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City of Helsinki Urban Facts

HOUSING IN EUROPEAN CITIES

Statistical Comparisons



Ruoholahti, Helsinki in 2001

Photo: Jussi Kautto

HOUSING IN EUROPEAN CITIES

Statistical Comparisons



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Ruoholahti, Helsinki in 2001

Photo: Jussi Kaitto

PREFACE

The international community development programmes of the European Union and the knowledge needed to support them were at the background, when the Helsinki City Office Development Unit published the Dwellings in European Cities report in 2000. Recently, new statistics on housing and construction have appeared, and updating the information contained in the report has become necessary. Furthermore, the new data, which partly extend to the very recent years, create an opportunity to examine the changes that occurred during the 1990s in housing and, to some extent, in construction and the urban population.

The last decade has been a time of rapid change in Helsinki and in the surrounding region. Thus, the latest information on housing and construction specifies the picture of the recent development also in relation to other European cities. Drawing up European-wide statistical comparisons is made meaningful by the fact that the position of large population centres often proves exceptional when compared with other cities and regions within the country. International comparisons therefore create new perspectives for assessing the housing conditions and place the observed development as part of European trends.

This publication has been produced by City of Helsinki Urban Facts in collaboration with the Helsinki City Office Development Unit.

The data contained in the publication have been gathered by trainee Mr. Turo Pekari and edited by registrar Ms. Tuula Lappalainen and researcher Ms. Maija Vihavainen.

Helsinki, 12 September 2002

Ms. Leila Lankinen

Acting Information Manager

TO THE READER

This publication contains statistical information on population, housing stock, households and housing conditions in European cities. Included are member cities of the EU's Eurocities network as well as some Baltic and eastern European cities that are not members. The choice of the cities has been affected by the availability of data.

The population comparisons of this survey cover both metropolitan areas and cities. The concept of metropolitan area is not quite unambiguous and its definition varies by city in the statistics available. Different terms have been used. Nevertheless, it is always an area larger than the city proper and covers its sphere of influence. The concept of city population used in the report means the number of inhabitants living within the administrative boundaries of the city. The data concerning population development and structure have been confined, as a rule, to the cities.

The statistics on housing concentrate on the housing stock, households and housing construction. The housing market - demand and supply, the prices and cost levels - have been excluded because of the diversity of the subject and problems related to the comparability of data. Problems of comparability and lack of data also affect the information on the housing stock and households. This, for its part, has led to housing information not being presented for all those cities that are included in the population comparison.

The sources of the population data of the cities and metropolitan areas include the Major Cities of the World statistics of Statistics Finland as well as the statistical yearbooks and websites of some cities. The most important sources of housing and construction information have been the UN-published Compendium of Human Settlement Statistics, the Nordstat database and the statistical yearbooks and websites of different cities.



1. POPULATION

1. POPULATION

1.1 Population by City

The most significant population centres are generally either past or present capitals of large European countries. There are over nine million inhabitants in the metropolitan areas of Paris, London and Moscow. They are followed by the metropolitan areas of Essen, St. Petersburg and Berlin, each of which has a population of more than five million. In addition, Barcelona, Madrid, Rome and Milan, with their surroundings, belong to the top ten economic regions.

Of the large population centres of the Nordic and Baltic countries, the metropolitan areas of Copenhagen, Stockholm and Helsinki have more than one million inhabitants.

In terms of population, the largest European cities are Moscow, London, St. Petersburg and Berlin. Correspondingly, the largest Nordic and Baltic cities are Riga and Stockholm.

Map of Europe. Largest Population Centres

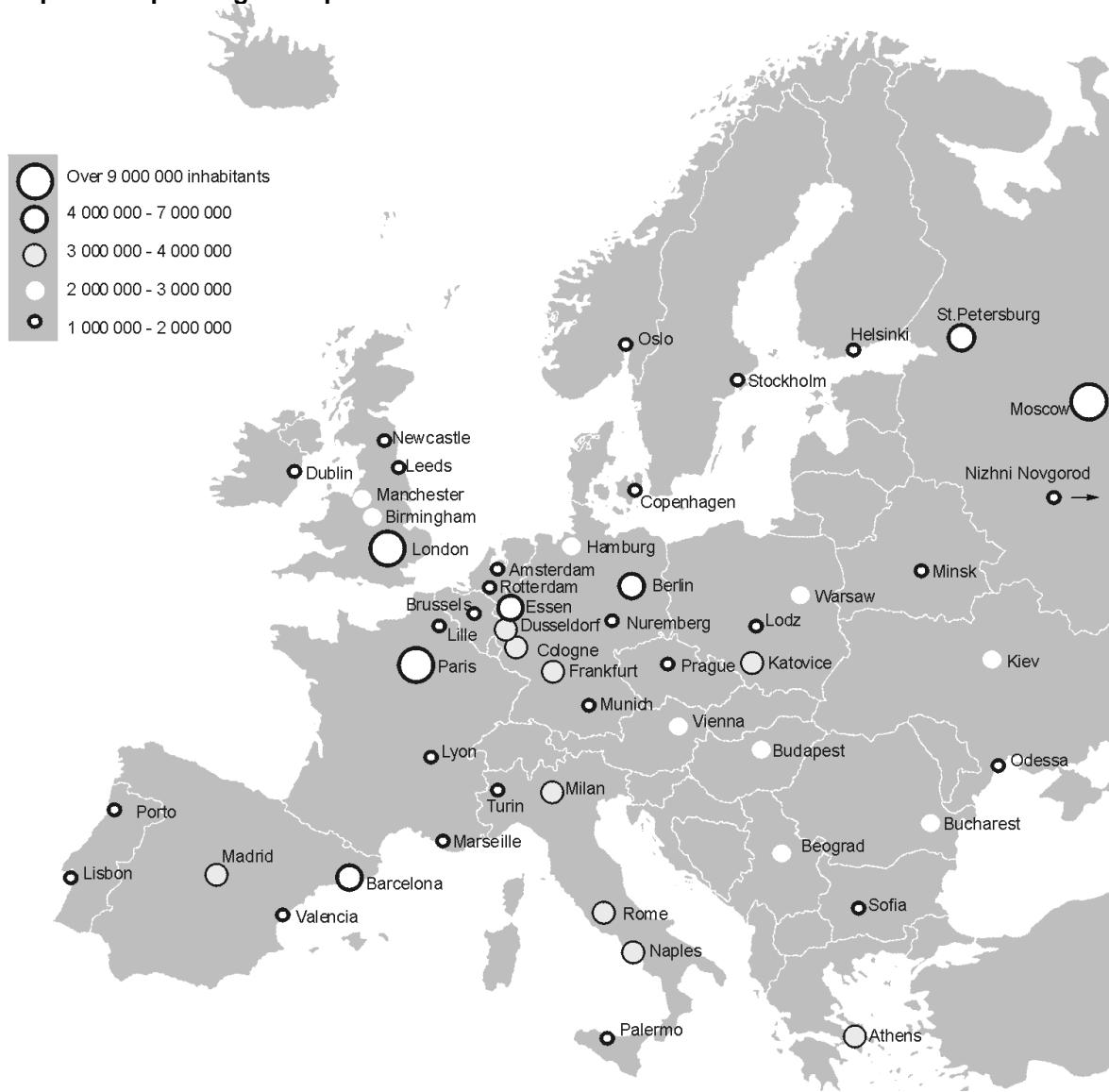
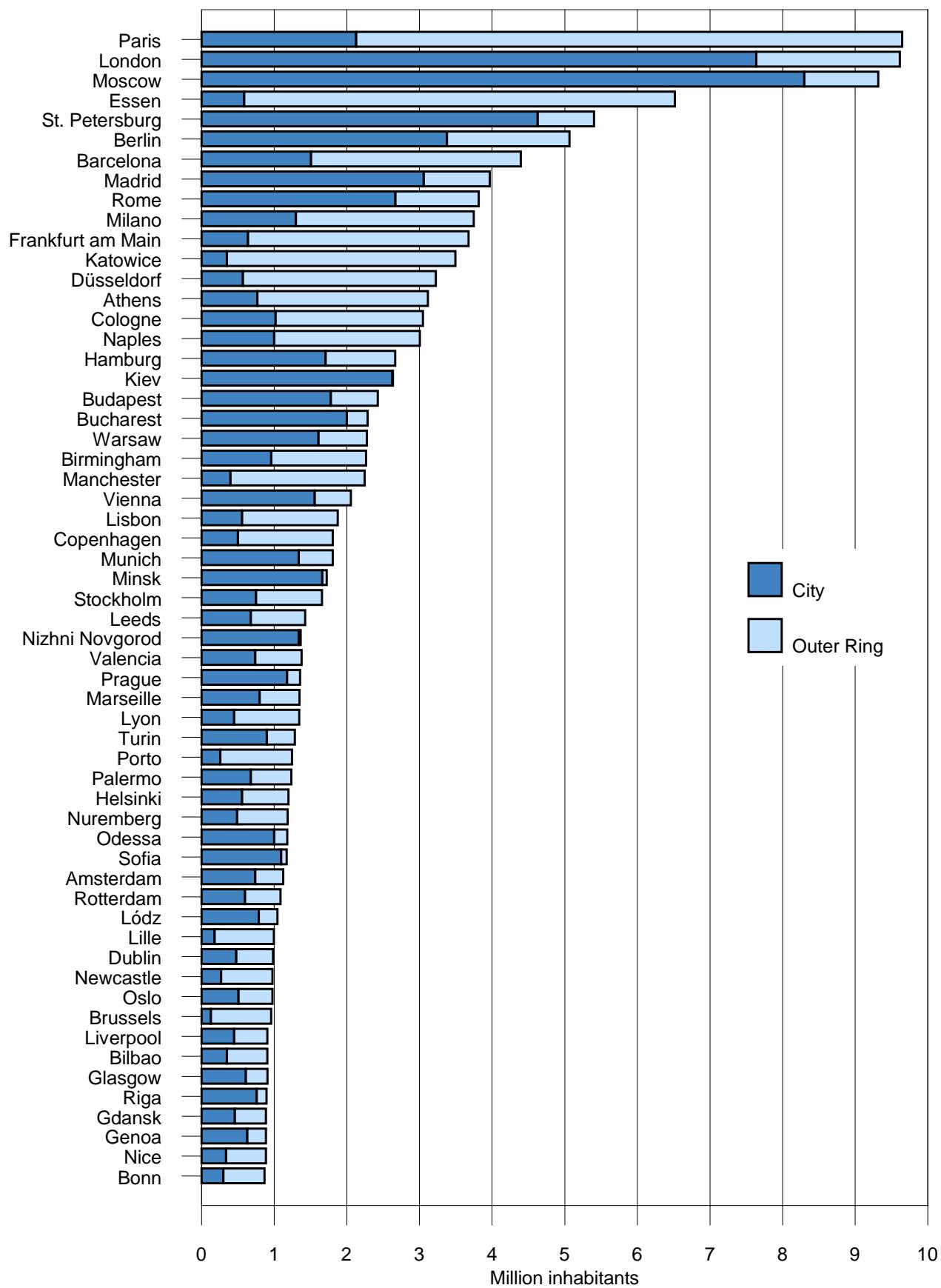


