

Explosive City Growth in the Modern World-System

Typologies of Demographic Spurts

Typology of demographic spurts in the sixteenth century

1500-1550			1550-1600		
TYOPOLOGY		CITY	TYOPOLOGY		CITY
MIXED	4.53%	Lisbon	MIXED	3.00%	London
ECONOMIC	3.20%	Seville	POLITICAL	2.67%	Rome
ECONOMIC	2.50%	Augsburg	ECONOMIC	2.33%	Amsterdam
ECONOMIC	2.50%	Antwerp	ECONOMIC	2.29%	Haarlem
ECONOMIC	2.44%	Magdeburg	ECONOMIC	2.17%	Leiden
ECONOMIC	2.29%	Amsterdam	ECONOMIC	2.00%	Bordeaux
ECONOMIC	2.14%	Hamburg	ECONOMIC	1.57%	Cuenca
MIXED	2.00%	London	ECONOMIC	1.52%	Vicenza
ECONOMIC	1.47%	Lecce	MIXED	1.48%	Milan
POLITICAL	1.27%	Madrid	MIXED	1.43%	Torino
ECONOMIC	1.25%	Rouen	MIXED	1.38%	Paris
MIXED	1.16%	Venice	POLITICAL	1.33%	Toledo
ECONOMIC	1.14%	Catania	POLITICAL	1.00%	Palermo
			ECONOMIC	1.00%	Jerez

Typology of demographic spurts in the seventeenth century

1600-1650			1650-1700		
TYPOLOGY		CITY	TYPOLOGY		CITY
POLITICAL	4.80%	Dublin	POLITICAL	7.17%	Berlin
ECONOMIC	3.38%	Amsterdam	POLITICAL	5.06%	Dublin
ECONOMIC	3.36%	Leiden	POLITICAL	4.09%	Copenhagen
POLITICAL	3.31%	Madrid	POLITICAL	1.80%	Vienna
ECONOMIC	2.62%	Rotterdam	MIXED	1.20%	Seville
MIXED	2.00%	London	ECONOMIC	1.20%	Rotterdam
MIXED	1.91%	Paris			
ECONOMIC	1.75%	Lyon			
ECONOMIC	1.75%	Hamburg			
ECONOMIC	1.30%	Marseille			

Typology of demographic spurts in the eighteenth century

1700-1750			1750-1800		
TYOLOGY		CITY	TYOLOGY		CITY
ECONOMIC	5.33%	Liverpool	INHERITED	7.60%	Lucknow
ECONOMIC	4.86%	Birmingham	ECONOMIC	5.78%	Manchester
MIXED	3.22%	Cadiz	ECONOMIC	5.09%	Liverpool
ECONOMIC	2.64%	Cork	ECONOMIC	4.42%	Glasgow
ECONOMIC	2.00%	Manchester	POLITICAL	4.05%	St Petersburg
ECONOMIC	1.69%	Glasgow	ECONOMIC	3.75%	Birmingham
ECONOMIC	1.60%	Bristol	INHERITED	3.67%	Patna
POLITICAL	1.27%	Berlin	POLITICAL	3.48%	Warsaw
POLITICAL	1.07%	Vienna	ECONOMIC	2.60%	Barcelona
POLITICAL	1.07%	Warsaw	INHERITED	2.00%	Madras
POLITICAL	1.03%	Prague	INHERITED	2.00%	Ujjain
POLITICAL	1.00%	Dublin	POLITICAL	1.73%	Dublin
			INHERITED	1.64%	Bombay
			ECONOMIC	1.40%	Moscow
			POLITICAL	1.33%	Berlin
			POLITICAL	1.06%	Madrid

