	42345,027	-30,795408	6436,0435	
Saudi Arabia	2001	13,428822	9,880876	40830,013	-26,420378	6614,6177	
Saudi Arabia	2002	14,396499	10,255411	38728,21	-28,764547	6847,3315	
Saudi Arabia	2003	14,103893	13,043868	42047,391	-7,5158324	7195,416	
Saudi Arabia	2004	16,676027	14,909147	44299,507	-10,595333	7328,6895	
Saudi Arabia	2005	16,225117	14,379398	45233,738	-11,375688	7830,672	
Saudi Arabia	2006	16,991459	15,549956	44967,852	-8,483683	7733,9556	
Saudi Arabia	2007	14,640386	14,008824	44293,841	-4,3138266	7743,541	
Saudi Arabia	2008	15,757219	15,153372	45518,613	-3,8322012	7442,409	
Saudi Arabia	2009	16,35471	16,524351	43120,098	1,0372634	7629,249	
Saudi Arabia	2010	17,602243	17,547812	43809,968	-0,30923522	8161,9937	
Saudi Arabia	2011	16,505583	16,504793	46809,069	-0,0047775684	8294,266	
Saudi Arabia	2012	18,390554	17,800718	47957,06	-3,2072744	8815,584	
Saudi Arabia	2013	17,297338	17,06774	47940,569	-1,3273662	9022,79	
Saudi Arabia	2014	19,076452	18,990238	49125,685	-0,45193776	9707,531	
Saudi Arabia	2015	20,728325	21,378126	49953,776	3,1348484	10332,571	
Saudi Arabia	2016	19,237926	19,407516	49629,15	0,8815409	10097,774	
Saudi Arabia	2017	18,823627	18,507671	48014,585	-1,6785073	10363,78	
Saudi	2018	17,881912	17,182863	48042,079	-3,9092574	9562,475	

Arabia							
Saudi Arabia	2019	18,323465	17,760344	47069,144	-3,0732274	9362,955	
Saudi Arabia	2020	18,367947	18,277689	44096,745	-0,49138817	9390,477	
Saudi Arabia	2021	18,70299	18,277689	44954,011		9919,779	
Turkey	1990	2,7918441	3,9700465	12332,081	42,201584	1059,1976	0,44
Turkey	1991	2,8585935	3,8682709	12237,752	35,32078	1088,9141	0,28
Turkey	1992	2,9139516	4,4379344	12758,208	52,299526	1196,2267	0,44
Turkey	1993	2,986835	4,0411515	13563,634	35,298775	1288,2223	0,44
Turkey	1994	2,87361	3,606949	12622,216	25,519789	1343,3318	0,44
Turkey	1995	3,0601184	3,7760453	13321,679	23,3954	1454,3341	0,50
Turkey	1996	3,3101714	3,4870646	14040,151	5,3439326	1573,2965	0,50
Turkey	1997	3,4602861	3,6595652	14873,721	5,759037	1685,776	0,50
Turkey	1998	3,407173	3,6407006	15117,162	6,8540034	1783,838	0,50
Turkey	1999	3,2896373	3,6144962	14416,151	9,875221	1842,8243	0,50
Turkey	2000	3,5851738	3,933014	15198,583	9,702183	1939,2157	0,78
Turkey	2001	3,2807262	3,104505	14133,897	-5,37141	1877,7657	0,78
Turkey	2002	3,3513062	3,365441	14864,246	0,42176962	1946,0918	0,83
Turkey	2003	3,5395958	3,6676087	15537,13	3,6166	2086,5198	0,83
Turkey	2004	3,6097727	4,0905294	16852,71	13,318197	2209,0408	0,83
Turkey	2005	3,8537183	4,4079795	18141,34	14,3825035	2351,3672	0,78
Turkey	2006	4,0554786	4,7006044	19159,887	15,90752	2531,1296	1,61
Turkey	2007	4,449882	5,1561074	19882,136	15,870647	2716,235	1,61
Turkey	2008	4,3540263	4,910339	19783,247	12,776977	2780,538	1,64
Turkey	2009	4,379598	4,4937625	18558,16	2,6067228	2696,1335	1,69
Turkey	2010	4,3177123	4,8098726	19804,918	11,398633	2883,5164	2,56
Turkey	2011	4,608933	5,2034307	21728,07	12,898816	3091,1162	2,78
Turkey	2012	4,7276134	5,288716	22496,657	11,868623	3179,97	2,39
Turkey	2013	4,5334325	5,054351	24074,301	11,490599	3132,4387	2,53
Turkey	2014	4,6582603	5,1158442	24929,24	9,823062	3221,2693	2,53
Turkey	2015	4,825473	5,181285	26095,081	7,373621	3280,6345	2,61
Turkey	2016	5,002561	5,1753407	26599,436	3,453822	3378,0798	2,69
Turkey	2017	5,240849	5,3868737	28242,491	2,786278	3611,0442	2,78
Turkey	2018	5,102916	5,155689	28660,967	1,0341774	3669,3943	2,72
Turkey	2019	4,8120704	4,738198	28485,734	-1,5351439	3627,0232	2,89
Turkey	2020	4,9139	4,7794228	28878,96	-2,7366712	3630,0999	2,89
Turkey	2021	5,263368	4,7794228	31752,912		3907,7368	
Ukraine	1990	13,681577	9,703509	14495,738	-29,076092	5788,3516	
Ukraine	1991	12,241189	8,813905	14495,738	-27,997965	5389,1006	

Ukraine	1992	11,375081	8,487364	13019,819	-25,386343	4872,4395	
Ukraine	1993	9,853518	7,187042	11204,486	-27,061153	4436,4043	
Ukraine	1994	8,14309	5,29961	8708,542	-34,918938	3937,47	
Ukraine	1995	7,6352324	4,263806	7710,171	-44,156174	3795,832	
Ukraine	1996	6,942628	5,6506057	7004,428	-18,609985	3611,499	
Ukraine	1997	6,7818847	5,491249	6852,282	-19,030628	3544,3953	
Ukraine	1998	6,605106	4,883518	6780,253	-26,064497	3470,64	
Ukraine	1999	6,045774	4,802996	6825,907	-20,556137	3486,2043	
Ukraine	2000	5,837221	4,5234585	7295,688	-22,506649	3503,9048	
Ukraine	2001	6,270054	5,2839036	8007,261	-15,7279415	3569,3823	
Ukraine	2002	6,1628866	5,2076054	8505,308	-15,500554	3617,8103	
Ukraine	2003	6,448788	4,959919	9388,106	-23,087585	3785,2654	
Ukraine	2004	6,5649123	4,771788	10572,024	-27,313755	3851,3003	
Ukraine	2005	6,6734047	5,326753	10981,664	-20,17938	3962,9	
Ukraine	2006	7,1387615	5,6940336	11888,365	-20,237797	4147,2295	
Ukraine	2007	7,262556	6,314632	12939,345	-13,052214	4235,0903	
Ukraine	2008	7,0672045	6,4926715	13289,867	-8,129563	4180,802	
Ukraine	2009	6,0460796	5,4599786	11327,655	-9,693906	3785,5496	
Ukraine	2010	6,438073	5,43304	11839,776	-15,610778	4133,264	
Ukraine	2011	6,765866	5,8955164	12526,09	-12,863825	4283,0967	
Ukraine	2012	6,694593	6,008929	12576,492	-10,242064	4368,564	
Ukraine	2013	6,5608077	6,0296693	12611,945	-8,095629	4275,489	
Ukraine	2014	5,7036943	4,9916587	12467,834	-12,483757	4030,7366	
Ukraine	2015	4,975796	4,1544433	11292,085	-16,506962	3593,392	
Ukraine	2016	5,219492	4,018695	11612,979	-23,006014	3632,5461	
Ukraine	2017	4,995539	4,0654225	11942,821	-18,618946	3457,8926	
Ukraine	2018	5,2123866	4,8000846	12428,081	-7,910043	3559,974	
Ukraine	2019	5,022646	4,6984425	12902,796	-6,454834	3452,979	
Ukraine	2020	4,7128844	4,332448	12517,375	-8,072262	3376,4775	
Ukraine	2021	4,6370573	4,332448	13039,972		3577,1863	
United Kingdom	1990	10,521594	11,696713	30580,227	11,168636	5554,231	1,11
United Kingdom	1991	10,624451	11,793274	30137,065	11,00126	5602,215	1,11
United Kingdom	1992	10,326097	12,046045	30181,211	16,656334	5552,8467	1,11
United Kingdom	1993	10,054433	11,407504	30863,734	13,457464	5579,951	0,94
United Kingdom	1994	9,933512	11,245523	31968,785	13,20794	5624,555	1,00
United Kingdom	1995	9,773094	11,14485	32685,975	14,036042	5739,3047	1,00

United Kingdom	1996	10,102876	11,606233	33420,299	14,880485	6014,61	1,00
United Kingdom	1997	9,660194	11,551663	34992,839	19,58003	5994,658	1,00
United Kingdom	1998	9,728953	11,925702	36190,375	22,579502	6178,8223	1,00
United Kingdom	1999	9,57871	11,647475	37249,759	21,597534	6229,193	1,00
United Kingdom	2000	9,669214	12,686361	38423,582	31,203642	6361,593	1,33
United Kingdom	2001	9,780857	12,32091	39321,071	25,969645	6470,7554	1,33
United Kingdom	2002	9,439251	12,419777	40006,576	31,575876	6479,5815	1,33
United Kingdom	2003	9,5829115	12,57402	41147,712	31,21295	6629,6953	2,14
United Kingdom	2004	9,557823	12,704535	41868,718	32,92289	6521,9507	2,14
United Kingdom	2005	9,4452305	12,444709	42775,866	31,756529	6548,4517	2,31
United Kingdom	2006	9,338998	12,432338	43629,179	33,122826	6470,6587	2,42
United Kingdom	2007	9,134187	12,3116045	44300,728	34,786003	6414,8813	2,25
United Kingdom	2008	8,825938	11,702072	43816,395	32,587284	6233,019	2,47
United Kingdom	2009	7,938317	10,136984	41718,922	27,696892	5993,89	2,67
United Kingdom	2010	8,156536	10,83794	42245,61	32,874302	6037,44	3,36
United Kingdom	2011	7,422031	9,710438	42429,609	30,83262	5768,384	3,33
United Kingdom	2012	7,6396565	10,005735	42752,763	30,97101	5655,8096	2,89
United Kingdom	2013	7,4275928	9,648185	43414,134	29,896526	5526,708	3,22
United Kingdom	2014	6,774484	9,237608	44317,526	36,358845	5175,11	3,75
United Kingdom	2015	6,4770393	9,061222	45208,371	39,89759	5141,33	3,86
United Kingdom	2016	6,0837545	8,765312	45852,767	44,077354	5121,909	3,36
United Kingdom	2017	5,8634415	8,297335	46553,491	41,50963	5072,2925	3,47
United Kingdom	2018	5,7159815	8,064993	47039,985	41,09551	4974,9375	3,53

