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STATISTICAL YEARBOOK

THE CITY OF
ZAGREB



CITY OF ZAGREB
CITY OFFICE FOR
THE STRATEGIC
PLANNING
AND DEVELOPMENT
OF THE CITY

Publisher

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**STATISTICAL YEARBOOK
OF THE CITY OF ZAGREB
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INTRODUCTION

The City of Zagreb is one of the fastest growing European metropolises in the last century, where the only constant is change. It is precisely why planning its development is particularly complex and requires harmonization of various interests with regard to society, economy and physical planning. Relevant, reliable and high quality statistical data are required as the basis for determining strategic development goals, for managing social and municipal infrastructure and for monitoring the quality of life in the city.

Data represent an important tool for analysing variable urban development patterns and impacts of management decisions on life. The Yearbook contains standardized and comparable information on socio-economic trends in the City of Zagreb, which are the result of statistical surveys based on the Programme of Statistical Activities of the Republic of Croatia and are harmonized with international methodologies. In addition, the Yearbook contains data on environment, geography, meteorology, politics and other basic data on the City of Zagreb, which were collected from various institutions and associates who record statistical data relevant for the areas of their activities.

Capitals have the potential to play a key role in the urban development of the European Union; they function as hubs for competitiveness and employment and can be seen as drivers of growth and innovation, as well as centres of education, science, social, cultural and ethnic diversity. Comparison of economic performance of European cities suggests that the capitals – metropolitan regions of European capitals in particular – generally outperform other cities. In the EU member states, the capital cities exert a form of “capital magnetism”. Whether such inequalities have a positive or negative impact on national economy is open to debate, since the capital cities that dominate national economies may create high levels of income and wealth that radiate to surrounding regions and improve the status of other cities and counties.

We live in a world full of specialists and specializations, so statistics are also becoming a matter handled by specialists, people who completed special studies and have particular interests. However, I believe that statistics should first and foremost be useful and accessible, displaying a sense of responsibility and pronounced understanding of the complexity of life in a city. Owing to this reason, this 66th edition has been

modernized and improved with new content, new graphic design and new manners of data presentation.

Reliable and impartial statistical data provide the necessary facts required by a wide range of users in the fields of administration, economy, science, as well as citizens who use such data to prepare expert and scientific analyses, business forecasts and plans, and to make decisions in various aspects of social, economic, and political life, and physical planning.

I would like to sincerely thank all the employees of the Department of Statistics, associates from the city administration of the City of Zagreb, the Croatian Bureau of Statistics and many other institutions that have contributed to the development of this publication.

Head of the City Office for
the Strategic Planning and Development of the City

Sanja Jerković, B.Sc. Arch.

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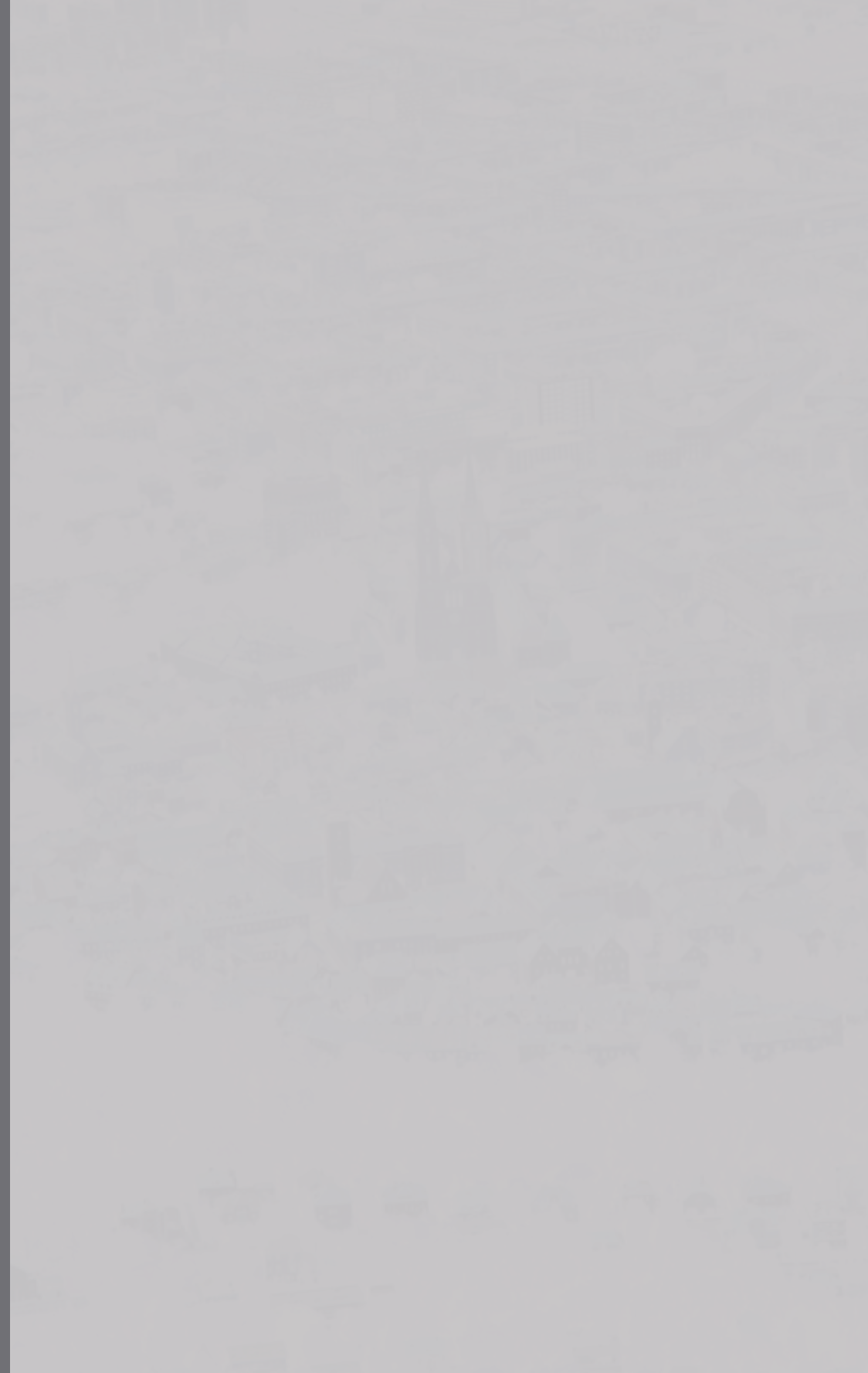
ABBREVIATIONS

ARKOD	Land Parcel Identification System (LPIS)	km	kilometre
Art.	Article	km ²	square kilometre
°C	degree Celsius	kWh	kilowatt hour
CBS	Croatian Bureau of Statistics	L/m ²	litres per square metre
CEFTA	Central European Free Trade Agreement	°MCS	Mercalli-Cancani-Sieberg scale
cif	cost, insurance and freight	m	metre
CPA	Classification of Products by Activity	m ²	square metre
DB	Decibel	m ³	cubic metre
d. o. o.	limited liability company (Ltd.)	m ³ /s	cubic metres per second
DSL	Digital Subscriber Line	mg/m ³	milligram per cubic metre
EFTA	European Free Trade Association	MD	medical doctor
e.g.	for example	MG	Mediterranean Games
EPR	Environmental Pollution Register	mil.	million
ESA	European System of National Accounts	mm	millimetre
EU	European Union	MSL	Mean Sea Level
Eurostat	Statistical Office of the European Communities	MWh	megawatt hour
EC	European Community	NACE	Statistical Classification of Economic Activities in the European Community
e.t.c.	and so on (from Latin: et cetera)	ng/m ³	nanogram per cubic metre
Fina	Financial Agency	NCA	National Classification of Activities
fob	free on board	No.	number
GWh	gigawatt hours	e.g.	for example
h	hour	OG	Official Gazette
ha	hectare	OPEC	Organization of the Petroleum Exporting Countries
HAKOM	Croatian Regulatory Authority for Network Industries	pH	a measure of the acidity or alkalinity of a solution
HEP	Croatian National Energy Company	NP	nature park
HP	Croatian Post	RRIF	Accounting, revision and finances
hPa	hectopascal	SMS	Short Message Service
HPA	Croatian Agricultural Agency	SNA	System of National Accounts
HRK	Croatian kuna	t	ton
HRT	Croatian Radio and Television	TT	telegraph and telephone
HT	Croatian Telecom	TV	television
i.e.	that is	ZET	Zagreb Electric Tram
JOPPD	Report on income, income tax and surtax, and contributions for mandatory insurance	ZG	Zagreb

Symbols

-	no occurrence
.....	data not available
*	corrected data
¹⁾	footnotes
<	less than
>	more than
≥	more than or equal to
≤	less than or equal to
%	percentage

0	value not zero but less than 0.5 of the unit of measure used
0.0	value not zero but less than 0.05 of the unit of measure used
0.00	value not zero but less than 0.005 of the unit of measure used
0.000	value not zero but less than 0.0005 of the unit of measure used



00

Zagreb identities





Our Lady of the Stone Gate
Patron saint of the City of Zagreb

31 May - DAY OF THE CITY OF ZAGREB

ARCHBISHOPS OF ZAGREB

The first written record of Zagreb, concerning the establishment of the diocese (in 1094), marked the history of Zagreb for nine centuries.

A. Benigar, one of the writers of Zagreb's history described Zagreb as "... a city on a hill, a lighthouse from which unquenchable and safe light beams to all people".

It is a city of strong spiritual values and identity. The threads that hold together the tapestry of Zagreb's values are, above all, the names of its archbishops:

- | | |
|---------------------------------------|-------------|
| 1. Juraj HAULIK de Varallya, cardinal | |
| bishop | 1837 – 1853 |
| archbishop | 1853 – 1869 |
| 2. Josip MIHALOVIĆ, cardinal | 1870 – 1891 |
| 3. Juraj POSILOVIĆ | 1894 – 1914 |
| 4. Antun BAUER | 1914 – 1937 |
| 5. Alojzije STEPINAC, cardinal | 1937 – 1960 |
| 6. Franjo ŠEPER, cardinal | 1960 – 1969 |
| 7. Franjo KUHARIĆ, cardinal | 1970 – 1997 |
| 8. Josip BOZANIĆ, cardinal | 1997 – |



MAYORS OF ZAGREB

1. Janko KAMAUF	1851 – 1857
2. Josip F. HAERDTL ¹⁾	1857
3. Svetozar KUŠEVIĆ ¹⁾	1858
4. Johan LICHTENEGGER ¹⁾	1858 – 1861
5. Vjekoslav FRIGAN	1861 – 1868
6. Makso MIHALIĆ	1868 – 1869
7. Dragutin pl. CZEKUS ²⁾	1869 – 1872
8. Pavao HATZ	1872 – 1873
9. Stjepan VRABČEVIĆ	1873
10. Ivan VONČINA	1873 – 1876
11. Stanko ANDRIJEVIĆ	1876 – 1879
12. Matija MRAZOVIĆ	1879 – 1881
13. Josip HOFFMANN	1881 – 1885
14. Nikola BADOVINAC	1885 – 1887
15. Ignjat SIEBER	1887 – 1890
16. Milan AMRUŠ	1890 – 1892
17. Adolf MOŠINSKY	1892 – 1904
18. Milan AMRUŠ	1904 – 1910
19. Janko HOLJAC	1910 – 1917
20. Stjepan SRKULJ	1917 – 1919
21. Svetozar DELIĆ	1920
22. Vjekoslav HEINZEL	1920 – 1928
23. Stjepan SRKULJ	1928 – 1932
24. Ivo KRBEK	1932 – 1934
25. Rudolf ERBER	1934 – 1936
26. Teodor PEIČIĆ	1937 – 1939
27. Mate STARČEVIĆ	1939 – 1941
28. Jozo DUMANDŽIĆ	1941 – 1942
29. Ivan WERNER	1942 – 1944
30. Eugen STAREŠINIĆ	1944 – 1945
31. Dragutin SAILI	1945 – 1949
32. Mika ŠPILJAK	1949 – 1950
33. Milivoj RUKAVINA	1950 – 1951
34. Mirko PAVLEKOVIĆ	1951 – 1952
35. Većeslav HOLJEVAC	1952 – 1963
36. Pero PIRKER	1963 – 1967
37. Ratko KARLOVIĆ ¹⁾	1967
38. Josip KOLAR MATEK	1967 – 1972
39. Ivo VRHOVEC	1972 – 1978
40. Ivo LATIN	1978 – 1982
41. Mato MIKIĆ	1982 – 1983
42. Aleksandar VARGA	1983 – 1984
43. Zorislav ŠONJE	1984 – 1985
44. Tito KOSTY	1985 – 1986
45. Mato MIKIĆ	1986 – 1990
46. Boris BUZANČIĆ	1990 – 1993
47. Branko Mikša	1993 – 1995
48. Marina MATULOVIĆ-DROPULIĆ	1996 – 2000
49. Milan BANDIĆ	2000 – 2002
50. Vlasta PAVIĆ	2002 – 2005
51. Milan BANDIĆ	2005-

¹⁾ Acting mayor²⁾ Judicial council member who acted as mayor per order of ban (viceroys) Rauch

MAYOR OF THE CITY OF ZAGREB

Mayor
Milan Bandić, MA (Political Science)

Deputy Mayors
Jelena Pavičić Vukičević, MA
Olivera Majić, PhD

CITY ASSEMBLY OF THE CITY OF ZAGREB

(convened on 10 July 2017)¹⁾

Andrija MIKULIĆ, PhD – President

Prof. Ana STAVLJENIĆ-RUKAVINA, PhD – Vice-president

Prof. Rajko OSTOJIĆ, PhD – Vice-president
Jozo MILIČEVIĆ, M. Sc. – Vice-president
Krešimir KARTELO – Vice-president

1. Rada BORIĆ, M. Sc.
2. Dubravka BREZAK STAMAČ, PhD
3. Zvane BRUMNIĆ, M. Eng.
4. Prof. Irena CAJNER MRAOVIĆ, PhD
5. Tamara ČUBRETOVIĆ, M. Eng. in Graphic Technology
6. Ivan ČELIĆ, MD
7. Ilija ČORIĆ, M. Eng. Graphic Technology
8. Miodrag DEMO
9. Prof. Bruna ESIH
10. Vladimir FERDELJI, M. Sc. Mech. Eng.
11. Davor FILIPOVIĆ, Assist. Prof.
12. Zlatko HASANBEGOVIĆ, PhD
13. Mislav HERMAN, MD
14. Robert HIRC, M. Econ.
15. Kazimir ILIJAŠ, LLM
16. Grgo JELINIĆ, M. Sc.
17. Tomislav JONJIĆ, PhD
18. Prof. Mate KAPOVIĆ, PhD
19. Krešimir KARTELO
20. Darko KATUŠA
21. Darko KLASIĆ, M. Eng. Radiology
22. Stanko KORDIĆ, M. Pol.
23. Darinko KOSOR
24. Sonja KÖNIG, M. Pol.
25. Iva KVAKIĆ, M. Sc.
26. Ana LEDERER, PhD
27. Nenad MATIĆ, M. Sc.
28. Andrija MIKULIĆ, PhD
29. Jozo MILIČEVIĆ, M. Sc.
30. Prof. Tihomir MILOVAC
31. Ljerka MINTAS-HODAK, PhD
32. Matej MIŠIĆ, LLM
33. Saša MOLAN, M. Econ.
34. Anka MRAK-TARITAŠ, M. Eng. Arch.
35. Vesna NAĐ, dipl. iur. univ. spec. admin. publ.
36. Dragica NIKOLIĆ, LLB
37. Ševko OMERBAŠIĆ
38. Prof. Rajko OSTOJIĆ, PhD
39. Vojin PERIĆ
40. Renato PETEK
41. Miroslav POLOVANEĆ
42. Prof. Drago PRGOMET, PhD
43. Prof. Ana RUCNER KALEMBER
44. Prof. Gordana RUSAK, PhD
45. Prof. Ana STAVLJENIĆ-RUKAVINA, PhD
46. Tomislav STOJAK, M. Pol.
47. Sandra ŠVALJEK, PhD
48. Tomislav TOMAŠEVIĆ, M. Pol.
49. Radenko TOMIĆ, M. Eng.
50. Marko TORJANAC, MA
51. Milana VUKOVIĆ RUNJIĆ, M. Sc.

Mirjana LICHTNER KRISTIĆ, dipl. iur. univ. spec. admin. publ. – Secretary of the City Assembly of the City of Zagreb

¹⁾ Data represents the status as of 13 October 2017.

