

Explosive City Growth in the Modern World-System**Demographic Change for All Initial Roster Cities (% Change Per Annum)**

1500- 1550	1550- 1600	1600	1600- 1650	1650- 1700	1700	1700- 1750	1750- 1800	1800	1800- 1850	1850- 1900	1900	1900- 1950	1950- 2007	2007
2.00%	3.00%	London	-1.04%	7.17%	Berlin	x	7.60%	Lucknow		120.64%	Chicago	11.00%	69.98%	Lagos
-0.36%	2.67%	Rome	4.80%	5.06%	Dublin	2.00%	5.78%	Manchester	2.35%	19.78%	Buenos Aires	7.00%	52.83%	Dacca
2.29%	2.33%	Amsterdam	0.00%	4.09%	Copenhagen	5.33%	5.09%	Liverpool	2.06%	14.89%	Leipzig		43.78%	Khartoum
0.00%	2.29%	Haarlem	0.40%	1.80%	Vienna	1.69%	4.42%	Glasgow		14.29%	Pittsburgh		41.32%	Kinshasa
-0.29%	2.17%	Leiden	-0.67%	1.20%	Seville	x	4.05%	St Petersburg	18.48%	11.15%	New York		33.54%	Phoenix
-1.20%	2.00%	Bordeaux	2.62%	1.20%	Rotterdam	4.86%	3.75%	Birmingham	3.19%	10.14%	Berlin	1.41%	29.43%	Surat
	1.57%	Cuenca	2.00%	0.88%	London	x	3.67%	Patna	4.11%	9.18%	Newcastle	6.54%	28.84%	Fortaleza
	1.52%	Vicenza	0.42%	0.75%	Lille	1.07%	3.48%	Warsaw	1.18%	9.13%	Dresden		28.53%	Chittagong
-0.62%	1.48%	Milan	1.75%	0.59%	Lyon	0.33%	2.60%	Barcelona	9.94%	8.29%	Boston		28.09%	Belo Horizonte
	1.43%	Torino		0.57%	Liege	x	2.00%	Madras	3.78%	8.06%	Budapest	10.62%	27.13%	Delhi
0.60%	1.38%	Paris	0.60%	0.54%	Lisbon	x	2.00%	Ujjain	1.32%	7.23%	Hamburg	14.67%	26.13%	Karachi
-0.13%	1.33%	Toledo	0.00%	0.50%	Bordeaux	1.00%	1.73%	Dublin	5.55%	6.96%	Rio de Janeiro		24.94%	Shantou
0.55%	1.00%	Palermo	-0.33%	0.48%	Milan	x	1.64%	Bombay	2.35%	6.88%	Warsaw	13.90%	24.73%	Seoul
	1.00%	Jerez	-0.75%	0.45%	Naples	x	1.40%	Moscow	2.79%	6.68%	Munich	9.25%	24.37%	Taipei
	0.78%	Zaragoza	1.91%	0.37%	Paris	1.27%	1.33%	Berlin	6.28%	6.49%	Birmingham	8.91%	23.25%	Bogotá
3.20%	0.77%	Seville	0.76%	0.32%	Brussels	-0.02%	1.06%	Madrid	1.04%	6.10%	Prague		22.02%	Ankara
2.14%	0.76%	Hamburg	-0.27%	0.30%	Venice	x	0.95%	Calcutta	1.69%	5.97%	Vienna	8.15%	22.00%	Medellín
0.44%	0.73%	Cordova	3.38%	0.29%	Amsterdam	-0.63%	0.91%	Seville	xx	5.18%	Tianjin	4.00%	21.49%	Lahore
	0.67%	Marseille	1.30%	0.27%	Marseille	0.85%	0.88%	Edinburgh	8.17%	4.97%	Manchester	3.37%	20.84%	Rawalpindi
0.83%	0.65%	Naples		0.25%	Stockholm	0.71%	0.88%	Torino	0.70%	4.84%	Copenhagen	4.11%	20.79%	Kabul
0.63%	0.64%	Parma	0.36%	0.23%	Rome	x	0.86%	Benares	xx	4.69%	Shanghai		20.08%	Izmir
0.71%	0.63%	Nantes	0.97%	0.22%	Ghent	1.60%	0.84%	Bristol	10.53%	4.66%	Philadelphia	11.19%	19.71%	Tehran
	0.56%	Bergamo	-0.13%	0.14%	Bologna	x	0.82%	Surat	0.96%	4.61%	Barcelona		19.51%	Miami
	0.55%	Segovia	0.00%	0.06%	Florence	0.82%	0.80%	Naples	xx	4.06%	Osaka	8.74%	19.32%	Monterrey
1.14%	0.55%	Catania	0.98%	0.00%	Antwerp	0.14%	0.67%	Hamburg	11.00%	4.01%	Baltimore	22.48%	19.24%	Dallas
0.29%	0.50%	Brussels	0.05%	-0.05%	Barcelona	1.07%	0.64%	Vienna	1.01%	4.01%	Moscow	5.47%	18.95%	Guadalajara