Table 1. Europe's Largest Population Centres

	City	Region		City	Region
Amsterdam (2002, 1999)	735 668	1 121 303	Lyon (1999)	445 452	1 348 832
Antwerp (2001, 1990)	445 570	668 125	Madrid (2002, 2001)	3 062 462	3 969 000
Athens (1991, 2001)	772 072	3 120 000	Málaga (2000, 1999)	531 565	835 225
Barcelona (2001)	1 505 325	4 390 413	Malmö (2001, 2000)	262 397	522 857
Belfast (1999, 1991)	297 200	554 994	Manchester (1999, 2000)	404 861	2 252 000
Berlin (2000, 1999)	3 383 334	5 075 301	Marseille (1999)	798 430	1 349 772
Bilbao (2000, 1999)	354 271	911 302	Milano (2000, 1998)	1 301 551	3 752 956
Birmingham (1999, 2000)	961 041	2 272 000	Minsk (2001, 1999)	1 664 000	1 728 945
Bologna (2001, 1986)	378 356	525 000	Montpellier (1999)	225 392	287 981
Bonn (1999)	301 048	873 685	Moscow (2001, 2000)	8 304 600	9 321 000
Bordeaux (1999)	215 363	753 931	Munich (2000, 1999)	1 336 949	1 803 229
Bradford 1999, 1991)	289 376	457 344	Münster (1999)	264 670	
Bratislava (1999)	448 292	616 982	Nancy (1999)	103 605	331 363
Bristol (1999, 1991)	399 600	522 784	Nantes (1999)	270 251	544 932
Brno (2001)	379 185	539 135	Naples (2000)	1 000 470	3 012 000
Brussels (2001)	134 395	964 405	Newcastle (2001, 2000)	270 500	981 000
Bucharest (2001, 1998)	1 998 000	2 292 941	Nicosia (1999, 2001)	199 000	270 800
Budapest (2001, 1990)	1 775 203	2 430 100	Nizhni Novgorod (2001, 1999)	1 343 300	1 375 000
Cardiff (1990, 1999)	315 040	294 962	Nizza (1999)	342 738	888 784
Charleroi (1990, 2001)	200 233	294 962	Nottingham (1999, 1991)	284 000	613 726
Chemnitz (1999)	263 222	405 618	Nuremberg (2000, 1999)	486 628	1 189 000
Cologne (1999, 2000)	1 017 721	3 050 000	Odessa (2001, 1991)	1 002 000	1 185 000
Copenhagen (2001)	499 148	1 806 227	Oslo (2001)	508 726	980 714
Cracow (2000)	741 500	859 000	Oulu (2001)	123 274	
Dortmund (1999)	590 213		Palermo (2000, 1998)	679 290	1 242 055
Dublin (1996, 2001)	481 854	993 000	Paris (1999)	2 125 246	9 644 507
Düsseldorf (1999, 2000)	568 855	3 233 000	Porto (2001)	262 928	1 256 633
Edinburgh (1999)	451 710	533 390	Prague (2001)	1 178 576	1 358 900
Eindhoven (1999, 2002)	205 023	412 707	Reykjavík (2000)	111 345	174 991
Espoo (2001)	216 836		Riga (2001)	759 186	903 757
Essen (1999, 2000)	599 515	6 531 000	Rome (2001, 1999)	2 667 122	3 814 000
Frankfurt am Main (1999, 2000)	643 821	3 681 000	Rotterdam (2002, 1999)	599 048	1 089 979
Gdansk (1998, 2000)	458 988	893 000	Sevilla (2000, 1991)	700 716	704 818
Geneve (2000)	174 999	408 800	Sheffield (1999, 1991)	501 202	633 362
Genoa (2000)	632 366	890 000	Sofia (2001)	1 096 389	1 173 811
Gent (1990, 2001)	224 685	250 666	Southampton (1991, 1999)	214 859	276 752
Gijón (1991, 2000)	267 426	270 129	St. Petersburg (2001, 1994)	4 627 800	5 410 000
Glasgow (1999, 1998)	611 440	911 200	St-Étienne (1999)	180 210	291 960
Gothenburg (2001, 2000)	471 267	796 705	Stockholm (2001, 2000)	754 948	1 660 700
Graz (2000, 2001)	226 424	371 139	Strasbourg (1999)	264 115	427 245
Grenoble (1999)	153 317	419 334	Szczecin (1987, 1998)	416 988	449 000
The Hague (2002, 1999)	458 286	701 211	Tallinn (2001)	399 850	525 132
Hamburg (2000)	1 708 368	2 664 000	Tampere (2001)	197 774	302 136
Helsinki (2002, 2001)	559 718	1 200 568	Timisoara (1998)	324 304	
Katowice (1998, 2000)	345 934	3 494 000	Trieste (1998, 2000)	215 096	248 998
Kiev (2001)	2 629 000	2 637 100	Turin (2001, 2000)	899 806	1 294 000
Klaipeda (2001)	194 400	240 900	Turku (2001)	173 686	285 682
Leeds (1999, 2000)	680 722	1 433 000	Utrecht (2002, 1999)	260 652	559 054
Leipzig (1999)	489 532	650 603	Valencia (2000, 1999)	739 014	1 374 842
Lille (1999)	184 657	1 000 900	Valladolid (1999, 2000)	319 129	403 365
Lisbon (2001)	556 797	1 878 006	Vantaa (2001)	179 856	
Liverpool (1999, 2000)	452 450	915 000	Venice (1986, 2000)	275 368	420 000
Ljubljana (1999, 2001)	250 000	519 047	Vienna (2001)	1 562 676	2 066 000
Lódz (2000)	793 200	1 053 000	Vilnius (2001)	543 000	642 000
London (2001, 1991)	7 640 000	9 619 700	Warsaw (2000, 2001)	1 610 500	2 282 000

Figure 1. Largest Population Centres in Europe



Million inhabitants

1.2 Development of Population

During the 1990s, the population growth rate has been the highest in the Nordic cities of Helsinki, Reykjavik, Oslo and Stockholm, approximately 10 % during the decade.

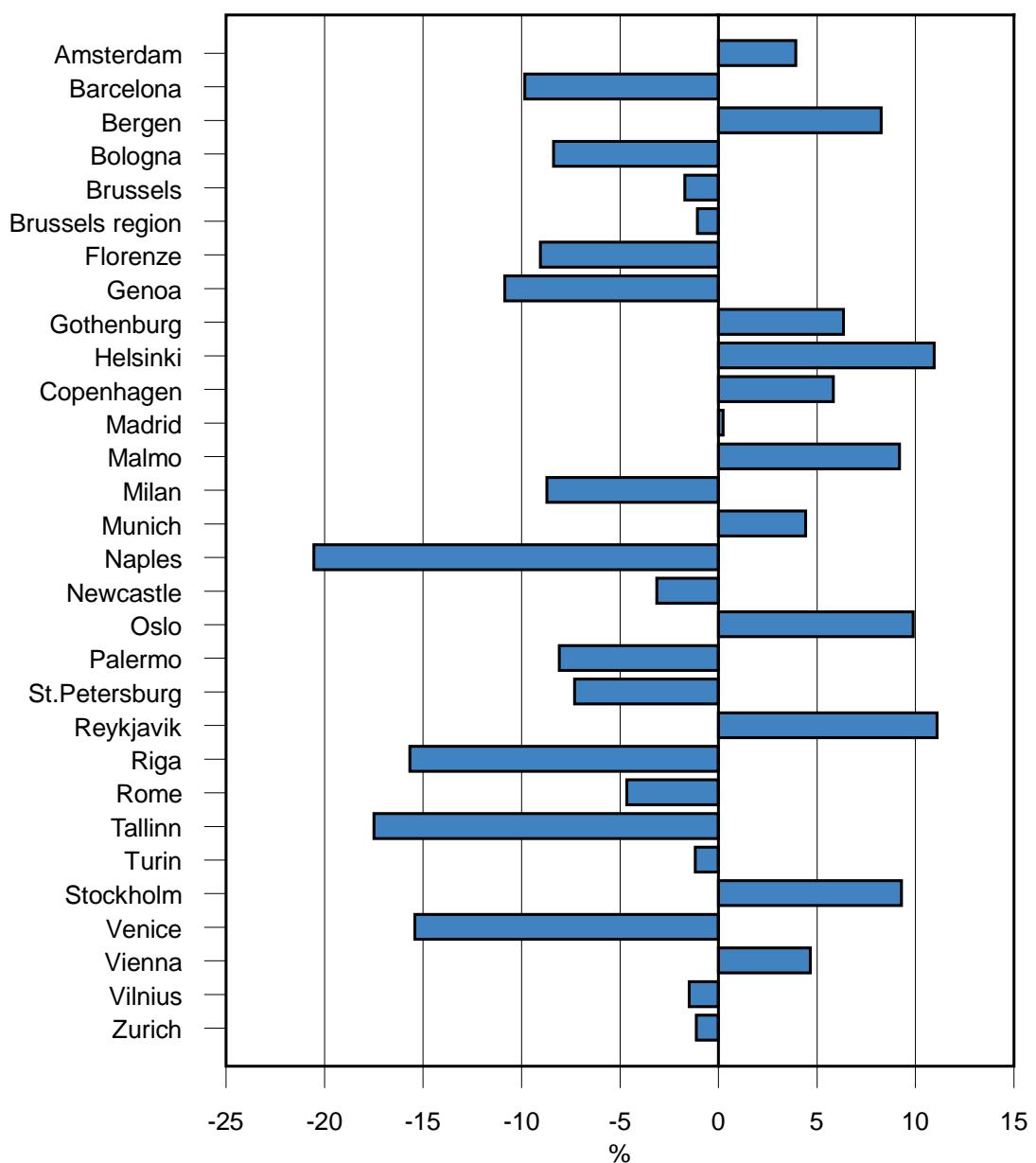
In the central European cities Vienna, Munich and Amsterdam, the growth of the population has been slower than in the Nordic cities.

In some cities in southern Europe and the Baltic states, by contrast, the population has declined. The largest decrease, 15 % to 20 %, has occurred in Naples, Venice, Tallinn and Riga. In absolute terms, St. Petersburg has experienced the strongest depopulation, 340 000 inhabitants since 1990.

Table 2. Population and Population Change in 1990-2000

	1990	1995	2000	Change % 1990-2000
Amsterdam	702 444	722 200	731 289	3,9
Barcelona	1 643 542	1 556 700	1 496 266	-9,8
Bergen	211 826	221 717	230 948	8,3
Bologna	411 803	390 400	379 964	-8,4
Brussels	136 706	135 700	134 395	-1,7
Brussels region	964 385	951 600	954 045	-1,1
Florence	408 403	388 300	374 501	-9,1
Genoa	701 032	661 800	632 366	-10,9
Gothenburg	433 042	444 553	462 470	6,4
Helsinki	490 691	515 765	551 123	11,0
Copenhagen	466 723	471 300	495 699	5,8
Madrid	2 991 200	2 947 200	2 998 741	0,3
Malmö	233 887	242 706	257 574	9,2
Milan	1 415 000	1 321 600	1 301 551	-8,7
Munich	1 277 576	1 244 700	1 336 949	4,4
Naples	1 206 013	1 062 200	1 000 470	-20,5
Newcastle	279 000	283 600	270 500	-3,1
Oslo	458 364	483 401	508 726	9,9
Palermo	734 238	693 400	679 290	-8,1
St.Petersburg	5 001 938	4 805 178	4 660 792	-7,3
Reykjavik	97 569	103 036	109 763	11,1
Riga	911 830	825 044	788 283	-15,7
Rome	2 791 354	2 667 100	2 667 112	-4,7
Tallinn	479 750	434 763	408 329	-17,5
Turin	911 670	934 700	900 987	-1,2
Stockholm	674 452	703 627	743 703	9,3
Venice	317 837	301 100	275 368	-15,4
Vienna	1 539 848	1 595 800	1 615 438	4,7
Vilnius	586 623	575 663	577 969	-1,5
Zurich	365 043	342 900	360 980	-1,1

Figure 2. Population Change in 1990-2000, %



1.3 Age Structure

The cities differ quite much as regards the age structures of the population. Children form the largest proportion of the population in Reykjavik and London, the metropolitan areas of Lyon and Paris, Dublin, Cracow, and Minsk. The smallest shares are found in Italian and Spanish cities and in the German-speaking central Europe.

In Bologna and Barcelona, old people make up a larger proportion of the urban population than in any of the other cities studied. Helsinki has the thirteenth smallest percentage of old people. Minsk, Copenhagen, Vilnius and Berlin have the largest shares of working-aged population. In Helsinki too, more than 70 % of the population are in working age. The smallest percentage is found in London.