United Kingdom	2019	5,4621234	7,699153	47567,992	40,955307	4816,6587	3,53
United Kingdom	2020	4,8652816	6,929181	42975,525	42,420975	4583,5435	3,61
United Kingdom	2021	5,1540995	6,929181	45988,558		4565,3276	
United States	1990	20,648254	20,347502	40382,199	-1,4565499	13031,002	0,83
United States	1991	20,134295	19,72527	39806,051	-2,0314877	13001,756	0,83
United States	1992	20,281036	20,175217	40664,921	-0,52177256	12871,11	1,00
United States	1993	20,381666	20,126003	41242,867	-1,2543817	13156,663	1,08
United States	1994	20,457945	20,2478	42386,511	-1,0272007	13186,712	1,08
United States	1995	20,43133	20,21765	43012,381	-1,0458469	13428,155	1,25
United States	1996	20,880138	20,590729	44118,005	-1,3860499	13619,328	1,08
United States	1997	20,895596	20,717155	45532,569	-0,8539593	13643,318	1,08
United States	1998	20,799135	21,054504	47021,525	1,2277906	13978,677	1,19
United States	1999	20,812017	21,440773	48716,083	3,021121	14098,702	1,14
United States	2000	21,304466	22,11325	50145,354	3,796315	13463,596	1,22
United States	2001	20,70963	21,609846	50105,605	4,346847	13057,637	1,22
United States	2002	20,643988	21,833733	50459,399	5,763151	13331,809	1,22
United States	2003	20,665068	22,287737	51386,126	7,85223	13290,311	1,22
United States	2004	20,813087	22,531967	52882,73	8,258649	13444,391	1,22
United States	2005	20,676287	22,669197	54220,91	9,638635	13593,026	1,22
United States	2006	20,207176	22,407478	55204,977	10,888722	13500,912	1,67
United States	2007	20,265636	21,971756	55760,348	8,418789	13683,437	1,67
United States	2008	19,362011	20,698753	55312,798	6,903936	13436,697	1,89
United States	2009	17,772331	18,750208	53409,242	5,5022435	12770,394	2,33

United States	2010	18,257408	19,188433	54437,45	5,099442	13220,33	2,03
United States	2011	17,671368	18,551445	54890,026	4,980246	13026,999	2,03
United States	2012	16,881199	17,862911	55744,766	5,815414	12760,629	2,36
United States	2013	17,161404	17,98237	56382,986	4,783794	12698,577	2,44
United States	2014	17,168596	18,141993	57258,643	5,669627	12719,186	2,42
United States	2015	16,563307	17,852444	58 385,72	7,783087	12581,307	2,47
United States	2016	16,050102	17,309807	58937,871	7,8485656	12492,153	2,97
United States	2017	15,800776	17,087513	59885,714	8,14351	12287,501	2,97
United States	2018	16,187923	17,476597	61305,187	7,960712	12649,936	2,92
United States	2019	15,730885	17,027067	62417,549	8,239732	12438,334	2,92
United States	2020	14,037217	15,471115	59803,375	10,214972	12035,351	3,03
United States	2021	14,858668	15,471115	63014,33		12321,215	
Thailande	1990	1,5699399	2,151179	7010,146	37,023018	798,72864	
Thailande	1991	1,6948719	2,1514697	7509,654	26,939962	893,4137	
Thailande	1992	1,8428266	2,7164187	8120,697	47,40501	1001,56537	
Thailande	1993	2,1041024	2,658527	8745,552	26,349699	1096,2552	
Thailande	1994	2,2855778	2,6957002	9358,708	17,943935	1213,1448	
Thailande	1995	2,6256237	2,9184341	10017,934	11,15203	1341,8164	
Thailande	1996	2,9000762	3,0427687	10467,455	4,920306	1444,7773	
Thailande	1997	2,9867165	2,8522837	10059,377	-4,5010276	1519,3087	
Thailande	1998	2,6198468	2,1193469	9180,02	-19,10417	1450,0397	
Thailande	1999	2,7269847	2,389563	9489,818	-12,373434	1444,7703	
Thailande	2000	2,7471056	2,444941	9809,622	-10,999381	1419,6102	
Thailande	2001	2,9274585	2,5994973	10053,815	-11,202929	1504,0088	
Thailande	2002	3,0696185	2,8143392	10583,76	-8,316318	1581,6869	
Thailande	2003	3,1762323	2,883996	11260,158	-9,200721	1682,2339	
Thailande	2004	3,375	3,1271865	11886,325	-7,3426237	1792,8021	
Thailande	2005	3,4534998	3,3023596	12304,402	-4,376437	1868,6942	
Thailande	2006	3,4852574	3,2689703	12837,878	-6,205774	1948,5964	
Thailande	2007	3,542298	3,2961738	13460,061	-6,94815	1980,0455	
Thailande	2008	3,463452	3,3894355	13620,532	-2,1370695	2025,5989	

Thailande	2009	3,6403062	3,4574392	13458,527	-5,0234027	2022,8964	
Thailande	2010	3,8345406	3,814076	14399,045	-0,5336879	2201,5369	
Thailande	2011	3,7689989	3,807016	14450,479	1,0086824	2141,3755	
Thailande	2012	4,003597	3,9025111	15424,544	-2,5248713	2272,3647	
Thailande	2013	4,1731873	4,05995	15767,361	-2,7134445	2308,4683	
Thailande	2014	4,0877085	3,731775	15854,132	-8,707402	2329,014	
Thailande	2015	4,117252	3,7115192	16285,387	-9,854453	2371,8813	
Thailande	2016	4,08616	3,6400425	16782,099	-10,917776	2517,5962	
Thailande	2017	4,133732	3,7207317	17422,952	-9,9909725	2564,2397	
Thailande	2018	3,966176	3,7792535	18095,737	-4,7129164	2560,1802	
Thailande	2019	4,070233	3,868974	18453,47	-4,944655	2673,0608	
Thailande	2020	3,8805997	3,8430374	17284,701	-0,96795434	2507,8467	
Thailande	2021	3,889545	3,8430374	17412,956		2610,0156	
Poland	1990	9,899408	8,468872	11366,51	-14,450723	3531,9229	0,58
Poland	1991	9,794603	8,829851	10542,632	-9,849836	3477,3142	0,53
Poland	1992	9,535346	9,08444	10728,933	-4,728787	3416,528	0,58
Poland	1993	9,536919	8,799133	11155,454	-7,736099	3438,998	0,64
Poland	1994	9,394602	8,443662	11715,517	-10,122197	3473,3127	0,64
Poland	1995	9,449833	8,366654	12503,812	-11,462407	3568,8267	0,75
Poland	1996	9,8323965	8,573455	13274,028	-12,804013	3676,6882	0,75
Poland	1997	9,571921	8,393393	14203,667	-12,312357	3670,6833	0,75
Poland	1998	8,842245	7,7322054	14903,284	-12,553817	3667,7966	0,81
Poland	1999	8,592173	8,063958	15574,724	-6,147617	3649,8547	0,81
Poland	2000	8,251497	7,7958503	16409,483	-5,521988	3718,5327	1,14
Poland	2001	8,117609	7,6462674	16611,322	-5,806412	3717,2627	1,28
Poland	2002	7,933514	7,3769016	16856,279	-7,015968	3686,9163	1,28
Poland	2003	8,275798	7,381552	17456,785	-10,805555	3884,102	1,28
Poland	2004	8,405946	7,5455475	18340,023	-10,235592	3944,9644	1,33
Poland	2005	8,383716	7,5136747	18991,5	-10,377749	4019,3477	2,08
Poland	2006	8,7507715	8,242415	20164,752	-5,809277	4162,4316	2,36
Poland	2007	8,741307	8,45317	21606,568	-3,2962716	4114,805	2,25
Poland	2008	8,57893	8,5618515	22519,846	-0,19907704	4014,2375	2,58
Poland	2009	8,218549	8,0643425	23145,379	-1,8763214	3918,788	2,78
Poland	2010	8,6772	8,56295	24082,507	-1,3166726	4067,6362	2,94
Poland	2011	8,656909	8,451238	25201,85	-2,3757958	4220,777	3,00
Poland	2012	8,458965	8,423585	25535,031	-0,41825712	4184,5015	2,72
Poland	2013	8,357247	8,069423	25826,059	-3,4440162	4245,5645	2,89
Poland	2014	8,043131	7,8005	26729,985	-3,0166214	4105,0356	2,94
Poland	2015	8,130483	8,039241	27871,319	-1,1222204	4260,0933	2,94
Poland	2016	8,418466	7,9698105	28776,045	-5,3294134	4310,431	2,83
Poland	2017	8,764865	8,288775	30161,551	-5,4318004	4410,0073	2,89

Poland	2018	8,749628	8,536161	31773,19	-2,4397202	4399,885	3,06
Poland	2019	8,273783	8,045942	33284,21	-2,7537644	4235,509	3,42
Poland	2020	7,8984118	7,4706326	32391,246	-5,416013	4089,1665	3,47
Poland	2021	8,577376	7,4706326	34154,247		4666,683	
Vietnam	1990	0,31830537	0,34809786	2041,063	9,359713	129,73637	
Vietnam	1991	0,31269604	0,33929774	2120,262	8,507203	134,73024	
Vietnam	1992	0,30759197	0,33330432	2264,059	8,359236	139,06253	
Vietnam	1993	0,32107553	0,35390574	2404,986	10,2250805	149,79681	
Vietnam	1994	0,3609444	0,39344686	2573,825	9,004839	169,4871	
Vietnam	1995	0,3890597	0,42297724	2773,524	8,717825	198,5924	
Vietnam	1996	0,456412	0,50140184	2984,436	9,857296	226,0814	
Vietnam	1997	0,5852969	0,59809273	3177,756	2,1862097	251,5429	
Vietnam	1998	0,6066694	0,6103849	3309,752	0,6124366	281,19336	
Vietnam	1999	0,60019976	0,5563794	3416,117	-7,3009686	301,56018	
Vietnam	2000	0,6658252	0,46927088	3599,173	-29,520407	336,19766	
Vietnam	2001	0,747378	0,5286639	3795,973	-29,264189	383,49857	
Vietnam	2002	0,8494232	0,59637356	4011,636	-29,79077	443,9357	
Vietnam	2003	0,9333775	0,7378255	4265,994	-20,95101	502,35767	
Vietnam	2004	1,0659959	0,8345104	4556,153	-21,715427	561,2843	
Vietnam	2005	1,1389403	0,8832318	4855,02	-22,451443	626,3975	
Vietnam	2006	1,1747901	0,8983464	5145,627	-23,531324	689,6815	
Vietnam	2007	1,1840411	0,9247434	5460,725	-21,899385	756,94055	
Vietnam	2008	1,323955	1,0364654	5714,783	-21,714458	828,8819	
Vietnam	2009	1,4273672	1,0960053	5964,555	-23,214903	932,4385	
Vietnam	2010	1,5854424	1,160719	6284,506	-26,78895	1049,2957	
Vietnam	2011	1,7116977	1,20533	6695,705	-29,582771	1148,9647	
Vietnam	2012	1,6166952	1,158777	6988,794	-28,324337	1289,4546	
Vietnam	2013	1,6785437	1,1957507	7298,825	-28,76261	1378,7872	
Vietnam	2014	2,0148401	1,3951073	7684,58	-30,758419	1548,1912	
Vietnam	2015	2,3617034	1,6153966	8133,268	-31,60036	1713,2834	
Vietnam	2016	2,4278777	1,6444806	8585,476	-32,26674	1887,2174	
Vietnam	2017	2,4782856	1,6028664	9085,612	-35,32358	2037,5815	
Vietnam	2018	2,8891642	1,8197008	9637,216	-37,016357	2203,9875	
Vietnam	2019	3,560416	2,1990716	10131,714	-38,23554	2374,4812	
Vietnam	2020	3,403044	2,1079402	10331,659	-38,057213	2435,6255	
Vietnam	2021	3,344827	2,1079402	10622,408		2511,2852	
South Africa	1990	7,847275	5,4946766	10256,753	-29,979813	4193,4854	0,25
South Africa	1991	7,9691763	5,8213525	10256,753	-26,951645	4114,2026	0,25
South	1992	7,215516	5,3388295	10256,753	-26,009043	4025,0706	0,31