Inactive City Assembly members and their deputies

1. Milan Bandić, M. Pol., Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Prof. Gordana Rusak, PhD, non-partisan (as of 10 July 2017)
2. Prof. Jelena Pavičić Vukičević, Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Prof. Irena Cajner Mraović, PhD, non-partisan (as of 10 July 2017)
3. Olivera Majić, PhD Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Vojin Perić, non-partisan (as of 10 July 2017)
4. Višnja Fortuna, M. Sc., SMSH (Party of Croatian Intergenerational Solidarity) – substituted by Grgo Jelinić, M. Sc., SMSH (Party of Croatian Intergenerational Solidarity) (as of 10 July 2017)
5. Slavko Kojić, M. Econ., Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Robert Hirc, M. Econ., Reformisti (Reformists) (as of 10 July 2017)
6. Ljubica Hrgović, SDP (Social Democratic Party) – substituted by Matej Mišić, LLM, SDP (Social Democratic Party) (as of 10 July 2017)
7. Draženko Pandek, LLM, SDP (Social Democratic Party) – substituted by Radenko Tomić, M. Eng., SDP (Social Democratic Party) (as of 10 July 2017). Radenko Tomić, M. Eng. has been a member of Stranka rada i solidarnosti (Labour and Solidarity Party) since 23 August 2017.
8. Tihomir Barišić, SDP (Social Democratic Party) – substituted by Renato Petek, Naprijed Hrvatska! (Forward Croatia!) (as of 10 July 2017)
9. Nikolina Brnjac, PhD, HDZ (Croatian Democratic Union) – substituted by Mislav Herman, MD, HDZ (Croatian Democratic Union) (as of 10 July 2017)
10. Krunoslav Katičić, HDZ (Croatian Democratic Union) – substituted by Kazimir Ilijaš, LLM, HDZ (Croatian Democratic Union) (as of 10 July 2017)
11. Branko Lustig, non-partisan – substituted by Vjekoslav Jeleč, PhD, non-partisan (as of 10 July 2017)
As of 30 August 2017, Vjekoslav Jeleč, PhD, has been an inactive member due to the appointment to another duty, rendering him incompatible to carry out the duties of a City Assembly member.
12. Vjekoslav Jeleč, PhD, non-partisan – substituted by Darko Katuša, non-partisan (as of 30 August 2017)

CITY ASSEMBLY MEMBERS

by level of education, age groups, and distribution of seats¹⁾

	Number of members of the City Assembly		
	total	representatives (male)	representatives (female)
Representatives – total	51	34	17
By level of education			
Higher education – total	41	25	16
of which:			
Doctors of Science	14	7	7
Masters of Science	8	3	5
Post-secondary education	3	2	1
Secondary education	7	7	-
Primary education	-	-	-
By age groups			
up to 29 years	2	2	-
from 30 to 39 years	5	3	2
from 40 to 49 years	18	13	5
from 50 to 59 years	18	12	6
60 years and more	8	4	4
By distribution of seats			
Bandić Milan 365 – Labour and Solidarity Party	6	3	3
Bruna Esih – Zlatko Hasanbegović: Independents for Croatia	5	3	2
Croatian Democratic Union	7	6	1
Croatian People's Party – Liberal Democrats	1	1	-
Croatian Peasant Party	1	1	-
Croatian Social Liberal Party	3	3	-
Croatian Pensioners' Party	3	1	2
Forward Croatia! – Progressive Alliance	1	1	-
People's Party – Reformists	1	1	-
Independent List of Sandra Švaljek	2	1	1
New Left	1	-	1
Workers' Front	1	1	-
Social Democratic Party of Croatia	6	4	2
Party of Croatian Intergenerational Solidarity	1	1	-
FOR THE CITY	1	-	1
Zagreb is Ours!	1	1	-
Green Leaf	1	1	-
Non-partisan	9	5	4

¹⁾ Data represents the status as of 13 October 2017.

CITY DISTRICTS OF ZAGREB

City district ¹⁾		Presidents and Vice Presidents of the City District Council		Number of members of the City District Council
1.	DONJI GRAD	Petar Paradžik	President of the City District Council	15
		Vilim Matula	Vice-President of the City District Council	
2.	GORNJI GRAD – MEDVEŠČAK	Luka Bogdan	President of the City District Council	15
		Diana Pečkaj Vuković	Vice-President of the City District Council	
3.	TRNJE	Mato Bartoluci	President of the City District Council	15
		Vedran Mihelčić	Vice-President of the City District Council	
4.	MAKSIMIR	Stanko Gačić	President of the City District Council	15
		Livija Butuči	Vice-President of the City District Council	
5.	PEŠČENICA – ŽITNJAK	Dragan Vučić	President of the City District Council	19
		Mario Župan	Vice-President of the City District Council	
6.	NOVI ZAGREB – ISTOK	Milenko Arapović	President of the City District Council	19
		Frane Barbarić	Vice-President of the City District Council	
7.	NOVI ZAGREB – ZAPAD	Jadranko Baturić	President of the City District Council	19
		Željko Fiolić	Vice-President of the City District Council	
8.	TREŠNJEVKA – SJEVER	Ivan Butorac	President of the City District Council	19
		Gabrijela Ivanov	Vice President of the City District Council	
9.	TREŠNJEVKA – JUG	Jasmina Majerić Zuber	President of the City District Council	19
		Mrzlečki Darko	Vice-President of the City District Council	
10.	ČRNOMEREC	Josip Jelić	President of the City District Council	15
		Ljiljana Peršinec	Vice-President of the City District Council	
11.	GORNJA DUBRAVA	Damir Oniško	President of the City District Council	19
		Miroslav Kožul	Vice-President of the City District Council	
12.	DONJA DUBRAVA	Milan Draženović	President of the City District Council	15
		Antun Bačić	Vice-President of the City District Council	
13.	STENJEVEC	Željko Jeger	President of the City District Council	19
		Zdravko Barešić	Vice-President of the City District Council	
14.	PODSUSED – VRAPČE	Dejan Kljajić	President of the City District Council	15
		Aljoša Bosnar	Vice-President of the City District Council	
15.	PODSLJEME	Krešimir Kompesak	President of the City District Council	11
		Nenad Cebić	Vice-President of the City District Council	
16.	SESVETE	Stjepan Kezerić	President of the City District Council	19
		Dražen Markota	Vice-President of the City District Council	
17.	BREZOVICA	Marina Pucević	President of the City District Council	11
		Vladimir Iviček	Vice-President of the City District Council	

¹⁾ City districts were established by the Statute of the City of Zagreb (Official Gazette of the City of Zagreb no. 19 /9.9), and the boundaries are determined by the Decision on the boundaries of the areas and headquarters of the city districts (Official Gazette of the City of Zagreb no. 7/09 and 5/17).

BASIC INFORMATION ABOUT THE CITY OF ZAGREB

GEOGRAPHICAL LOCATION	
15° 59' east longitude of Greenwich	
45° 49' north latitude (measuring point Grič)	
Elevation	
Grič 158 m; Zrinjevac 122 m; Sljeme 1,035 m	
SURFACE AREA, km ²	641.32
CLIMATE in 2016	
Highest temperature, ° C	+34.7
Lowest temperature, ° C	-6.5
Average air pressure, hPa	997.9
Total sunshine hours, h	1 965
Precipitation (annually), mm	853.8
POPULATION – Census of 2011	
Total population	790 017
men	369 339
women	420 678
Population by age	
Under 14	116 059
From 15 to 64 years	537 188
65 years and more	136 770
HOUSEHOLDS – Census of 2011	
Number of households	303 441
Average number of household members	2.57
HOUSING – Census of 2011	
Dwellings – total	384 333
Dwellings used for permanent housing	373 538
Occasionally occupied dwellings	5 112
Dwellings used for business activity only	5 683
Occupied dwellings	299 977
Average surface area of occupied dwellings, m ²	71.01
Collective dwellings	209
POPULATION IN 2016 (estimate)	
Population	802 338

NATURAL CHANGE IN POPULATION IN 2016		
		per thousand inhabitants
Births	8 120	10.1
Deaths	8 528	10.6
Natural increase/decrease	-408	-0.5
Vitality index (live births per 100 deaths)	95.2	
Marriages concluded	3 806	4.7
Divorces	1 682	2.1
MIGRATION OF POPULATION IN 2016		
Net migration rate		2 706
Immigrants		13 765
Emigrants		11 059
EMPLOYMENT IN 2016		
Employed persons – total, status as of 31 March		401 639
Persons employed in legal entities, status as of 31 March		371 631
Persons employed in crafts and freelance activities, status as of 31 March		29 502
Employed insured farmers, status as of 31 March		506
UNEMPLOYMENT IN 2016		
Unemployed persons, status as of 31 March		36 008
Unemployment rate, %		8.2
EARNINGS IN 2016		
Average monthly net earnings, in HRK		6 575
Average monthly gross earnings, in HRK		9 339
Nominal indices of net earnings		102.1
Nominal indices of gross earnings		102.5
PENSION INSURANCE IN 2016		
Number of pension beneficiaries, status as of 31 December		195 943
Average monthly pension deducted by tax and surtax, HRK		2 981

HEALTH CARE IN 2016	
Number of doctors of medicine	4 680
Of which specialists	3 328
Other health care workers	14 601
Health centres	4
Hospitals	17
Of which clinics	8
Specialised hospitals	9
Number of hospital beds	6 410
Number of patients in hospitals	264 207
Outpatient polyclinics (independent health care institutions)	167
Pharmacies	231
SOCIAL WELFARE IN 2016	
Number of beneficiaries of social welfare and services of the City of Zagreb	
Allowance to pensioners	11 766
Entitlement to free transit pass by ZET	81 637
Soup kitchen beneficiaries	3 987
Social benefits for children	
Number of children's allowance beneficiaries	22 270
Paid children's allowance, thousands of HRK	201 971
GROSS DOMESTIC PRODUCT IN 2014	
GDP, millions of HRK	109 098
GDP per capita, HRK	136 640
FOREIGN TRADE IN GOODS IN 2016	
Export, thousands of HRK	30 630 374
Import, thousands of HRK	74 083 853
Balance of foreign trade, thousands of HRK	-43 453 479
Coverage of import by export, %	41.3
ENERGY, WATER SUPPLY, DRAINAGE IN 2016	
Electricity consumption, thousands of GWh	2 751
Gas consumption, millions of kWh	3 523
Water consumption, thousands of m ³	54 535
Length of water supply pipeline, km	2 649
Number of water pipeline connections	84 621
Sewerage network length, km	2 097
Number of storm drains	55 400
Disposed waste, tonnes	219 184
Number of firefighting interventions	2 772

TRANSPORT AND COMMUNICATION IN 2016	
Urban transport	
Tram – transported passengers, thousands	197 088
Bus – transported passengers, thousands	90 648
Number of taxis, status as of 11 September 2017	1 410
Number of registered motor vehicles	358 308
Of which	
Personal cars	299 162
Goods vehicles and work vehicles	32 791
Motorcycles	8 581
Length of cycle lanes in transport infrastructure	256
Air traffic – departing and arriving passengers	2 766 087
Post offices	74
Number of postmen	390
FAIRS IN 2016	
Zagreb Fair	
Number of fairs	12
Number of exhibitors	2 382
Domestic	1 057
Foreign	1 325
Visitors, thousands	368
TOURISM IN 2016	
Hotels	49
Beds	7 087
Hostels	43
Beds	2 165
Tourists	1 152 598
Foreign	920 303
Overnight stays	2 016 107
Foreign	1 620 899

EDUCATION IN 2016	
Kindergartens and other legal entities that implement pre-school programmes	341
Of which	
Kindergartens	326
Other legal entities	15
Number of children accommodated	43 684
Dormitories for secondary school students	15
Number of students in dormitories	2 432
Student dormitories	4
Number of students in dormitories	7 458
Primary schools – total, at the start of the school year 2016/2017	144
Number of students	58 447
Number of teachers	5 303
Secondary schools – total, at the start of the school year 2016/2017	107
Number of students	36 775
Number of teachers	4 565
Higher education institutions – total, at the start of the academic year 2016/2017	58
Students – total	73 494
Faculties	39
Enrolled students – total	59 404
Professional studies – students	4 888
University studies – students	54 516
Academies of Arts	2
Enrolled students	945
Post-secondary education institutions	14
Enrolled students – total	4 767
Polytechnics	3
Enrolled students – total	8 378
Students graduated from higher education institutions in 2016	15 632

CULTURE IN 2016	
Theatres	84
Plays	6 018
Seats	9 832
Visitors	1 380 648
Movie theatres	49
Seats	9 528
Visitors, in thousands	2 207
Museums in 2015	44
Collections in 2015	28
Museum and collection visitors	995 825
Zagreb Philharmonic Orchestra	
Concerts in Zagreb	74
Visitors in Zagreb	23 147
Professional orchestras, ensembles and choirs	34
ZOO – number of animals	7 737
Visitors	308 421
Of which children	122 797
Botanical Garden of the Faculty of Science	
Surface area, m ²	47 000
Number of plant taxa	7 200
SPORTS IN 2016	
Sports associations	1 129
Types of sports	
Football	138
Bowling	40
Tennis	38
Handball	30
Basketball	38
Total number of active members	111 643

IMMOVABLE CULTURAL GOODS IN 2016 REGISTERED IN THE CULTURAL OBJECTS REGISTER OF THE REPUBLIC OF CROATIA

List of Protected Heritage and List of Preventively Protected Heritage

Archaeological heritage	
Archaeological sites	5
Historical-architectural ensembles	
Urban settlements	7
Rural settlements	10
Historical complexes and structures	
Architectural complexes	47
Civil architecture	416
Religious architecture	46
Ethnological heritage	
Ethnological areas	4
Ethnological structures	47

Memorial heritage

Commemorative and historical area	1
Memorial object, public monument and fountains	36

Source: City of Zagreb, City Office for Protection of Cultural Monuments and Nature

MOVABLE CULTURAL GOODS IN 2016 REGISTERED IN THE CULTURAL OBJECTS REGISTER OF THE REPUBLIC OF CROATIA

List of Protected Cultural Heritage and List of Preventively Protected Heritage

Individual items	62
Collections	222
Intangible cultural goods	10

Source: City of Zagreb, City Office for the Conservation of Cultural and Natural Heritage

PROTECTED NATURAL AREAS IN 2016

Nature parks	1
Nature reserves	7
Protected landscape	3
Natural monument	1
Monuments of park architecture	18
Ecological Network Natura 2000	4

Source: Ministry of Environmental Protection, Directorate for Nature Protection

HONORARY CITIZENS OF THE CITY OF ZAGREB

Number of honorary citizens of the City of Zagreb

1850 – 1918.....	26
1919 – 1934.....	8
1945 – 1990.....	10
1990 – 2017 (as of 13 November 2017).....	14

Persons below were given the status of honorary citizens of the City of Zagreb in 2017

Emilio Marin, Prof., PhD
Helmut Kohl
Hans-Dietrich Gerscher (posthumously)
Alois Mock

“ZAGREB WOMAN OF THE YEAR” AWARD

2008 – Slavica Jakobović Fribec, Prof.
2009 – Mirjana Krizmanić, Prof., PhD
2010 – Maja Mamula, MSc.
2011 – Đurđica Krnjak
2012 – Ljubica Matijević-Vrsaljko, lawyer
2013 – Marija Slišković
2014 – Vernesa Smolčić, Assist. Prof., PhD
2015 – Lovorka Galetić, Prof., PhD
2016 – Sandra Perković
2017 – Janica Kostelić

“LUKA RITZ” AWARD – VIOLENCE IS NOT COURAGE

2011 – Stjepan Mrganić, pupil of Dugave First Primary School Dominik Bartolović, pupil of Ruđer Bošković Technical School
2012 – Paula Kadić, pupil of Voltino Primary school Marija Gašparović, pupil of the First Grammar School
2013 – Katja Komazec, pupil of Ivan Filipović Primary School Lamia Belošević, pupil of Zagreb Upper Town Grammar School
2014 – Luka Mihalić, pupil of Tituš Brezovački Primary School – posthumously Barbara Rubinić, pupil of the First Grammar School
2015 – Ljubica Marinčić, pupil of Grigor Vitez Primary School Dora Cesarec, pupil of Vladimir Prelog Science School
2016 – Nika Barić, pupil of Kustošija Primary School Nikolina Jelenić, pupil of Ruđer Bošković Technical School
2017 – Luka Gnjidić, pupil of Dragutin Domjanić Primary School Patricija Marelja, pupil of Vladimir Prelog Science School

CITY OF ZAGREB AWARD¹⁾**Number of awards**

Year	Total	Number of persons, groups and group of authors	Number of institutions/ associations	Number of companies/ firms
2007	15	12	2	1
2008	15	12	2	1
2009	16	10	2	4
2010	15	13	2	-
2011	17	13	4	-
2012	15	12	3	-
2013	16	14	1	1
2014	17	13	1	3
2015	19	16	2	1
2016	16	13	3	-
2017	14	11	2	1

