	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]
_		Boundaries:	Reunified Ger	many (pre-199	1 evolution bas	sed on growth r	ates in the bo	undaries of the	e time, and spe	ecific adjustment	s made for bo	order change)	
	Populati	on and rea growth	l income	Population and real income levels					Real per capita income growth			Memo: effect of territorial change	
-	Population growth	Memo: Population growth, Maddison	Real national income growth 1+g _t = Y _t /Y _t	Population (thousands)	Adult population (thousands)	Employed population (thousands)	Real national income Y _t	Real per capita national income	Real per capita national income growth	Memo: real per capita income growth, Barro- Ursua	Memo: real per capita income growth, Maddison	Real income loss/gain caused by frontier changes (% Y _t)	Populatic loss/gair caused b frontier changes
_			1		10.500	10 777							
	0.5%	0.6%	0.1%	29,360 29,513	16,593 16,679	12,757 12,481	70.3 70.4	2,395 2,386	-0.4%	0.5%	-1.2%	4.0%	4.0%
	0.5% 0.8%	0.6% 0.8%	10.6% 2.4%	29,650 29,900	16,807 16,999	12,716 12,951	77.9 79.7	2,626 2,666	10.1% 1.5%	1.7% 1.6%	6.3% 3.5%	0.0% 0.0%	0.0% 0.0%
	1.1%	1.1%	8.3%	30,224	17,235	13,186	86.3	2,856	7.1%	1.0%	6.3%	0.0%	0.0%
	1.3% 1.3%	1.1% 1.5%	-1.3% -1.0%	30,604 30,998	17,503 17,781	13,421 13,600	85.2 84.4	2,785 2,722	-2.5% -2.3%	2.9% 0.0%	-0.5% -2.0%	0.0% 0.0%	0.0% 0.0%
	1.3%	1.3%	-0.6%	31,394	18,062	13,756	83.9	2,671	-1.8%	-0.4%	-1.8%	0.0%	0.0%
	1.2%	1.2%	5.3%	31,768	18,331	13,878	88.3	2,779	4.0%	3.1%	3.5%	0.0%	0.0%
-	_1 <u>.2%</u>	- <u>1.2%</u> - 1.0% -	<u>-2.8%</u> -2.9%	<u>32,136</u> 32,463	18,598 18,842	1 <u>4,077</u> 14,138	<u>85.8</u> _	2, <u>671</u> 2,567	<u>-3.9%</u> -3.9%	- <u>1.1%</u>	_ <u>-3.5%</u> _	$-\frac{0.0\%}{0.0\%}$ -	0 <u>.0%</u>
	0.7%	0.8%	4.2%	32,703	18,977	14,215	86.8	2,656	3.4%	3.0%	1.7%	0.0%	0.0%
	0.6%	0.7%	0.2%	32,912	19,094	14,368	87.0	2,644	-0.4%	0.9%	0.9%	0.0%	0.0%
	0.6% 0.7%	0.7% 0.8%	5.8% 4.0%	33,126 33,357	19,213 19,342	14,534 14,708	92.1 95.8	2,780 2,870	5.1% 3.3%	3.5% 3.9%	4.8% 1.6%	0.0% 0.0%	0.0% 0.0%
	0.8%	0.7%	3.2%	33,624	19,492	14,814	98.8	2,938	2.4%	2.5%	1.7%	0.0%	0.0%
	0.9% 1.1%	0.9% 1.1%	1.7% 1.2%	33,931 34,288	19,674 19,885	15,099 15,309	100.5 101.7	2,962 2,966	0.8% 0.1%	1.6% 1.5%	-0.2% 2.9%	0.0% 0.0%	0.0% 0.0%