Table 3. Population by Age (%)

	0-14 years	15-29 years	30-64 years	over 65 years
Amsterdam (1999)	15,8	22,8	48,9	12,5
Barcelona (2000)	11,6	19,8	46,7	21,9
Berlin (1998)	14,0	18,6	53,5	13,8
Bologna (2000)	9,3	14,5	50,1	26,1
Bratislava (1998)	16,5	23,3	48,1	12,1
Brussels region (1999)	17,4	21,5	43,5	17,5
Budapest (1999)	14,2	23,1	46,0	16,7
Cologne (1998)	14,2	18,1	52,2	15,4
Copenhagen (2001)	14,2	28,6	44,1	13,1
Cracow (1995)	18,2	22,5	46,8	12,4
Dublin (1996)	18,3	29,3	39,4	13,1
Gothenburg (1999)	16,6	22,2	44,5	16,7
Hague (1999)	16,7	21,6	45,5	16,2
Hamburg (1998)	13,5	18,2	51,6	16,7
Helsinki (2001)	15,1	21,9	49,6	13,4
Lisbon (1991)	14,2	21,4	45,6	18,8
London (1996)	21,3	14,9	47,2	16,7
Lyon region (1990)	18,9	25,1	43,4	12,6
Madrid (1998)	12,5	22,6	46,1	16,9
Malmö (1999)	16,9	19,8	44,1	19,1
Marseille region (1990)	17,8	22,5	43,9	15,8
Minsk (1999)	18,2	25,6	47,6	8,6
Munich (1998)	12,6	17,8	53,7	15,9
Newcastle (2000)	16,7	23,0	41,9	18,3
Oslo (2001)	16,8	21,2	47,5	14,5
Paris region (1990)	18,8	23,9	45,7	11,6
Prague (1998)	14,3	21,8	47,6	16,3
Reykjavik (1999)	21,4	23,6	42,1	12,9
Riga (2001)	14,4	21,2	48,3	16,1
Rome (2000)	12,5	17,3	51,7	18,5
Rotterdam (1999)	17,4	22,3	44,9	15,4
Sevilla (1998)	15,7	26,5	43,7	14,1
Sofia (1998)	14,3	24,8	46,5	14,4
St.Petersburg (2001)	15,4	19,9	50,3	14,4
Stockholm (1999)	15,8	20,5	46,5	17,1
Tallinn (1999)	16,4	21,3	48,3	14,0
Toulouse region (1990)	16,7	27,6	43,0	12,7
Valencia (1998)	13,4	24,0	45,9	16,8
Warsaw (1995)	16,8	19,5	50,9	13,4
Vienna (1991)	13,9	22,6	45,6	17,8
Vilnius (2001)	16,4	22,2	50,2	11,3
Zurich (2000)	12,0	21,4	48,5	18,2

Note:

St.Peterburg: 0-15 years, 16-29 years

Berlin, Hamburg, Cologne, Munich: 0-15 years, 15-30 years, 30-65 years, over 65 years

London: 0-14 years, 15-25 years, 25-59/64 years (women/men), over 60/65 years (women/men)

Tallinn: over 58/63 years (women/men)

Figure 3. Population by Age (%)

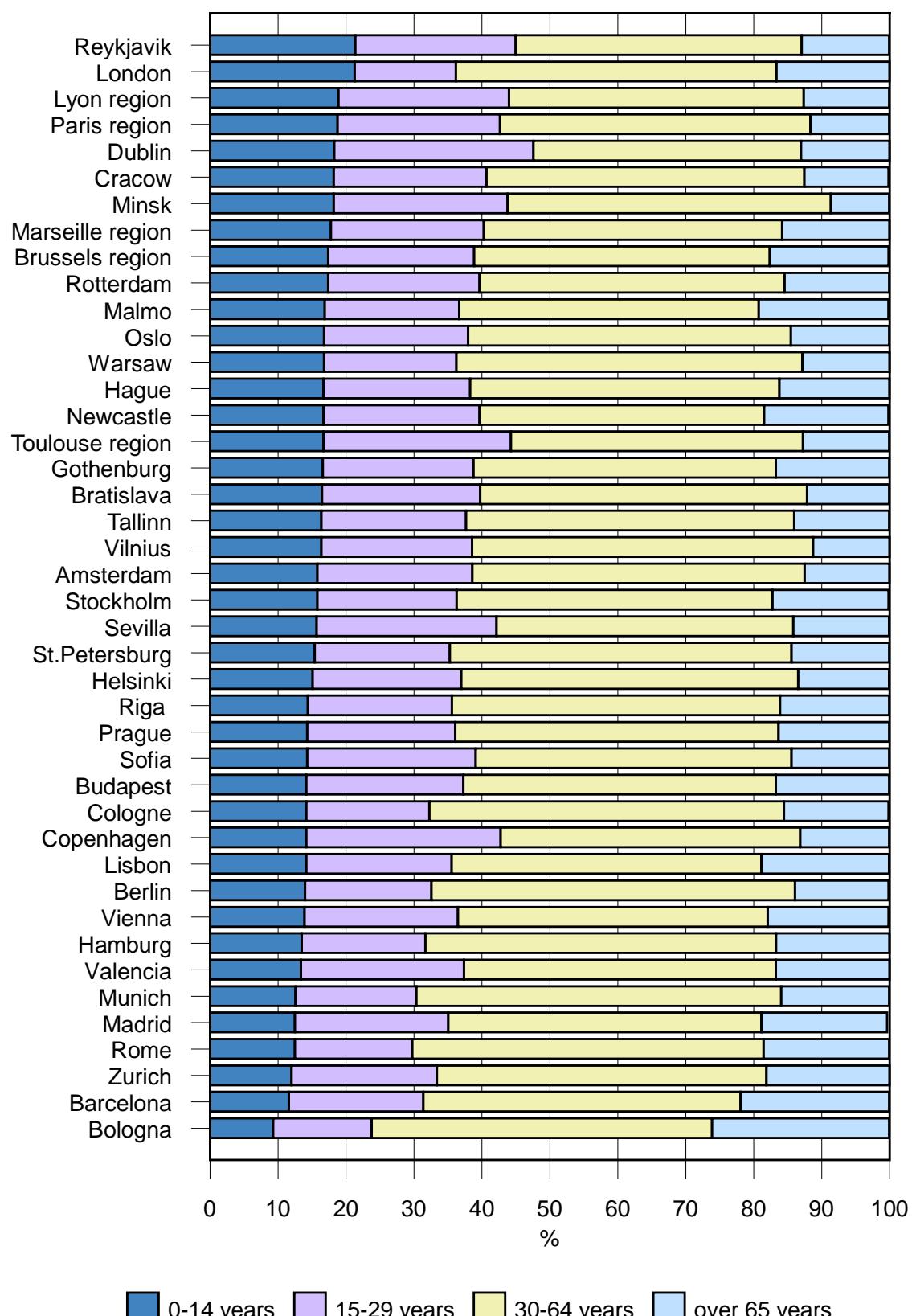
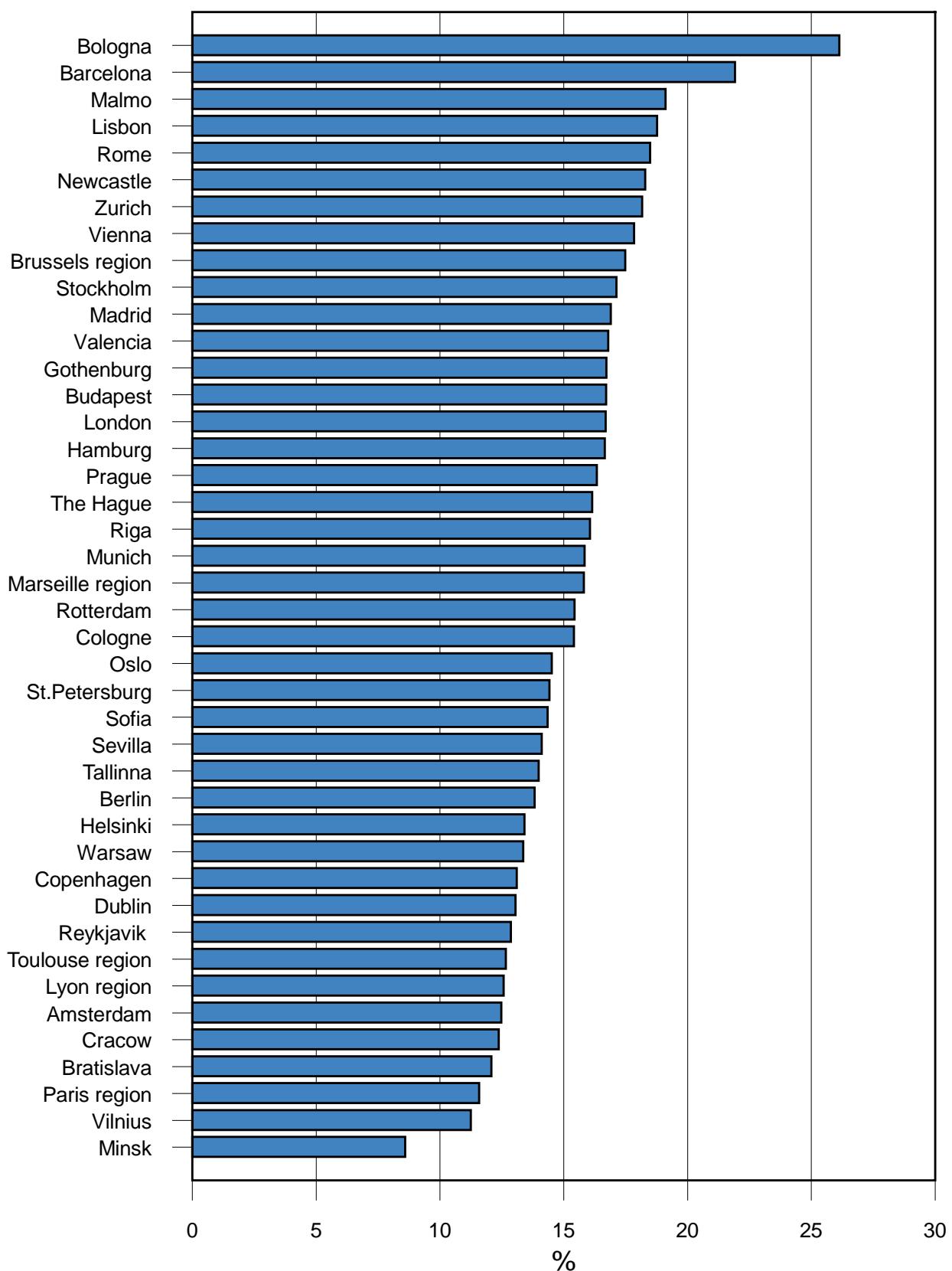
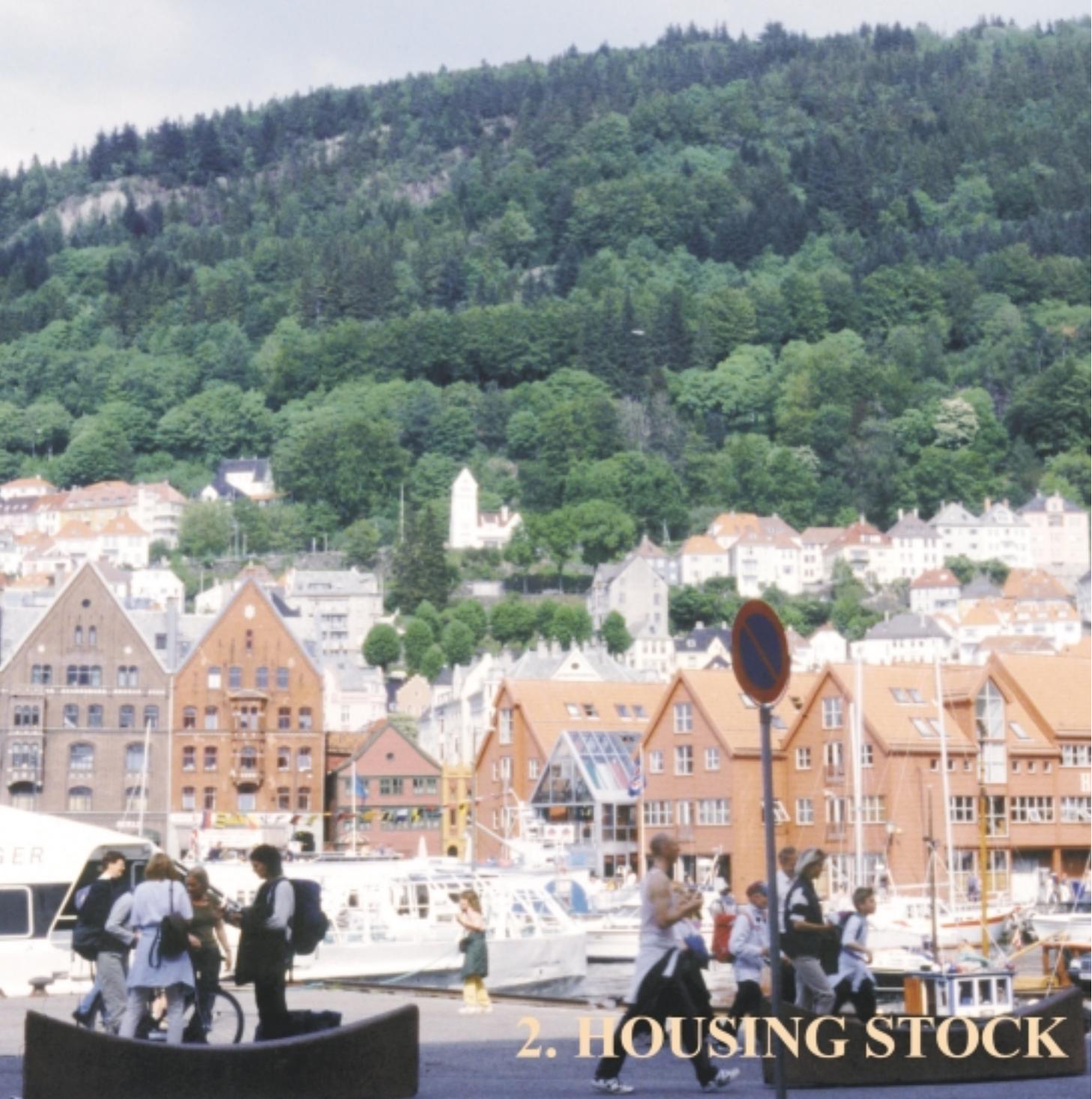