	0.50%	Salamanca	-0.40%	-0.08%	Valencia	0.68%	0.63%	Bordeaux	6.21%	3.88%	Glasgow	0.30%	18.25%	Istanbul
1.47%	0.46%	Lecce	1.75%	-0.13%	Hamburg	1.03%	0.61%	Prague	2.56%	3.73%	St Petersburg	8.27%	17.89%	Porto Alegre
0.41%	0.46%	Barcelona	0.54%	-0.22%	Genoa	0.71%	0.60%	Nantes	3.39%	3.59%	London	12.74%	17.79%	Manila
	0.44%	Piacenza	3.31%	-0.31%	Madrid	2.64%	0.59%	Cork	0.98%	3.40%	Milan	9.27%	17.28%	Atlanta
0.24%	0.36%	Lille	3.36%	-0.36%	Leiden	0.35%	0.56%	London	4.36%	3.34%	Brussels	5.99%	17.18%	Baghdad
-0.29%	0.33%	Florence	0.73%	-0.44%	Rouen	0.67%	0.50%	Stockholm	3.10%	3.25%	Calcutta	1.58%	16.95%	Jaipur
0.33%	0.29%	Cologne	0.46%	-0.45%	Palermo	-0.50%	0.47%	Brussels	2.80%	3.07%	Paris		16.92%	Cali
0.37%	0.25%	Padua	0.80%	-0.57%	Danzig	-0.21%	0.43%	Lisbon	0.37%	2.99%	Madrid		16.90%	Kaohsiung
0.17%	0.18%	Genoa			Granada	0.09%	0.42%	Rouen	2.00%	2.62%	Lyon	23.25%	16.49%	Jakarta
-0.30%	0.18%	Cremona				0.36%	0.36%	Palermo	0.77%	2.61%	Cairo		16.37%	Taiyuan
2.50%	0.13%	Augsburg				3.22%	0.33%	Cadiz	0.31%	2.53%	Amsterdam	7.01%	16.03%	Bangalore
-0.33%	0.05%	Brescia				-0.19%	0.29%	Marseille	9.18%	2.42%	Liverpool	3.97%	15.88%	Poona
4.53%	0.04%	Lisbon				0.06%	0.19%	Florence	xx	1.84%	Tokyo	4.14%	15.69%	Algiers
0.25%	0.03%	Bologna				0.00%	0.18%	Milan	3.64%	1.26%	Madras	3.12%	15.47%	Guangzhou
1.27%	0.00%	Madrid				0.66%	0.17%	Copenhagen	-0.08%	0.73%	Naples		15.46%	Medan
0.22%	0.00%	Nuremberg				x	0.12%	Dacca	6.21%	0.71%	Bombay		15.32%	Tel Aviv-Jaffa
2.44%	0.00%	Magdeburg				x	0.11%	Murishidabad	xx	0.58%	Beijing	16.57%	14.98%	Addis Ababa
0.50%	0.00%	Utrecht				0.18%	0.09%	Genoa	0.75%	0.29%	Istanbul	16.64%	14.47%	Sao Paulo
	0.00%	Lucca				0.26%	0.09%	Rome	xx	-0.66%	Guangzhou		14.36%	Pyongyang
0.74%	-0.12%	Verona				0.10%	0.07%	Amsterdam			Ruhr	13.13%	13.93%	Lima
1.25%	-0.15%	Rouen				0.26%	0.02%	Paris			St Louis		13.81%	Bangkok
0.08%	-0.16%	Lübeck				x	0.00%	Hyderabad			Melbourne	2.06%	13.43%	Damascus
	-0.22%	Valladolid				x	-0.05%	Adrianople			Sydney		13.02%	Chengdu
1.16%	-0.24%	Venice				x	-0.13%	Delhi				1.82%	12.64%	Ibadan
0.71%	-0.37%	Mantua				0.16%	-0.15%	Venice					12.55%	Daegu
	-0.43%	Ferrara				x	-0.18%	Istanbul				29.82%	12.53%	Houston
0.33%	-0.46%	Bruges				x	-0.24%	Ahmedabad				4.87%	12.39%	Bombay
0.50%	-0.76%	Ghent				0.35%	-0.25%	Lyon				5.92%	12.30%	Nagoya
0.80%	-0.86%	Lyon						Baroda				3.57%	12.06%	Aleppo
2.50%	-0.96%	Antwerp						Valencia				3.24%	11.99%	Rangoon
		Granada											11.95%	Fuzhou
		Valencia										13.61%	11.93%	Mexico City
		Messina											11.73%	Kunming
		Vienna											11.68%	Durban