¹⁾ Decision on public acknowledgments of the City of Zagreb (Official Gazette of the City of Zagreb 4/00, 8/02, 1/04, 20/04, 18/06, 16/09, 3/10, 3/14, 16/14, 11/15 and 15/15 – consolidated text)

Winners of the City of Zagreb award in 2017

1. Auto Hrvatska d. d.
2. Josip Božičević, Member of the Croatian Academy of Science and Arts
3. Dubravka Brezak Stamač, PhD, professor at the Science and Math Grammar School – the Fifteenth Grammar School
4. Mislav Grgić, Prof., PhD, Dean of the Faculty of Electrical Engineering and Computing at the University of Zagreb
5. Robert Kolundžić, Assoc. Prof., PhD, specialist in orthopaedics and traumatology
6. Vladimir Magić, reverend, rector of the Church of St. Catherine, librarian, priest of the Roman Catholic Archdiocese of Zagreb, parish priest of the Church of St. Mark
7. Marijo Možnik, a top athlete, Master of Kinesiology/sports management expert, junior research assistant at the Faculty of Kinesiology at the University of Zagreb
8. Božidar Petrač, literary historian, critic, anthologist, translator, poet, publicist, president of the Croatian Writers' Society
9. Dimitrije Popović, academic painter
10. Vladimir Prelog Science School
11. Krešimir Rotim, Prof., PhD, Neurosurgery Specialist, Dean of the University of Applied Health Sciences
12. Jakov Sedlar, film and theatre director
13. Ivan Šikić
14. Zagreb Philharmonic

CITIES WITH WHICH PARTNERSHIP AGREEMENTS HAVE BEEN SIGNED

1963 – Bologna, Italy
 1966 – Leipzig, Germany
 1966 – Brno, Czech Republic
 1966 – Salzburg, Austria
 1967 – Mainz, Germany
 1967 – Plovdiv, Bulgaria
 1968 – Sankt-Petersburg, Russia
 1971 – Tromsø, Norway
 1973 – Kyoto, Japan
 1975 – Birmingham, United Kingdom
 1975 – Cluj-Napoca, Romania
 1975 – Krakow, Poland
 1975 – Lisbon, Portugal
 1980 – Pittsburgh, USA
 1980 – Shanghai, PR China
 1994 – Vienna, Austria
 1994 – Budapest, Hungary
 1995 – Beijing, the People's Republic of China
 1997 – Buenos Aires, Argentina
 2000 – Dayton, Ohio, USA
 2001 – Ljubljana, Slovenia
 2001 – Moscow, Russian Federation
 2001 – Sarajevo, Bosnia and Herzegovina
 2003 – Budapest, Hungary
 2004 – Moscow, Russia
 2006 – Knin, Croatia
 2007 – Milan, Italy
 2008 – Nin, Croatia
 2008 – Ludbreg, Croatia
 2008 – Ankara, Turkey
 2008 – Pecs, Hungary
 2009 – Prague, Czech Republic
 2009 – Opatija, Croatia
 2009 – Vienna, Austria
 2011 – Warsaw, Poland
 2012 – Rome, Italy
 2012 – Sofia, Bulgaria
 2012 – Pristina, Kosovo
 2013 – Shanghai, PR China
 2015 – Matisse Region, Italy
 2015 – Petrinja, Croatia
 2015 – Sinj, Croatia
 2016 – Vukovar, Croatia
 2017 – Senj, Croatia
 2017 – Mainz, Germany

ORGANIZATIONAL STRUCTURE OF THE CITY OF ZAGREB

Territory and organisational structure of the City of Zagreb have changed in recent years. For this reason, data for the periods published in this Yearbook pertain to the then-valid territorial organization of the City. Since 1998, territorial organization of the City of Zagreb has not changed.

1987 – 1990

The following municipalities comprised the Zagreb City Municipal Community: Downtown (Centar), Črnomerec, Dubrava Maksimir, Medveščak, Novi Zagreb, Peščenica, Samobor, Sesvete, Susedgrad, Trešnjevka, Trnje, Velika Gorica and Zaprešić (Act on Determination of Areas of Zagreb City Municipal Community, Official Gazette 55/86 and 13/87).

1 January 1991 – 30 December 1992

Pursuant to the Act on Fusion of Municipalities within the territory of the Zagreb City Municipal Community up until December 1992 and Cessation of the Zagreb City Municipal Community (Official Gazette 47/90 and 33/92), Zagreb City Municipal Community and all municipalities thereof were abolished and a unique municipality of the City of Zagreb was established. In the period between May 1992 and the end of December 1992, the municipality of Dugo Selo was annexed to Zagreb.

31 December 1992 – 20 September 1995

In terms of organisation into counties within the Republic of Croatia, the City of Zagreb is a special and unique territorial and administrative unit, which holds the status of a county (Act on the Territories of Counties, Cities and Municipalities in the Republic of Croatia, Official Gazette 90/92). Zagreb City County includes the following municipalities: Downtown (Centar), Črnomerec, Dubrava, Maksimir, Medveščak, Novi Zagreb, Peščenica, Sesvete, Susedgrad, Trešnjevka, Trnje, Velika Gorica and a part of Zaprešić (11 settlements). The City of Zagreb comprises 176 settlements (Act on the City of Zagreb, Official Gazette 90/92).

21 September 1995 – 30 January 1997

By virtue of the Act on Zagreb County (Official Gazette 69/95), merger between the Zagreb County and the City of Zagreb was completed. Zagreb County was established, consisting of the City of Zagreb and the towns of Jastrebarsko, Samobor, Sveti Ivan Zelina, Velika Gorica, Vrbovec, Zaprešić and 25 municipalities. These 25 municipalities are Bedenica, Bistra Brckovljani, Brdovec, Dubrava, Dubravica, Dugo Selo, Farkaševac, Gradec, Jakovlje, Klinča Selo, Krašić, Kravarsko, Luka, Marija Gorica, Orle, Pisarovina, Pokupsko, Preseka, Pušća,

Rakovec, Rugvica, Stupnik, Sveta Nedjelja and Žumberak. The City of Zagreb became a separate and unique territorial and administrative unit within the Zagreb County. Following separation of the former municipality of Velika Gorica, a part of the former municipality of Zaprešić (11 settlements) and the newly established municipality of Stupnik (which was separated from the former municipality of Novi Zagreb and became the municipality of the Zagreb County), Zagreb County consists of 69 settlements.

From 31 January 1997

Pursuant to the Act on the Territories of Counties, Cities and Municipalities in the Republic of Croatia (Official Gazette 10/97, 124/97, 68/98, 22/99, 117/99, 86/06), the City of Zagreb is an autonomous and unique territorial and administrative unit which has the status of a county. The City comprises 70 settlements (the settlement of Horvati in the municipality of Stupnik once again became a settlement of the City of Zagreb).

From 14 December 1999

By virtue of the Statute of the City of Zagreb (Official Gazette of the City of Zagreb 19/99), city districts (17) and local committees were established as forms of local self-government. Decision on the Boundaries and Centres of City Districts (Official Gazette of the City of Zagreb 20/00 and 7/09).

Based on the Decision on the organization and scope of city administrative bodies (Official Gazette of the City of Zagreb 11/05), regional offices were established for the territory of one or more city districts of the City of Zagreb, as regional units of the City Administration.

SETTLEMENTS OF THE CITY OF ZAGREB – 2011 Census

Settlements ¹⁾	Surface area ²⁾ , km ²	Population			Private households		Dwellings	
		Total	Men	Women	Total	Of which: family house holds	Total	Dwellings for permanent housing
CITY OF ZAGREB – total	641.32	790 017	369 339	420 678	303 441	209 430	384 333	373 538
Adamovec	7.78	975	478	497	269	226	425	287
Belovar	3.58	378	179	199	99	84	126	118
Blaguša	5.80	594	281	313	175	140	257	213
Botinec	0.35	9	4	5	3	3	3	3
Brebernica	2.52	49	24	25	18	10	36	21
Brezovica	4.50	594	287	307	163	130	180	179
Budenec	2.83	323	161	162	101	76	141	141
Buzin	3.22	1 055	517	538	343	279	414	410
Cerje	1.21	398	194	204	113	99	141	121
Demerje	10.23	721	366	355	221	182	277	268
Desprim	0.50	377	190	187	110	95	128	126
Dobrodol	4.32	1 203	604	599	349	301	608	420
Donji Čehi	1.72	232	112	120	73	58	94	91
Donji Dragonožec	3.35	577	262	315	185	143	312	224
Donji Trpuci	10.01	428	204	224	132	103	243	160
Drenčec	2.09	131	66	65	40	36	46	43
Drežnik Brezovički	0.70	656	328	328	184	153	200	197
Dumovec	3.27	903	465	438	255	221	285	281
Đurđekovec	2.80	778	373	405	255	203	392	321
Gajec	2.40	311	140	171	94	86	112	104
Glavnica Donja	6.84	544	255	289	160	124	224	193
Glavnica Gornja	1.59	226	109	117	67	45	131	84
Glavničica	4.31	229	105	124	61	52	77	77
Goli Breg	2.09	406	187	219	121	99	139	135
Goranec	3.29	449	217	232	138	107	300	166
Gornji Čehi	2.15	363	177	186	104	89	114	111
Gornji Dragonožec	3.11	295	159	136	94	67	189	109
Gornji Trpuci	3.62	87	48	39	35	25	98	42
Grančari	0.94	221	107	114	63	57	69	66
Havičić Selo	1.95	53	24	29	17	12	71	23
Horvati	20.77	1 490	705	785	419	346	504	451
Hrašće Turopoljsko	2.74	1 202	594	608	370	301	438	430
Hrvatski Leskovac	3.33	2 687	1 367	1 320	818	686	951	935
Hudi Bitek	1.93	441	203	238	134	112	150	146
Ivanja Reka	3.37	1 800	874	926	579	475	652	652
Jesenovec	2.72	460	230	230	116	102	170	125
Ježdovec	7.71	1 728	835	893	487	413	612	572

SETTLEMENTS OF THE CITY OF ZAGREB – 2011 Census

(Continued)

Settlements ¹⁾	Surface area ²⁾ , km ²	Population			Private households		Dwellings	
		Total	Men	Women	Total	Of which: family house holds	Total	Dwellings for permanent housing
Kašina	8.37	1 548	756	792	470	379	596	539
Kašinska Sopnica	2.15	245	117	128	77	58	173	85
Kučilovina	2.46	219	104	115	77	64	171	105
Kučanec	0.22	228	109	119	78	62	127	106
Kupinečki Kraljevec	26.02	1 957	972	985	558	483	815	603
Lipnica	3.53	207	98	109	66	53	119	72
Lučko	2.58	3 010	1 501	1 509	927	767	1 076	1 066
Lužan	7.32	719	344	375	191	165	224	222
Mala Mlaka	3.98	636	311	325	153	130	211	204
Markovo Polje	2.35	425	210	215	126	103	139	138
Moravče	6.91	663	323	340	204	160	302	249
Odra	13.11	1 866	879	987	551	464	931	918
Odranski Obrež	10.91	1 578	753	825	455	387	498	495
Paruževina	3.80	632	319	313	212	157	504	256
Planina Donja	4.86	554	262	292	171	129	261	209
Planina Gornja	6.82	247	127	120	77	65	101	86
Popovec	2.59	937	470	467	296	242	379	369
Prekvršje	2.51	809	392	417	264	209	628	347
Prepuštovec	2.17	332	155	177	113	86	157	133
Sesvete	36.19	54 085	26 027	28 058	17 243	14 107	22 252	22 130
Soblinec	2.58	978	493	485	263	239	331	323
Starjak	2.15	227	117	110	69	58	109	77
Strmec	13.26	645	315	330	191	166	202	200
Šašincevec	10.16	678	325	353	189	152	283	278
Šimunčevac	2.00	271	124	147	95	69	255	138
Veliko Polje	1.23	1 668	816	852	513	433	742	729
Vuger Selo	1.43	273	134	139	84	67	194	104
Vugrovec Donji	0.49	442	215	227	123	106	188	156
Vugrovec Gornji	2.08	357	176	181	112	90	297	139
Vurnovec	0.95	201	95	106	76	58	94	88
Zadvorsko	2.12	1 288	634	654	399	346	442	435
Zagreb	305.96	688 163	319 969	368 194	271 880	183 496	342 028	334 299
Žerjavinec	2.42	556	266	290	173	140	195	195

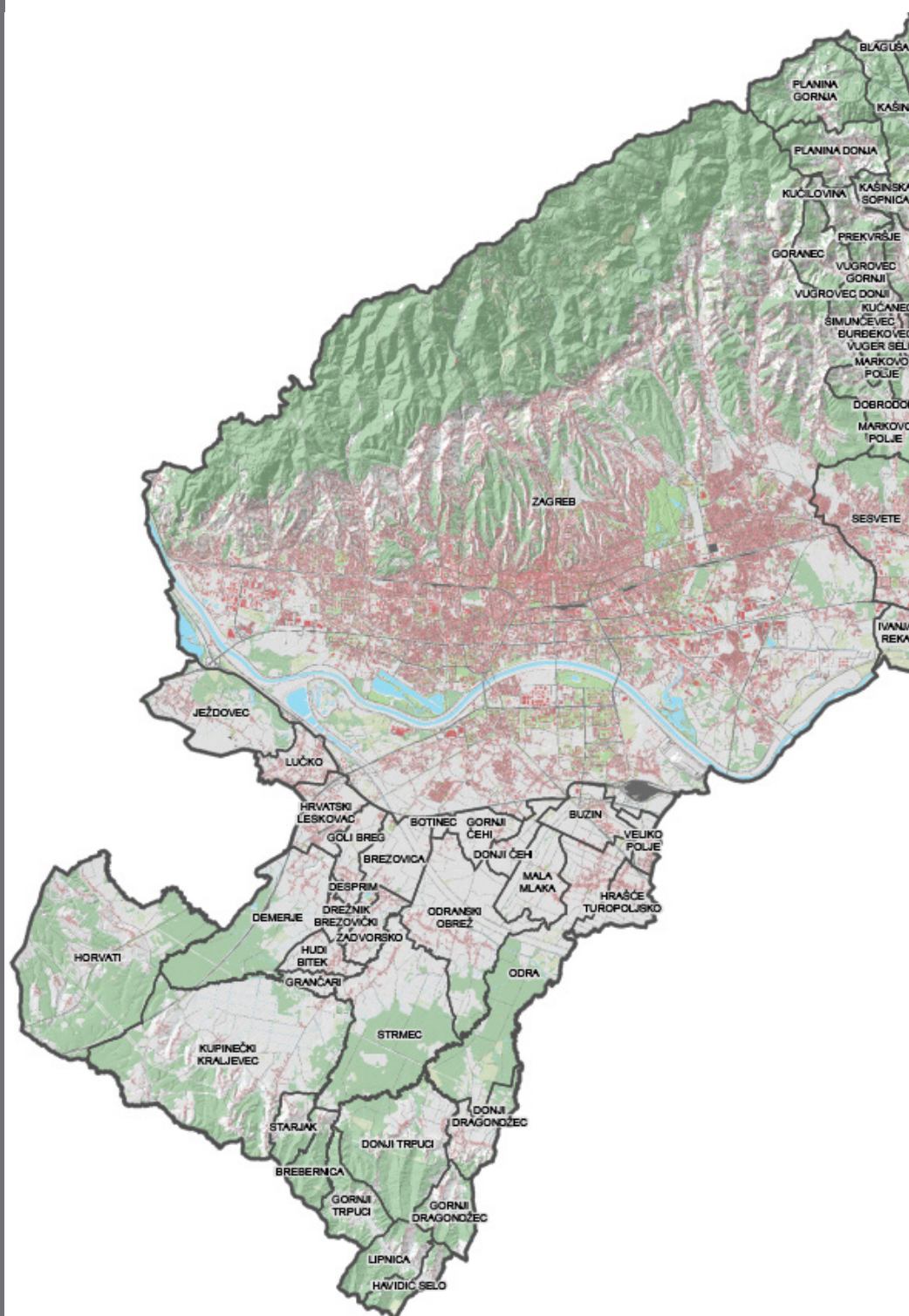
¹⁾ Settlements of the City of Zagreb are presented according to the Act on the Territories of Counties, Towns and Municipalities in the Republic of Croatia (Official Gazette 10/97).

Changes in the territory and borders of the settlement Dobrodo, Markovo Polje and Šimunčevac – Decision on the Boundaries of Settlements of the City of Zagreb (Official Gazette of the City of Zagreb 07/07).