Figure 4. Proportion of Population over 65 Years of Age %





2. HOUSING STOCK

Bergen, Norway in 1997

Photo: Jussi Kautto

2. HOUSING STOCK

2.1 Number of Dwellings and Dwelling Type Distribution

In the large population centres - London, Berlin and St. Petersburg - there are clearly more dwellings than in the other cities. In London, there are almost three million dwellings, In Berlin, 1.7 million and in St. Petersburg, 1.6 million. On the other hand, it must be noted that for some large population centres - Moscow, Madrid, Rome and Paris - data on the number of dwellings or the dwelling type distribution have not been available. In Helsinki, there are approximately 300 000 dwellings.

Table 4. Number of Dwellings

City	Dwellings
Amsterdam (2001)	371 092
Barcelona (1991)	669 459
Bergen (1999)	100 456
Berlin (1998)	1 692 100
Bratislava (1991)	161 494
Brussels (1991)	394 468
Budapest (1990)	775 523
Cologne (2000)	518 420
Copenhagen (2001)	279 653
Cracow (1995)	238 760
Gothenburg (2001)	238 144
The Hague (1998)	222 800
Helsinki (2001)	296 013
Lisbon (1991)	227 580
London (1996)	2 954 000
Lyon (1990)	493 008
Malmo (2001)	136 865
Manchester (1991)	183 751
Marseille (1990)	481 172
Munich (2000)	701 553
Oslo (1999)	253 949
Prague (1991)	495 804
Riga (2000)	240 360
Rotterdam (1998)	283 200
St.Petersburg (2000)	1 595 563
Stockholm (2001)	404 988
Tallinn (2001)	183 362
Warsaw (1995)	594 473
Vienna (2000)	920 083
Vilnius (2001)	227 018
Zurich (2000)	187 587

Table 5. Dwelling Stock by Number of Rooms (%)

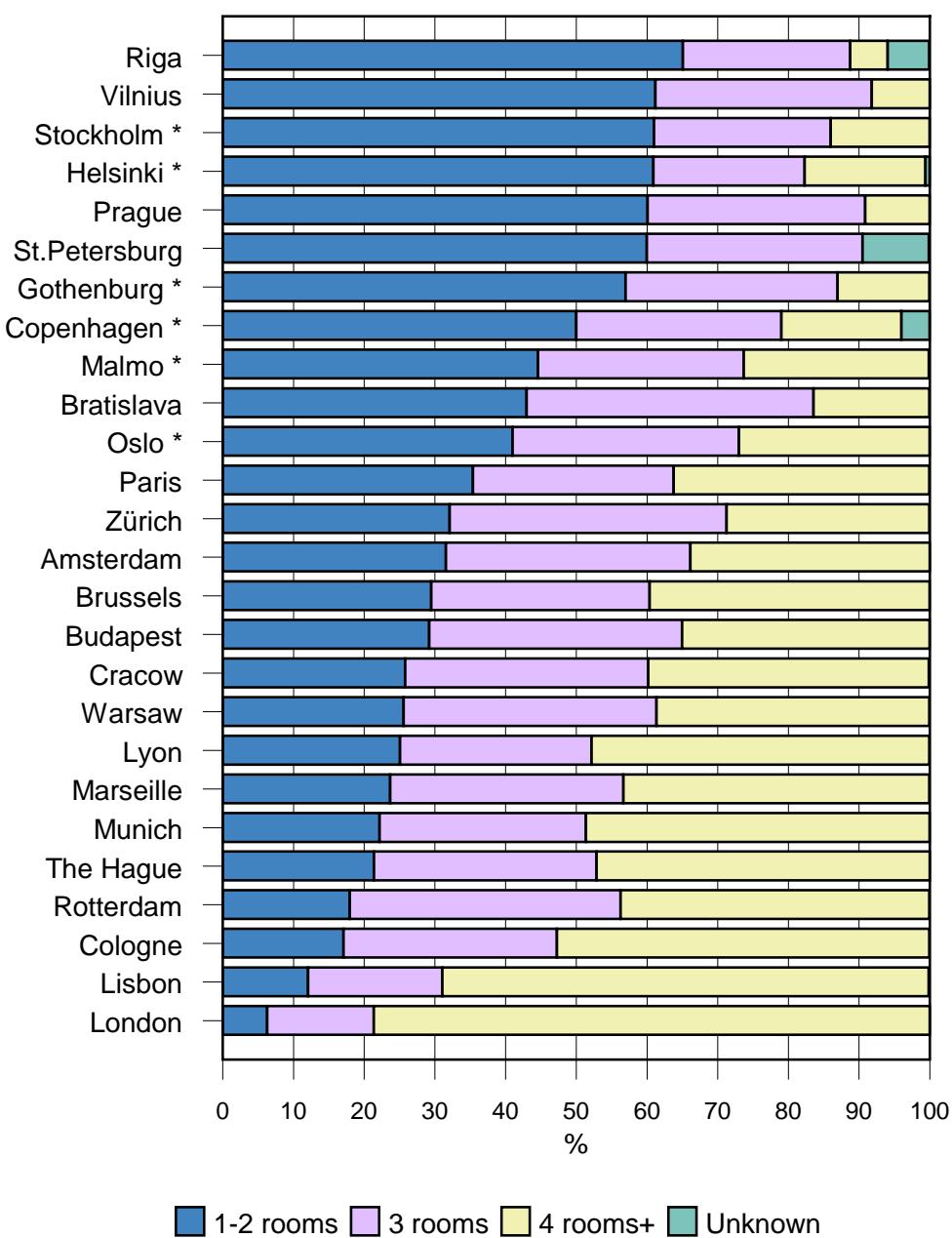
City	1-2 rooms	3 rooms	4+ rooms
Amsterdam (2001)	31,6	34,6	33,9
Bratislava (1991)	43,0	40,6	16,4
Brussels (1991)	29,5	30,9	39,6
Budapest (1990)	29,2	35,8	35,0
Cologne (2000)	17,1	30,2	52,7
Copenhagen (2001) *	50,0	29,0	17,0
Cracow (1995)	25,8	34,4	39,7
Gothengurg (2001) *	57,0	30,0	13,0
The Hague (1998)	21,4	31,5	47,2
Helsinki (2001) *	68,0	21,0	11,0
Lisbon (1991)	12,1	19,0	68,8
London (1996)	6,3	15,1	78,7
Lyon (1990)	25,1	27,1	47,8
Malmo (1997) *	44,6	29,1	26,2
Marseille (1990)	23,7	33,0	43,3
Munich (2000)	22,2	29,2	48,6
Oslo (1999) *	41,0	32,0	27,0
Paris (1990)	35,4	28,4	36,2
Prague (1991)	60,1	30,8	9,1
Riga (2000)	65,1	23,7	5,3
Rotterdam (1998)	18,0	38,3	43,7
St.Petersburg (2000)	60,0	30,5	0,0
Stockholm (2001) *	61,0	25,0	14,0
Warsaw (1995)	25,6	35,8	38,6
Vilnius (2001)	61,2	30,6	8,3
Zurich (2000)	32,1	39,2	28,7

* In multi-dwelling buildings

The dwelling type distribution of the housing stock varies greatly by city. London and Lisbon resemble each other in that both have a low number of small dwellings and a high number of large ones. London has the least small dwellings, only 6 % of all dwellings. Four fifths of the housing stock of London consist of dwellings with four or more rooms.

Helsinki, together with St. Petersburg, Vilnius, Prague and Riga, is a city of small flats. In all these cities, small dwellings make up at least 60 % of the housing stock. This domination by small dwellings is in Riga, Vilnius and Prague highlighted by the fact that the proportion of large dwellings with four or more rooms is less than 10 %.

Figure 5. Dwelling Stock by Number of Rooms (%)

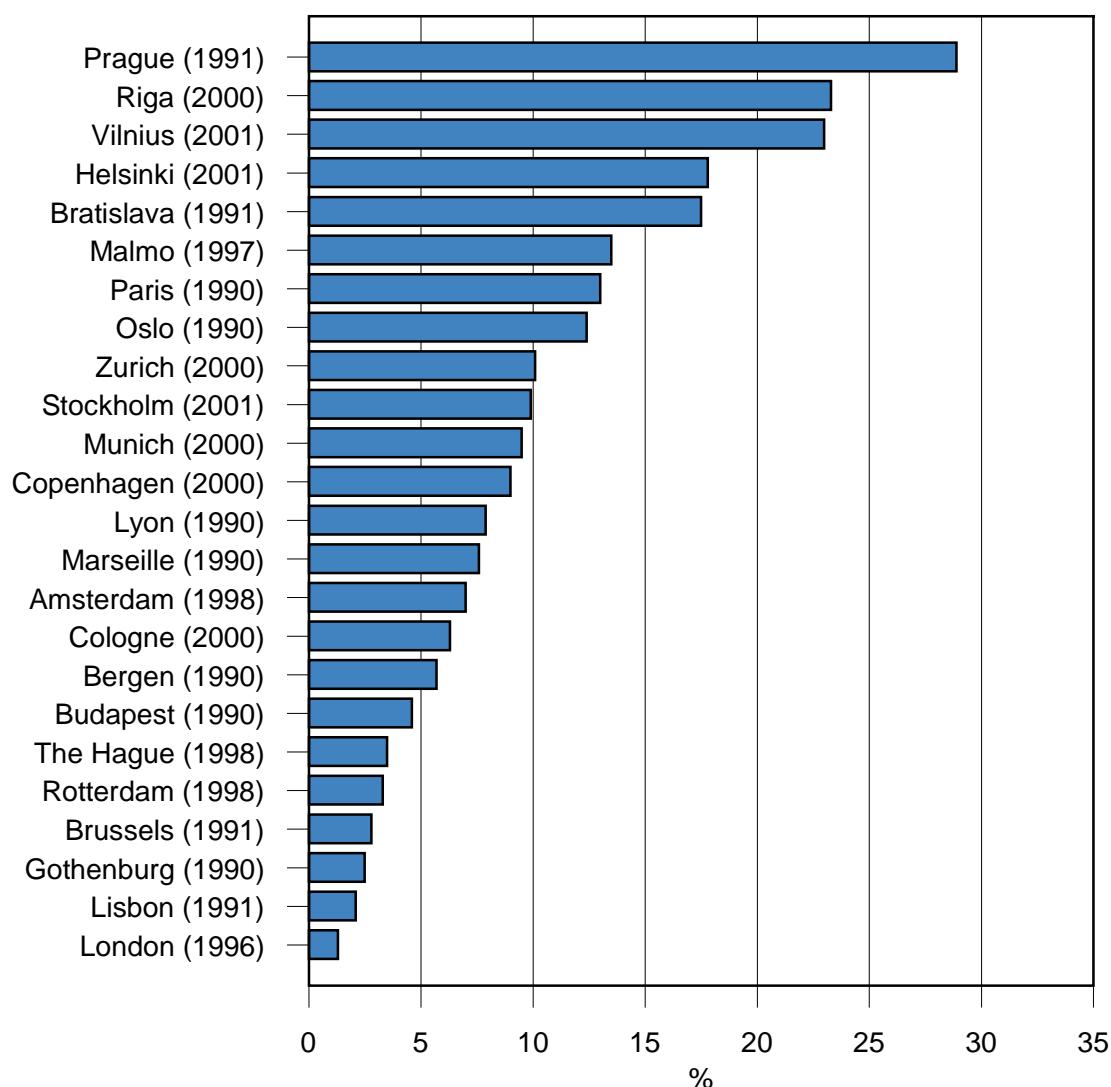


* In multi-dwelling buildings

Table 6. Proportion of Single Room Dwellings (%)