Africa							
South Africa	1993	7,5330267	5,4197216	10256,753	-28,053867	4108,27	0,31
South Africa	1994	7,8250337	5,7180004	10339,656	-26,92683	4199,179	0,31
South Africa	1995	8,220288	5,916802	10436,33	-28,021973	4243,501	0,31
South Africa	1996	8,141431	5,666361	10683,946	-30,40092	4480,1787	0,31
South Africa	1997	8,502075	5,886937	10780,395	-30,758818	4645,2856	0,31
South Africa	1998	8,222434	5,612845	10670,216	-31,73743	4479,0464	0,36
South Africa	1999	8,0813	6,096305	10765,73	-24,562819	4378,592	0,31
South Africa	2000	8,075817	5,868476	11050,496	-27,33273	4196,8867	0,25
South Africa	2001	7,8630586	5,516853	11144,34	-29,838331	4161,3633	0,25
South Africa	2002	7,475733	5,0920696	11399,408	-31,885347	4271,58	0,25
South Africa	2003	8,400885	5,537901	11622,507	-34,079544	4536,833	0,25
South Africa	2004	9,2475395	6,3705006	12022,406	-31,1114	4700,546	0,25
South Africa	2005	8,485409	5,874771	12511,384	-30,766193	4676,3223	0,19
South Africa	2006	9,022819	6,4813285	13052,68	-28,16736	4780,5933	0,44
South Africa	2007	9,298462	6,533237	13572,228	-29,738518	4936,5854	0,44
South Africa	2008	9,789216	6,414559	13806,754	-34,473213	4760,726	0,39
South Africa	2009	9,388231	6,5038357	13392,677	-30,723526	4526,021	1,11
South Africa	2010	8,937098	6,236939	13589	-30,212925	4692,0986	1,83
South Africa	2011	8,881489	6,1042786	13804,423	-31,269646	4661,986	1,53
South Africa	2012	8,635881	6,424937	13921,299	-25,601835	4532,8784	0,86
South Africa	2013	8,513041	6,2375917	14049,387	-26,728977	4427,2144	0,86
South Africa	2014	8,621777	6,129957	14033,155	-28,901459	4322,344	0,86
South	2015	7,9858437	5,7880187	14004,891	-27,521515	4150,9395	0,86

Africa							
South Africa	2016	8,099157	5,7114143	13886,184	-29,481375	4182,5684	0,86
South Africa	2017	7,757252	5,5800033	13838,851	-28,067272	4200,122	0,86
South Africa	2018	7,5905123	5,4502354	13845,589	-28,19674	4133,79	0,92
South Africa	2019	8,038351	5,7139835	13690,072	-28,91597	4038,0767	0,86
South Africa	2020	7,4118633	5,142118	12639,636	-30,623135	3774,5361	0,92
South Africa	2021	7,339827	5,142118	13145,758		3758,0657	

country	year	t_cons	t_gdp	trade	energy
Australia	1990	2,645033	10,3347	-12,577975	9130,308
Australia	1991	2,647114	10,34975	-12,764534	9146,121
Australia	1992	2,650463	10,36727	-13,382308	9242,691
Australia	1993	2,65639	10,38845	-14,354975	9379,9375
Australia	1994	2,665866	10,41298	-12,907236	9555,611
Australia	1995	2,678357	10,43984	-14,294733	9733,071
Australia	1996	2,693229	10,46864	-14,14313	9890,648
Australia	1997	2,70956	10,49849	-14,038771	10264,905
Australia	1998	2,725918	10,52804	-11,851311	10723,286
Australia	1999	2,740415	10,55595	-13,992289	11004,771
Australia	2000	2,754767	10,58154	-17,001368	10419,62
Australia	2001	2,772103	10,60521	-16,309643	11000,02
Australia	2002	2,79259	10,62764	-12,168585	11020,833
Australia	2003	2,813448	10,64881	-9,353938	10844,711
Australia	2004	2,831786	10,66865	-10,000307	11195,45
Australia	2005	2,846643	10,68651	-10,931122	10693,182
Australia	2006	2,858902	10,70217	-9,190818	10744,597
Australia	2007	2,868404	10,7157	-7,856353	11018,283
Australia	2008	2,874799	10,72701	-9,989207	10803,433
Australia	2009	2,878124	10,73696	-3,0244763	10837,039
Australia	2010	2,874985	10,74674	-2,275757	10610,303
Australia	2011	2,864451	10,75688	-2,3631878	10774,687
Australia	2012	2,847016	10,76725	-1,0548906	10267,817
Australia	2013	2,823718	10,77728	-4,356303	9950,766
Australia	2014	2,798144	10,78683	-3,1573887	10294,604

Australia	2015	2,771635	10,79576	-4,8401914	9690,918
Australia	2016	2,744562	10,804	-9,4439945	10169,986
Australia	2017	2,717714	10,81138	-8,790314	10162,936
Australia	2018	2,690808	10,81778	-12,213144	10023,528
Australia	2019	2,665025	10,82325	-12,850923	9853,624
Australia	2020	2,640775	10,82851	-11,3491535	9774,425
Australia	2021	2,618055	10,83492	-11,3491535	9531,233
Brazil	1990	0,4684383	9,266845	12,320361	1478,5042
Brazil	1991	0,4886784	9,275128	9,912894	1528,5101
Brazil	1992	0,5109106	9,284944	8,783744	1550,7423
Brazil	1993	0,5379917	9,297868	7,589256	1590,5184
Brazil	1994	0,5705462	9,312431	8,466447	1615,355
Brazil	1995	0,6060183	9,325795	10,851269	1685,4777
Brazil	1996	0,6385306	9,335916	11,289033	1754,299
Brazil	1997	0,6615665	9,34298	11,529243	1827,2726
Brazil	1998	0,6709815	9,34768	9,970104	1881,133
Brazil	1999	0,6673329	9,352297	1,5945339	1929,4105
Brazil	2000	0,6553977	9,359016	2,5357833	1947,875
Brazil	2001	0,6382656	9,368425	-1,2604543	1813,4032
Brazil	2002	0,6219627	9,381684	-4,9227724	1885,5067
Brazil	2003	0,6138146	9,399564	-6,075511	1965,1832
Brazil	2004	0,6194949	9,422843	-6,981524	2063,4788
Brazil	2005	0,6405337	9,450419	-4,0697684	2118,4456
Brazil	2006	0,676397	9,481395	-2,5784104	2181,5935
Brazil	2007	0,7251575	9,514322	0,78803605	2291,4941
Brazil	2008	0,7816007	9,546868	7,5869846	2359,9136
Brazil	2009	0,8404311	9,57737	6,244341	2357,9878
Brazil	2010	0,9016641	9,605512	10,464874	2601,3289
Brazil	2011	0,9568338	9,628118	12,511738	2661,0957
Brazil	2012	0,9980074	9,642616	11,362447	2736,1047
Brazil	2013	1,0181196	9,647797	11,258733	2793,4019
Brazil	2014	1,0123673	9,643401	9,851865	2859,83
Brazil	2015	0,9818586	9,631714	3,647562	2785,5889
Brazil	2016	0,9367322	9,617654	-0,9425605	2762,2603
Brazil	2017	0,8872967	9,605465	0,29922518	2787,2715
Brazil	2018	0,8360358	9,595967	0,19704293	2826,9954
Brazil	2019	0,7839484	9,588289	0,5926443	2921,1992
Brazil	2020	0,7306095	9,581774	-3,7317948	2881,7102
Brazil	2021	0,6785875	9,577172	-3,7317948	3091,4558
Italy	1990	2,316455	10,51492	28,982178	3755,513
Italy	1991	2,310899	10,52369	27,884296	3845,9717

Italy	1992	2,303845	10,53271	39,353115	3912,6787
Italy	1993	2,29183	10,54292	29,654009	3857,7827
Italy	1994	2,278699	10,55578	27,345505	4016,0803
Italy	1995	2,26776	10,57123	25,070963	4166,2915
Italy	1996	2,259919	10,5885	19,178644	4201,306
Italy	1997	2,25846	10,60719	18,756971	4318,0767
Italy	1998	2,263681	10,62678	17,889172	4442,143
Italy	1999	2,273921	10,64653	19,815813	4541,219
Italy	2000	2,286957	10,66526	21,034918	4724,715
Italy	2001	2,301549	10,68101	18,934805	4756,207
Italy	2002	2,317989	10,69282	20,06498	4846,2925
Italy	2003	2,334847	10,70104	18,892862	4969,5977
Italy	2004	2,34965	10,70634	21,052841	5095,5166
Italy	2005	2,359347	10,70871	22,722794	5081,1104
Italy	2006	2,360997	10,70755	28,700596	5248,511
Italy	2007	2,351723	10,70157	27,990223	5226,5728
Italy	2008	2,331824	10,6902	28,636587	5276,5566
Italy	2009	2,303285	10,67532	32,950104	4828,1777
Italy	2010	2,2691	10,66058	38,241604	4979,903
Italy	2011	2,226847	10,64674	37,03562	4993,507
Italy	2012	2,178233	10,63445	30,932009	4925,723
Italy	2013	2,129342	10,62582	32,89217	4759,7017
Italy	2014	2,085701	10,62243	35,803658	4599,257
Italy	2015	2,04965	10,62403	26,143211	4664,394
Italy	2016	2,021209	10,62875	23,388618	4777,2217
Italy	2017	1,99777	10,6338	26,602142	4888,5054
Italy	2018	1,974095	10,6365	29,255886	4799,638
Italy	2019	1,945885	10,63562	27,926756	4877,952
Italy	2020	1,913373	10,63222	28,630257	4673,4004
Italy	2021	1,880523	10,63042	28,630257	4834,3755
Canada	1990	2,852598	10,43125	5,40932	17376,781
Canada	1991	2,846588	10,43366	7,1921606	18096,773
Canada	1992	2,841332	10,43884	6,8235154	18295,236
Canada	1993	2,83751	10,4487	3,9416358	18495,502
Canada	1994	2,837752	10,46347	1,857676	19083,236
Canada	1995	2,843278	10,4822	0,8501197	19046,76
Canada	1996	2,853824	10,5046	-0,45524788	19315,549
Canada	1997	2,867643	10,53078	2,9200616	19152,902
Canada	1998	2,881347	10,55959	2,103042	18643,05
Canada	1999	2,893667	10,58919	-0,4430539	19005,852
Canada	2000	2,903903	10,61711	2,3803048	19177,195