²⁾ Data on surface areas was obtained from the City Office for Cadastre and Geodetic Activities.

Source: City Office for Cadastre and Geodetic Activities and Croatian Bureau of Statistics (CBS); processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

SETTLEMENTS OF THE CITY OF ZAGREB



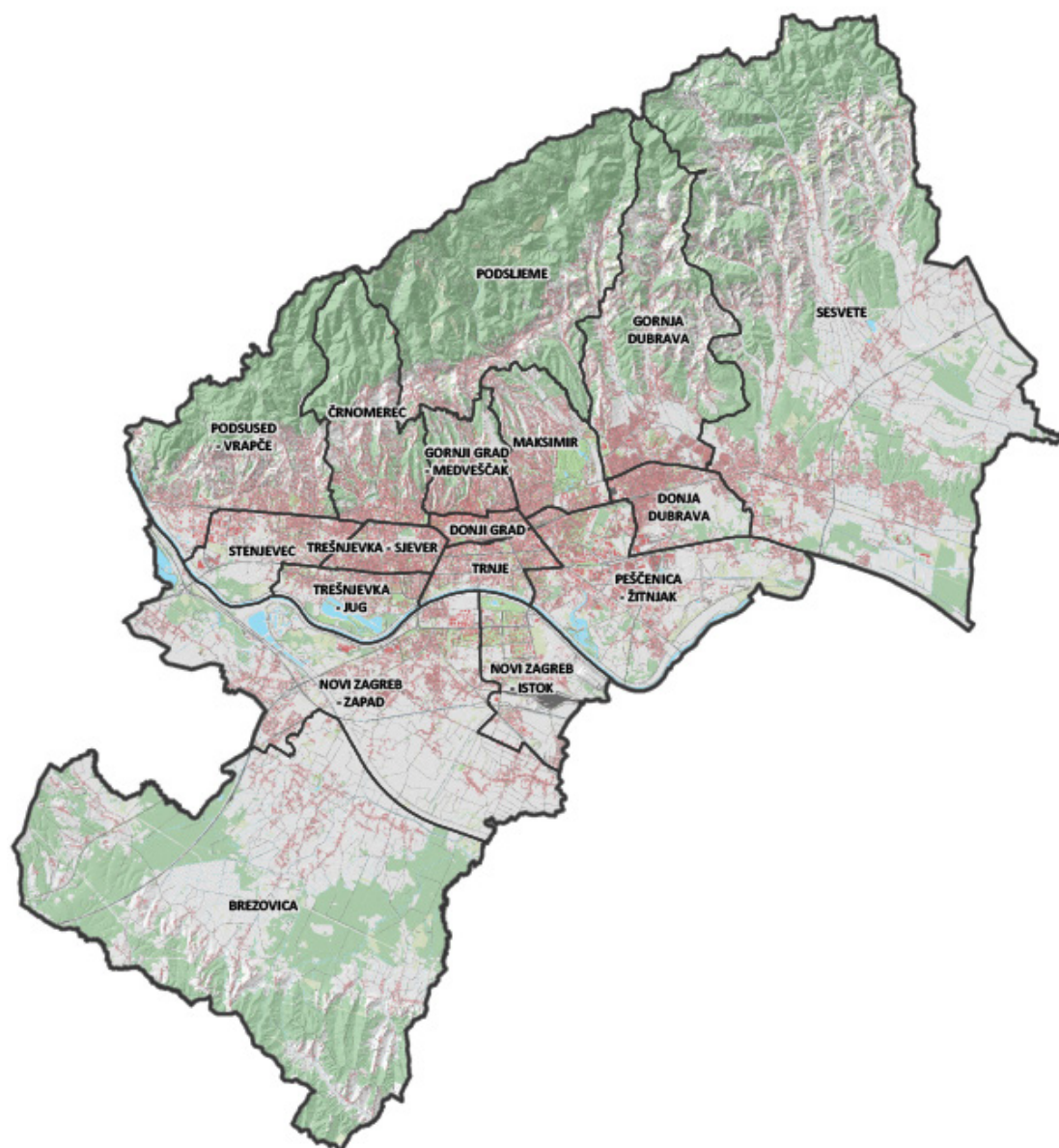
CITY DISTRICTS OF THE CITY OF ZAGREB – 2011 Census

City districts		Surface area ¹⁾ , km ²	Population			Private households		Dwellings	
			Total	Men	Women	Total	Of which: family households	Total	Dwellings for permanent housing
CITY OF ZAGREB – total		641.32	790 017	369 339	420 678	303 441	209 430	384 333	373 538
I	Donji Grad	3.02	37 024	16 334	20 690	16 616	9 673	23 397	21 571
II	Gornji grad – Medveščak	10.19	30 962	14 162	16 800	12 904	8 180	17 088	16 558
III	Trnje	7.36	42 282	19 202	23 080	18 352	11 340	23 366	22 935
IV	Maksimir	14.97	48 902	22 437	26 465	19 098	12 966	24 525	24 104
V	Peščenica – Žitnjak	35.30	56 487	26 381	30 106	21 628	14 723	26 711	26 483
VI	Novi Zagreb – istok	16.54	59 055	27 046	32 009	24 827	16 581	28 966	28 804
VII	Novi Zagreb – zapad	62.64	58 103	27 714	30 389	21 564	15 104	27 343	26 977
VIII	Trešnjevka – sjever	5.81	55 425	25 583	29 842	23 783	14 462	31 345	30 773
IX	Trešnjevka – jug	9.84	66 674	30 932	35 742	28 055	18 277	34 158	33 767
X	Črnomerec	24.23	38 546	17 925	20 621	15 175	10 288	19 693	19 290
XI	Gornja Dubrava	40.26	61 841	29 332	32 509	21 257	16 004	26 091	24 736
XII	Donja Dubrava	10.81	36 363	17 335	19 028	12 319	9 448	14 736	14 637
XIII	Stenjevec	12.18	51 390	24 435	26 955	18 983	13 893	23 295	22 991
XIV	Podsused – Vrapče	36.16	45 759	21 584	24 175	16 781	12 455	19 958	19 595
XV	Podsljeme	59.43	19 165	9 215	9 950	6 591	5 127	8 810	8 419
XVI	Sesvete	165.25	70 009	33 873	36 136	21 950	17 951	30 155	27 959
XVII	Brezovica	127.33	12 030	5 849	6 181	3 558	2 958	4 696	3 939

¹⁾ Decision on the Borders of the Areas and City District Centres (Official Gazette of the City of Zagreb 07/09).

Source: City Office for Cadastre and Geodetic Activities;
processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

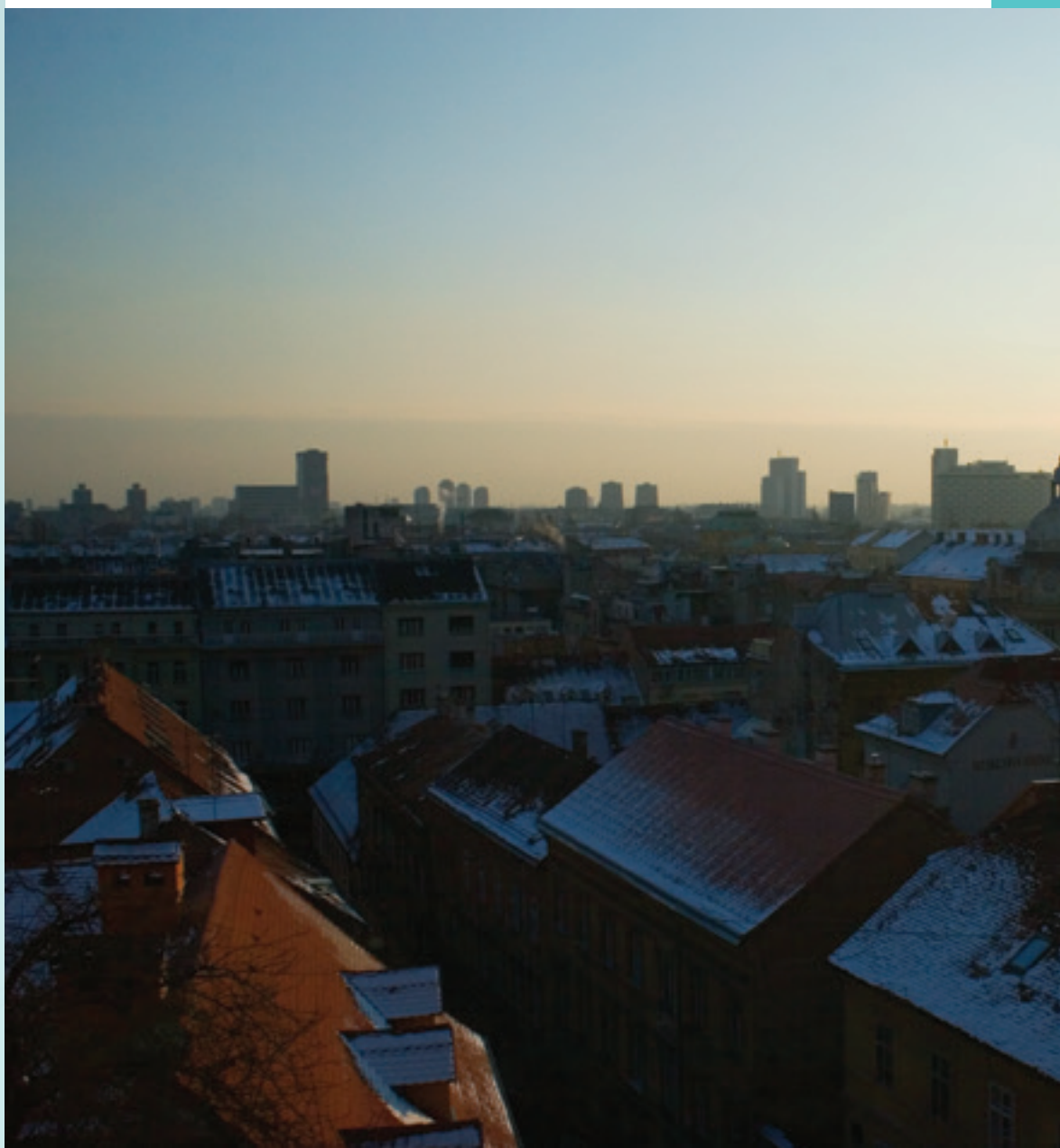
CITY DISTRICTS OF THE CITY OF ZAGREB





01

Geographical and meteorological data



NOTES ON METHODOLOGY

Source and method of data collection

Data on geographical position of Zagreb, its surface area, population and settlements pertain to the current territorial organization in the year for which the Yearbook is published.

Data on surface area are supplied by the City Office for Cadastre and Surveying Activities.

Abundance of data on meteorological, hydrological and geological conditions in the City of Zagreb, which give us a timeline of events in the last century, represents valuable material comprising the Zagreb Yearbook. Data for the respective fields were collected by the following competent institutions:

- Meteorological and Hydrological Service
- Institute for Medical Research and Occupational Health
- Faculty of Science, Department of Geophysics, Seismological Service
- Croatian Water Management Company.

The meteorological station Zagreb-Grič became operational in 1861. In 1877, Mr Ivan Stožir, a supervisor at the Grič meteorological station, introduced firing from the Grič cannon to mark noon every day.

Water levels are recorded continuously using an electronic measuring device, while discharge is calculated based on the recorded water level and discharge curve. The obtained data are then stored into the hydrological database of the Meteorological and Hydrological Service. Hydrological station Zagreb-Sava is located on the left bank of the Sava River, downstream from the Sava Bridge.

Definitions and explanations

Town/city roads are public roads that connect downtown area, roads in an urban area which connect town districts with county roads, and roads which interconnect neighbouring town districts. They are classified as local roads in accordance with the Roads Act (Official Gazette 84/11.).

Values of different parameters of climate elements (air temperature and humidity, quantity of precipitation, sunshine, wind force, frequency of acid rain) are measured and monitored on a daily basis on the synoptic, climate and precipitation measurement stations of the Meteorological and Hydrological Service.

Acid rain is any form of precipitation with an acidity level (lower pH level) higher than the expected acidity level of natural sources, which is polluted with sulphur dioxide, nitrogen oxides and other chemical compounds. While the normal pH value of rain is around 5.5, the pH value of acid rain ranges from 4 to 4.5 on average.

Surface water level represents the level of water in a watercourse, lake, sea or reservoir, and it is measured in metres (m) or centimetres (cm). On any monitoring station designed for water level measurement (water gauging hydrological station), the water level is measured with regard to the reference elevation ("zero elevation") for which mean sea level (MSL) has been previously determined based on a survey. Staff gauges are used for direct reading of the water level with regard to zero elevation. In the same manner, water levels can be permanently registered (recorded) by using either analogue or digital water level measuring instruments.

Discharge is the volume of water flowing through a flow area per unit of time. In hydrometry, discharge is usually expressed in cubic metres per second (m^3/s) or in litres per second (l/s). Discharge is a derived value which is, as such, usually determined indirectly by measuring the velocity of water flow and surface of the flow area. Different types of instruments are used to measure velocity of water flow, starting from the regular current meters to the more sophisticated ultrasound and electromagnetic devices. Surface of the flow profile is determined upon geodetic and bathymetric surveying of the terrain configuration.

Ground water level is measured in metres (m) or centimetres (cm), and it represents the distance from the reference elevation ("zero elevation") to the depth at which all cavities in the ground are completely saturated with water (to the groundwater's water table). It is necessary to define the mean sea level for the reference elevation based on a geodetic survey. Ground water level is measured in piezometer wells. Level of ground waters can be measured during predefined periods or it can be continually registered (recorded) by using either analogue or digital water level measuring instruments designed especially for measurement of ground water level.

Macro seismic intensity is defined in accordance with the international Mercalli-Cancani-Sieberg (MCS) scale which has 12 degrees. The degrees are determined based on the intensity of earthquake effect on people, nature and buildings. Earthquakes listed in this document are those with epicentre within a radius of 80 km from Zagreb. Pursuant to the Water Act (OG 153/09, 130/11, 56/13 and 14/14), flood control in the Republic of Croatia is implemented in the following territorial units for flood control: river basin districts, sectors, protected areas, and sections. Republic of Croatia is divided in two river basin districts, six sectors and thirty-four protected areas. The boundaries of the river basin districts, sectors and protected areas are defined in the Water Act, whereas the number and designation of the respective sections are defined in the Main Implementation Plan for Flood Control.

Protected area is a fundamental territorial unit for flood control. It is generally the area of a small basin or, in exceptional circumstances, of several smaller basins or parts thereof that are smaller spatial units than a sub-basin, and which, due to their common properties of the water regime, create a perfect area for efficient flood control.

Pursuant to the Water Act, the City of Zagreb belongs to the following area of flood control: Sector C – the upstream Sava, Protected Area 14, the central part of Zagrebačko Prislavlje smaller basin.

Protected Area No. 14 is located in the north-western part of the Republic of Croatia and it covers the surface area of 957 km². It runs from the hillsides of Medvednica mountain and the mountain chain Samoborsko Gorje in the northwest, all the way to the Posavina plains in the southwest. It also includes the central part of Zagrebačko Prislavlje small basin. In terms of administrative territory, the Protected Area No. 14 includes the City of Zagreb and a part of Zagreb County – the towns of Samobor and Sveta Nedelja, and the municipality of Stupnik.

Water course means a channel through which water runs regularly or intermittently and which has its banks.

Ameliorative canal network consists of pumping stations, drainage facilities, facilities used for protection against erosion and torrents (concrete culverts, plugs, siphons, canal falls, anti-erosion lining, sluices and other accompanying facilities, plants and equipment).