City	Amount	%	City	Amount	%
Amsterdam (1998)	27 700	7,0	Lyon (1990)	38 784	7,9
Bergen (1990)	5 376	5,7	Malmo (1997)	18 257	13,5
Bratislava (1991)	28 302	17,5	Marseille (1990)	36 468	7,6
Brussels (1991)	10 962	2,8	Munich (2000)	66 521	9,5
Budapest (1990)	35 809	4,6	Oslo (1990)	30 206	12,4
Cologne (2000)	32 658	6,3	Paris (1990)	490 556	13,0
Copenhagen (2000)	25 152	9,0	Prague (1991)	143 498	28,9
Gothenburg (1990)	5 341	2,5	Riga (2000)	56 048	23,3
The Hague (1998)	7 800	3,5	Rotterdam (1998)	9 300	3,3
Helsinki (2001)	52 707	17,8	Stockholm (2001)	39 977	9,9
Lisbon (1991)	4 804	2,1	Vilnius (2001)	44 227	23,0
London (1996)	39 000	1,3	Zurich (2000)	18 865	10,1

Figure 6. Proportion of Single Room Dwellings (%)



2.2 Dwellings by Type of Building

Of the cities compared, living in a detached house is most common in Bergen, where almost a third of all dwellings are in detached houses of one to two dwellings. In Gothenburg also, detached houses have a higher share than in the other cities, approximately one fifth. Helsinki has the lowest figure of the Nordic cities. In Helsinki 7 % of the housing stock is made up by detached houses, and of all the cities compared, the figure is lower only in Barcelona and Zurich.

Table 7. Dwellings by Type of Building (%)

	Multi-dwelling buildings	1 or 2-dwelling buildings	Other or unknown
Barcelona (1991)	95,4	4,5	0,1
Bergen (1999)	68,9	31,0	0,1
Frankfurt (1994)	92,7	7,3	0,0
Gothenburg (2001)	78,9	21,1	0,0
Hamburg (1994)	85,4	14,6	0,0
Helsinki (2001)	91,0	7,3	1,7
Cologne (1995)	89,1	10,9	0,0
Copenhagen (2001)	92,3	7,6	0,2
Malmo (2001)	82,3	17,7	0,0
Munich (1994)	91,6	8,4	0,0
Oslo (1999)	87,6	12,2	0,2
Riga (2000)	81,4	8,3	10,2
Tallinn (2001)	86,7	13,3	0,0
Stockholm (2001)	89,4	10,6	0,0
Vienna (1991)	89,4	10,6	0,0
Zurich (2000)	93,3	5,3	1,4

2.3 Dwellings by Year of Construction

Data on the year of construction was not available for many cities. Helsinki has a young housing stock. Of all the cities compared, only in Helsinki has over 40 % of the stock been built after 1970 and over 75 % after 1949. By contrast, for example in Copenhagen, 69 % and in London, 62 % of the housing stock have been constructed before 1950.

Figure 7. Dwellings by Type of Building

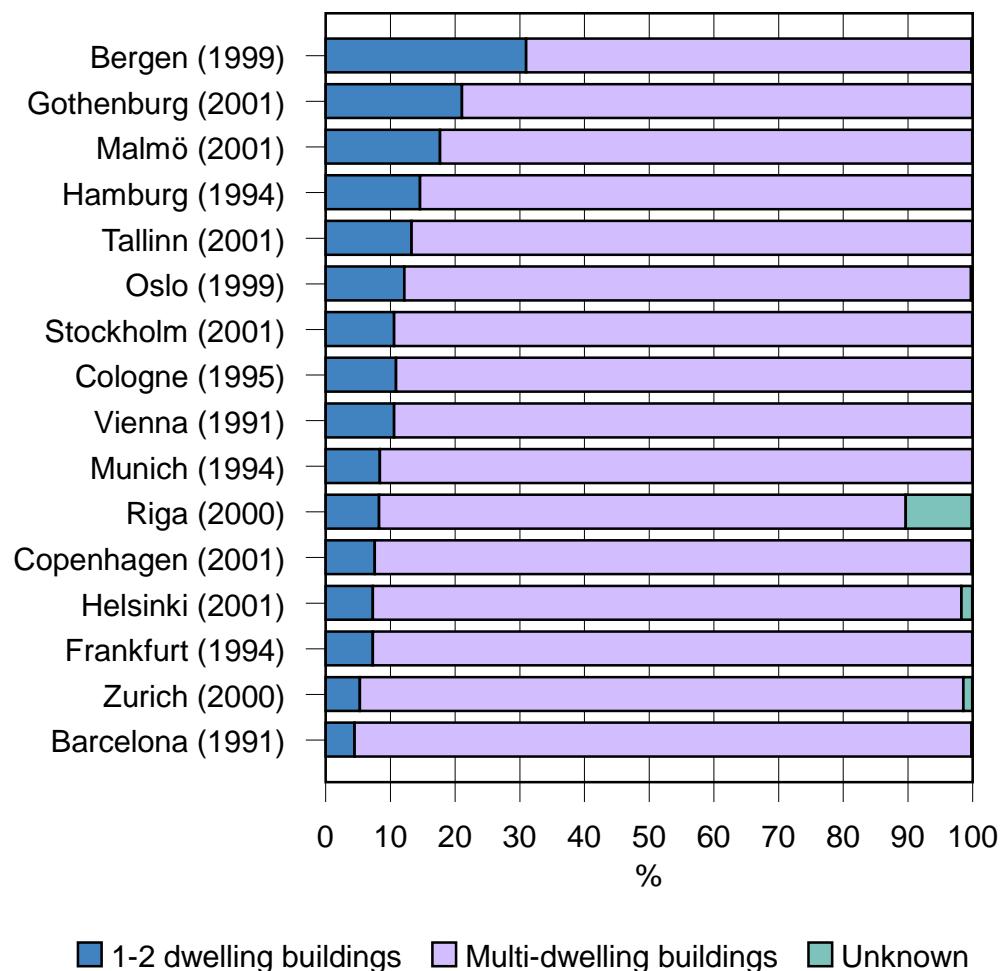


Table 8. Dwelling Stock by Year of Construction (%)

	-1949	1950-1969	1970-
Amsterdam *	49,3	27,7	23,0
Barcelona	25,5	47,2	28,1
Copenhagen	68,9	20,6	12,8
Gothenburg	33,6	43,5	21,5
Helsinki	24,8	33,5	41,6
London	62,4	22,0	15,6
Malmo	34,3	40,7	25,1
Oslo	27,7	35,4	36,9
Vienna	49,6	29,3	21,1
Zurich	52,3	28,6	19,1

Amsterdam *	-1946	1947-1979	1980-
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St.Erik's Hospital area, Stockholm in 1997

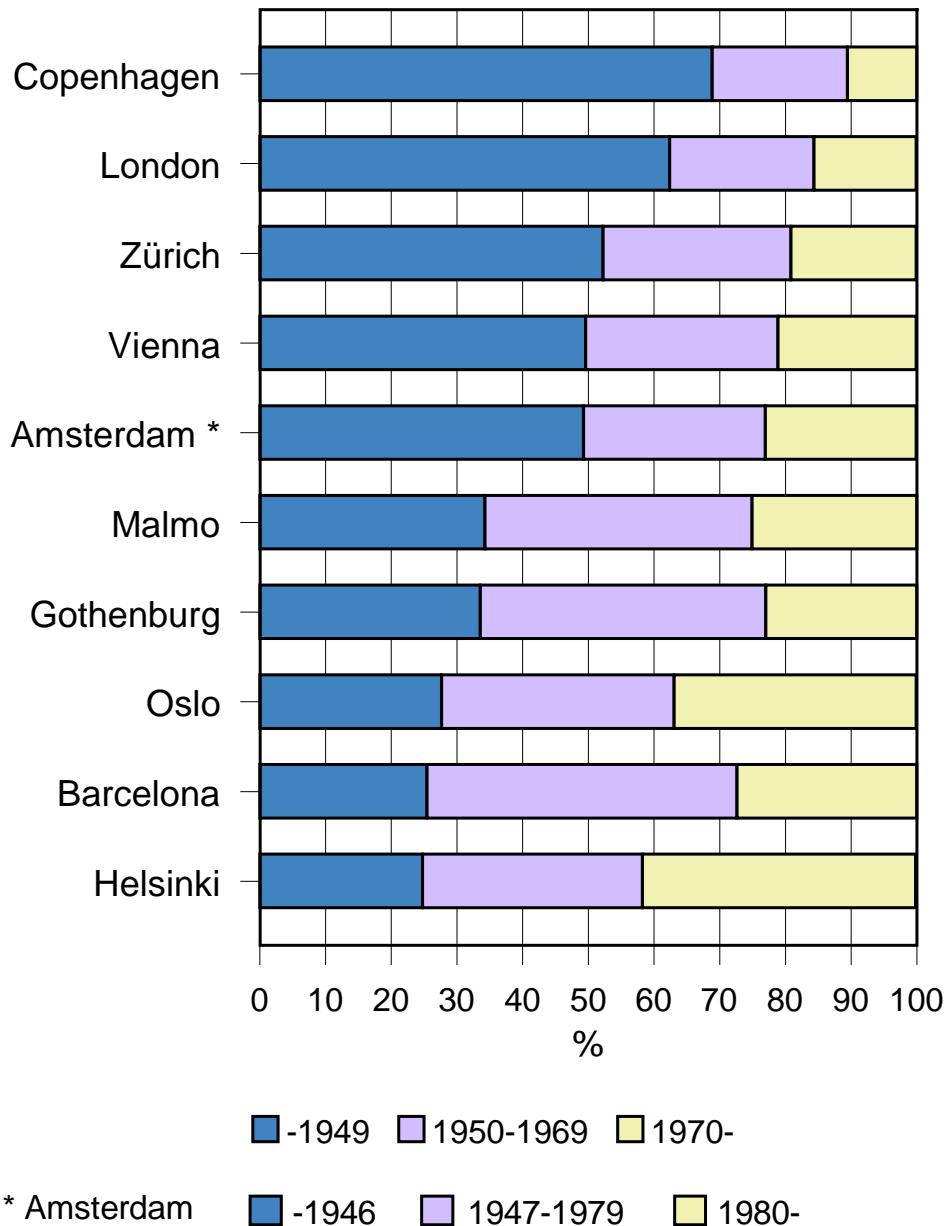
Photo: Jussi Kautto



New housing in the centre of Frankfurt am Main in 1995

Photo: Jussi Kautto

Figure 8. Dwelling Stock by Year of Construction (%)