	1.1%	1.1%	1.2%	34,288 34,676	20,113	15,309	101.7	2,966 3,088	4.1%	1.5%	2.9% 2.9%	0.0%	0.0%
_	_1.1%	1.2%	4.3%	35,072	20,347	_15,903 _	111.6	3,183	3.1%	0.6%	1.6%	0.0%	0.0%
	1.1%	1.1% 1.1%	3.6% -3.9%	35,448 35,825	20,570 20,811	16,106 16,187	115.6 111.1	3,261 3,102	2.5% -4.9%	0.5% -0.5%	2.0% -1.3%	0.0% 0.0%	0.0% 0.0%
	1.1%	1.1%	-3.9% 6.0%	35,825	20,811 21,045	16,187	117.8	3,102	-4.9% 4.9%	-0.5%	-1.3% 3.0%	0.0%	0.0%
	1.0%	1.0%	7.6%	36,541	21,273	16,369	126.7	3,468	6.5%	6.2%	3.9%	0.0%	0.0%
	1.1% 1.3%	1.2% 1.3%	0.3% 4.3%	36,961 37,436	21,541 21,842	16,609 16,850	127.1 132.6	3,439 3,541	-0.8% 3.0%	2.1% 1.5%	1.3% 3.4%	0.0% 0.0%	0.0% 0.0%
	1.4%	1.5%	4.3% 5.2%	37,430	21,042	17,200	132.0	3,672	3.7%	2.2%	2.0%	0.0%	0.0%
	1.5%	1.6%	3.9%	38,565	22,549	17,487	144.9	3,756	2.3%	1.4%	1.3%	0.0%	0.0%
	1.6% 1.5%	1.6% 1.6%	7.3% -1.5%	39,168 39,774	22,927 23,306	17,796 18,057	155.4 153.0	3,967 3,847	5.6% -3.0%	3.9% -1.6%	2.6% 2.0%	0.0% 0.0%	0.0% 0.0%
-	1.4%	1.5%	-1.1%	40,349	23,669	18,392	151.3	3,750	-2.5%	-0.1%	2.7%	0.0%	0.0%
	1.5%	1.5%	-0.7%	40,945	23,943	18,442	150.2	3,668	-2.2%	-0.7%	-3.8%	0.0%	0.0%
	1.6% 1.5%	1.6% 1.5%	1.4% 6.9%	41,587 42,208	24,242 24,526	18,624 18,969	152.3 162.8	3,662 3,857	-0.2% 5.3%	0.5% 2.4%	0.8% 4.0%	0.0% 0.0%	0.0% 0.0%
	1.4%	1.5%	4.4%	42,817	24,801	19,318	170.0	3,969	2.9%	2.2%	2.5%	0.0%	0.0%
	1.4% 1.4%	1.4% 1.4%	4.5% -0.7%	43,421	25,070 25,338	19,597	177.6 176.5	4,091	3.1% -2.0%	3.3% -1.1%	0.7% 1.5%	0.0% 0.0%	0.0% 0.0%
	1.4% 1.4%	1.4% 1.4%	-0.7% 5.8%	44,025 44,644	25,338 25,612	19,966 20,277	176.5 186.8	4,009 4,183	-2.0% 4.4%	-1.1% 2.0%	1.5% 2.9%	0.0%	0.0%
	1.4%	1.4%	-0.5%	45,256	25,879	20,410	185.8	4,106	-1.9%	3.2%	0.3%	0.0%	0.0%
-	1 <u>.4%</u>	_ <u>_1.4%</u>	<u>2.8%</u> -0.7%	45,871 46,484	_26,146_ 26,410	<u>20,706</u> 21,180	1 <u>91.0</u> 	4, <u>165</u> 4,082	<u>1.4%</u> -2.0%	- <u>-0.1%</u>	$-\frac{0.6\%}{2.2\%}$ -	$-\frac{0.0\%}{0.0\%}$ -	0 <u>.0%</u> 0.0%
	1.3%	1.4%	-0.7% 5.5%	46,484 47,053	26,410 26,733	21,180 21,622	200.1	4,082 4,253	-2.0%	0.4% 3.0%	2.2% 1.8%	0.0%	0.0%
	1.2%	0.9%	4.6%	47,620	27,055	21,993	209.4	4,397	3.4%	1.5%	3.4%	0.0%	0.0%
	1.3% 1.2%	0.9% 1.6%	0.8% -7.7%	48,219 48,803	27,395 28,006	22,294	211.0 194.9	4,377 3,993	-0.4% -8.8%	3.5% -7.6%	3.5% -16.1%	0.0% 0.0%	0.0% 0.0%