Typology of demographic spurts in the nineteenth century

1800-1850			1850- 1900		
TYPOLOGY		CITY	TYPOLOGY		CITY
ECONOMIC	18.48%	New York	ECONOMIC	120.64%	Chicago
ECONOMIC	11.00%	Baltimore	MIXED	19.78%	Buenos Aires
ECONOMIC	10.53%	Philadelphia	ECONOMIC	14.89%	Leipzig
ECONOMIC	9.94%	Boston	ECONOMIC	14.29%	Pittsburgh
ECONOMIC	9.18%	Liverpool	ECONOMIC	11.15%	New York
ECONOMIC	8.17%	Manchester	MIXED	10.14%	Berlin
ECONOMIC	6.28%	Birmingham	ECONOMIC	9.18%	Newcastle
ECONOMIC	6.21%	Glasgow	ECONOMIC	9.13%	Dresden
ECONOMIC	6.21%	Bombay	ECONOMIC	8.29%	Boston
MIXED	5.55%	Rio de Janeiro	MIXED	8.06%	Budapest
MIXED	4.36%	Brussels	ECONOMIC	7.23%	Hamburg
ECONOMIC	4.11%	Newcastle	MIXED	6.96%	Rio de Janeiro
MIXED	3.78%	Budapest	MIXED	6.88%	Warsaw
ECONOMIC	3.64%	Madras	ECONOMIC	6.68%	Munich
MIXED	3.39%	London	ECONOMIC	6.49%	Birmingham
POLITICAL	3.19%	Berlin	MIXED	6.10%	Prague
MIXED	3.10%	Calcutta	MIXED	5.97%	Vienna
MIXED	2.80%	Paris	ECONOMIC	5.18%	Tianjin
ECONOMIC	2.79%	Munich	ECONOMIC	4.97%	Manchester
POLITICAL	2.56%	St Petersburg	MIXED	4.84%	Copenhagen
MIXED	2.35%	Buenos Aires	ECONOMIC	4.69%	Shanghai
POLITICAL	2.35%	Warsaw	ECONOMIC	4.66%	Philadelphia
ECONOMIC	2.06%	Leipzig	ECONOMIC	4.61%	Barcelona
ECONOMIC	2.00%	Lyon	ECONOMIC	4.06%	Osaka
POLITICAL	1.69%	Vienna	ECONOMIC	4.01%	Baltimore
ECONOMIC	1.32%	Hamburg	ECONOMIC	4.01%	Moscow
ECONOMIC	1.18%	Dresden	ECONOMIC	3.88%	Glasgow
MIXED	1.04%	Prague	MIXED	3.73%	St Petersburg
ECONOMIC	1.01%	Moscow	MIXED	3.59%	London
			ECONOMIC	3.40%	Milan
			MIXED	3.34%	Brussels
			MIXED	3.25%	Calcutta
			MIXED	3.07%	Paris
			POLITICAL	2.99%	Madrid
			ECONOMIC	2.62%	Lyon
			MIXED	2.61%	Cairo
			MIXED	2.53%	Amsterdam
			ECONOMIC	2.42%	Liverpool
			MIXED	1.84%	Tokyo
			ECONOMIC	1.26%	Madras

Demographic and economic spurts in the twentieth century

1900-1950			1950-2007			Connectivity 2004	
Classified as for previous centuries			largely de-peasantization			reflects economic spurts in new work	
TYPOLOGY		CITY			CITY		CITY
ECONOMIC	72.50%	Los Angeles	69.98%		Lagos	1.000	London
ECONOMIC	29.82%	Houston	52.83%		Dacca	0.984	New York
MIXED	23.25%	Jakarta	43.78%		Khartoum	0.731	Hong Kong
ECONOMIC	22.48%	Dallas-Fort Worth	41.32%		Kinshasa	0.705	Paris
ECONOMIC	21.29%	Xian	33.54%		Phoenix	0.689	Tokyo
ECONOMIC	19.88%	Hong Kong	29.43%		Surat	0.671	Singapore
ECONOMIC	16.69%	Detroit	28.84%		Fortaleza	0.583	Toronto
ECONOMIC	16.64%	São Paulo	28.53%		Chittagong	0.579	Chicago
POLITICAL	16.57%	Addis Ababa	28.09%		Belo Horizonte	0.574	Madrid
ECONOMIC	15.47%	Shanghai	27.13%		Delhi	0.563	Frankfurt
ECONOMIC	15.37%	Johannesburg	26.13%		Karachi	0.551	Milan
MIXED	14.90%	Caracas	24.94%		Shantou	0.548	Amsterdam
ECONOMIC	14.67%	Karachi	24.73%		Seoul	0.545	Brussels
MIXED	13.90%	Seoul	24.37%		Taipei	0.525	Sao Paulo
MIXED	13.61%	Mexico City	23.25%		Bogotá	0.521	Los Angeles
MIXED	13.13%	Lima	22.02%		Ankara	0.517	Zurich
MIXED	12.74%	Metro Manila	22.00%		Medellín	0.516	Sydney
ECONOMIC	12.59%	Seattle	21.49%		Lahore	0.494	Mexico City
MIXED	12.12%	Ho Chi Minh City/Saigon	20.84%		Rawalpindi	0.478	Kuala Lumpur
ECONOMIC	11.64%	Pusan	20.79%		Kabul	0.475	Buenos Aires
MIXED	11.00%	Lagos	20.08%		Izmir	0.473	San Francisco