2.4 Population by Number of Rooms

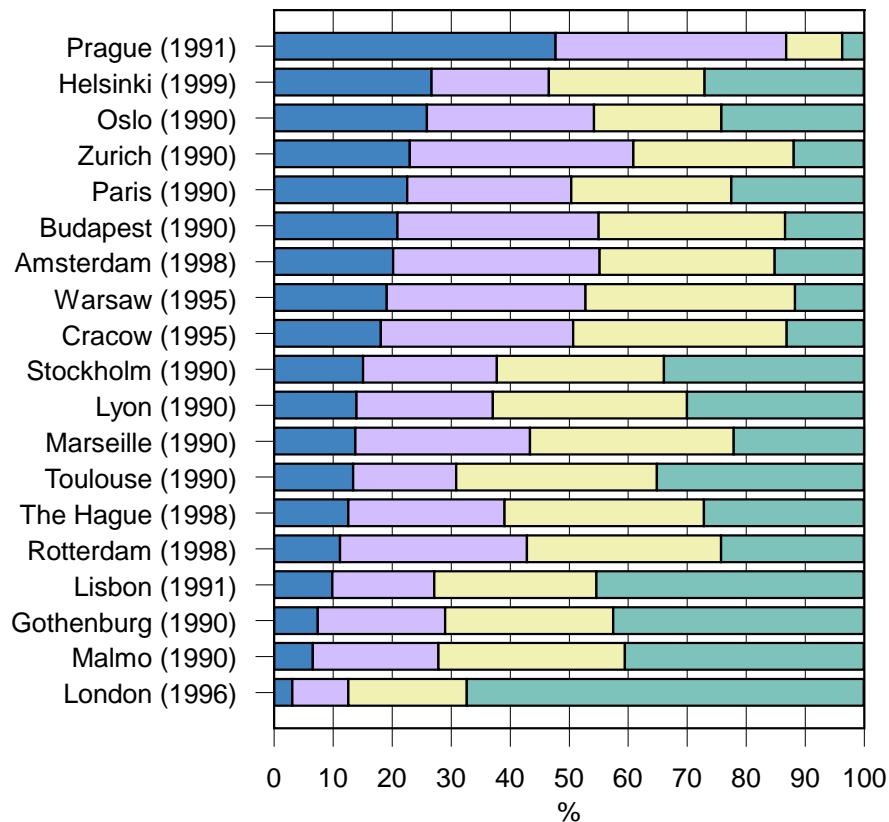
The distribution of the population by the number of rooms is to a large extent similar to the dwelling type distribution. In London 67 % of the population live in dwellings of at least five rooms, which is based on the fact that the majority of dwellings in London are large dwellings. A great majority of people live in large dwellings also in Lisbon, Malmö and Gothenburg. However, this is a question of two different phenomena: in Malmö and Gothenburg the housing density is low, whereas in Lisbon households are large. The share of persons living in one-room dwellings is the largest, almost one fifth, in Prague. Helsinki comes second in this respect. Here, one tenth of the population live in dwellings with one room.

Table 9. Population by Number of Rooms (%)

	Number of rooms (incl. kitchen)				
	1	2	3	4	5+
London (1996)	0,6	2,5	9,5	20,1	67,3
Amsterdam (1998)	4,0	16,2	35,0	29,7	15,1
Budapest (1990)	2,8	18,0	34,1	31,6	13,5
Gothenburg (1990)	1,4	5,9	21,6	28,5	41,5
The Hague (1998)	1,9	10,7	26,5	33,8	27,1
Helsinki (1999)	10,1	16,6	19,9	26,4	26,2
Cracow (1995)	-	18,1	32,6	36,2	13,1
Lisbon (1991)	1,7	8,2	17,3	27,5	45,3
Lyon (1990)	3,8	10,3	23,1	32,9	30,0
Malmö (1990)	1,6	5,0	21,3	31,6	39,5
Marseille (1990)	3,8	10,0	29,6	34,5	22,0
Oslo (1990)	7,5	18,4	28,3	21,6	24,2
Paris (1990)	7,1	15,5	27,8	27,1	22,5
Prague (1991)	18,6	29,1	39,1	9,5	3,6
Rotterdam (1998)	1,8	9,4	31,7	32,9	24,3
Toulouse (1990)	4,9	8,5	17,5	34,0	35,1
Stockholm (1990)	4,1	11,0	22,7	28,3	33,2
Warsaw (1995)	-	19,1	33,7	35,5	11,7
Zurich (1990)	7,9	15,1	37,9	27,2	11,9

* Includes population in 1- and 2-room dwellings

Figure 9. Population by Number of Rooms (%)



Number of rooms █ 1-2 █ 3 █ 4 █ 5+

2.5 Housing Standard of Households

The households of the Nordic countries and the German-speaking central Europe are small on the average. Vienna and Copenhagen have the smallest households: the mean value is 1.8 persons per dwelling. Stockholm, Helsinki, Zurich and Munich have almost equally low average household size (1.9 persons per dwelling). Large households are found in the cities of eastern Europe as well as in France. In addition to these, the average size exceeds 2.4 persons per dwelling only in Lisbon and London.

Mean household size by the number of rooms has been used here as the indicator of housing conditions. Used in this manner, it measures primarily cramped living conditions especially in dwellings with few rooms. In Lisbon, Budapest, Prague, Riga and Warsaw people are living crowded in small dwellings. For instance, in Lisbon the average number of persons living in one-room dwellings is 2.2 and in two-room dwellings 2.3. The lowest densities are in Amsterdam, The Hague, Stockholm, Gothenburg and London. The comparison is, however, hampered by the incompleteness and availability of the up-date data.

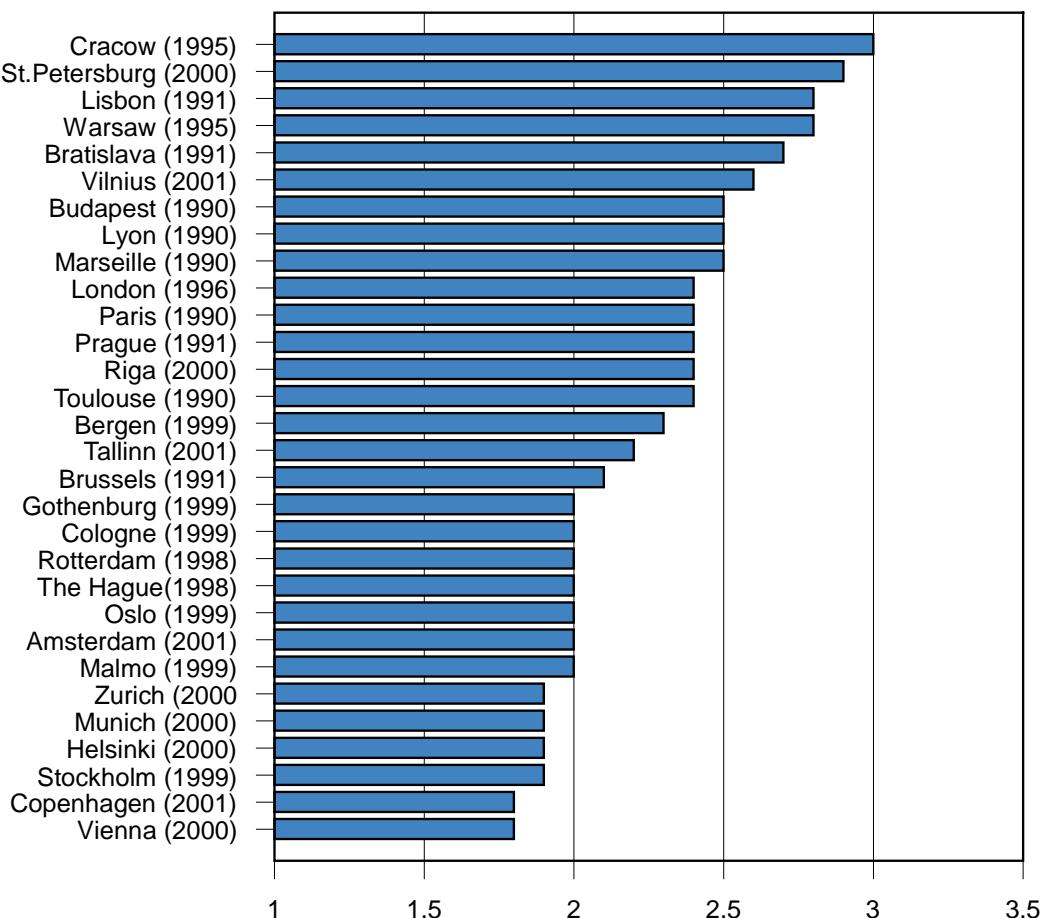
Table 10. Average Dwelling Density

City	Occupants per dwelling
Amsterdam (2001)	2,0
Bergen (1999)	2,3
Bratislava (1991)	2,7
Brussels (1991)	2,1
Budapest (1990)	2,5
Cologne (1999)	2,0
Copenhagen (2001)	1,8
Cracow (1995)	3,0
Gothenburg (1999)	2,0
The Hague (1998)	2,0
Helsinki (2000)	1,9
Lisbon (1991)	2,8
London (1996)	2,4
Lyon (1990)	2,5
Malmo (1999)	2,0
Marseille (1990)	2,5
Munich (2000)	1,9
Oslo (1999)	2,0
Paris (1990)	2,4
Prague (1991)	2,4
Riga (2000)	2,4
Rotterdam (1998)	2,0
St.Petersburg (2000)	2,9
Stockholm(1999)	1,9
Tallinn (2001)	2,2
Toulouse (1990)	2,4
Warsaw (1995)	2,8
Vienna (2000)	1,8
Vilnius (2001)	2,6
Zurich (2000)	1,9

Table 11. Occupants per Dwelling by Number of Rooms

City	Total	Number of rooms							
		1	2	3	4	5	6	7	8+
Amsterdam (2001)	1,8	1,0	1,3	1,6	2,3	2,8	3,1	1,9	3,5
Bergen (1999)	2,2	1,3	1,4	1,9	2,6	3,0	3,3	3,6	3,6
Budapest (1990)	2,5	1,6	1,8	2,4	3,1	3,5	4,0	4,3	-
Copenhagen (2001)	1,8	1,2	1,4	2,0	2,4	2,8	-	-	-
Cracow (1995)	3,0	-	2,1	2,9	3,6	4,2	-	-	-
Gothenburg (1999)	1,9	1,1	1,1	1,3	2,0	2,7	3,0	3,2	3,4
The Hague (1998)	2,0	1,0	1,2	1,7	2,3	2,8	2,9	2,8	2,9
Helsinki (2000)	1,9	1,1	1,4	1,7	2,4	3,0	-	-	-
Lisbon (1991)	2,8	2,2	2,3	2,5	2,7	3,0	3,1	3,1	3,3
London (1996)	2,4	1,1	1,2	1,5	2,1	2,6	2,9	3,2	3,4
Lyon (1990)	2,5	1,2	1,5	2,1	3,0	3,6	3,9	-	-
Malmo (1999)	1,8	1,1	1,1	1,3	1,9	2,6	2,8	3,0	3,2
Marseille (1990)	2,5	1,2	1,5	2,2	3,0	3,6	3,9	-	-
Oslo (1999)	1,9	1,1	1,4	1,8	2,3	2,7	2,9	3,1	3,3
Paris (1990)	2,4	1,3	1,7	2,4	3,1	3,5	3,8	-	-
Prague (1991)	2,4	1,6	2,3	3,1	3,5	3,7	-	-	-
Riga (2000)	2,4	1,7	2,3	3,0	3,3	-	-	-	-
Rotterdam (1998)	2,0	1,1	1,2	1,6	2,4	2,8	3,4	3,3	2,5
Stockholm(1999)	1,8	1,1	1,1	1,4	2,0	2,6	2,8	3,0	3,1
Toulouse (1990)	2,4	1,2	1,4	2,0	2,7	3,3	3,6	-	-
Warsaw (1995)	2,8	-	2,1	2,6	3,2	3,8	-	-	-
Zurich (2000)	1,9	1,1	1,3	1,9	2,6	2,8	3,0	3,1	3,4

Figure 10. Average Number of Occupants per Dwelling



2.6 Dwellings by Tenure Status

In this report, dwellings are classified by tenure status into owner-occupied and rented dwellings. The latter have their largest proportions in Copenhagen, Vienna, Lyon and Paris. In Copenhagen and Vienna four fifths of dwellings are rented. Owner occupation, on the other hand, is most common in Oslo, where the share of owner-occupied dwellings was 76 % in the 1990 statistics. Also in Zurich and Edinburgh the clear majority of dwellings are occupied by the owner.