	0.1%	0.2%	-8.1%	48,803	28,322		179.0	3,663	-8.3%	-13.0%	-5.2%	0.0%	0.0%
	-0.2%	-0.2%	-4.6%	48,749	28,530		170.7	3,502	-4.4%	-1.0%	1.2%	0.0%	0.0%
	-0.5% -0.8%	-0.5% -0.8%	-2.4% -2.7%	48,499 48,098	28,660 28,697		166.6 162.2	3,435 3,371	-1.9% -1.9%	-14.3% -1.9%	0.6% 1.1%	0.0% 0.0%	0.0% 0.0%
_	_0.6%_	0.6%	-5.0%	48,375	_29,138_		_154.1_	3,185	5.5%		13.3%_	6.4%	6.4
-	0.6% 1.1%	0.6%	15.9%	48,653	29,582		178.5	3,669	15.2%	11.3%	8.1%	-3.4%	-3.4
	1.1% 0.8%	1.1% 0.5%	6.0% 7.6%	49,196 49,609	30,193 30,729		189.3 203.7	3,848 4,107	4.9% 6.7%	4.9% 5.4%	10.1% 8.2%	0.0% -1.5%	0.0% -1.5%
	0.7%	0.7%	-13.0%	49,935	31,216		177.2	3,548	-13.6%	-13.7%	-17.5%	0.0%	0.0%
	0.6%	0.6% 0.7%	11.4% 8.8%	50,250 50,495	31,699 32 141	25 109	197.4 214.7	3,929	10.7% 8.2%	10.8% 6.5%	16.3% 10.4%	0.0% 0.0%	0.0% 0.0%
	0.5% 0.7%	0.7%	8.8% 0.7%	50,495 50,864	32,141 32,723	25,108 24,153	214.7 216.3	4,253 4,252	8.2% 0.0%	0.6%	10.4% 2.1%	0.0%	0.0%
	0.6%	0.6%	10.2%	51,177	33,274	25,861	238.3	4,656	9.5%	9.6%	9.3%	0.0%	0.0%
	0.6% 0.5%	0.6% 0.5%	3.3% -2.1%	51,472 51,747	33,817 34,351	26,320 26,106	246.2 241.1	4,783 <u>4,659</u>	2.7% -2.6%	2.7% 2. <u>1%</u>	3.8% -0.9%	0.0% 0.0%	0.0% 0.0%
-	0.5%	0.5%	-7.7%	52,020	34,887	24,663	222.6	4,279	-8.2%	-7.2%	-1.9%	0.0%	0.0%
	0.5%	0.5%	-13.1%	52,292	35,426	22,747	193.4	3,698	-13.6%	-13.3%	-8.1%	0.0%	0.0%
	0.4% 0.5%	0.4% 0.5%	-8.8% 7.8%	52,519 52,772	35,939 36,472	21,128 21,592	176.4 190.1	3,359 3,603	-9.2% 7.3%	-8.6% 7.2%	-7.9% 5.8%	0.0% 0.0%	0.0% 0.0%
	0.0%	0.6%	12.8%	52,787	36,488	23,310	214.5	4,063	12.8%	9.6%	8.5%	0.0%	0.0%
	0.7% 0.7%	0.7% 0.7%	10.4% 11.9%	53,156 53,536	36,749 37,018	23,916 24,967	236.8 264.9	4,454 4,948	9.6% 11.1%	11.5% 10.7%	6.8% 8.0%	1.8% 0.0%	1.8% 0.0%
	0.7%	0.7%	11.9%	53,919	37,018	26,025	204.9	4,940 5,485	10.9%	10.7%	5.3%	0.0%	0.0%
	1.1%	1.1%	9.1%	54,497	37,694		322.6	5,920	7.9%	8.4%	6.6%	10.0%	10.0
_	1 <u>.1%_</u> 0.8%	- <u>_1.1%</u> 0.8%	4.2% 3.6%	55,076 55,512	38,101 38,409		3 <u>36.3</u> 348.4	6, <u>106</u> 6,276	<u>3.1%</u> 2.8%	<u>17.7%</u> 15.3%	- <u>8.3%</u> -	1 <u>4.1%</u> 12.1% _	<u>14.19</u> 12.19
	0.6%	0.6%	14.2%	55,862	38,657		398.0	7,125	13.5%	13.6%	5.7%	0.0%	0.0%