Canada	2001	2,910007	10,64154	0,021704523	18461,9
Canada	2002	2,913501	10,66269	3,2988002	18642,57
Canada	2003	2,914098	10,68101	-0,7414266	18102,146
Canada	2004	2,912485	10,69702	0,7647089	18250,69
Canada	2005	2,908347	10,71032	5,9779396	18825,166
Canada	2006	2,900817	10,72004	1,4311793	18216,908
Canada	2007	2,89213	10,7258	1,111403	18652,59
Canada	2008	2,881931	10,72826	1,3610029	18508,94
Canada	2009	2,871128	10,72965	5,8309355	17715,408
Canada	2010	2,859187	10,73349	9,280704	17130,787
Canada	2011	2,842582	10,74027	6,2631392	17816,93
Canada	2012	2,820393	10,74905	2,0421836	17648,8
Canada	2013	2,793977	10,75886	1,3366144	18187,756
Canada	2014	2,764277	10,7685	-1,4855659	17966,303
Canada	2015	2,733469	10,77682	-5,260375	17881,67
Canada	2016	2,703655	10,78355	-6,5609884	17857,018
Canada	2017	2,675899	10,78834	-7,1441264	17636,754
Canada	2018	2,648331	10,79003	-8,843435	17169,855
Canada	2019	2,619035	10,78792	-9,786984	16734,455
Canada	2020	2,587868	10,78301	-8,262188	16471,4
Canada	2021	2,557104	10,7786	-8,262188	16405,445
Korea	1990	2,852598	10,43125	27,811583	2684,9656
Korea	1991	2,846588	10,43366	23,980656	2958,5032
Korea	1992	2,841332	10,43884	31,728848	3275,7751
Korea	1993	2,83751	10,4487	22,25067	3603,1753
Korea	1994	2,837752	10,46347	19,524702	4059,8328
Korea	1995	2,843278	10,4822	17,583134	4484,0527
Korea	1996	2,853824	10,5046	16,445059	4946,231
Korea	1997	2,867643	10,53078	11,785307	5364,983
Korea	1998	2,881347	10,55959	-4,832405	5128,564
Korea	1999	2,893667	10,58919	5,6047153	5635,2026
Korea	2000	2,903903	10,61711	9,616037	5824,497
Korea	2001	2,910007	10,64154	5,992489	6202,5146
Korea	2002	2,913501	10,66269	9,974122	6580,2124
Korea	2003	2,914098	10,68101	11,509631	6818,9272
Korea	2004	2,912485	10,69702	12,365512	7253,0835
Korea	2005	2,908347	10,71032	16,429554	7608,754
Korea	2006	2,900817	10,72004	20,533482	7901,044
Korea	2007	2,89213	10,7258	21,481386	8352,861
Korea	2008	2,881931	10,72826	19,830227	8672,766
Korea	2009	2,871128	10,72965	6,828017	8786,321

Korea	2010	2,859187	10,73349	9,473692	9786,115
Korea	2011	2,842582	10,74027	8,228876	10175,945
Korea	2012	2,820393	10,74905	4,524324	10300,964
Korea	2013	2,793977	10,75886	3,5872254	10323,918
Korea	2014	2,764277	10,7685	7,0582113	10375,995
Korea	2015	2,733469	10,77682	5,319002	10289,366
Korea	2016	2,703655	10,78355	2,8203623	10446,8955
Korea	2017	2,675899	10,78834	5,46434	10503,6455
Korea	2018	2,648331	10,79003	7,8371096	10880,684
Korea	2019	2,619035	10,78792	9,49163	10701,911
Korea	2020	2,587868	10,78301	10,351333	10636,384
Korea	2021	2,557104	10,7786	10,351333	11354,784
China	1990	0,7020125	7,245434	-6,592143	538,4396
China	1991	0,7397578	7,351251	-7,8687434	578,7928
China	1992	0,7772061	7,4576	-5,61802	636,874
China	1993	0,8119203	7,562561	-5,5919375	678,6689
China	1994	0,8415458	7,663315	-11,34773	768,5001
China	1995	0,8661102	7,757505	-10,891356	826,69183
China	1996	0,8837443	7,844287	-10,881511	880,33136
China	1997	0,8958357	7,924265	-12,961465	917,3927
China	1998	0,9086828	7,99923	-12,002099	935,969
China	1999	0,9293511	8,072001	-10,856562	987,1493
China	2000	0,9603989	8,145578	-10,651939	1072,3843
China	2001	1,0039838	8,222448	-9,964201	1163,4666
China	2002	1,0608454	8,304597	-11,050782	1291,2533
China	2003	1,128184	8,393122	-15,751711	1482,3644
China	2004	1,2020488	8,488095	-17,272833	1699,0142
China	2005	1,2805853	8,588659	-19,768469	1916,0731
China	2006	1,362102	8,692576	-20,91159	2182,4302
China	2007	1,4453094	8,796371	-20,525284	2483,1685
China	2008	1,5290168	8,896376	-20,362013	2628,0605
China	2009	1,6109368	8,991153	-14,730957	2773,9294
China	2010	1,68603	9,080146	-14,809815	3105,872
China	2011	1,7495415	9,162742	-14,567529	3456,905
China	2012	1,7975781	9,238973	-13,038233	3634,8618
China	2013	1,8304428	9,309774	-12,293162	3930,411
China	2014	1,8515076	9,376163	-11,73929	4164,2744
China	2015	1,8658783	9,439059	-10,0501375	4152,784
China	2016	1,8786834	9,499104	-9,135588	4344,8286
China	2017	1,8935934	9,556662	-8,599595	4650,338
China	2018	1,910928	9,611787	-7,024324	5024,8774

China	2019	1,9286469	9,664627	-7,278907	5247,6816
China	2020	1,9452104	9,716067	-8,422723	5428,5273
China	2021	1,960867	9,767891	-8,422723	5949,9673
France	1990	2,191981	10,45469	25,20579	7395,472
France	1991	2,192906	10,4613	20,587812	7972,782
France	1992	2,19133	10,46847	33,99329	8089,8213
France	1993	2,184138	10,47709	29,893284	8231,89
France	1994	2,175073	10,48875	28,763275	8292,845
France	1995	2,167339	10,50375	29,640577	8554,458
France	1996	2,161725	10,52201	25,101906	8836,027
France	1997	2,158856	10,54337	23,76179	8661,2295
France	1998	2,159679	10,56689	22,777628	8733,592
France	1999	2,162425	10,59062	23,722574	8932,481
France	2000	2,166197	10,61252	26,934818	9095,642
France	2001	2,170637	10,631	25,544146	9212,1
France	2002	2,176273	10,64605	25,265657	9299,211
France	2003	2,183548	10,65875	26,193903	9374,457
France	2004	2,190495	10,67016	30,954014	9436,113
France	2005	2,193309	10,68017	32,386414	9417,604
France	2006	2,189022	10,68827	35,44005	9323,833
France	2007	2,176219	10,69348	38,88032	9167,059
France	2008	2,15471	10,69546	39,484314	9192,171
France	2009	2,126211	10,69568	35,953518	8522,82
France	2010	2,094799	10,69683	33,718304	9013,274
France	2011	2,06141	10,69945	41,30731	9038,591
France	2012	2,026258	10,70311	34,62322	8991,078
France	2013	1,991141	10,70794	30,327003	9101,577
France	2014	1,958279	10,71409	33,422413	8903,97
France	2015	1,930653	10,7214	27,835321	8994,234
France	2016	1,908033	10,72924	29,085968	8730,363
France	2017	1,886481	10,73641	27,132624	8669,232
France	2018	1,862159	10,74107	32,63378	8958,457
France	2019	1,832616	10,74216	31,310638	8784,505
France	2020	1,798727	10,74047	34,03018	8176,9473
France	2021	1,764529	10,73996	34,03018	8528,864
Germany	1990	2,703289	10,53407	13,298842	6889,4883
Germany	1991	2,68991	10,54638	12,593433	6714,4946
Germany	1992	2,677119	10,5576	24,711939	6653,6978
Germany	1993	2,662567	10,56794	21,095594	6484,638
Germany	1994	2,647087	10,57898	20,399532	6493,5244
Germany	1995	2,631739	10,59118	21,214643	6567,9062

Germany	1996	2,61667	10,60483	16,961115	6773,483
Germany	1997	2,602938	10,62018	15,60033	6729,3257
Germany	1998	2,592342	10,63674	16,872993	6775,6416
Germany	1999	2,584515	10,65338	21,510504	6774,896
Germany	2000	2,5781	10,6688	20,38917	7017,6357
Germany	2001	2,572363	10,68179	17,984385	7138,479
Germany	2002	2,567358	10,69243	14,257606	7145,5737
Germany	2003	2,564382	10,70246	18,554022	7407,051
Germany	2004	2,561512	10,71393	18,580906	7509,5977
Germany	2005	2,557844	10,72749	21,132397	7553,1777
Germany	2006	2,552335	10,74257	18,796719	7758,4004
Germany	2007	2,544044	10,75686	22,423983	7788,6196
Germany	2008	2,532118	10,7688	21,801126	7796,35
Germany	2009	2,516524	10,77925	23,428358	7247,5444
Germany	2010	2,49908	10,79158	23,068789	7680,779
Germany	2011	2,478426	10,8051	21,603899	7432,3853
Germany	2012	2,456654	10,81814	12,905946	7607,8936
Germany	2013	2,437173	10,83059	11,703261	7727,05
Germany	2014	2,419912	10,84282	14,385728	7573,4043
Germany	2015	2,404153	10,85459	12,334735	7804,8594
Germany	2016	2,387617	10,86561	13,887924	7809,532
Germany	2017	2,366384	10,87495	14,504967	7818,6377
Germany	2018	2,338207	10,88139	17,28108	7632,6323
Germany	2019	2,302959	10,88469	19,189657	7209,902
Germany	2020	2,263468	10,88568	20,34952	6807,475
Germany	2021	2,223882	10,88671	20,34952	6980,578
India	1990	0,6608514	7,391852	-0,4769911	330,59003
India	1991	0,6711661	7,419225	-3,0450065	360,4934
India	1992	0,7122037	7,449087	-1,38378	371,4885
India	1993	0,70351976	7,482689	-3,778732	390,97073
India	1994	0,7245047	7,520391	-4,386886	410,43332
India	1995	0,7460731	7,560978	-5,5192776	442,97214
India	1996	0,7817688	7,602384	-6,8470936	450,74127
India	1997	0,80206245	7,643026	-6,4032407	468,06052
India	1998	0,80307645	7,683036	-6,4612446	494,47946
India	1999	0,8680128	7,722307	-5,0248113	526,0571
India	2000	0,85465384	7,760648	-7,410649	539,2336
India	2001	0,8463197	7,800173	-7,9232526	543,19354
India	2002	0,84511536	7,843602	-9,193527	555,0694
India	2003	0,87798804	7,893405	-7,3341146	571,0769
India	2004	0,9112559	7,949598	-7,922506	614,5752