1.1 Geographical location and height of the city above sea level

	Location according to the observatory on Grič		Height in meters above sea level
East longitude (Greenwich)	15°59'	Zrinjevac (city centre)	122
		Grič	158
North latitude	45°49'	Sljeme	1 035

Source: Faculty of Science, Department of Geography

1.2 Surface area, population and settlements

Surface area, km ²	Total population (status based on the 2011 Census)	Population per km ²	Number of settlements
641.32	790 017	1 232	70

Source: City Office for Cadastre and Geodetic Activities; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

1.3 City roads, important traffic routes – selection by length

	Length, m	City district
Slavonska avenue	13 270	Trnje, Peščenica – Žitnjak, Donja Dubrava, Sesvete
Brezovička road	7 850	Novi Zagreb – west
Bologne boulevard	7 800	Podsused – Vrapče
Sljemenska road	7 306	Črnomerec
Kneza Branimira	6 580	Donji Grad, Maksimir, Donja Dubrava, Peščenica – Žitnjak
M. Ljubek boulevard	6 310	Trešnjevka – south
Radnička road	6 190	Peščenica – Žitnjak, Trnje
Zagrebačka avenue	5 460	Trešnjevka – north
“Grad Vukovar” street	5 150	Trešnjevka – north/Trnje/Peščenica – Žitnjak
Ilica	4 710	Vrapče/Črnomerec
Miroševačka road	4 500	Gornja Dubrava
Ježdovečka road	4 500	Novi Zagreb – west (Ježdovec, Lučko)
Štefanovec	4 290	Gornja Dubrava
Dr. L. Naletilića	4 280	Novi Zagreb – west, Brezovica
Jadranska avenue	4 030	Novi Zagreb – west
Bukovačka road	4 010	Maksimir
Branovečka road	3 910	Gornja Dubrava
Dubrava	3 880	Gornja Dubrava/Donja Dubrava
Dubrovnik avenue	3 740	Novi Zagreb – west
Pantovčak	3 480	Gornji Grad – Medveščak
Maksimirska road	3 380	Maksimir/Gornja Dubrava
Vrhovec	3 370	Črnomerec
Selska road	3 142	Črnomerec, Trešnjevka – north, south
Ljubljanska avenue	3 010	Novi Zagreb – west
Savska road	2 785	Donji Grad, Trešnjevka (north, south), Trnje
Kralja Zvonimira	2 040	Donji Grad/Maksimir

Source: City Office for Physical Planning, Construction of the City, Utility Services and Transport, Department of Roads

1.4 Air temperature and total precipitation in the period between 1862 and 2016 as measured by the Meteorological Observatory Zagreb – Grič

	Day	January	February	March	April	May	June	July	August	September	October	November	December
Average daily air temperatures (°C)	1	0.8	1.2	4.8	10.5	14.3	18.6	21.2	22.4	19.2	15.2	8.9	3.9
	2	0.9	1.6	4.8	10.3	14.5	18.7	21.4	22.5	19.2	14.8	8.9	3.7
	3	1.1	1.6	4.8	10.8	14.9	19.1	21.6	22.2	19.4	14.6	8.8	3.2
	4	0.7	1.7	5.0	11.0	14.8	19.0	21.7	22.0	19.2	14.2	8.8	3.3
	5	0.4	2.0	5.3	11.0	14.3	19.0	21.7	22.0	18.7	13.8	8.7	3.3
	6	0.5	2.0	5.5	11.1	15.0	19.2	21.8	21.9	18.7	13.8	8.5	3.2
	7	0.8	1.9	5.7	11.3	15.4	19.3	21.7	21.9	18.7	13.6	8.3	2.9
	8	0.4	1.9	5.8	10.7	15.3	19.7	21.6	21.8	18.7	13.4	8.2	2.7
	9	0.4	1.9	6.0	10.7	15.6	19.6	21.6	21.8	18.4	13.2	8.0	2.5
	10	0.6	2.0	6.3	10.6	15.6	19.8	21.4	21.7	18.1	13.0	7.8	2.2
	11	0.8	2.3	6.4	10.9	15.6	19.4	21.4	21.3	18.2	12.7	7.2	2.1
	12	0.6	2.2	6.3	11.2	16.1	19.4	21.5	21.4	17.9	12.6	7.1	2.1
	13	0.2	1.9	6.2	11.5	16.2	19.4	21.9	21.5	17.3	12.5	6.9	2.3
	14	0.0	1.8	6.4	11.4	16.5	19.4	21.9	21.5	17.4	12.5	6.8	2.2
	15	-0.1	1.8	6.9	11.8	16.5	19.5	22.0	21.7	17.4	12.2	6.7	2.0
	16	0.3	2.3	7.2	12.1	16.5	19.3	22.1	21.2	17.2	11.9	6.5	1.8
	17	0.5	2.7	7.5	11.9	16.6	19.1	22.2	21.2	16.8	11.5	5.9	1.7
	18	0.3	2.7	7.7	11.7	17.0	19.6	22.5	21.1	16.9	11.1	5.4	1.7
	19	0.3	3.0	7.9	12.2	17.1	19.7	22.1	21.1	16.6	11.0	5.3	1.9
	20	0.5	3.1	7.9	12.6	16.9	20.1	22.3	21.3	16.7	10.8	5.4	1.7
	21	0.5	3.2	8.2	12.6	17.0	20.2	22.0	20.8	16.1	10.8	5.1	1.5
	22	0.4	3.2	7.9	12.9	17.1	20.7	22.3	20.6	16.0	10.5	4.8	1.3
	23	0.4	3.5	8.2	13.1	17.2	20.5	22.3	20.4	15.9	10.7	4.7	1.2
	24	0.2	3.8	8.4	13.0	17.3	20.4	22.3	20.6	15.7	10.4	4.7	1.2
	25	0.5	4.3	9.0	13.4	17.7	20.3	21.6	20.1	15.7	10.2	4.6	1.1
	26	0.6	4.4	9.1	13.8	17.8	20.7	21.9	20.2	15.6	10.0	4.3	1.1
	27	0.6	4.6	9.3	13.6	17.8	20.7	22.3	20.0	15.4	9.7	4.2	0.9
	28	0.6	4.7	9.5	13.5	18.1	20.8	22.1	19.9	15.2	9.6	4.1	1.1
	29	0.7	5.1	9.5	13.7	18.4	20.7	22.0	20.0	15.1	9.6	4.2	1.2
	30	0.6		9.7	14.0	18.5	20.9	22.0	19.7	15.2	9.1	4.0	1.4
	31	1.1		10.0		18.6		22.0	19.2		9.3		1.1
Average air temperature (°C)		0.5	2.7	7.2	12.0	16.5	19.8	21.9	21.1	17.2	11.9	6.4	2.1
Highest temperature (°C) and the day of occurrence	max.	19.0	21.6	26.1	29.8	33.4	37.0	40.3	38.8	34.2	27.6	25.0	21.5
	year	2001	1998	1989	2012	2008	1935	1950	2013	1946	1971	1963	1989
	day	7 Jan	16 Feb	31 Mar	29 Apr	27 May	28 June	05 July	08 Aug	07 Sep	23 Oct	16 Nov	17 Dec
Lowest temperature (°C) and the day of occurrence	min.	-22.2	-21.7	-17.0	-1.9	0.5	4.6	7.3	7.3	2.3	-6.0	-9.7	-18.7
	year	1942	1940	1888	1929	1953	1928	1948	1894	1889	1920	1884	1927
	day	24 Jan	15 Feb	05 Mar	06 Apr	11 May	03 June	11 July	22 Aug	27 Sep	30 Oct	27 Nov	22 Dec

1.4 Air temperature and total precipitation in the period between 1862 and 2016 as measured by the Meteorological Observatory Zagreb – Grič

(Continued)

	Day	January	February	March	April	May	June	July	August	September	October	November	December
Maximum 24-hour precipitation (mm) and the day of occurrence	max.	40.7	55.2	53.6	42.1	67.5	57.5	95.8	118.8	81.6	82.8	63.6	50.9
	year	1877	2014	1917	1931	1921	1986	1989	1926	1987	1932	1925	1868
	day	13 Jan	12 Feb	25 Mar	20 Apr	31 May	15 June	04 July	09 Aug	28 Sep	04 Oct	12 Nov	27 Dec

Source: Meteorological and Hydrological Service

1.5 Monthly and annual meteorological data in the last ten years as measured by the Meteorological Observatory Zagreb – Grič

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Average monthly and annual air temperatures, °C													
2007 – 2016	3.4	4.5	9.0	14.1	17.7	21.5	23.8	23.0	18.0	12.5	8.4	3.4	13.3
2012	3.8	-0.2	11.5	13.3	17.5	22.9	25.0	25.4	18.9	12.9	10.0	2.8	13.7
2013	2.4	2.7	5.8	14.1	16.8	20.8	24.5	23.8	16.8	14.3	8.1	4.4	12.9
2014	6.2	6.1	11.9	14.1	16.3	21.1	22.4	20.9	16.9	14.4	9.8	5.4	13.8
2015	4.3	3.6	9.0	12.9	18.3	21.6	25.4	24.1	18.3	12.0	9.9	4.8	13.7
2016	3.0	7.4	8.8	13.8	16.7	21.5	24.2	21.8	19.7	11.2	8.0	1.0	13.1
Average air pressure, hPa (pressure altitude – 162.5 m)													
2007 – 2016	998.0	996.7	996.4	995.3	994.8	995.3	995.4	996.4	997.8	999.5	997.5	1 001.1	997.0
2012	1 000.8	1 003.4	1 004.4	988.4	995.5	994.9	995.2	997.0	997.1	995.3	996.8	996.3	997.1
2013	994.0	993.5	989.6	996.1	991.4	996.1	998.4	997.2	996.7	1 000.4	995.7	1 005.7	996.2
2014	994.1	995.2	996.5	993.4	994.7	996.4	993.6	995.0	997.6	999.6	997.6	1 000.0	996.1
2015	997.6	997.1	1 000.4	999.5	996.0	998.5	996.4	996.6	997.9	999.6	1 000.7	1 011.4	999.3
2016	997.1	994.5	994.2	993.8	993.8	994.5	996.8	999.7	999.1	1 001.2	998.6	1 010.9	997.9
Average Relative Humidity, %													
2007 – 2016	77	71	62	59	63	63	60	62	69	75	78	79	68
2012	67	64	51	60	60	62	56	46	68	78	80	80	64
2013	81	77	71	60	67	64	55	56	73	72	80	78	69
2014	80	81	57	68	64	62	69	71	82	78	84	75	73
2015	78	74	57	54	61	59	58	63	65	81	68	82	67
2016	73	76	66	61	66	65	63	63	65	76	75	77	69

1.5 Monthly and annual meteorological data in the last ten years as measured by the Meteorological Observatory Zagreb – Grič

(Continued)

	Janu- ary	Febr- uary	March	April	May	June	July	Au- gust	Sept- ember	Octo- ber	Nove- mber	Dece- mber	Year
Average monthly and annual cloud coverage (tenths of sky covered)													
2007 – 2016	7.3	7.2	6.5	5.9	5.8	5.5	4.7	4.5	5.7	6.3	7.1	7.1	6.1
2012	5.2	6.6	4.1	5.9	5.4	4.2	3.5	2.6	5.7	6.1	7.9	6.7	5.3
2013	8.2	8.7	7.0	5.4	6.1	4.8	3.3	4.0	6.1	5.7	7.9	6.1	6.1
2014	7.7	7.8	5.2	7.3	5.7	5.9	5.9	5.8	6.6	6.0	8.2	6.2	6.5
2015	7.2	7.0	5.6	5.1	6.3	4.3	3.5	4.0	6.0	7.5	4.5	6.0	5.6
2016	5.7	7.4	7.2	5.7	5.6	5.6	4.6	4.2	3.8	6.5	6.5	5.8	5.7

Absolute maximum air temperatures, °C													
2007 – 2016	17.0	20.8	23.5	29.8	33.4	36.2	38.2	38.8	33.0	25.9	22.5	19.1	38.8
day	19	25	29	29	27	30	20	08	11	07	9	25	8 Aug
year	2007	2008	2002	2012	2008	2012	2007	2013	2011	2009	2015	2009	2013
2012	12.4	17.6	23.5	29.8	30.1	36.2	35.9	38.0	30.0	24.3	22.0	14.5	38.0
day	23	29	29	29	12	30	1	24	11	6	5	25	24 Aug
2013	12.2	14.5	16.9	29.0	29.5	35.5	37.6	38.8	27.6	24.6	21.0	14.5	38.8
day	31	2	7	30	1	20	29	8	3	23	3	25	8 Aug
2014	15.5	17.9	23.1	25.0	29.5	34.4	32.9	32.4	26.0	25.8	22.0	15.0	34.4
day	17	16	17	8	22	11	7	11	21	13	5	19	11 Jun
2015	16.1	11.6	20	26.7	30	32.1	37.4	35.6	32.4	21.3	22.5	14.6	37.4
day	17	16	26	16	6	12	17	13	1	4	9	2	17 Jul
2016	16.6	17.0	20.6	26.9	29.9	33.0	34.7	32.4	29.6	24.8	19.0	11.8	34.7
day	11	1	31	6	29	24	12	5	12	1	19	11	12 Jul

Absolute minimum air temperatures, °C													
2007 – 2016	-9.4	-11.6	-3.2	1.4	5.2	8.7	11.4	8.4	7.0	0.3	-3.8	-15.6	-15.6
day	10	9	6	01	4	01	31	31	29	30	21	20	20 Dec
year	2009	2012	2010	2013	2011	2010	2007	2010	2008	2012	2011	2009	2009
2012	-7.4	-11.6	-1.0	1.7	6.8	10.3	14.2	13.1	7.6	0.3	2.1	-10.5	-11.6
day	31	9	7	10	18	6	23	12	21	30	30	13	9 Feb
2013	-5.1	-4.3	-3.1	1.4	8.0	10.4	15.2	13.9	7.0	3.1	-1.7	-4.7	-5.1
day	26	11	25	01	26	01	01	31	18	04	29	19	26 Jan
2014	-5.7	-2.5	3.9	6.0	6.4	12.0	13.2	12.8	9.1	2.6	2.6	-7.4	-7.4
day	27	1	9	11	12	4	1	29	23	29	22	31	31 Dec
2015	-8.0	-7.0	0.7	2.0	8.9	10.8	14.9	14.4	10.4	4.8	1.0	-3.3	-8.0
day	1	8	8	2	1	21	30	1	10	25	29	31	01 Jan
2016	-6.5	0.2	1.2	2.5	6.7	14.0	13.2	11.5	9.4	3.8	-3.0	-5.2	-6.5
day	4	27	15	26	16	3	4	12	23	6	30	31	04 Jan

1.5 Monthly and annual meteorological data in the last ten years as measured by the Meteorological Observatory Zagreb – Grič

(Continued)

	Janu- ary	Febr- uary	March	April	May	June	July	Au- gust	Sept- ember	Octo- ber	Nov- ember	Dece- mber	Year
Monthly and annual precipitation, mm													
2007 – 2016	59.5	63.7	54.4	45.1	83.1	102.3	72.8	76.6	108.2	90.3	85.1	54.1	895.2
2012	17.3	42.2	4.3	45.6	89.8	144.0	39.8	14.7	131.1	96.3	111.1	76.5	812.7
2013	147.7	104.8	126.2	51.3	113.0	71.4	32.3	111.4	118.0	23.6	180.5	12.2	1 092.4
2014	52.2	130.0	22.7	71.3	104.0	137.2	94.8	120.7	207.7	126.5	90.9	75.8	1 233.8
2015	51.2	61.5	22.8	24.4	121.5	64.6	74.4	75.2	95.6	191.7	40.7	0.3	823.9
2016	67.9	119.8	45.4	47.6	101.6	138.5	51.6	48.2	43.2	102.0	85.9	2.1	853.8
Maximum daily precipitation, mm													
2007 – 2016	40.2	55.2	39.5	34.3	44.9	54.3	61.2	43.2	54.4	45.4	37.7	22.8	61.2
day	15	12	20	30	23	20	18	20	13	22	22	17	18 Jul
year	2013	2014	2007	2009	2015	2016	2010	2015	2012	2014	2015	2011	2010
2012	4.7	10.7	2.6	12.1	15.2	40.2	19.1	13.2	54.4	26.3	37.6	18.5	54.4
day	3	13	13	6	22	2	25	27	13	28	30	5	13 Sep
2013	40.2	23.9	32.2	11.2	15.3	14.4	12.8	42.5	32.2	7.8	33.1	6.0	42.5
day	15	23	31	03	13	07	08	26	30	12	10	27	26 Aug
2014	27.9	55.2	10.5	14.2	30.3	37.8	26.1	34.6	53.5	45.4	20.1	15.8	55.2
day	25	12	25	9	16	30	11	15	1	22	7	28	12 Feb
2015	12.2	15.3	7.8	6.1	44.9	31	19.9	43.2	39.8	33.9	37.7	0.3	44.9
day	15	12	20	30	23	27	18	20	13	22	22	17	18 Jul
2016	15.0	19.5	17.7	12.5	24.8	54.3	21.9	20.0	15.3	24.8	21.7	1.9	54.3
day	3	16	4	28	15	20	17	22	6	3	7	29	20 Jun
Sunshine duration, hours													
2007 – 2016	67.1	82.4	142.1	198.1	234.5	254.8	288.0	278.3	177.3	124.7	78.7	64.1	1 990.0
2012	123.1	117.1	225.8	195.6	263.6	304.4	310.3	349.4	190.6	133.0	57.0	73.7	2 343.6
2013	47.9	24.8	107.7	208.1	193.2	238.3	328.8	260.9	155.4	155.5	48.4	82.0	1 851.0
2014	43.2	56.9	166.1	129.8	225.3	260.9	234.4	219.1	108.2	124.3	57.4	89.6	1 715.2
2015	61.5	75.8	161.6	218.0	207.6	286.0	307.5	271.2	161.9	79.5	147.6	92.6	2 070.8
2016	102.8	59.1	113.0	178.3	222.3	240.6	265.8	276.0	221.4	106.0	88.6	90.7	1 964.6