POLITICAL	10.62%	Delhi	19.71%	Tehran	0.456	Beijing
POLITICAL	10.60%	Athens	19.51%	Miami	0.452	Shanghai
MIXED	10.41%	Buenos Aires	19.32%	Monterrey	0.449	Seoul
ECONOMIC	9.27%	Atlanta	19.24%	Dallas	0.446	Taipei
POLITICAL	8.91%	Santa Fe de Bogotá	18.95%	Guadalajara	0.444	Melbourne
ECONOMIC	8.74%	Monterrey	18.25%	Istanbul	0.441	Bangkok
ECONOMIC	8.27%	Pôrto Alegre	17.89%	Porto Alegre	0.438	Jakarta
ECONOMIC	8.27%	Surabaja	17.79%	Manila	0.435	Dublin
ECONOMIC	8.15%	Medellín	17.28%	Atlanta	0.430	Munich
ECONOMIC	8.12%	Guayaquil	17.18%	Baghdad	0.430	Warsaw
ECONOMIC	7.46%	Toronto	16.95%	Jaipur	0.427	Stockholm
MIXED	7.35%	Tokyo	16.92%	Cali	0.425	Mumbai
POLITICAL	7.24%	Washington, D.C.	16.90%	Kaohsiung	0.422	Miami
MIXED	7.24%	Cairo	16.49%	Jakarta	0.422	Budapest
MIXED	7.11%	Moscow	16.37%	Taiyuan	0.411	Santiago
ECONOMIC	7.01%	Bangalore	16.03%	Bangalore	0.402	Moscow
MIXED	6.97%	Havana	15.88%	Poona	0.400	Prague
ECONOMIC	6.85%	Calcutta	15.69%	Algiers	0.399	Vienna
ECONOMIC	6.82%	San Francisco-Oakld	15.47%	Guangzhou	0.399	Dusseldorf
MIXED	6.62%	Santiago	15.46%	Medan	0.387	Barcelona
ECONOMIC	6.54%	Fortaleza	15.32%	Tel Aviv-Jaffa	0.384	Johannesburg
ECONOMIC	6.38%	Ahmadabad	14.98%	Addis Ababa	0.384	Hamburg
POLITICAL	5.99%	Baghdad	14.47%	Sao Paulo	0.381	Berlin
ECONOMIC	5.92%	Nagoya	14.36%	Pyongyang	0.379	Washington, DC
MIXED	5.70%	Rio de Janeiro	13.93%	Lima	0.378	Luxembourg
POLITICAL	5.68%	Guatemala City	13.81%	Bangkok	0.378	Atlanta
ECONOMIC	5.67%	Singapore	13.43%	Damascus	0.377	Istanbul