India	2005	0,9489077	8,01076	-7,534721	610,16486
India	2006	0,98240006	8,074353	-8,493534	634,9767
India	2007	1,0665008	8,137905	-6,495871	669,29944
India	2008	1,1276596	8,199963	-6,8923044	686,48883
India	2009	1,2469307	8,261583	-5,31344	718,9287
India	2010	1,2716058	8,32247	-5,900608	755,65027
India	2011	1,3058882	8,381553	-7,656	822,18713
India	2012	1,428358	8,439306	-7,244002	856,68964
India	2013	1,4062512	8,496981	-10,884358	887,7016
India	2014	1,5241907	8,554916	-8,908081	965,4033
India	2015	1,6070377	8,61177	-6,379769	999,31464
India	2016	1,6501642	8,664739	-7,3347187	1047,0581
India	2017	1,6903577	8,710439	-5,987707	1086,3718
India	2018	1,7762579	8,746458	-6,4890275	1153,3793
India	2019	1,7840296	8,772295	-6,0517426	1172,6527
India	2020	1,6305512	8,790971	-6,8765035	1119,1095
India	2021	1,6305512	8,80911	-6,8765035	1217,529
Indonesia	1990	-0,415609984	7,391852	-3,548106	181,7893
Indonesia	1991	-0,389398438	7,419225	-7,8227296	205,55879
Indonesia	1992	-0,36304852	7,449087	-6,899631	213,64389
Indonesia	1993	-0,33735588	7,482689	-9,228531	207,09291
Indonesia	1994	-0,310750445	7,520391	-8,451761	235,6167
Indonesia	1995	-0,283092488	7,560978	-7,6068354	273,14267
Indonesia	1996	-0,255393936	7,602384	-8,866257	292,3308
Indonesia	1997	-0,229650641	7,643026	-11,1564455	345,46112
Indonesia	1998	-0,206938684	7,683036	-34,661716	368,9713
Indonesia	1999	-0,18742596	7,722307	-13,306381	397,97253
Indonesia	2000	-0,172517034	7,760648	-14,718827	457,92917
Indonesia	2001	-0,159028758	7,800173	-15,684644	488,9172
Indonesia	2002	-0,142232153	7,843602	-10,887463	513,5041
Indonesia	2003	-0,118181177	7,893405	-6,7108526	526,22345
Indonesia	2004	-0,085534784	7,949598	-6,1142764	552,2297
Indonesia	2005	-0,044146044	8,01076	-5,7649636	580,75616
Indonesia	2006	0,005392301	8,074353	-4,8974166	595,26117
Indonesia	2007	0,061657741	8,137905	-4,742513	631,8278
Indonesia	2008	0,120912865	8,199963	1,0704776	655,1746
Indonesia	2009	0,179692792	8,261583	-1,1943715	675,7371
Indonesia	2010	0,234455789	8,32247	-0,28810558	727,4517
Indonesia	2011	0,28575935	8,381553	0,23977804	776,48816
Indonesia	2012	0,334743442	8,439306	4,2749596	835,01624
Indonesia	2013	0,380660441	8,496981	4,9238853	888,99097

Indonesia	2014	0,424940931	8,554916	4,6007752	926,9806
Indonesia	2015	0,465042196	8,61177	1,1782118	938,93304
Indonesia	2016	0,498073783	8,664739	1,3296306	983,5777
Indonesia	2017	0,522080278	8,710439	0,87427384	1004,95715
Indonesia	2018	0,535386365	8,746458	1,57152	1062,6179
Indonesia	2019	0,536602718	8,772295	1,3259724	1095,8782
Indonesia	2020	0,52825226	8,790971	2,3681588	1073,4281
Indonesia	2021	0,517085103	8,80911	2,3681588	1129,0828
Iran	1990	3,627438	9,135324	-3,598968	1033,3617
Iran	1991	3,681442	9,148407	-3,761286	1083,17
Iran	1992	3,695041	9,157696	-3,3282075	1131,4758
Iran	1993	3,5738094	9,162092	-9,359814	1249,8612
Iran	1994	3,9122274	9,162897	-11,046312	1350,3872
Iran	1995	4,114597	9,163161	-7,8929653	1387,5033
Iran	1996	4,2903166	9,164648	-4,348066	1456,8566
Iran	1997	4,267131	9,167368	-0,1621835	1552,2115
Iran	1998	4,856788	9,174005	0,88876235	1613,3423
Iran	1999	5,1210833	9,187413	-12,996226	1707,4591
Iran	2000	4,483434	9,210174	-20,39436	1820,9037
Iran	2001	4,797832	9,241883	-18,963114	1913,6149
Iran	2002	4,5338154	9,281843	-23,232677	2053,11
Iran	2003	5,36362	9,325024	-11,889199	2231,6335
Iran	2004	5,6079044	9,366309	-12,401083	2356,734
Iran	2005	5,637753	9,403483	-14,571622	2522,9905
Iran	2006	6,0850224	9,435866	-13,884584	2713,8254
Iran	2007	6,784171	9,462212	-4,2976265	2808,6506
Iran	2008	7,0357304	9,480776	-3,5155263	2870,9028
Iran	2009	7,1371813	9,493288	-5,1107454	2984,4185
Iran	2010	6,5014663	9,502095	-13,99355	3126,8132
Iran	2011	6,4293947	9,508632	-14,982125	3085,9424
Iran	2012	7,0416718	9,516878	-7,456501	3216,9644
Iran	2013	6,464204	9,533976	-15,181449	3299,3057
Iran	2014	6,8371453	9,560505	-13,5873785	3447,0264
Iran	2015	7,2674475	9,58739	-5,885308	3426,3003
Iran	2016	6,6379776	9,610484	-12,754584	3434,6772
Iran	2017	7,023392	9,625206	-13,406592	3611,2625
Iran	2018	6,9446874	9,631442	-15,172584	3648,2004
Iran	2019	7,2455716	9,633368	-10,776029	3683,8552
Iran	2020	7,543183	9,635732	-9,799205	3863,2063
Iran	2021	7,543183	9,639342	-9,799205	4069,9048
Japan	1990	2,373261	10,40921	13,774764	7126,9

Japan	1991	2,394406	10,4195	14,243582	7344,835
Japan	1992	2,414811	10,42903	20,697737	7367,0234
Japan	1993	2,431982	10,43817	18,997208	7421,912
Japan	1994	2,445652	10,44801	19,605587	7868,4365
Japan	1995	2,453785	10,45859	20,971764	8059,061
Japan	1996	2,456028	10,4685	19,221172	8191,267
Japan	1997	2,454792	10,47614	17,936178	8370,077
Japan	1998	2,454341	10,48167	13,848311	8389,49
Japan	1999	2,459004	10,4869	17,720175	8527,055
Japan	2000	2,46622	10,49324	22,31818	7794,7153
Japan	2001	2,472208	10,50066	20,86233	7635,1816
Japan	2002	2,476696	10,50954	17,353676	7749,776
Japan	2003	2,479759	10,52014	18,502651	7654,3687
Japan	2004	2,48056	10,53148	19,635824	7869,0366
Japan	2005	2,478509	10,54169	19,623869	7943,4497
Japan	2006	2,473645	10,5489	19,821087	8071,638
Japan	2007	2,467315	10,552	17,22248	8386,376
Japan	2008	2,460947	10,55135	22,123283	7853,9863
Japan	2009	2,45719	10,54983	20,136633	7627,3228
Japan	2010	2,459	10,55183	19,317513	8447,495
Japan	2011	2,462574	10,55756	20,919237	8179,0674
Japan	2012	2,460838	10,56691	21,550316	8185,9194
Japan	2013	2,448535	10,57866	16,670275	8065,4663
Japan	2014	2,426237	10,59114	14,458069	8069,786
Japan	2015	2,398331	10,60325	11,268314	7896,2876
Japan	2016	2,369526	10,61362	10,792073	7913,532
Japan	2017	2,341718	10,6211	10,315999	7965,9746
Japan	2018	2,315013	10,62445	11,969667	8015,944
Japan	2019	2,289045	10,62349	12,973705	7888,121
Japan	2020	2,263599	10,61951	13,90458	7697,967
Japan	2021	2,239142	10,61531	13,90458	7692,084
Mexico	1990	1,387504	9,614014	1,2299681	1438,9493
Mexico	1991	1,386014	9,625535	2,4736297	1542,516
Mexico	1992	1,382569	9,636327	3,950399	1556,3096
Mexico	1993	1,3767	9,646047	4,1418037	1553,8943
Mexico	1994	1,370045	9,655336	3,5529716	1654,6287
Mexico	1995	1,36677	9,665796	-2,7629137	1671,1906
Mexico	1996	1,375666	9,682202	-1,3073438	1709,7589
Mexico	1997	1,39649	9,703327	2,8526537	1789,4711
Mexico	1998	1,422965	9,725291	3,9465306	1910,5654
Mexico	1999	1,449502	9,744555	5,0555	1972,0658

Mexico	2000	1,473139	9,759293	11,605255	1983,3774
Mexico	2001	1,490859	9,768774	9,564705	2023,9594
Mexico	2002	1,5031	9,775383	9,995953	2028,7943
Mexico	2003	1,512227	9,781944	3,4633675	1977,3629
Mexico	2004	1,520486	9,789634	7,1921935	2122,0671
Mexico	2005	1,527552	9,797405	5,8066573	2194,2786
Mexico	2006	1,532032	9,803721	5,661459	2215,3345
Mexico	2007	1,533587	9,806733	4,191075	2252,2002
Mexico	2008	1,533671	9,806649	5,0696516	2252,7341
Mexico	2009	1,53332	9,806224	4,683179	2210,277
Mexico	2010	1,535439	9,810393	8,056025	2349,6345
Mexico	2011	1,539699	9,81936	11,194852	2455,005
Mexico	2012	1,541593	9,831712	9,40699	2459,9175
Mexico	2013	1,537748	9,845703	12,488873	2449,2996
Mexico	2014	1,526245	9,860249	13,383705	2443,584
Mexico	2015	1,507249	9,873586	12,5418215	2479,2363
Mexico	2016	1,481385	9,883375	10,283657	2493,5972
Mexico	2017	1,448775	9,887443	10,933185	2516,6226
Mexico	2018	1,408517	9,884281	10,704763	2677,2812
Mexico	2019	1,358456	9,873649	9,408522	2542,9043
Mexico	2020	1,300106	9,858037	10,384738	2583,527
Mexico	2021	1,240963	9,842533	10,384738	2659,324
Russia	1990	13,794909	9,966208	-19,454285	7311,8804
Russia	1991	13,999881	9,861272	-13,600896	7195,1797
Russia	1992	5,2366757	9,756985	-60,377304	6780,608
Russia	1993	7,485521	9,659689	-40,26742	6424,476
Russia	1994	7,9099026	9,575993	-28,52062	5885,367
Russia	1995	7,871611	9,513326	-27,768885	5789,1875
Russia	1996	8,465579	9,474733	-20,886194	5715,196
Russia	1997	7,9672627	9,461043	-20,446703	5638,307
Russia	1998	7,150222	9,471195	-27,902918	5601,292
Russia	1999	6,8614244	9,505188	-32,29521	5743,4893
Russia	2000	6,781502	9,55773	-32,631653	5675,854
Russia	2001	7,6043386	9,621431	-26,585161	5766,2456
Russia	2002	7,6801577	9,691527	-25,729637	5816,877
Russia	2003	8,006207	9,764921	-24,413553	5993,7197
Russia	2004	8,198897	9,838281	-23,234133	6139,2974
Russia	2005	8,3172035	9,908228	-23,287317	6271,278
Russia	2006	8,639575	9,971297	-23,473623	6574,7783
Russia	2007	9,151279	10,02352	-19,083092	6714,195
Russia	2008	9,315643	10,062216	-19,066889	6883,596