	0.2%	0.8%	5.7%	55,980	38,745		420.5	7,512	5.4%	4.8%	0.5%	0.0%	0.0%
	0.0% 0.0%	-0.6% -0.8%	6.4% -8.5%	55,980 55,980	38,751 38,757		447.4 409.4	7,992 7,313	6.4% -8.5%	7.0% -7.7%	2.6% 3.3%	0.0% 0.0%	0.0% 0.0%
	2.7%	2.7%	-55.1%	57,502	39,817		184.0	3,200	-56.2%	-66.1%	-25.8%	-37.9%	-37.9
	2.6%	2.6%	-13.6%	59,023	40,876		159.0	2,694	-15.8%	-15.8%	-50.9%	0.0%	0.0%
	2.0% 2.7%	2.2% 1.8%	18.4% 18.8%	60,218 61,832	41,711 42,836		188.3 223.7	3,127 3,618	16.1% 15.7%	16.2% 17.0%	9.9% 16.3%	0.0% 0.0%	0.0% 0.0%
	L.1 /0	1.0%	10.070	62,526	-2,000		268.8	0,010	18.8%	17.070	10.0/0	0.070	0.09

I	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]
		Boundaries:	Reunified Ger	many (pre-199	ny (pre-1991 evolution based on growth rates in the boundaries of the					ecific adjustment	rder change)		
	Populati	on and rea growth	l income	Population and real income levels					Real per capita income growth			Memo: effect of territorial change	
	Population growth	Memo: Population growth, Maddison	Real national income growth 1+g _t = Y _t /Y _t	Population (thousands)	Adult population (thousands)	Employed population (thousands)	Real national income Y _t	Real per capita national income	Real per capita national income growth	Memo: real per capita income growth, Barro- Ursua	Memo: real per capita income growth, Maddison	Real income loss/gain caused by frontier changes (% Y;)	Population loss/gain caused by frontier changes
	1							0 euros					
1951 1952 1953 1954 1955 1956	0.9% 0.9% 1.0% 1.0% 0.4%	0.7% 0.4% 0.6% 0.5% 0.5% 0.6%	9.8% 9.2% 9.1% 7.4% 12.3% 7.4%	64,325 64,894 65,534 66,212 66,881 67,130	44,841 45,374 45,959 46,574 47,184 47,501	26,735 27,309 28,043 28,838 29,941 30,811	331.7 362.2 395.1 424.4 476.5 512.0	5,157 5,581 6,028 6,410 7,125 7,627	8.8% 8.2% 8.0% 6.3% 11.2% 7.1%	8.6% 8.5% 7.8% 6.6% 10.9% 6.4%	8.4% 8.2% 7.7% 7.0% 10.5% 6.5%	0.0% 0.0% 0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.0% 0.0%
1957 1958	0.5% 1.3%	0.6% 0.7%	5.6% 3.9%	67,473 68,340	47,886 48,644	31,515 31,797	540.9 562.1	8,017 8,225	5.1% 2.6%	4.6% 3.1%	5.1% 3.8%	0.0% 0.0%	0.0% 0.0%
<u>1959</u>	1 <u>.1%</u>	- <u>0.7%</u> 0.6%	<u>7.6%</u>	69,089 69,868	_4 <u>9,323</u> _ 50,025	<u>32,164</u> 32,734	<u>604.9</u> 657.4	<u>8,755</u> 9,410	<u>6.4%</u> 7.5%	- <u>6.6%</u> -	- <u>6.5%</u> -	$-\frac{0.0\%}{0.0\%}$ -	0 <u>.0%</u>