1.6 Number of days with particular meteorological features in the last ten years as measured by the Meteorological Observatory Zagreb – Grič

(Continued)

	Year	January	February	March	April	May	June	July	August	September	October	November	December	Year
Number of cold days (minimum temperature < 0.0 °C)	2012	14	20	2	-	-	-	-	-	-	-	-	11	47
	2013	13	9	10	-	-	-	-	-	-	-	2	12	46
	2014	8	6	-	-	-	-	-	-	-	-	-	7	21
	2015	11	10	-	-	-	-	-	-	-	-	-	3	24
	2016	17	-	-	-	-	-	-	-	-	-	4	23	44
Number of days with precipitation (precipitation ≥ 0.1 mm)	2012	9	13	5	13	16	10	9	4	11	14	15	13	132
	2013	18	19	18	13	18	12	8	10	15	13	18	8	170
	2014	17	19	8	18	17	16	13	13	19	10	16	14	180
	2015	16	13	8	13	12	9	12	9	10	19	3	1	125
	2016	10	17	16	8	17	17	13	6	9	13	12	2	140
Number of snow days (precipitation ≥ 1 cm)	2012	-	18	-	-	-	-	-	-	-	-	-	8	26
	2013	18	10	5	-	-	-	-	-	-	-	-	-	33
	2014	7	3	-	-	-	-	-	-	-	-	-	4	14
	2015	5	7	-	-	-	-	-	-	-	-	-	-	12
	2016	8	-	-	-	-	-	-	-	-	-	-	-	8
Number of days with hail	2012	-	-	-	-	-	-	-	-	-	-	-	-	-
	2013	-	-	-	-	-	-	-	-	-	-	-	-	-
	2014	-	-	-	1	1	-	-	-	-	-	-	-	2
	2015	-	-	-	-	-	-	-	-	-	-	-	-	-
	2016	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of days with gale-force wind (number 8 or more on the Beaufort scale)	2012	-	1	-	-	1	1	2	-	-	-	-	1	6
	2013	1	-	1	-	-	-	2	1	-	-	5	-	10
	2014	-	-	2	2	5	1	1	1	1	4	-	3	20
	2015	2	1	4	2	1	-	3	-	-	-	1	-	14
	2016	-	2	3	-	-	1	1	-	-	-	2	-	9

Source: Meteorological and Hydrological Service

1.7 Frequency of acid rains on weather stations in 2016

	RR _A ¹⁾	N _A ²⁾	N ³⁾ of occurrences of highly acidic rain 3.0 ≤ pH ≤ 4.0	N of occurrences of moderately acidic rain 4.01 ≤ pH ≤ 5.0	N of occurrences of slightly acidic rain 5.01 ≤ pH ≤ 5.6	Share of acid rains in total precipitation, %
Zagreb – Maksimir	847.5	108	0	2	5	8
Puntijarka – Medvednica	1 231.9	128	0	4	22	23

¹⁾ RR_A – analysed amount of precipitation, L/m²²⁾ N_A – number of analysed samples³⁾ N – number of acidic precipitation

Source: Meteorological and Hydrological Service

1.8 Monthly and annual Sava water level, Hydrological Station Zagreb¹⁾

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Maximum water level (cm)²⁾													
2007 – 2016	328	359	331	308	211	257	112	171	468	416	432	370	468
2012	-138	-168	-215	-55	-17	2	-178	-253	46	397	432	161	432
2013	80	270	307	308	44	-64	-229	-201	-45	-47	351	123	351
2014	260	359	24	-72	-15	16	12	171	420	244	392	122	420
2015	-15	100	140	-75	211	257	-130	-136	-83	416	-71	-215	416
2016	328	250	122	-123	171	8	-162	-150	-226	-22	324	-121	328
Average water level (cm)													
2007 – 2016	-157	-114	-124	-147	-168	-183	-223	-232	-181	-169	-103	-123	-161
2012	-235	-260	-258	-205	-198	-198	-251	-286	-181	-114	4	-69	-188
2013	-157	-100	24	-4	-88	-180	-256	-270	-214	-192	14	-176	-133
2014	-47	118	-112	-157	-149	-211	-182	-131	-4	-159	9	-107	-94
2015	-158	-134	-149	-197	-178	-195	-238	-244	-212	-78	-224	-256	-189
2016	-181	-30	-78	-197	-123	-155	-233	-233	-264	-216	-32	-228	-164
Minimum water level (cm)³⁾													
2007 – 2016	-284	-286	-280	-282	-270	-269	-286	-298	-291	-295	-278	-284	-298
2012	-275	-286	-280	-282	-246	-256	-277	-298	-281	-256	-208	-188	-298
2013	-227	-189	-132	-130	-187	-235	-280	-289	-286	-257	-246	-248	-289
2014	-184	-110	-179	-221	-208	-260	-239	-238	-192	-241	-213	-223	-260
2015	-220	-209	-216	-247	-254	-255	-271	-274	-269	-249	-266	-284	-284
2016	-284	-245	-222	-244	-219	-232	-261	-262	-289	-295	-244	-277	-295

¹⁾ In 1849, the Hydrological Station Zagreb was founded, topographic point "0" 112.26 m/AMSL; basin surface area 12 450 km².

²⁾ Maximum recorded water level was 514 cm (on 26 October 1964).

³⁾ Minimum recorded water level was -338 cm (on 23 August 1993).

Source: Meteorological and Hydrological Service

1.9 Monthly and annual Sava discharge, Hydrological Station Zagreb¹⁾

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Maximum discharge rate (m³/s)²⁾													
2007 – 2016	1 921	2 092	2 024	1 815	1 364	1 565	1 012	1 207	2 851	2 435	2 484	2 246	2 851
2012	334	268	176	548	651	702	247	114	822	2 242	2 484	1 137	2 484
2013	915	1 627	1 810	1 815	816	524	152	202	575	570	2 047	1 040	2 047
2014	1 579	2 092	762	502	656	740	729	1 207	2 460	1 506	2 286	1 037	2 460
2015	656	969	1 097	494	1 364	1 565	353	339	473	2 435	505	177	2 435
2016	1 921	1 533	1 037	370	1 207	718	280	307	158	637	1 899	375	1 921
Average discharge rate (m³/s)													
2007 – 2016	309	431	387	327	278	246	169	157	289	296	457	409	313
2012	146	107	108	201	214	219	118	70.0	256	453	746	513	263
2013	307	444	776	696	462	250	110	90.7	194	229	780	268	384
2014	584	1095	400	295	316	189	246	365	724	314	774	421	477
2015	296	357	325	215	275	237	142	134	191	542	166	115	250
2016	285	648	500	212	384	305	149	149	104	197	642	161	311
Minimum discharge rate (m³/s)³⁾													
2007 – 2016	80.2	69.2	76.2	73.8	88.9	90.2	69.2	56.9	63.8	69.2	78.6	75.0	56.9
2012	82.3	69.2	76.2	73.8	125	109	79.8	56.9	75.0	109	189	227	56.9
2013	155	225	348	353	229	142	76.2	65.9	69.2	107	125	121	65.9
2014	235	402	245	166	189	103	136	137	219	132	180	162	103
2015	168	189	175	125	115	114	94.3	90.9	96.6	122	100	80.2	80.2
2016	80.2	128	165	129	170	148	106	105	75.3	69.7	129	87.6	69.7

¹⁾ In 1849, the Hydrological Station Zagreb was founded, topographic point "0" 112.26 m/AMSL; basin surface area 12 450 km².

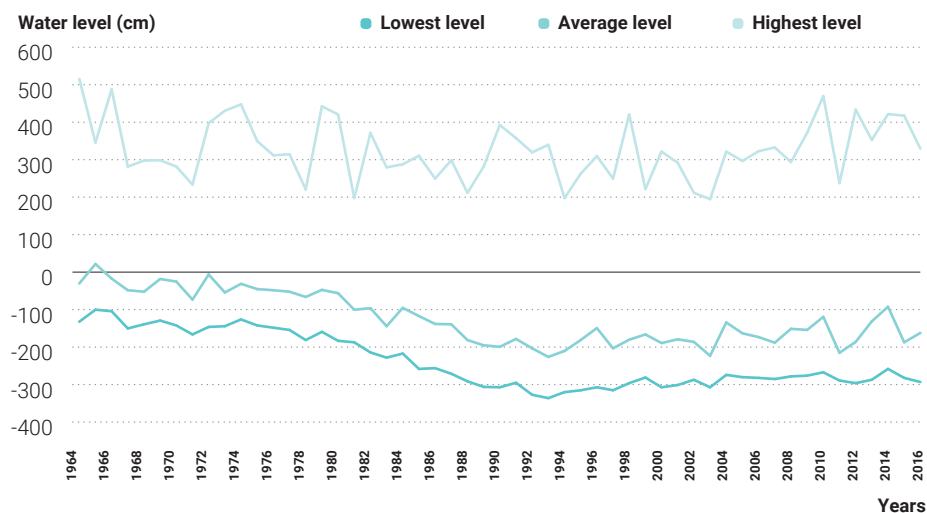
²⁾ Maximum recorded discharge was 126 m (on 26 October 1964).

³⁾ Minimum recorded discharge was 46.5 m (on 23 August 1993).

Source: Meteorological and Hydrological Service

G 1.1 Average annual Sava water level

Hydrological station: Zagreb – Sava / Period: 1964 – 2016



1.10 Earthquakes with epicentres near Zagreb¹⁾ that occurred between 1900 and 2016

	Total number of earthquakes	Strongest earthquake in the year		
		Intensity, °MCS	Epicentre	Date
1900	12	IV – V	Kašina	19 January
1950	25	V	Pisarovina	1 November
2000	147	V – VI	Kraljev Vrh	16 June
2010	493	V	Galgovo	3 November
2011	611	V	Budaševo	17 April
2012	515	IV	Draganići	8 September
2013	816	V	Donja Bistra	25 August
2014	857	V – VI	Zrinska gora	2 October
2015	1 621	VI	Brežice	1 November
2016	1 243	V – VI	Brežice	9 April

¹⁾ Data refers to the area of about 80 km around Zagreb.

Source: Faculty of Science, Geophysical Institute

1.11 Fifteen strongest earthquakes with epicentres near Zagreb¹⁾

	Total number of earthquakes	Strongest earthquake in the year		
		Intensity, °MCS	Epicentre	Date
1901	23	VII	Zagreb, Šestine	19 December
1905	89	VII – VIII	Planina, Čučerje	17 December
1906	300	VIII	Planina, Kašina	2 January
1909	47	VIII – IX	Pokuplje	8 October
1916	18	VII	Globoko	18 September
1917	86	VII – VIII	Stojdraga, Brežice	29 January
1926	8	VII	Kašina	12 May
1928	28	VII – VIII	Stojdraga, Brežice	25 August
1938	17	VIII	Bilogora	27 March
1940	22	VII	Kostanjevica	9 March
1953	8	VII	Artiče, Globoko	1 October
1964	19	VII	Bilogora	25 May
1982	31	VII	Ivančica	16 March
1990	259	VII	Kraljev Vrh	3 September
1993	185	VII	Ludbreg	1 June

¹⁾ Data refers to the area of about 80 km around Zagreb.

Source: Faculty of Science, Geophysical Institute

1.12 Standing water

	Total	Type of standing waters					Area, ha
		Active gravel pits	Abandoned gravel pits	Distributaries of the Sava	Artificial lakes	Pits and other	
2016	141	-	10	3	6	126	264.5

Source: Croatian Water Management Company, Department for water management of the upper reaches of the river Sava

1.13 Watercourses and ameliorative canal network for part of the flood control area no. 14 that includes the area of the City of Zagreb (maintenance programme for 2016)¹⁾

	Corresponding surface area, km ²	Length, km	Maintained area, km		Corresponding surface area, km ²	Length, km	Maintained area, km
Waterflows–total	480.00	498.91	284.74				
Sava		28.70	28.70	Kašina with tributaries		55.50	22.20
Podsusedsko Dolje		4.10	3.50	Čučerska Reka with tributaries		25.80	13.50
Dubravica		6.50	4.50	Vuger with tributaries		42.20	17.00
Medpotoki		2.70	1.00	Lomnica		8.50	8.50
Vrapčak		14.60	10.50	Lipnica		16.70	6.10
Črnomerec		10.00	7.50	Potočki		3.20	1.25

1.13 Watercourses and ameliorative canal network for part of the flood control area no. 14 that includes the area of the City of Zagreb (maintenance programme for 2016)¹⁾

(Continued)

	Corresponding surface area, km ²	Length, km	Maintained area, km		Corresponding surface area, km ²	Length, km	Maintained area, km
Ribnjak		1.50	1.00	Trebljenka		6.50	1.60
Črna voda		4.80	2.80	Ograja		4.00	4.00
Kustošak		8.50	7.50	Gustelin		3.60	3.60
Kuniščak		3.90	1.50	Močirad		3.75	3.75
Jelenovec I and II		4.20	1.20	Skupni Čreti		4.76	4.76
Zelengaj		1.80	0.50	Bukovica		6.00	6.00
Kraljevec I and II		2.71	1.80	Kukeljnjak		3.20	3.20
Kraljevački Stream		3.90	3.50	Maličevac		2.50	2.50
Gračanski Stream		2.90	2.50	Bačunski Stream		1.50	1.50
Fučkov Jarek		2.20	2.00	Remetski Stream		1.00	1.00
Mrzljak		5.70	5.00	Barutanski Canal		0.50	0.50
Klinovec		1.00	0.20	Črnc with tributaries		36.30	14.50
Pustodol		2.60	1.50	Bielek		1.75	0.62
Jesenovec		2.20	2.20	Kobiljak		2.74	2.24
Srednjak		6.50	1.50	Vukov dol		4.20	0.47
Dotrščina		2.20	0.50	Glavničica with tributaries		35.80	14.50
Bliznec		16.60	8.60	Branovec		7.00	2.50
Štefanovec		11.60	8.50	Moravščak		7.00	4.50
Deščevec		2.00	1.00	Goranec		8.50	4.00
Trnava		17.00	11.00	Blaguša		8.00	5.00
Bidrovec		4.80	1.80	Dobrodol		5.00	2.15
Vidovec		6.50	2.50	Starča		2.00	2.00
Kučilovina		2.20	2.00	Goštiraj		5.50	3.00
Kuzelinščak		2.00	2.00				
Network of canals for land amelioration (basic and detailed)– total		149.45	98.28				
Waters of the 1 st order		12.45	11.78				
Waters of the 2 nd order		137.00	86.50				

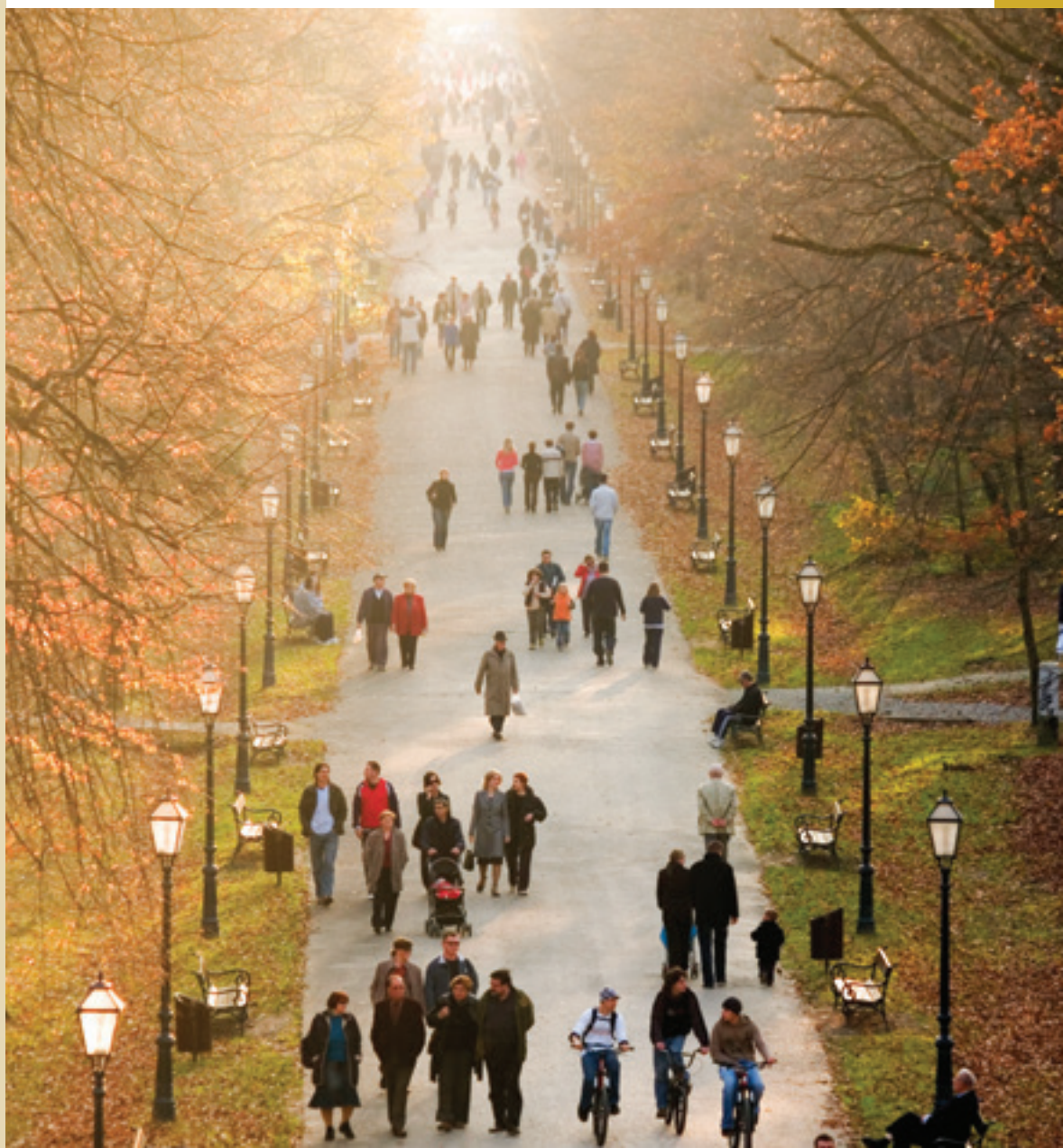
¹⁾ In order to build a flood protection system (Medvednica torrent), 19 dams and retention basins were built in the City of Zagreb, with a retention volume of 2 035 150 m³. All water-retention dams were built within the regular annual maintenance programme.