Russia	2009	8,957042	10,089042	-16,694729	6567,8687
Russia	2010	9,47317	10,111242	-16,555662	6864,858
Russia	2011	9,903425	10,130759	-15,451779	6971,1797
Russia	2012	10,214987	10,146392	-13,419543	7064,9204
Russia	2013	9,916256	10,156655	-12,568216	6977,0903
Russia	2014	9,642815	10,161957	-14,730257	6989,6353
Russia	2015	9,107773	10,165092	-19,151001	6988,811
Russia	2016	9,368515	10,169649	-16,328545	7126,5664
Russia	2017	9,583283	10,177515	-15,732583	7130,436
Russia	2018	9,3166	10,188437	-20,198668	7192,403
Russia	2019	9,468638	10,200994	-18,45835	7297,676
Russia	2020	9,340569	10,214338	-16,258425	7175,726
Russia	2021	9,340569	10,229138	-16,258425	7652,232
Arabia	1990	2,498336	9,966208	-7,1195273	4991,041
Arabia	1991	2,336568	9,861272	-8,966643	5103,5347
Arabia	1992	2,187397	9,756985	-9,127339	5408,9043
Arabia	1993	2,093666	9,659689	-7,9099293	5752,8755
Arabia	1994	2,045049	9,575993	-7,656706	5773,5566
Arabia	1995	2,023151	9,513326	-6,43522	5819,727
Arabia	1996	2,011881	9,474733	-6,0252357	5778,749
Arabia	1997	1,999161	9,461043	-4,758048	5973,6284
Arabia	1998	1,985326	9,471195	5,0434575	6162,765
Arabia	1999	1,978329	9,505188	-17,342379	6235,1963
Arabia	2000	1,984303	9,55773	-30,795408	6436,0435
Arabia	2001	2,004142	9,621431	-26,420378	6614,6177
Arabia	2002	2,031728	9,691527	-28,764547	6847,3315
Arabia	2003	2,063401	9,764921	-7,5158324	7195,416
Arabia	2004	2,096193	9,838281	-10,595333	7328,6895
Arabia	2005	2,128817	9,908228	-11,375688	7830,672
Arabia	2006	2,160766	9,971297	-8,483683	7733,9556
Arabia	2007	2,190485	10,02352	-4,3138266	7743,541
Arabia	2008	2,215977	10,062216	-3,8322012	7442,409
Arabia	2009	2,237586	10,089042	1,0372634	7629,249
Arabia	2010	2,257229	10,111242	-0,30923522	8161,9937
Arabia	2011	2,272306	10,130759	-0,0047775684	8294,266
Arabia	2012	2,279343	10,146392	-3,2072744	8815,584
Arabia	2013	2,276921	10,156655	-1,3273662	9022,79
Arabia	2014	2,268074	10,161957	-0,45193776	9707,531
Arabia	2015	2,257562	10,165092	3,1348484	10332,571
Arabia	2016	2,249955	10,169649	0,8815409	10097,774
Arabia	2017	2,244985	10,177515	-1,6785073	10363,78

Arabia	2018	2,241121	10,188437	-3,9092574	9562,475
Arabia	2019	2,238334	10,200994	-3,0732274	9362,955
Arabia	2020	2,235667	10,214338	-0,49138817	9390,477
Arabia	2021	2,233124	10,229138	-0,49138817	9919,779
Turkey	1990	1,403183	9,410336	42,201584	1059,1976
Turkey	1991	1,395021	9,430828	35,32078	1088,9141
Turkey	1992	1,384418	9,452282	52,299526	1196,2267
Turkey	1993	1,364712	9,473807	35,298775	1288,2223
Turkey	1994	1,339819	9,494674	25,519789	1343,3318
Turkey	1995	1,316836	9,51829	23,3954	1454,3341
Turkey	1996	1,297164	9,542916	5,3439326	1573,2965
Turkey	1997	1,283389	9,564697	5,759037	1685,776
Turkey	1998	1,273284	9,580455	6,8540034	1783,838
Turkey	1999	1,266022	9,59128	9,875221	1842,8243
Turkey	2000	1,262662	9,60257	9,702183	1939,2157
Turkey	2001	1,266156	9,61821	-5,37141	1877,7657
Turkey	2002	1,290133	9,644722	0,42176962	1946,0918
Turkey	2003	1,334887	9,682439	3,6166	2086,5198
Turkey	2004	1,393061	9,727896	13,318197	2209,0408
Turkey	2005	1,453757	9,774479	14,3825035	2351,3672
Turkey	2006	1,507643	9,816016	15,90752	2531,1296
Turkey	2007	1,54835	9,849476	15,870647	2716,235
Turkey	2008	1,573516	9,87629	12,776977	2780,538
Turkey	2009	1,58996	9,902694	2,6067228	2696,1335
Turkey	2010	1,606286	9,936557	11,398633	2883,5164
Turkey	2011	1,62237	9,978345	12,898816	3091,1162
Turkey	2012	1,634526	10,024234	11,868623	3179,97
Turkey	2013	1,641763	10,071206	11,490599	3132,4387
Turkey	2014	1,646195	10,115928	9,823062	3221,2693
Turkey	2015	1,647786	10,156838	7,373621	3280,6345
Turkey	2016	1,645111	10,19316	3,453822	3378,0798
Turkey	2017	1,636477	10,225387	2,786278	3611,0442
Turkey	2018	1,620066	10,253557	1,0341774	3669,3943
Turkey	2019	1,598811	10,280029	-1,5351439	3627,0232
Turkey	2020	1,577648	10,308138	-2,7366712	3630,0999
Turkey	2021	1,557197	10,338927	-2,7366712	3907,7368
Ukraine	1990	2,284752	9,644129	-29,076092	5788,3516
Ukraine	1991	2,157875	9,519608	-27,997965	5389,1006
Ukraine	1992	2,029771	9,388835	-25,386343	4872,4395
Ukraine	1993	1,901059	9,251758	-27,061153	4436,4043
Ukraine	1994	1,78324	9,116866	-34,918938	3937,47

Ukraine	1995	1,694936	8,999877	-44,156174	3795,832
Ukraine	1996	1,643207	8,912028	-18,609985	3611,499
Ukraine	1997	1,610637	8,859601	-19,030628	3544,3953
Ukraine	1998	1,588666	8,843103	-26,064497	3470,64
Ukraine	1999	1,577985	8,860313	-20,556137	3486,2043
Ukraine	2000	1,579006	8,906879	-22,506649	3503,9048
Ukraine	2001	1,591266	8,975265	-15,7279415	3569,3823
Ukraine	2002	1,607327	9,056752	-15,500554	3617,8103
Ukraine	2003	1,627095	9,143903	-23,087585	3785,2654
Ukraine	2004	1,654752	9,228451	-27,313755	3851,3003
Ukraine	2005	1,69191	9,30246	-20,17938	3962,9
Ukraine	2006	1,730979	9,361743	-20,237797	4147,2295
Ukraine	2007	1,762451	9,402269	-13,052214	4235,0903
Ukraine	2008	1,777664	9,42216	-8,129563	4180,802
Ukraine	2009	1,775995	9,426118	-9,693906	3785,5496
Ukraine	2010	1,766124	9,4261	-15,610778	4133,264
Ukraine	2011	1,748875	9,424956	-12,863825	4283,0967
Ukraine	2012	1,717711	9,420846	-10,242064	4368,564
Ukraine	2013	1,668624	9,41299	-8,095629	4275,489
Ukraine	2014	1,605161	9,402485	-12,483757	4030,7366
Ukraine	2015	1,543677	9,393365	-16,506962	3593,392
Ukraine	2016	1,500787	9,392511	-23,006014	3632,5461
Ukraine	2017	1,481154	9,400649	-18,618946	3457,8926
Ukraine	2018	1,478461	9,415244	-7,910043	3559,974
Ukraine	2019	1,478526	9,432484	-6,454834	3452,979
Ukraine	2020	1,476184	9,449804	-8,072262	3376,4775
Ukraine	2021	1,473141	9,46791	-8,072262	3577,1863
UK	1990	2,284752	9,644129	11,168636	5554,231
UK	1991	2,157875	9,519608	11,00126	5602,215
UK	1992	2,029771	9,388835	16,656334	5552,8467
UK	1993	1,901059	9,251758	13,457464	5579,951
UK	1994	1,78324	9,116866	13,20794	5624,555
UK	1995	1,694936	8,999877	14,036042	5739,3047
UK	1996	1,643207	8,912028	14,880485	6014,61
UK	1997	1,610637	8,859601	19,58003	5994,658
UK	1998	1,588666	8,843103	22,579502	6178,8223
UK	1999	1,577985	8,860313	21,597534	6229,193
UK	2000	1,579006	8,906879	31,203642	6361,593
UK	2001	1,591266	8,975265	25,969645	6470,7554
UK	2002	1,607327	9,056752	31,575876	6479,5815
UK	2003	1,627095	9,143903	31,21295	6629,6953

UK	2004	1,654752	9,228451	32,92289	6521,9507
UK	2005	1,69191	9,30246	31,756529	6548,4517
UK	2006	1,730979	9,361743	33,122826	6470,6587
UK	2007	1,762451	9,402269	34,786003	6414,8813
UK	2008	1,777664	9,42216	32,587284	6233,019
UK	2009	1,775995	9,426118	27,696892	5993,89
UK	2010	1,766124	9,4261	32,874302	6037,44
UK	2011	1,748875	9,424956	30,83262	5768,384
UK	2012	1,717711	9,420846	30,97101	5655,8096
UK	2013	1,668624	9,41299	29,896526	5526,708
UK	2014	1,605161	9,402485	36,358845	5175,11
UK	2015	1,543677	9,393365	39,89759	5141,33
UK	2016	1,500787	9,392511	44,077354	5121,909
UK	2017	1,481154	9,400649	41,50963	5072,2925
UK	2018	1,478461	9,415244	41,09551	4974,9375
UK	2019	1,478526	9,432484	40,955307	4816,6587
UK	2020	1,476184	9,449804	42,420975	4583,5435
UK	2021	1,473141	9,46791	42,420975	4565,3276
USA	1990	2,284752	2,284752	-1,4565499	13031,002
USA	1991	2,157875	2,157875	-2,0314877	13001,756
USA	1992	2,029771	2,029771	-0,52177256	12871,11
USA	1993	1,901059	1,901059	-1,2543817	13156,663
USA	1994	1,78324	1,78324	-1,0272007	13186,712
USA	1995	1,694936	1,694936	-1,0458469	13428,155
USA	1996	1,643207	1,643207	-1,3860499	13619,328
USA	1997	1,610637	1,610637	-0,8539593	13643,318
USA	1998	1,588666	1,588666	1,2277906	13978,677
USA	1999	1,577985	1,577985	3,021121	14098,702
USA	2000	1,579006	1,579006	3,796315	13463,596
USA	2001	1,591266	1,591266	4,346847	13057,637
USA	2002	1,607327	1,607327	5,763151	13331,809
USA	2003	1,627095	1,627095	7,85223	13290,311
USA	2004	1,654752	1,654752	8,258649	13444,391
USA	2005	1,69191	1,69191	9,638635	13593,026
USA	2006	1,730979	1,730979	10,888722	13500,912
USA	2007	1,762451	1,762451	8,418789	13683,437
USA	2008	1,777664	1,777664	6,903936	13436,697
USA	2009	1,775995	1,775995	5,5022435	12770,394
USA	2010	1,766124	1,766124	5,099442	13220,33
USA	2011	1,748875	1,748875	4,980246	13026,999
USA	2012	1,717711	1,717711	5,815414	12760,629