1961 1962	1.2% 1.1%	0.9% 0.8%	4.0% 4.1%	70,704 71,514	50,532 51,018	33,196 33,318	683.7 711.6	9,669 9,950	2.8% 2.9%	3.1% 3.4%	3.2% 3.4%	0.0% 0.0%	0.0% 0.0%
1963	1.1%	0.8%	2.2%	72,315	51,496	33,403	727.3	10,058	1.1%	1.8%	2.0%	0.0%	0.0%
1964 1965	1.2% 1.2%	0.8% 0.9%	6.4% 5.1%	73,157 74,057	52,000 52,543	33,438 33,633	774.0 813.4	10,580 10,984	5.2% 3.8%	5.6% 4.2%	5.2% 4.1%	0.0% 0.0%	0.0% 0.0%
1966 1967	1.0% 0.5%	0.8% 0.2%	2.4% -0.8%	74,814 75,224	52,983 53,176	33,532 32,439	832.7 826.1	11,130 10,981	1.3% -1.3%	1.9% -0.5%	2.2% 0.1%	0.0% 0.0%	0.0% 0.0%
1968 1969	0.6% 1.0%	0.3% 0.7%	5.8% 7.9%	75,645 76,428	53,375 53,828	32,470 32,983	874.3 943.3	11,558 12,342	5.3% 6.8%	5.2% 6.4%	5.0% 5.8%	0.0% 0.0%	0.0% 0.0%
1970 1971	0.4%	0.8%	4.7%	76,766 76,959	53,966 54,356	33,407 33,559	988.0 1,013.6	12,870 13,170	4.3%	4.1%	- 3.8% 2.2%	0.0%	0.0%
1972	0.7%	0.5%	4.0%	77,467	54,970	33,744	1,054.1	13,607	3.3%	3.6%	3.6%	0.0%	0.0%
1973 1974	0.5% 0.1%	0.3% 0.0%	4.8% 0.3%	77,843 77,957	55,494 55,833	34,151 33,828	1,105.1 1,108.9	14,197 14,224	4.3% 0.2%	4.4% 0.1%	4.2% 0.8%	0.0% 0.0%	0.0% 0.0%
1975 1976	-0.4% -0.4%	-0.4% -0.5%	-1.2% 5.3%	77,671 77,325	55,884 55,891	32,979 32,842	1,095.4 1,153.1	14,103 14,912	-0.9% 5.7%	-1.0% 5.9%	-0.2% 5.3%	0.0% 0.0%	0.0% 0.0%
1977	-0.2% -0.1%	-0.2%	3.1%	77,142	56,013	32,916	1,189.4	15,419	3.4%	3.1%	3.1%	0.0%	0.0%
1978 <u>1979</u>	0.1%	-0.1% 0. <u>0%</u>	3.2% <u>3.7%</u>	77,066 77,121	56,212 56,506	33,242 _3 <u>3,884</u>	1,228.0 <u>1,272.9</u>	15,934 <u>16,505</u>	3.3% 3. <u>6%</u>	3.1% <u>4.0%</u>	2.9% <u>4.0%</u>	0.0% 0.0%	0.0% <u>0.0%</u>
1980 1981	0.3% 0.2%	0.3% 0.1%	0.8% -0.3%	77,332 77,504	56,916 57,477	34,452 34,493	1,283.6 1,280.2	16,599 16,519	0.6% -0.5%	0.7% -0.1%	0.9% 0.2%	0.0% 0.0%	0.0% 0.0%
1982 1983	-0.1% -0.3%	-0.1% -0.3%	-0.9% 1.8%	77,434 77,178	57,858 58,100	34,227 33,915	1,268.9 1,292.3	16,387 16,744	-0.8% 2.2%	-0.9% 2.1%	-0.8% 2.1%	0.0% 0.0%	0.0% 0.0%
1984	-0.4%	-0.3%	3.2%	76,866	58,295	34,208	1,333.4	17,347	3.6%	3.2%	3.2%	0.0%	0.0%
1985 1986	-0.2% 0.1%	-0.2% 0.0%	2.4% 2.2%	76,687 76,744	58,589 59,062	34,688 35,354	1,365.0 1,395.2	17,800 18,180	2.6% 2.1%	2.3% 2.3%	2.4% 2.2%	0.0% 0.0%	0.0% 0.0%