ECONOMIC	5.64%	Montréal	13.02%	Chengdu	0.375	Athens
ECONOMIC	5.64%	Cape Town	12.64%	Ibadan	0.374	Montreal
MIXED	5.60%	Rome	12.55%	Daegu	0.361	Dubai
ECONOMIC	5.56%	Nanjing	12.53%	Houston	0.359	Bogota
ECONOMIC	5.47%	Guadalajara	12.39%	Bombay	0.354	Rome
MIXED	5.22%	Hanoi	12.30%	Nagoya	0.354	Lisbon
ECONOMIC	5.22%	Tashkent	12.06%	Aleppo	0.349	Cairo
ECONOMIC	5.18%	Osaka	11.99%	Rangoon	0.343	Caracas
ECONOMIC	5.10%	Recife	11.95%	Fuzhou	0.335	Dallas
ECONOMIC	5.01%	Alexandria	11.93%	Mexico City	0.332	Auckland
ECONOMIC	4.87%	Mumbai	11.73%	Kunming	0.332	Vancouver
ECONOMIC	4.86%	Nagpur	11.68%	Durban	0.329	Geneva
ECONOMIC	4.84%	Sydney	11.56%	Hangzhou	0.321	New Delhi
MIXED	4.14%	Algiers	11.44%	Wuhan	0.318	Boston
POLITICAL	4.11%	Kabul	11.32%	Ahmedabad	0.311	Houston
ECONOMIC	3.97%	Pune (Poona)	10.84%	Busan	0.311	Rio de Janeiro
ECONOMIC	3.88%	New York	10.55%	San Juan	0.295	Oslo
ECONOMIC	3.70%	Milan	10.52%	Caracas	0.291	Manila
MIXED	3.67%	Madrid	10.37%	Recife	0.290	Beirut
ECONOMIC	3.57%	Aleppo	10.23%	San Diego	0.284	Helsinki
ECONOMIC	3.57%	Melbourne	9.91%	Hyderabad	0.284	Copenhagen
ECONOMIC	3.38%	Minneapolis-St. Paul	9.44%	Washington	0.283	Montevideo
ECONOMIC	3.37%	Chennai (Madras)	9.30%	Beijing	0.280	Stuttgart
ECONOMIC	3.33%	Kiev	9.28%	Seattle	0.270	Lima
ECONOMIC	3.13%	Tianjin	9.21%	Nagpur	0.269	Bratislava
ECONOMIC	2.83%	Hyderabad	9.15%	Singapore	0.267	Philadelphia
POLITICAL	2.82%	Lisbon	9.05%	Jinan	0.260	Seattle

ECONOMIC	2.60%	Stuttgart	8.82%	Casablanca	0.256	Tel Aviv
ECONOMIC	2.30%	Naples	8.80%	Cape Town	0.252	Bangalore
ECONOMIC	2.15%	Boston	8.67%	Shenyang	0.250	Bucharest
ECONOMIC	2.09%	Philadelphia	8.56%	Chongqing	0.245	Brisbane
POLITICAL	2.06%	Damascus	8.52%	Cairo	0.244	Chennai
ECONOMIC	1.75%	St Petersburg	8.46%	Lucknow	0.241	Cape Town
POLITICAL	1.69%	Beijing	8.40%	Madras	0.238	Minneapolis
ECONOMIC	1.63%	Lucknow	8.06%	Harbin	0.237	Calgary
ECONOMIC	1.58%	Jaipur	7.92%	Toronto	0.234	Manchester
MIXED	1.54%	Paris	7.88%	Denver	0.232	Abu Dhabi
ECONOMIC	1.53%	Hamburg	7.50%	Changchun	0.231	Detroit
ECONOMIC	1.52%	Birmingham	7.34%	Kanpur	0.231	Bristol
ECONOMIC	1.49%	Munich	7.27%	Stuttgart	0.230	San Diego
MIXED	1.44%	Beirut	7.25%	Johannesburg	0.228	Karachi
ECONOMIC	1.41%	Surat	6.70%	Dairen	0.224	Birmingham
ECONOMIC	1.32%	Manchester	6.67%	Tokyo	0.223	Perth
			6.66%	Osaka	0.222	Port Louis
			6.46%	Santiago	0.221	Nicosia
			6.38%	Alexandria	0.221	Cleveland
			6.21%	Ho Chi Minh City	0.218	Rotterdam
			6.20%	Bandung	0.218	Edinburgh
			6.17%	Los Angeles	0.216	San Jose CR
			6.11%	Nanjing	0.215	Guangzhou
			6.06%	Tianjin	0.210	Guatemala City
			5.77%	Rio de Janeiro	0.210	Denver
			5.54%	Kiev	0.204	Jeddah
			5.15%	Surabaya	0.203	Riyadh

	5.08%	Madrid	0.202	San Salvador
	4.81%	San Francisco	0.200	Osaka
	4.30%	Minneapolis	0.200	Quito
	4.18%	Hong Kong		
	4.11%	Lisbon		
	3.98%	Calcutta		
	3.98%	Athens		
	3.92%	Shanghai		
	3.54%	Montreal		
	3.39%	Barcelona		
	3.12%	Melbourne		
	3.02%	Buenos Aires		
	2.89%	Moscow		
	2.86%	Sydney		
	2.74%	Naples		
	2.69%	Boston		
	2.66%	Milan		
	1.88%	Philadelphia		
	1.85%	Detroit		
	1.83%	Cleveland		
	1.75%	Chicago		
	1.72%	Rome		
	1.35%	St. Petersburg		
	1.33%	New York		
	1.22%	Paris		