Edinburgh			0.95%	11.56%	Hangzhou
Strasbourg				11.44%	Wuhan
Angers			6.38%	11.32%	Ahmedabad
Berlin			11.64%	10.84%	Busan
La Rochelle			22.06%	10.55%	San Juan
Palma			14.90%	10.52%	Caracas
			5.10%	10.37%	Recife
				10.23%	San Diego
			2.83%	9.91%	Hyderabad
			7.24%	9.44%	Washington
			1.69%	9.30%	Beijing
			12.59%	9.28%	Seattle
			4.86%	9.21%	Nagpur
			5.67%	9.15%	Singapore
				9.05%	Jinan
				8.82%	Casablanca
			5.64%	8.80%	Cape Town
			8.63%	8.67%	Shenyang
				8.56%	Chongqing
			7.24%	8.52%	Cairo
			1.63%	8.46%	Lucknow
			3.37%	8.40%	Madras
				8.06%	Harbin
			7.46%	7.92%	Toronto
			5.46%	7.88%	Denver
				7.50%	Changchun
				7.34%	Kanpur
			2.60%	7.27%	Stuttgart
			15.37%	7.25%	Johannesburg
				6.70%	Dairen
			7.35%	6.67%	Tokyo
			5.18%	6.66%	Osaka
			6.62%	6.46%	Santiago
			5.01%	6.38%	Alexandria

			12.12%	6.21%	Ho Chi Minh City
				6.20%	Bandung
			72.50%	6.17%	Los Angeles
			5.56%	6.11%	Nanjing
			3.13%	6.06%	Tianjin
			5.70%	5.77%	Rio de Janeiro
			3.33%	5.54%	Kiev
			8.27%	5.15%	Surabaya
			3.67%	5.08%	Madrid
			6.82%	4.81%	San Francisco
			3.38%	4.30%	Minneapolis
			19.88%	4.18%	Hong Kong
			2.82%	4.11%	Lisbon
			6.85%	3.98%	Calcutta
			10.60%	3.98%	Athens
			15.47%	3.92%	Shanghai
			5.64%	3.54%	Montreal
				3.39%	Barcelona
			3.57%	3.12%	Melbourne
			10.41%	3.02%	Buenos Aires
			7.11%	2.89%	Moscow
			4.84%	2.86%	Sydney
			2.30%	2.74%	Naples
			2.15%	2.69%	Boston
			3.70%	2.66%	Milan
			2.09%	1.88%	Philadelphia
			16.69%	1.85%	Detroit
			5.13%	1.83%	Cleveland
			3.71%	1.75%	Chicago
			5.60%	1.72%	Rome
			1.75%	1.35%	St. Petersburg
			3.88%	1.33%	New York
			1.54%	1.22%	Paris
			0.73%	0.62%	London

				0.74%	0.26%	Berlin
						Shenzhen
						Dongguan
				-2.00%		Riyadh
						Sian
				-2.00%		Kuala Lumpur
						Abidjan
						Brasília
						Kano
						Salvador
				-2.00%		Curitiba
						Accra
						Qingdao
						Jidda
						Nairobi
						Faisalabad
						Santo Domingo
						Zhengzhou
						Dar es Salaam
						Luanda
						Amman
						Campinas
				-2.00%		St. Louis
						Tampa
						Orlando

Blanks indicate that there were no population estimates available for one of the census periods and therefore % change could not be calculated

x indicates the city was not part of the modern world-system 1700-1750

xx indicates the city was not part of the modern world-system 1800-1850