Source: Croatian Water Management Company, Department for water management of the upper reaches of the river Sava



02

Population



NOTES ON METHODOLOGY

A) CENSUSES

Source and method of data collection

Data on population and households are collected through Censuses that are carried out every ten years, using the uniform methodology for the entire country.

Coverage and comparability

The first reliable data on the population of Zagreb are estimates that were made based on the Housing Censuses and incomplete Censuses. Population estimates pertain to the period until the mid-19th century. After that period, data were derived from conducted Censuses, so in Table 2.2, data are listed with regard to administrative and territorial organization valid as at time of preparing the Census. Data on population and other Census results (regarding households, dwellings) presented in the remaining tables of the Yearbook pertain to the administrative and territorial organization of Zagreb in 1997 and onwards.

Data from the Censuses conducted in 1948, 1953, 1961, 1971, 1981 and 1991 pertain to permanent residents, i.e. persons with permanent residence in the Republic of Croatia, irrespective of their actual presence/absence at the time of the Census and irrespective of the duration of absence from their place of residence.

The concept of the "place of usual residence" was used in the 2001 Census for the first time when defining total population. In addition, the period of one year or more was introduced as a basic criterion for inclusion or exclusion of a person from the total population.

The Census includes persons who are citizens of the Republic of Croatia, foreign citizens and stateless persons who have residence in the Republic of Croatia, regardless of whether they were present in the Republic of Croatia or were staying abroad at the reference date, as well as persons who had a registered temporary residence in the Republic of Croatia at the reference date.

The 2011 Census of Population and Housing

Pursuant to the Act on the Census of Population and Housing from 2011 (OG92/12), the 2011 Census was conducted in the period between 1 and 28 April 2011, based on data as at 31 March at 24:00 hours, which is considered as the *reference date* of the Census.

The 2011 Census has been adjusted with the international standards to ensure comparability of data. The Conference of European Statisticians Recommendations for the 2010 Censuses of Population and Housing were applied in the process of preparation of the Census. In addition, the 2011 Census complies with the Regulations No. 763/2008 and 1201/2009 of the European Parliament and of the Council regulating population and housing Censuses in the European Union.

Data derived from the 2011 Census cannot be directly compared to the data derived from the 2001 Census or to the data from the previous Censuses because the statistical definition of the total population applied in the 2011 Census differs from the definition applied in the previous Censuses.

When defining total population, the 2011 Census uses the concept of "place of usual residence". In addition, the intention of absence/presence (staying) was introduced for the first time as an additional criterion for inclusion/exclusion of a person from the total population.

Although the data of both 2001 and 2011 Censuses are based on the "place of usual residence" concept, they cannot be directly compared for two reasons. The first reason is collection of data on the intention of absence/presence in 2011, which data were not collected in the 2001 Census. The second reason is the fact that, with regard to total population, the 2001 Census included persons who were absent for longer than a year and who returned to their place of residence on a seasonal or monthly basis (these persons are not included in the total population in the 2011 Census).

Definitions

A household is any family or some other type of community of persons who live together and spend their income on basic existential needs (housing, food and alike). There are two types of households, i.e. private and institutional. Private households can be divided as follows:

a) Family households—households in which there is at least one (immediate) family, and which can comprise members who are not related to any family in the household.

b) Non-family households—households in which there are no (immediate) families. They are divided into single and multi-member non-family households.

A family is a community living in the same household, and it may include spouses/unmarried partners with no children, spouses/unmarried partners with children, or a single parent with children.

Institutional households include persons whose accommodation and food are provided by an institution. As a rule, these households are established by a legal or natural person for the purpose of long-term housing and care of certain groups of people.

In the 2011 Census, institutional households included educational institutions, health and welfare institutions, retirement or older people's homes, military institutions, religious institutions, and other.

Average number of members per household is the ratio of the number of population and the number of households in a certain area (town/municipality, county, the Republic of Croatia).

B) VITAL STATISTICS

Sources and method of data collection

Vital statistics data are based on the systematic collection of information pertaining to the records of vital events. These data pertain to births, deaths and marriages recorded in the state registers of births, deaths and marriages.

Data on divorces and annulled marriages are based on the registers and case files of competent municipal courts.

Data on births are collected by virtue of the Statistical Report on Births (DEM-1 form), data on deaths are collected by virtue of the Statistical Report on Deaths (DEM-2 form), data on marriages are collected by virtue of the Statistical Report on Marriages (DEM-3 form), while the data on divorces and annulled marriages are collected by virtue of the Statistical Report on Divorces (RB-1 form).

Coverage and comparability

Vital statistics data are collected and processed in accordance with the definition given in the UN and Eurostat recommendations, ESA and SNA. When comparing data on stillborn children, it is necessary to keep in mind that the definition of a stillborn child has changed.

Estimates on total population in 2011 were calculated based on data specified in the 2011 Census, as well as based on natural population change and net migration.

Definitions

A live-born child (live birth) is every child who exhibits signs of life at birth, such as breathing, beating of the heart, pulsation of the umbilical cord, or definite movements of voluntary muscles. If a child dies soon after the birth, it is first registered as a live-born child and then as a dead infant.

A stillborn child (stillbirth) is every child that, after a complete expulsion or extraction from its mother, does not show any evidence of life, that is, who neither breathes nor shows any other evidence of life, provided that the pregnancy lasts for 22 weeks or longer and that the child weighs 500 grams or more at birth. Extraction of a dead foetus with less than 22 weeks gestation and with weight of 499 grams or less is considered an abortion, irrespective of whether it was spontaneous or induced termination of pregnancy. It is not registered in the state registers, neither are such data included in the total number of stillborn children.

A legitimate child is every child born in marriage or within 300 days after the end of marriage.

In establishing a **birth order of a child**, all children are taken into account (both live births and stillbirths).

Natural increase is the difference between the number of live births and the number of deaths in a given period.

Vital index is the ratio of births and deaths, i.e. the number of live births per 100 deaths.

A dead person (death) is every live-born person in which there is permanent disappearance of all evidence of life.

Infant death is death of a child younger than one year of age.

Cause of death, according to the definition of the World Health Organisation, is the disease or injury which initiated the train of morbid events leading directly to death, or the circumstances of the accident or violence which produced fatal injury.

Violent death is any death that does not occur under natural circumstances (illness, old age), but which is caused by injuries or poisoning, that is, death defined to be caused by an accident, suicide or homicide, as well as death by wounding in war.

Accident is every violent death caused by accidental injuries or poisoning.

Suicide is a violent death resulting from injuries or poisoning, which the person consciously and intentionally commits.

Homicide is defined as an illegal destruction of other person's life, i.e. violent death from injuries or poisoning deliberately inflicted on a person by another person.

Marriage is a legal process through which people become husband and wife.

Divorce is a final dissolution of a marriage by a valid decision issued by the competent municipal court.

C) MIGRATION OF POPULATION

Source of data

Studies on internal and international migration of population of the Republic of Croatia are conducted based on the data collected by the Ministry of Interior. The legal obligation to register and unregister the place of residence is governed by the Residence Act (OG 144/12 and 158/13). The Foreigners Act (OG 130/11 and 74/13) stipulates the conditions of entering, movement and stay of foreigners in the Republic of Croatia.

Coverage and comparability

Since 2011, statistical data on international migration have been processed using the new methodology based on the UN Recommendations on Statistics of International Migration, as well as the Regulation (EC) No. 862/2007 of the European Parliament and of the Council of 11 July 2007 on Community statistics on migration and international protection.

Statistical definition of an international migrant is based on the concept of the place of usual residence. According to this concept, foreign immigrants and emigrants are considered to be persons who changed their usual place of residence for a period that lasts, or is expected to last, at least one year.

Definitions

Migration is the spatial mobility of people.

A migrant is a person who changes his or her place of residence (immigrant, emigrant).

Immigrated or emigrated population is the population who changed their place of usual residence within the territory of the Republic of Croatia or who changed their country of usual residence for a period that lasts, or is expected to last, at least one year.

Net migration of population (migration balance) is the difference between the number of immigrants and emigrants in a particular area or country during a given period of time. When the number of immigrants is larger than the number of emigrants, a positive net migration rate occurs, i.e. increase of population. On the other hand, a negative net migration rate means that there are more emigrants than immigrants, i.e. there is a decrease in the population within a relevant area or country.

Owing to the implementation of the new Residence Act (OG 144/12 and 158/13), the data for 2013 include the persons who left their permanent residence for a period longer than one year in order to temporarily stay outside the Republic of Croatia, and who reported their temporary absence to the Ministry of the Interior.

2.1 Population of the City of Zagreb from the earliest times

1368	2 810 inhabitants (according to the housing census)
1742	5 600 inhabitants (according to the housing census by the canon Pepelko)
1805	7 706 inhabitants (population census without clergy and nobility)
1850	16 036 inhabitants

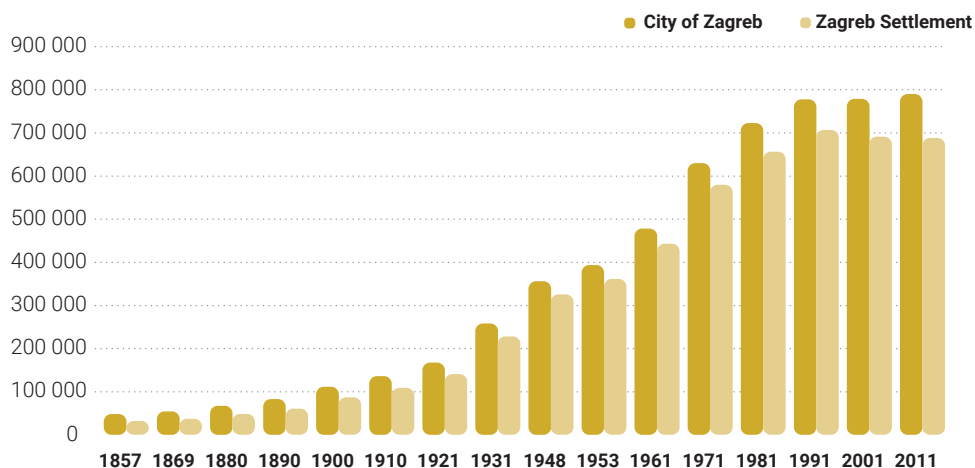
2.2 Population and households according to Censuses¹⁾

	Population			Number of households	Surface area, km ²
	Total	Men	Women		
1857	16 657	...	...	...	...
1869	19 857	9 724	10 133	...	...
1880	30 830	16 591	14 239	...	...
1890	40 268	20 816	19 452	...	3.33
1900	61 002	30 976	30 026	...	64.37
1910	79 038	39 737	39 301	...	64.37
1921	108 674	55 016	53 658	...	64.37
1931	185 581	92 105	93 476	44 231	64.37
1948	279 623	129 669	149 954	109 800	74.99
1953	350 829	162 721	188 108	126 679	235.74
1961	430 802	201 195	229 607	156 580	495.60
1971	602 205	285 530	316 675	213 628	497.95
1981	768 700	361 513	407 187	265 521	1 261.54
1991	933 914	441 120	491 794	319 997	1 715.55
2001 ²⁾	779 145	363 992	415 153	275 464	641.36
2011 ²⁾	790 017	369 339	420 678	303 441	641.32

¹⁾ Data is presented according to the administrative and territorial division valid at the time when the Census was carried out.

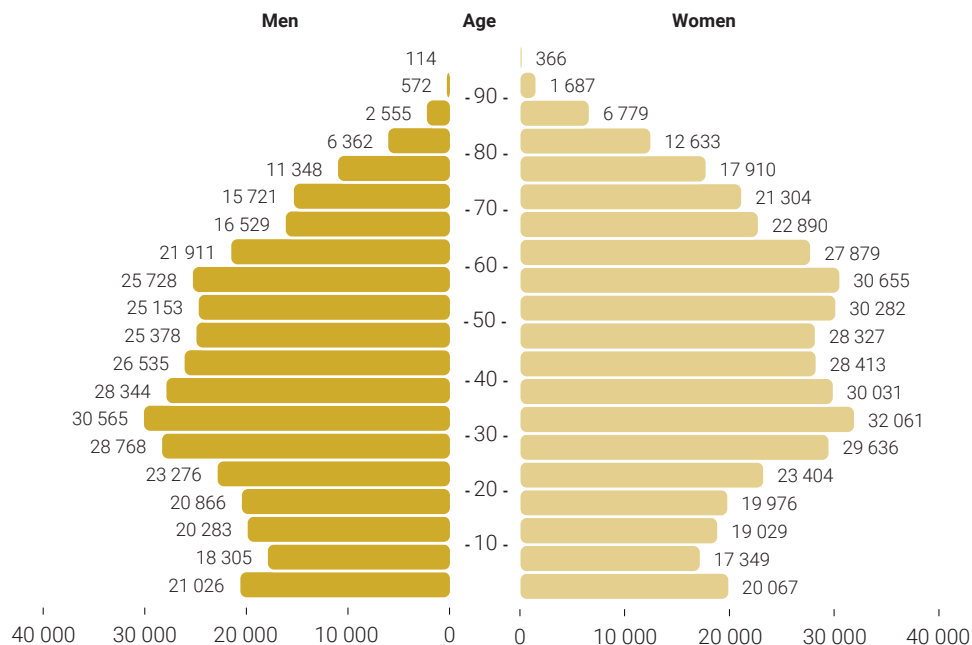
²⁾ End of a series of Censuses, see Notes on Methodology.