However, the picture of the distribution of the housing stock by tenure status becomes a little more elaborate when some cities are examined more closely.

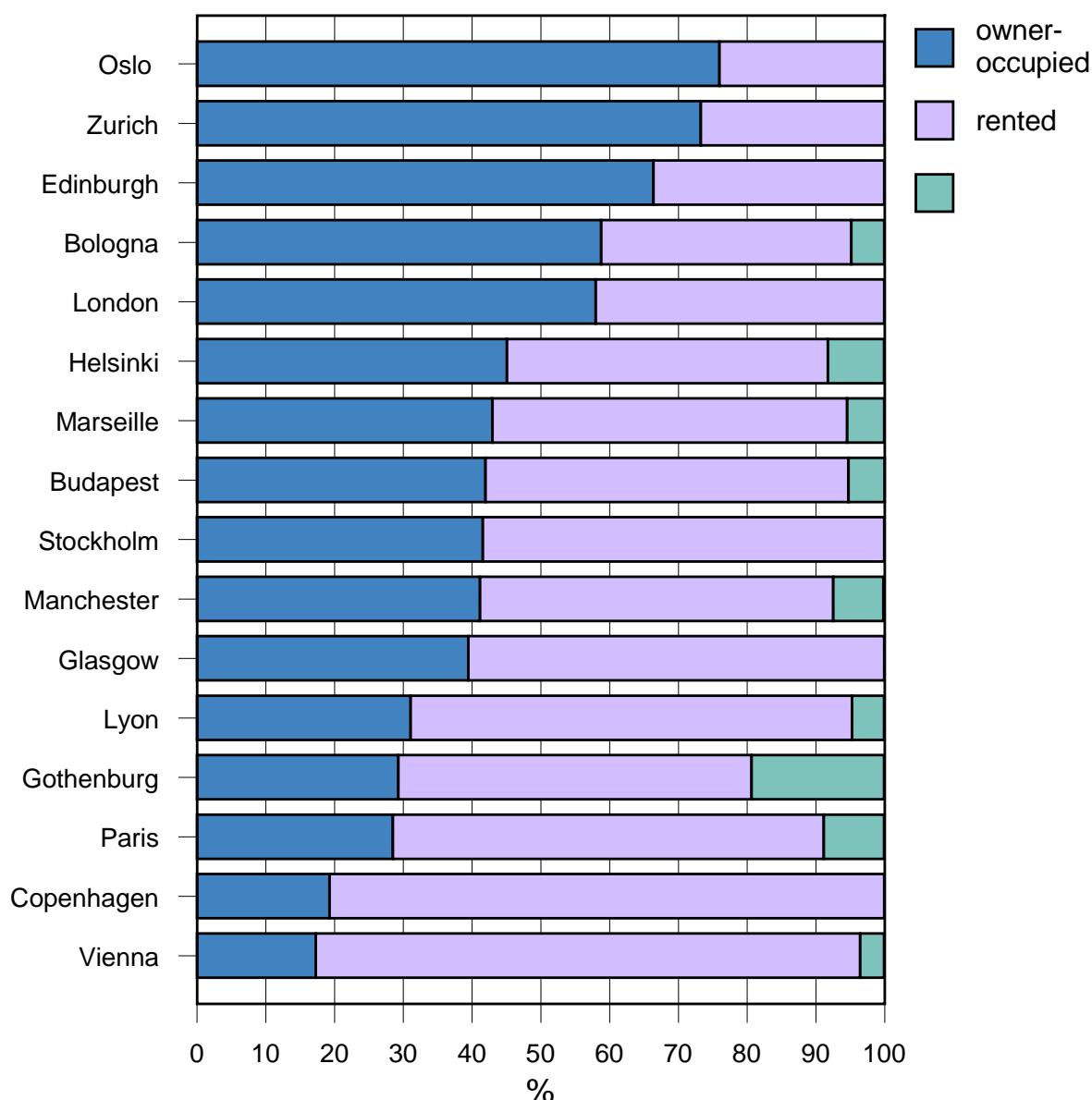
For example, in Helsinki, 47 % of dwellings are rented, and of them, 41 % belong to social housing. The proportion of rented flats owned by the city form 18 % of all dwellings in Helsinki. In Stockholm, rented dwellings make up 58 % of the total housing stock, and there the municipal housing corporations own 27 % of all dwellings. In Copenhagen, by contrast, the state and the city own only one per cent, non-profit organisations 20 % and housing cooperatives 31 % of all dwellings. In Copenhagen the proportion of rented dwellings is 81 % of the total housing stock.

In London, the proportion of municipal rented dwellings is 22 % of the housing stock. In Zurich 8 % of the housing stock is owned by the state or the city and 19 % by housing associations. The proportion of rented dwellings is 27 % of all dwellings in Zurich.

Table 12. Dwellings by Tenure Status

City	Owner-occupied	Rented	Other / unknown	City	Owner-occupied	Rented	Other / unknown
Bologna (1991)	58,8	36,4	4,8	Lyon (1990)	31,1	64,2	4,7
Budapest (1990)	42,0	52,8	5,3	Manchester (1991)	41,2	51,4	7,3
Copenhagen (2001)	19,3	80,7		Marseille (1990)	43,0	51,6	5,4
Edinburgh (1991)	66,4	33,6		Oslo (1990)	76,0	24,0	
Glasgow (1995)	39,5	60,5		Paris (1990)	28,5	62,7	8,8
Gothenburg (1990)	29,3	51,4	19,3	Stockholm (2000)	41,6	58,4	
Helsinki (1999)	45,1	46,7	8,2	Vienna (2000)	17,3	79,2	3,5
London (2001)	58,0	42,0		Zurich (2000)	73,3	26,7	

Figure 11. Dwellings by Tenure Status





3. HOUSING PRODUCTION

3. HOUSING PRODUCTION

3.1 Completed Dwellings

In the 1990s, the volume of housing production and the numbers of completed dwellings have varied quite significantly in different cities. For instance, housing production has been fairly intensive in Helsinki. In the years 1991 to 2001, an average of 3 828 dwellings were completed each year. The annual production has exceeded that of Helsinki only in London, St. Petersburg, Vienna, Munich and Barcelona. For example, in Stockholm the average number of completed dwellings was 1 673, in Oslo, 1 365 and in Copenhagen, 925 per year.

The housing production in Helsinki has been exceptionally large also in relation to the population of the city. For instance, in 2000 the number of completed dwellings per 1000 inhabitants was 8,74. Vienna is also a city of lively housing construction; there the figure was 7,25 per 1000 inhabitants in the same year. More than four dwellings per 1000 inhabitants were completed only in Munich and Zurich. In the other Nordic capitals, the number of dwellings constructed per 1000 inhabitants in 2000 was clearly smaller than in Helsinki - 1.53 in Stockholm, 2.04 in Oslo and 0.98 in Copenhagen.

Table 13. Completed Dwellings 1991-2001

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Annual mean
Amsterdam	-	-	-	-	-	-	-	-	-	2423	-	2423
Barcelona	2825	4556	3344	2288	2704	4569	5540	6770	7096	5026	-	4472
Bergen	1190	774	786	741	1030	847	1087	793	694	855	-	880
Bologna	274	779	530	767	767	343	112	439	1109	866	771	599
Brussels	-	-	-	2124	2563	-	-	-	-	-	-	2344
Copenhagen	1370	561	595	1447	1619	902	863	493	560	491	-	890
Gothenburg	-	1280	1092	779	435	1094	652	929	648	1138	-	894
Helsinki	4908	3163	3771	3671	4769	2614	2935	3913	3056	4853	4457	3828
London	17232	17077	14433	14632	15122	16291	12577	13623	12480	14280	14105	14775
Malmö	-	981	1003	553	229	619	300	376	646	292	-	555
Munich	5765	6250	7257	5755	5824	7470	4529	5057	5587	5720	-	5921
Oslo	2243	863	1051	1349	1913	1096	1442	1077	1583	1037	-	1365
Riga	-	-	-	-	411	125	166	49	49	115	-	153
Rome	-	-	-	5142	5554	4355	3060	1905	-	2905	-	3820
St.Petersburg	18900	11100	13400	15000	16400	-	-	-	14900	15191	-	14984
Stockholm	2483	2993	2285	1766	796	1081	1779	1224	1170	1150	-	1673
Tallinn	-	-	-	-	-	-	-	-	304	424	-	364
Vienna	5803	5176	5814	6429	7381	11921	9639	9363	12878	11713	-	8612
Vilnius	-	-	-	-	-	-	-	-	-	2065	-	2065
Zurich	1162	562	900	854	630	614	404	787	723	1465	-	810