USA	2013	1,668624	1,668624	4,783794	12698,577
USA	2014	1,605161	1,605161	5,669627	12719,186
USA	2015	1,543677	1,543677	7,783087	12581,307
USA	2016	1,500787	1,500787	7,8485656	12492,153
USA	2017	1,481154	1,481154	8,14351	12287,501
USA	2018	1,478461	1,478461	7,960712	12649,936
USA	2019	1,478526	1,478526	8,239732	12438,334
USA	2020	1,476184	1,476184	10,214972	12035,351
USA	2021	1,473141	1,473141	10,214972	12321,215
Thailande	1990	0,7906565	8,873014	37,023018	798,72864
Thailande	1991	0,8554087	8,94306	26,939962	893,4137
Thailande	1992	0,9176968	9,011316	47,40501	1001,56537
Thailande	1993	0,9661311	9,074081	26,349699	1096,2552
Thailande	1994	0,9974835	9,126738	17,943935	1213,1448
Thailande	1995	1,0096901	9,164892	11,15203	1341,8164
Thailande	1996	1,0001045	9,185884	4,920306	1444,7773
Thailande	1997	0,9722158	9,191774	-4,5010276	1519,3087
Thailande	1998	0,9407798	9,191639	-19,10417	1450,0397
Thailande	1999	0,9281422	9,197005	-12,373434	1444,7703
Thailande	2000	0,9376821	9,212711	-10,999381	1419,6102
Thailande	2001	0,967075	9,239695	-11,202929	1504,0088
Thailande	2002	1,0096304	9,276733	-8,316318	1581,6869
Thailande	2003	1,0574822	9,320205	-9,200721	1682,2339
Thailande	2004	1,1052739	9,365524	-7,3426237	1792,8021
Thailande	2005	1,1478186	9,408985	-4,376437	1868,6942
Thailande	2006	1,1834153	9,448645	-6,205774	1948,5964
Thailande	2007	1,2150448	9,483435	-6,94815	1980,0455
Thailande	2008	1,245794	9,513436	-2,1370695	2025,5989
Thailande	2009	1,2765214	9,541133	-5,0234027	2022,8964
Thailande	2010	1,3055726	9,569603	-0,5336879	2201,5369
Thailande	2011	1,3276937	9,598544	1,0086824	2141,3755
Thailande	2012	1,3409435	9,628186	-2,5248713	2272,3647
Thailande	2013	1,3442961	9,656755	-2,7134445	2308,4683
Thailande	2014	1,3387931	9,684028	-8,707402	2329,014
Thailande	2015	1,3311635	9,710676	-9,854453	2371,8813
Thailande	2016	1,3259456	9,736086	-10,917776	2517,5962
Thailande	2017	1,3257054	9,758382	-9,9909725	2564,2397
Thailande	2018	1,3296137	9,774883	-4,7129164	2560,1802
Thailande	2019	1,3356631	9,783626	-4,944655	2673,0608
Thailande	2020	1,3418372	9,785502	-0,96795434	2507,8467
Thailande	2021	1,3478523	9,785341	-0,96795434	2610,0156

Poland	1990	2,168592	9,275448	-14,450723	3531,9229
Poland	1991	2,171041	9,290862	-9,849836	3477,3142
Poland	1992	2,170271	9,312574	-4,728787	3416,528
Poland	1993	2,163772	9,344115	-7,736099	3438,998
Poland	1994	2,152662	9,385825	-10,122197	3473,3127
Poland	1995	2,139151	9,435605	-11,462407	3568,8267
Poland	1996	2,12352	9,489639	-12,804013	3676,6882
Poland	1997	2,104563	9,543928	-12,312357	3670,6833
Poland	1998	2,083588	9,594868	-12,553817	3667,7966
Poland	1999	2,064193	9,640585	-6,147617	3649,8547
Poland	2000	2,046154	9,680655	-5,521988	3718,5327
Poland	2001	2,03157	9,715934	-5,806412	3717,2627
Poland	2002	2,023283	9,749774	-7,015968	3686,9163
Poland	2003	2,024399	9,785717	-10,805555	3884,102
Poland	2004	2,035534	9,825578	-10,235592	3944,9644
Poland	2005	2,05476	9,869345	-10,377749	4019,3477
Poland	2006	2,07869	9,916137	-5,809277	4162,4316
Poland	2007	2,100138	9,963308	-3,2962716	4114,805
Poland	2008	2,114973	10,007771	-0,19907704	4014,2375
Poland	2009	2,12251	10,048182	-1,8763214	3918,788
Poland	2010	2,125293	10,084635	-1,3166726	4067,6362
Poland	2011	2,122363	10,117363	-2,3757958	4220,777
Poland	2012	2,114977	10,147057	-0,41825712	4184,5015
Poland	2013	2,105585	10,176141	-3,4440162	4245,5645
Poland	2014	2,098244	10,207111	-3,0166214	4105,0356
Poland	2015	2,09526	10,240766	-1,1222204	4260,0933
Poland	2016	2,094533	10,276547	-5,3294134	4310,431
Poland	2017	2,092872	10,313353	-5,4318004	4410,0073
Poland	2018	2,085197	10,349157	-2,4397202	4399,885
Poland	2019	2,068633	10,382033	-2,7537644	4235,509
Poland	2020	2,046215	10,411774	-5,416013	4089,1665
Poland	2021	2,022632	10,441253	-5,416013	4666,683
Vietnam	1990	-1,12247608	7,608701	9,359713	129,73637
Vietnam	1991	-1,08210604	7,669542	8,507203	134,73024
Vietnam	1992	-1,03501556	7,731636	8,359236	139,06253
Vietnam	1993	-0,97436131	7,795211	10,2250805	149,79681
Vietnam	1994	-0,89966835	7,859821	9,004839	169,4871
Vietnam	1995	-0,81689807	7,924032	8,717825	198,5924
Vietnam	1996	-0,73532595	7,98574	9,857296	226,0814
Vietnam	1997	-0,66858136	8,043227	2,1862097	251,5429
Vietnam	1998	-0,62579581	8,096317	0,6124366	281,19336

Vietnam	1999	-0,60064362	8,146904	-7,3009686	301,56018
Vietnam	2000	-0,5735861	8,197715	-29,520407	336,19766
Vietnam	2001	-0,52365065	8,25041	-29,264189	383,49857
Vietnam	2002	-0,44816359	8,305726	-29,79077	443,9357
Vietnam	2003	-0,35582643	8,363525	-20,95101	502,35767
Vietnam	2004	-0,2622131	8,422795	-21,715427	561,2843
Vietnam	2005	-0,17771968	8,482014	-22,451443	626,3975
Vietnam	2006	-0,10461197	8,539803	-23,531324	689,6815
Vietnam	2007	-0,03980053	8,595359	-21,899385	756,94055
Vietnam	2008	0,0195453	8,648489	-21,714458	828,8819
Vietnam	2009	0,07241233	8,699998	-23,214903	932,4385
Vietnam	2010	0,11941448	8,750922	-26,78895	1049,2957
Vietnam	2011	0,16309165	8,801657	-29,582771	1148,9647
Vietnam	2012	0,20894623	8,852091	-28,324337	1289,4546
Vietnam	2013	0,26484681	8,90287	-28,76261	1378,7872
Vietnam	2014	0,33250384	8,954633	-30,758419	1548,1912
Vietnam	2015	0,40502054	9,007284	-31,60036	1713,2834
Vietnam	2016	0,47554685	9,059957	-32,26674	1887,2174
Vietnam	2017	0,54468874	9,111431	-35,32358	2037,5815
Vietnam	2018	0,61523992	9,160272	-37,016357	2203,9875
Vietnam	2019	0,6827046	9,205347	-38,23554	2374,4812
Vietnam	2020	0,7409302	9,246835	-38,057213	2435,6255
Vietnam	2021	0,7942972	9,286723	-38,057213	2511,2852
Africa	1990	-1,12247608	7,608701	-29,979813	4193,4854
Africa	1991	-1,08210604	7,669542	-26,951645	4114,2026
Africa	1992	-1,03501556	7,731636	-26,009043	4025,0706
Africa	1993	-0,97436131	7,795211	-28,053867	4108,27
Africa	1994	-0,89966835	7,859821	-26,92683	4199,179
Africa	1995	-0,81689807	7,924032	-28,021973	4243,501
Africa	1996	-0,73532595	7,98574	-30,40092	4480,1787
Africa	1997	-0,66858136	8,043227	-30,758818	4645,2856
Africa	1998	-0,62579581	8,096317	-31,73743	4479,0464
Africa	1999	-0,60064362	8,146904	-24,562819	4378,592
Africa	2000	-0,5735861	8,197715	-27,33273	4196,8867
Africa	2001	-0,52365065	8,25041	-29,838331	4161,3633
Africa	2002	-0,44816359	8,305726	-31,885347	4271,58
Africa	2003	-0,35582643	8,363525	-34,079544	4536,833
Africa	2004	-0,2622131	8,422795	-31,1114	4700,546
Africa	2005	-0,17771968	8,482014	-30,766193	4676,3223
Africa	2006	-0,10461197	8,539803	-28,16736	4780,5933
Africa	2007	-0,03980053	8,595359	-29,738518	4936,5854

Africa	2008	0,0195453	8,648489	-34,473213	4760,726
Africa	2009	0,07241233	8,699998	-30,723526	4526,021
Africa	2010	0,11941448	8,750922	-30,212925	4692,0986
Africa	2011	0,16309165	8,801657	-31,269646	4661,986
Africa	2012	0,20894623	8,852091	-25,601835	4532,8784
Africa	2013	0,26484681	8,90287	-26,728977	4427,2144
Africa	2014	0,33250384	8,954633	-28,901459	4322,344
Africa	2015	0,40502054	9,007284	-27,521515	4150,9395
Africa	2016	0,47554685	9,059957	-29,481375	4182,5684
Africa	2017	0,54468874	9,111431	-28,067272	4200,122
Africa	2018	0,61523992	9,160272	-28,19674	4133,79
Africa	2019	0,6827046	9,205347	-28,91597	4038,0767
Africa	2020	0,7409302	9,246835	-30,623135	3774,5361
Africa	2021	0,7942972	9,286723	-30,623135	3758,0657