1987 1988	0.2% 0.5%	0.0% 0.4%	1.1% 4.4%	76,881 77,242	59,598 60,310	35,847 36,358	1,410.0 1,472.7	18,340 19,066	0.9% 4.0%	1.5% 3.1%	1.5% 2.9%	0.0% 0.0%	0.0% 0.0%
1989	1.2%	0. <u>8%</u>	4.2%	_ 78,147_	61,455	_37,040 _	1,533.9	19,628	2.9%	2.6%	2.5%	_ 0.0% _	_0.0%_
1990 1991	1.6% 0.8%	0.9% 0.8%	5.3% 5.1%	79,410 80,014	62,893 62,651	38,207 38,712	1,615.7 1,698.2	20,347 21,224	3.7% 4.3%	3.3% 4.1%	-3.8% 4.5%	0.0% 8.1%	0.0% 25.6%
1992 1993	0.8% 0.7%	0.8% 0.7%	1.5% -1.8%	80,625 81,156	63,169 63,627	38,183 37,695	1,724.3 1,693.9	21,386 20,872	0.8%	1.5% -1.5%	1.4% -1.5%	0.0% 0.0%	0.0% 0.0%
1994 1995	0.3% 0.3%	0.3% 0.3%	1.8% 1.4%	81,438 81,678	63,888 64,117	37,667 37,802	1,724.2 1,748.0	21,171 21,401	1.4% 1.1%	2.3% 1.6%	2.3% 1.6%	0.0% 0.0%	0.0% 0.0%
1996	0.3%	0.3%	0.9%	81,915	64,321	37,772	1,763.9	21,533	0.6%	0.7%	0.7%	0.0%	0.0%
1997 1998	0.1% 0.0%	0.1% 0.0%	1.4% 1.5%	82,035 82,047	64,434 64,461	37,716 38,148	1,789.4 1,816.6	21,813 22,140	1.3% 1.5%	1.7% 2.0%	1.7% 1.8%	0.0% 0.0%	0.0% 0.0%
<u>1999</u>	0 <u>.1%_</u> _ 0.1%	- <u>0.1%</u> 0.1%	<u>1.7%</u> 2.9%	82,100 82,212	64,584 64,865	38,721 39,382	<u>1,847.8</u> 1,901.6	- <u>22,506</u> 23,130	<u>1.7%</u> <u>2.8%</u>	- <u>1.9%</u> -	- <u>1.9%</u> - <u>3.1%</u> -	$-\frac{0.0\%}{0.0\%}$ -	
2001 2002	0.2% 0.2%	0.1% 0.1%	1.3% -0.3%	82,350 82,488	65,139 65,413	39,485 39,257	1,927.2 1,921.5	23,403 23,294	1.2%	1.1% -0.1%	1.1% -0.1%	0.0%	0.0%
2003	0.1%	0.1%	0.2%	82,534	65,615	38,918	1,926.2	23,339	0.2%	-0.2%	-0.3%	0.0%	0.0%
2004 2005	0.0% -0.1%	0.0% 0.0%	3.3% 1.0%	82,516 82,469	65,765 65,976	39,034 38,976	1,990.1 2,009.3	24,117 24,364	3.3% 1.0%	1.2% 0.9%	1.0% 0.7%	0.0% 0.0%	0.0% 0.0%
2006 2007	-0.1% -0.1%	0.0% 0.0%	5.1% 2.9%	82,376 82,266	66,161 66,307	39,192 39,857	2,111.0 2,172.3	25,626 26,406	5.2% 3.0%	2.8% 2.6%	3.2% 2.5%	0.0% 0.0%	0.0% 0.0%
2008	-0.2%	0.0%	0.2%	82,110	66,471	40,345	2,177.4	26,518	0.4%	1.5%	1.2%	0.0%	0.0%
_ <u>2009</u>	-0.3 <u>%</u> -0.2%	-0.2%	<u>-5.2%</u> 4.0%	81,902 81,777	66,505 66,691	_40,362 40,553 —	2,063.6 2,146.1	<u>25,196</u> 26,243	<u>-5.0%</u> 4.2%	<u></u>	$-\frac{-5.0\%}{4.2\%}-$	$-\frac{0.0\%}{0.0\%}$ -	- <u>0.0%</u> -
2011	0.0%		3.1%	81,777	66,691	41,078	2,211.5	27,043	3.1%			0.0%	0.0%