Figure 12. Completed Dwellings 1991-2001

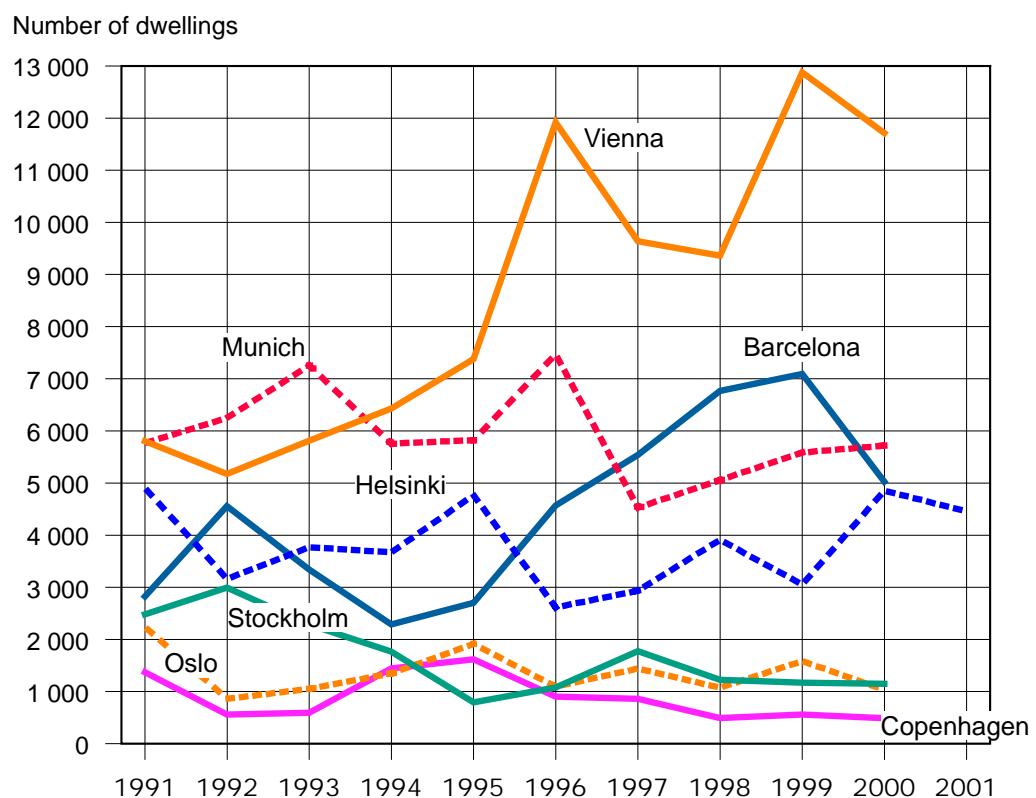


Figure 13. Completed Dwellings, Annual Mean

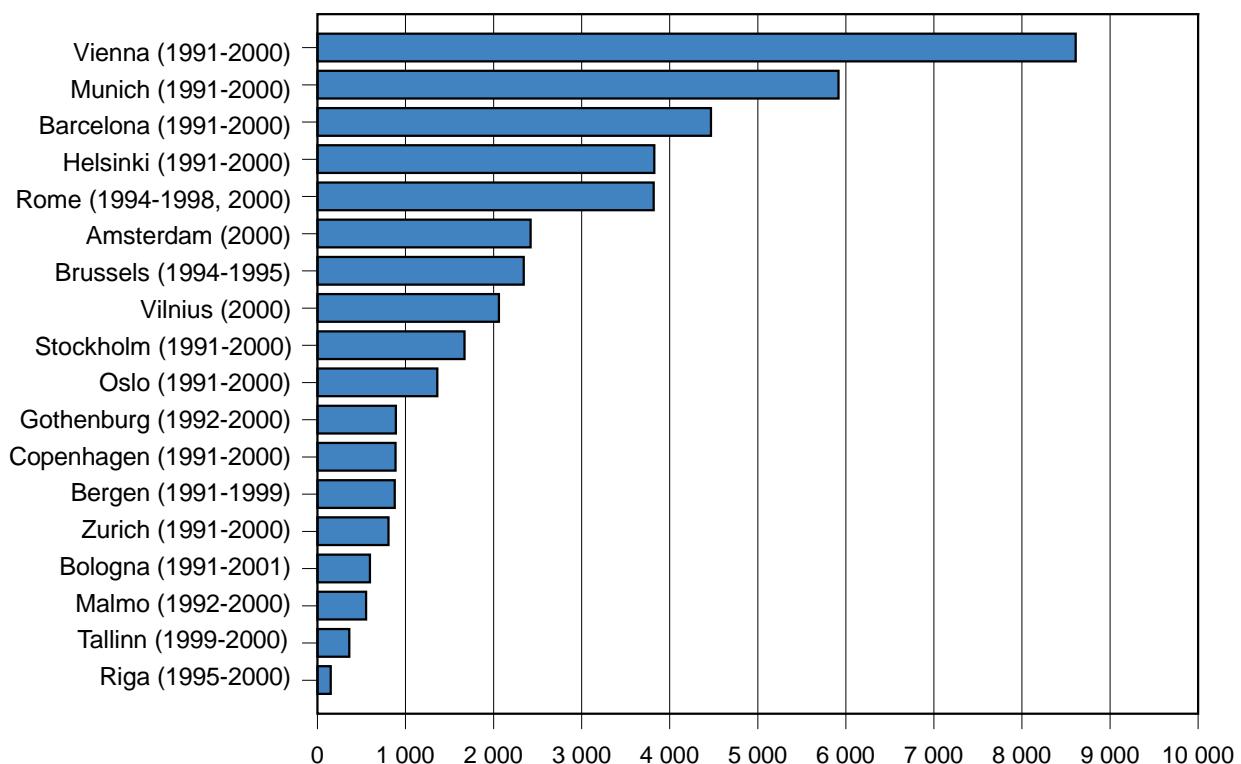
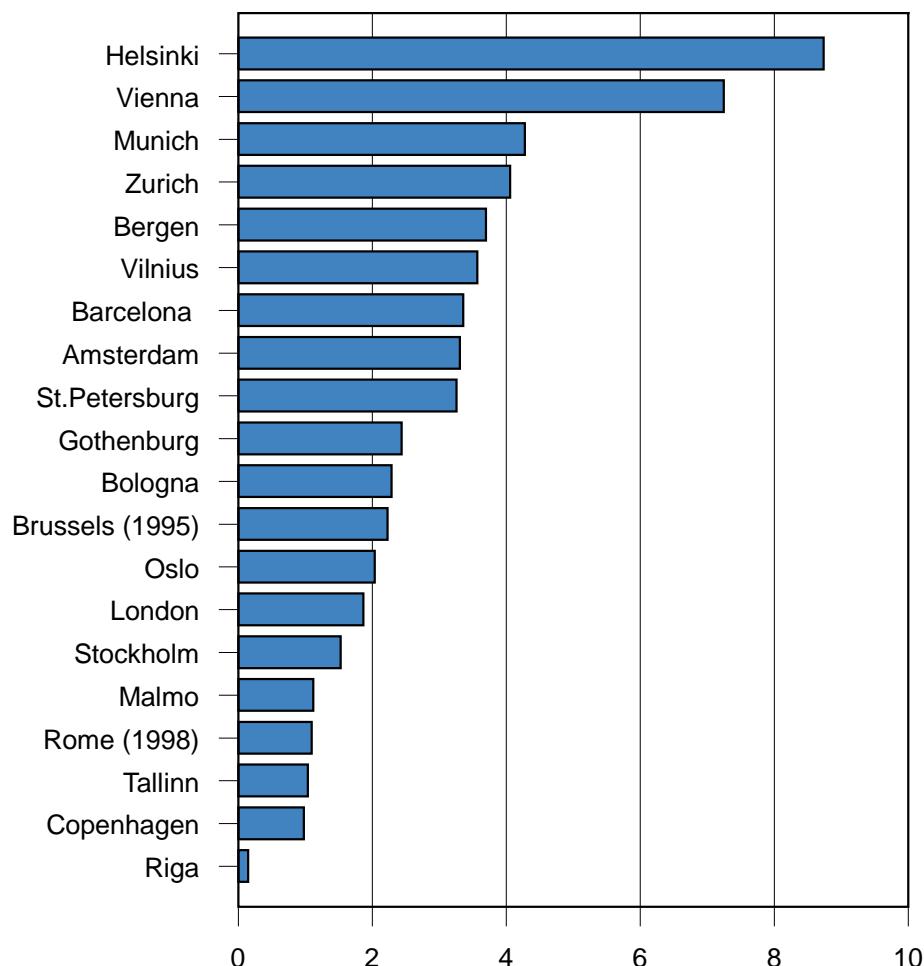


Figure 14. Completed Dwellings per 1000 Inhabitants, year 2000



3.2 Completed Dwellings by Number of Rooms

The housing production has been concentrated in the 1990s on small dwellings in Vienna, Malmo and Gothenburg. In these cities, the average share of one-room dwellings of all completed dwellings has been approximately one fifth. On the other hand, the construction of large dwellings with more than four rooms has been extensive in Malmo and Gothenburg - their proportion being one third of the total housing production in Malmo and slightly over two fifths in Gothenburg.

In Helsinki, more than half of the dwellings constructed have been two- to three-room flats. The share of large dwellings with more than four rooms has been one sixth. The proportion of large dwellings has been smaller only in Vienna, Copenhagen and Zurich. In regard to the number of rooms, the housing production profile in Helsinki resembles the most those of Munich and Zurich.

The share of large dwellings has been the highest in Bergen where they have accounted for over half of the completed new stock. Their proportion has been significant also in Oslo, Stockholm and London.

Table 14. Completed Dwellings by Number of Rooms (%)

	Number of rooms				
	1	2	3	4	5+
Bergen (1992-2000)	0,6	1,5	19,0	21,5	57,5
Bologna (1991-2001)	13,5	5,5	22,5	39,1	19,4
Copenhagen (1994-1997)	0	4,2	28,1	53,8	14,0
Gothenburg (1992-2000)	18,9	3,2	17,1	18,5	42,3
Helsinki (1991-2001)	3,1	28,1	28,4	23,2	17,2
London (1991-2001)			* 28,3	42,4	29,3
Malmo (1992-2000)	20,1	8,7	20,9	17,2	33,1
Munich (1987-2000)	6,6	15,3	33,6	26,8	17,7
Oslo (1992-2000)	2,9	1,9	29,5	27,6	38,1
Rome (1994-1998)	1,1	10,9	27,6	35,3	25,2
Stockholm 1992-2000)	5,9	6,2	29,7	28,2	30,2
Vienna (1996-2000)	18,3	29,3	37,3	12,1	3,0
Zurich (1993-2000)	5,1	20,7	27,5	31,8	14,9

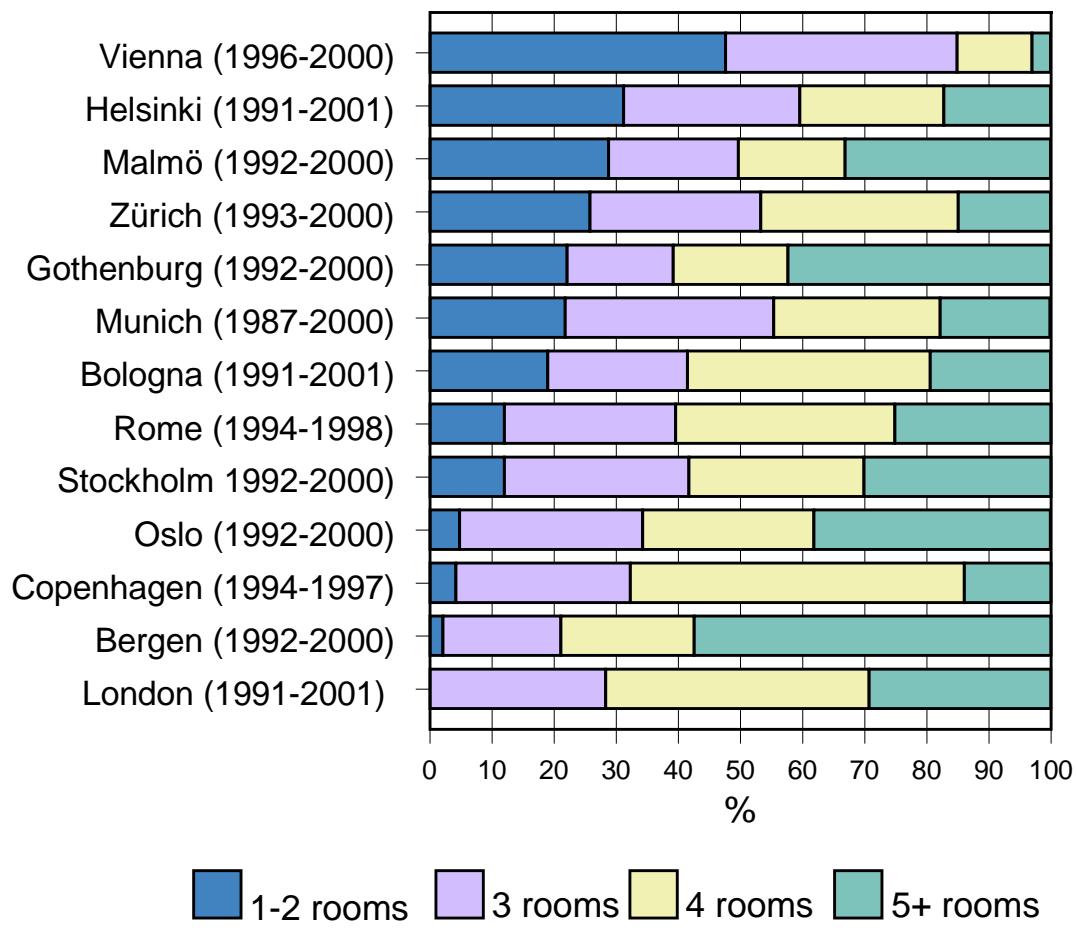
* Includes dwellings with 1-3 rooms

Table 15. Annual Mean of Completed Dwellings by Number of Rooms

	Number of rooms					
	1	2	3	4	5+	Total
Bergen (1992-2000)	8	14	160	181	486	845
Bologna (1991-2001)	82	34	137	238	118	608
Copenhagen (1994-1997)	0	39	264	506	131	941
Gothenburg (1992-2000)	169	29	153	166	378	894
Helsinki (1991-2001)	118	1077	1 086	887	660	3 828
London (1991-2001)			* 4131	6 188	4 282	14 601
Malmo (1992-2000)	112	48	116	96	184	555
Munich (1987-2000)	408	944	2 081	1 661	1 093	6 187
Oslo (1992-2000)	42	25	392	363	475	1 297
Rome (1994-1998)	45	436	1 103	1 412	1 007	4 003
Stockholm 1992-2000)	93	97	470	446	478	1 584
Vienna (1996-2000)	2 030	3 257	4 140	1 348	328	11 103
Zurich (1993-2000)	41	165	219	253	119	797

* Includes dwellings with 1-3 rooms

Figure 19. Completed Dwellings by Number of Rooms (%)





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4. REFERENCES

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Jugend style houses under renovation
in the UNESCO world heritage area,
Alberta iela -street, Riga in 2002

Photos: Jussi Kautto