	Year	gdp	cons	prod	t_gdp	t_cons
World	1990	457122,502	184,0745136	186,0358793	207,437037	49,63082956
World	1991	462637,192	186,9774321	187,9951849	207,33018	49,57340348
World	1992	462408,32	184,98483	184,391744	207,228356	40,55085426
World	1993	462491,135	182,4520395	183,6518348	207,152294	42,39676876
World	1994	467244,1	180,2778533	181,0807312	207,142038	42,99129906
World	1995	473727,618	177,6284504	179,1003511	207,251396	43,11346307
World	1996	483296,136	180,7022901	181,5364909	207,500149	43,96706896
World	1997	494482,23	178,6963479	178,9462454	207,8697	43,53466679
World	1998	500033,901	174,31348	176,0153836	208,348436	43,36181625
World	1999	509150	176,3330463	178,3627656	208,944305	43,4862485
World	2000	528396,636	180,3993365	183,1193822	209,650527	42,91670231
World	2001	532858,996	179,5396477	183,2866495	210,443943	44,32688364
World	2002	540184,981	181,4931614	184,0954164	211,311137	44,54110063
World	2003	553559,862	188,7956427	188,2372744	212,239838	46,2378408
World	2004	572007,815	194,3435312	193,302603	213,203481	47,28341692
World	2005	585960,778	196,0601341	192,8502911	214,156819	48,0661784
World	2006	602458,733	199,7943696	195,4693127	215,049267	49,43368312
World	2007	619140,732	201,9410494	195,0138264	215,827624	51,22139718
World	2008	623982,105	200,6134996	194,2949632	216,460826	52,08483697
World	2009	601792,838	192,8093371	186,56	216,99	52,23
World	2010	620838,754	200,3338006	192,6793962	217,491073	52,35075055
World	2011	637693,355	199,0734245	192,1192419	217,986099	52,86695455
World	2012	645348,101	199,1524561	193,4990143	218,452597	53,9075387

World	2013	653123,119	194,2415272	190,7583068	218,886978	52,87567576
World	2014	665435,642	192,1270824	188,8463283	219,294838	52,86783561
World	2015	673203,449	190,5733988	188,4778714	219,691398	52,59648988
World	2016	682384,965	184,8310769	185,9543382	220,099229	52,05878748
World	2017	695501,875	184,7402495	185,7814144	220,50744	52,54352196
World	2018	707647,689	183,910108	185,1426771	220,881607	52,14721701
World	2019	714692,127	181,9291977	183,3086193	221,191437	52,42192152
World	2020	681957,71	172,1849808	172,5153272	221,449514	52,18593896
World	2021	714163,834	172,2942758	178,3351462	221,715882	51,9209675

```
library(mFilter)
library(tvReg)
library(ggplot2)
library(tseries)
library(plm)
library(neverhpfilter)
library(dplyr)
```

```
#creating subset
```

```
Australia <- subset(data, country == "Australia")
```

```
#check
```

```
Australia
```

```
#filtre
```

```
gdp <- log(Australia$gdp_pc)
```

```
gdp_hp <- hpfilter(gdp, freq=10, type="lambda")
```

```
lprod <- log(Australia$prod)
```

```
prod_hp <- hpfilter(lprod, freq=10, type="lambda")
```

```
lcons <- log(Australia$scons)
```

```
cons_hp <- hpfilter(lcons, freq=10, type="lambda")
```

```
#cycle prod
```

```
c_gdp <- gdp_hp$cycle
```

```
c_prod <- prod_hp$cycle
```

```
reg_c_prod <- lm(c_prod ~ c_gdp - 1, data=Australia)
```

```
summary(reg_c_prod)
```

```
#ADF residuals
```

```
residuals_1 <- residuals(reg_c_prod)
```

```
adf.test(residuals_1)
```

```
#time varying estimates
```

```
fit <- tvLM(c_prod ~ c_gdp - 1, z = NULL, bw=NULL, cv.block = 0, est = c("lc"),
           tkernel = c("Triweight"), singular.ok = TRUE)
```

```
coef_df <- as.data.frame(coef(fit))
```

```
ggplot(Australia, aes(x=year, y=fit)) + geom_line(linetype="dashed", aes(y = coef_df, colour =
"red")) + geom_hline(yintercept=1.05, colour="black") + geom_ribbon(aes(ymin = fit - 1, ymax =
fit + 1), fill = "grey70")
```

```

# plotting the results for cycle and production based emissions
library(ggplot2)
ggplot(Australia, aes(year)) + geom_line(linetype="dashed", aes(y = c_prod, colour = "emissions"))
+ geom_line(aes(y = c_gdp, colour = "gdp"))

#cycle cons
c_cons <- cons_hp$cycle
reg_c_cons <- lm(c_cons~c_gdp - 1, data=Australia)
summary(reg_c_cons)

# ADF residuals
residuals_2 <- residuals(reg_c_cons)
adf.test(residuals_2)

#time varying estimates
fit <- tvLM(c_cons ~ c_gdp - 1, z = NULL, bw=NULL, cv.block = 0, est = c("lc"),
           tkernel = c("Triweight"), singular.ok = TRUE)

coef_df <- as.data.frame(coef(fit))
ggplot(Australia, aes(x=year, y=fit)) + geom_line(linetype="dashed", aes(y = coef_df, colour =
"red")) + geom_hline(yintercept=1.05, colour="black") + geom_ribbon(aes(ymin = fit - 1, ymax =
fit + 1), fill = "grey70")

# plotting the results for cycle and consumption based emissions
ggplot(Australia, aes(year)) + geom_line(linetype="dashed", aes(y = c_cons, colour = "emissions"))
+ geom_line(aes(y = c_gdp, colour = "gdp"))

#trend prod
t_prod <- prod_hp$trend
t_gdp <- gdp_hp$trend

reg_t_prod <- lm(t_prod~t_gdp, data=Australia)
summary(reg_t_prod)

#ADF for residuals
residuals_3 <- residuals(reg_t_prod)
adf.test(residuals_3)

#plotting the results for trend and production based emissions
ggplot(Australia, aes(year)) + geom_line(linetype="dashed", aes(y = t_prod, colour = "emissions"))
+ geom_line(aes(y = t_gdp, colour = "gdp"))
ggplot(Australia, aes(year)) + geom_line(linetype="dashed", aes(y = t_prod, colour = "emissions"))
ggplot(Australia, aes(year)) + geom_line(aes(y = t_gdp, colour = "gdp"))

#trend cons
t_cons <- cons_hp$trend
reg_t_cons <- lm(t_cons~t_gdp, data=Australia)
summary(reg_t_cons)

#ADF residuals

```

```

residuals <- residuals(reg)
adf.test(residuals_4)

#plotting the results for trend and consumption based emissions
ggplot(Australia, aes(year)) + geom_line(linetype="dashed", aes(y = t_cons, colour = "emissions"))
+   geom_line(aes(y = t_gdp, colour = "gdp"))

# EKC for consumption based emissions (using trend)
ggplot(data = Australia, aes(x = t_gdp, y = t_cons) +
      geom_point() +
      stat_smooth(method = "lm", formula = y ~ x + I(x^2), se = FALSE) +
      labs(title = "Environmental Kuznets Curve", x = "Log GDP per capita", y =
"Emissions"))#doesn't work

gdp2 <- t_gdp^2
ols <- lm(t_cons~t_gdp + gdp2)
plot(ols, type="l", xlab="income", ylab="emmission", main="Australia")#doesn't work

#turning point of the EKC
ekc <- lm(t_cons ~ t_gdp + I(t_gdp^2))
tp <- (-coef(ekc)[2]/2*coef(ekc)[3])
print(tp)#in log of international dollars per capita, ppp

#turning point of the EKC
ekc <- lm(t_cons ~ t_gdp + I(t_gdp^2))
tp <- (-coef(ekc)[2]/2*coef(ekc)[3])
print(tp)#in international dollars gdp per capita, ppp

#download extension_v3 for all variables, trend gdp and trend consumption are already taken
individually and in the excel file

# FE with only two variables
library(plm)
reg <- plm(t_cons ~t_gdp, data=data, effects=c("twoways"), model=c("within"))
summary(reg)

#turning point of the EKC
t_gdp_2 <- data$t_gdp^2
ekc_panel <- plm(t_cons ~ t_gdp + t_gdp_2, data=data, effects=c("twoways"), model=c("within"))
summary(ekc_panel)#check it does print 3 estimates
plot(ekc_panel, type="l")
tp <- (-coef(ekc_panel)[1]/2*coef(ekc_panel)[2])
print(tp)#in international dollars gdp per capita, ppp

plot(reg, type="l", main="Panel")

# FE with other variables
library(plm)
reg_2 <- plm(t_cons ~t_gdp + trade + energy, data=data, effects=c("twoways"), model=c("within"))
summary(reg_2)

```

```

residuals <- residuals$reg_2
library(CADFTest)
CADFTest(residuals, lag = "AIC")
cipstest(residuals)

#tester between estimator
reg <- plm(t_cons ~t_gdp + trade + energy, data=data, model=c("between"))

#FMOLS
library(cointReg)
pdata <- pdata.frame(data, index = c("country", "year"))
fmols_model <- plm(cons~ gdp_pc + energy + trade, data = data, index = c("country", "year"),
model = "pooling", effect = "twoways", lag.augment = TRUE, method = "fmols")
summary(fmols_model)

#robustness tests
library(lmtest)
bptest(ols)
dwtest(ols)
shapiro.test(ols$residuals)
reset(ols)

#Hamilton filter
install.packages("neverhpfilter")
library(neverhpfilter)
h_gdp <- yth_filter(100*log(real_gdp), h = 2, p = 3)
h_ghg <- yth_filter(100*log(ghg), h = 2, p = 3)
plot.xts(h_gdp, grid.col = "white", legend.loc = "topleft", main = "plot")

#DOLS
library(cointReg)
dols_model <- cointRegD(data$t_gdp, data$t_cons, info.crit=c("AIC"))
summary(dols_model,correction="nw")

```

Handout for Thesis Defense

DRAFT

Thesis: *Emissions-output decoupling: evidence from long run and short run elasticities*

(1) Importance. *Explain in simple terms your topic's importance.*

The price elasticity of gasoline demand is important for at least two reasons:

- Climate change and environmental degradation are considered the biggest challenges of our times, centering on the question as to whether or not infinite growth can be sustained.
- There is mitigated evidence on whether or not emissions-output decoupling is feasible.

(2) Problem formulation. *Clearly formulate your hypotheses. Please be brief.*

There are many estimates of emissions-output elasticities to measure decoupling. However the various methods and scopes do not provide strong evidence of decoupling.

- There is a wide variety of studies on the Environmental Kuznets Curve but evidence is mitigated.
- Some studies estimate the cyclicity of emissions and find strong procyclicality of emissions. Thus measures of decoupling do not account for short term variations in the data due to business cycle changes.
- Cohen et al. (2017, 2018) propose a framework that accounts for long term structural changes and short term changes due to business cycle fluctuations to estimate emissions-output elasticities and thus decoupling.

(3) Methodology & Data. *Describe simply the method used and explain why it is the best approach. Please be brief.* •

Data for real GDP per capita is taken from the IMF WEO and data for CO2 emissions (production and

consumption based) per capita is taken from <https://ourworldindata.org> for the top 23 emitters in the world. •

The Hodrick-Prescott filter is used to extract trend and cycle components from GDP and CO2 emissions. Using OLS, cycle elasticities and trend elasticities of emissions and income are estimated for both consumption and production based emissions.

• The dataset is also used for panel data estimation (using fixed effects) and variables are aggregated to create a world time series.

• The Environmental Kuznets Curve is tested for individual countries, panel data and aggregated variables.

(4) Contribution. *Stress your original contribution. This is the most important part!*

- The thesis improves on the previously published studies by Cohen et al. (2017, 2018, 2022). It enlarges their dataset, uses the most recent data and CO2 emissions.
- It estimates world level and panel data level trend elasticities as well as Environmental Kuznets Curves using trend elasticities.

(5) Response to Comments from Reviewers. *Prepare careful answers to all comments raised in the reports. This may take quite a lot of time at the defense.*

- *TBD when reports are available.*