G 2.1 Population of the City of Zagreb and Zagreb Settlement from 1857 to 2011 according to the current territory defined on 30 January 1997



Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

G 2.2 Population of the City of Zagreb by sex and age, 2011 Census



Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

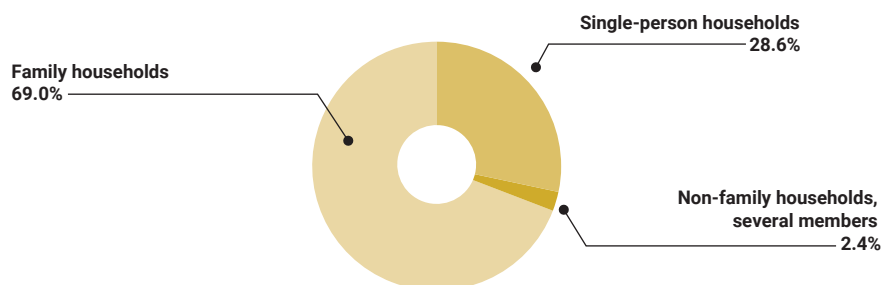
2.3 Population of the City of Zagreb and Zagreb Settlement according to the Censuses carried out between 1857 and 2011¹⁾

	City of Zagreb			Zagreb Settlement		
	Population	Population per km ²	Chain indices	Population	Population per km ²	Chain indices
1857	48 266	75	-	32 203	105	-
1869	54 761	85	113.5	37 001	120	114.9
1880	67 188	105	122.7	48 136	156	130.1
1890	82 848	129	123.3	60 910	198	126.5
1900	111 565	174	134.7	87 239	283	143.2
1910	136 351	213	122.2	109 029	354	125.0
1921	167 765	262	123.0	140 815	458	129.2
1931	258 024	402	153.8	227 838	740	161.8
1948	356 529	556	138.2	325 223	1 057	142.7
1953	393 919	614	110.5	361 564	1 175	111.2
1961	478 076	745	121.4	442 768	1 439	122.5
1971	629 896	982	131.8	579 899	1 884	131.0
1981	723 065	1 127	114.8	656 325	2 133	113.2
1991	777 826	1 213	107.6	706 770	2 296	107.7
2001 ²⁾	779 145	1 215	100.2	690 953	2 258	97.8
2011 ²⁾	790 017	1 232	101.4	688 163	2 249	99.6

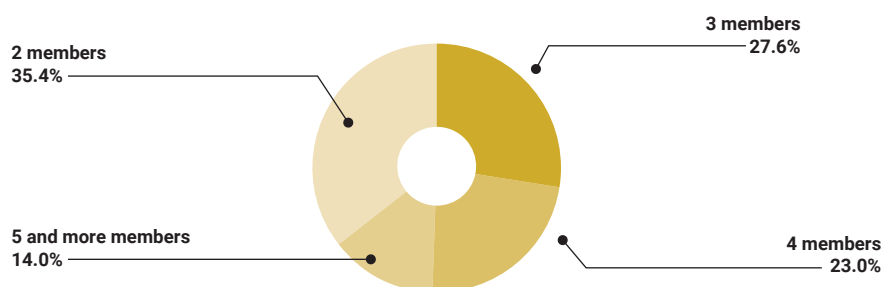
¹⁾ Data from the Censuses is compiled according to the administrative and territorial division pursuant to the Act on the Territories of Counties, Towns and Municipalities in the Republic of Croatia (Official Gazette 10/97).

²⁾ See Notes on Methodology.

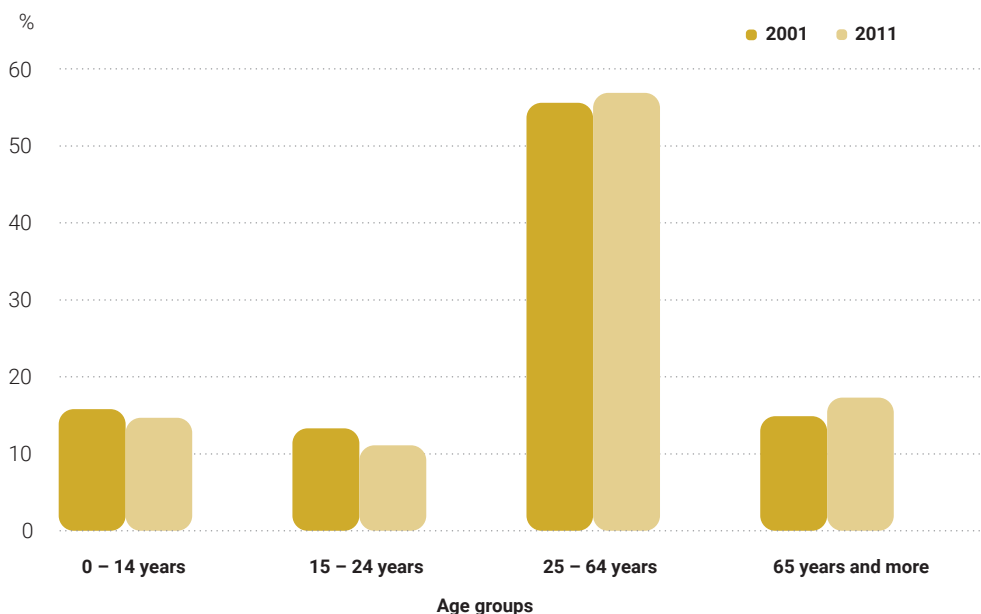
G 2.3 Private households by household structure, 2011 Census



G 2.4 Family households by number of members, 2011 Census

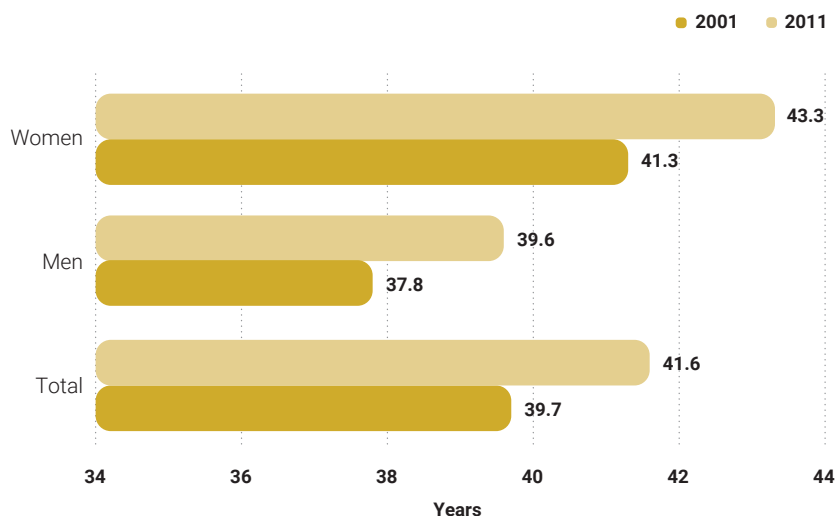


G 2.5 Age structure of citizens of the City of Zagreb according to 2001 and 2011 Censuses



Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

G 2.6 Average age of citizens of the City of Zagreb according to 2001 and 2011 Censuses



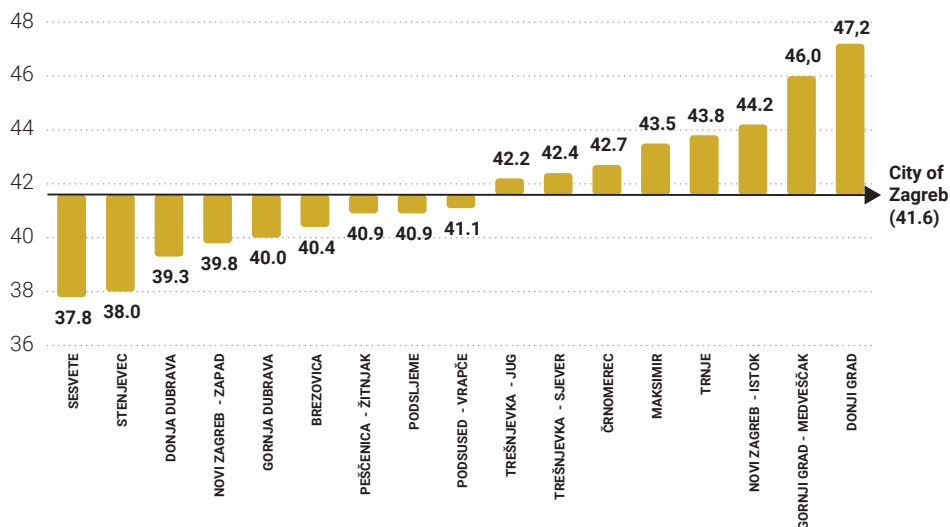
Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

2.4 Population subgroups, 2011 Census

	Population			Share, %		
	Total	Men	Women	Total	Men	Women
Total	790 017	369 339	420 678	100.0	100.0	100.0
0 – 6 years	56 048	28 699	27 349	7.1	7.8	6.5
0 – 14	116 059	59 614	56 445	14.7	16.1	13.4
0 – 17	140 060	71 920	68 140	17.7	19.5	16.2
0 – 19 years	156 901	80 480	76 421	19.9	21.8	18.2
Women of reproductive age						
total: 15 – 49 years	-	-	191 848	-	-	45.6
of which: 20 – 29 years	-	-	53 040	-	-	12.6
Working-age population (15 – 64 years)	537 188	256 524	280 664	68.0	69.5	66.7
60 years and more	186 560	75 112	111 448	23.6	20.3	26.5
65 years and more	136 770	53 201	83 569	17.3	14.4	19.9
75 years and more	60 326	20 951	39 375	7.6	5.7	9.4
Average age	41.6	39.6	43.3	-	-	-
Aging index	118.9	93.3	145.8	-	-	-
Age coefficient	23.6	20.3	26.5	-	-	-

G 2.7 Average age of population in city districts – rank, 2011 Census

Years



Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

2.5 Population aged 15 and over by level of education and sex, 2011 Census

	Population			Structure, %		
	Total	Men	Women	Total	Men	Women
Total	673 958	309 725	364 233	100.0	100.0	100.0
No schooling	4 926	1 050	3 876	0.7	0.4	1.1
1 – 3 grades of primary school	2 285	373	1 912	0.3	0.1	0.5
4 – 7 grades of primary school	26 094	5 608	20 486	3.9	1.8	5.6
Primary school (8 grades)	91 587	35 674	55 913	13.6	11.5	15.4
Secondary schools – total	352 791	177 538	175 253	52.3	57.3	48.1
Vocational schools for education of craftsmen and industrial professionals, vocational schools lasting for 1 – 3 years, and schools for skilled or highly skilled workers	144 383	88 208	56 175	21.4	28.5	15.4
Technical secondary schools and related vocational schools, vocational schools lasting for 4 or more years	150 277	67 796	82 481	22.3	21.9	22.6
Grammar schools	58 131	21 534	36 597	8.6	6.9	10.1
Higher education – total	195 326	89 147	106 179	29.0	28.8	29.1
Professional study programmes ¹⁾	48 015	21 718	26 297	7.1	7.0	7.2
University study programmes ²⁾	140 379	63 432	76 947	20.9	20.5	21.1
Doctor of Science degrees	6 932	3 997	2 935	1.0	1.3	0.8
Unknown	949	335	614	0.2	0.1	0.2

¹⁾ All higher education institutions, i. (VI.) level of studies at faculties, and professional studies according to the Bologna Process have been included.

²⁾ Data includes all faculties, art academies, all university study programmes according to the Bologna Process, and scientific, professional and art study programmes for obtaining a Master's Degree.

2.6 Population aged 15 and over by legal marital status and sex, 2011 Census

	Population		Structure, %	
	Men	Women	Men	Women
Total	309 725	364 233	100.0	100.0
Marital status				
Unmarried	110 798	103 208	35.8	28.3
Married	174 365	177 312	56.3	48.7
Widower/widow	10 148	56 657	3.3	15.6
Divorced	13 814	26 144	4.4	7.2
Unknown	600	912	0.2	0.2

2.7 Population aged 15 and over by type of union that persons live in and their sex, 2011 Census

	Population		Structure, %	
	Men	Women	Men	Women
Total	309 725	364 233	100.0	100.0
Not married / not in a civil union / not in a same-sex union	131 213	185 725	42.3	51.0
Marriage	165 924	165 924	53.6	45.5
Civil union and same-sex union	12 588	12 584	4.1	3.5

2.8 Female population aged 15 and over by number of live births, 2011 Census

	Total	Women who have not given birth	Women who have given birth by number of live-born children					Unknown
			Total	One	Two	Three	Four and more	
Number of women	364 233	116 263	242 617	86 341	117 299	27 663	11 314	5 353
Share, %	100.0	31.9	66.6	23.7	32.2	7.6	3.1	1.5

2.9 Population by citizenship, 2011 Census

	Total	Croatian citizenship		Foreign citizenship	Without citizenship	Unknown citizenship
		Total	Croatian and other			
Population	790 017	784 415	15 586	4 871	135	596
Share, %	100.00	99.29	1.97	0.62	0.02	0.08

2.10 Population by nationality, 2011 Census

	Population	Share, %
Total	790 017	100.00
Croats	735 824	93.14
National minorities ¹⁾ – total	41 550	5.26
Albanians	4 292	0.54
Austrians	104	0.01
Bosnians	8 119	1.03
Bulgarians	120	0.02
Montenegrins	1 191	0.15
Czechs	835	0.11
Hungarians	825	0.10
Macedonians	1 194	0.15
Germans	364	0.05
Polish	166	0.02
Roma	2 755	0.35
Romanians	94	0.01
Russians	331	0.04
Rusyns	134	0.02
Slovaks	207	0.03
Slovenians	2 132	0.27
Serbs	17 526	2.22
Italians	399	0.05
Turks	106	0.01
Ukrainians	332	0.04
Vlachs	7	0.00 ²⁾
Jews	317	0.04
Other	2 368	0.30
Regional affiliation	214	0.03
Declared religious affiliation	1 953	0.25
Unclassified	291	0.04
Undeclared	6 135	0.78
Unknown	1 682	0.21

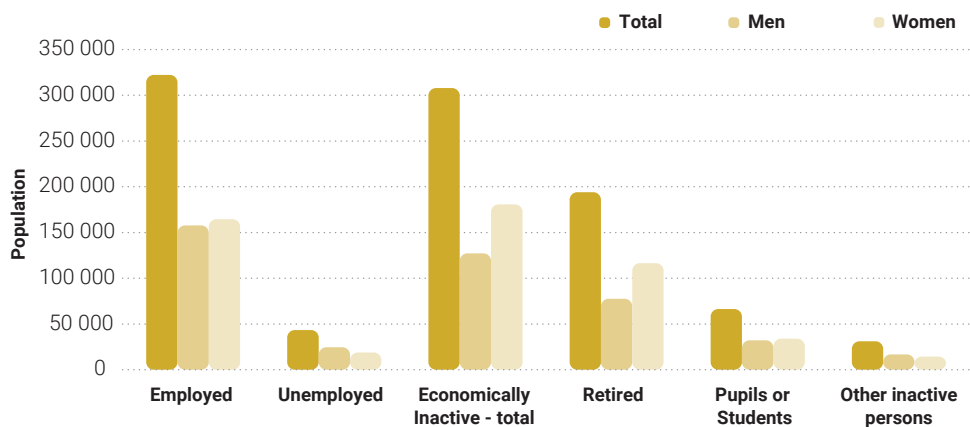
¹⁾ According to the Constitutional Act on Human Rights and Freedoms and the Rights of Ethnic and National Communities or Minorities in the Republic of Croatia (Official Gazette 105/2000).

²⁾ Data comprises less than 0.005% of total share in population.

2.11 Population by religion, 2011 Census

	Total	Catholics	Orthodox	Protestants	Other Christians	Muslims	Jews	Eastern religions	Other religions movements and beliefs	Agnostics and sceptics	Non-believers and atheists	Undeclared	Unknown
Population	790 017	656 571	15 960	2 553	3 070	18 044	327	1 084	1 055	11 800	49 784	27 290	2 479
Share, %	100.00	83.11	2.02	0.32	0.39	2.28	0.04	0.14	0.13	1.49	6.30	3.45	0.31

G 2.8 Population aged 15 and over by activity and sex, 2011 Census



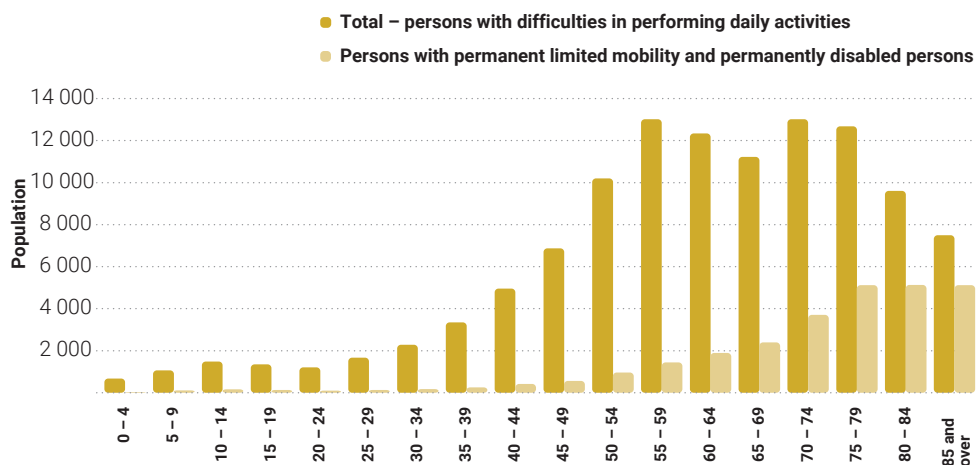
Source: City Office for the Strategic Planning
and Development of the City - Department of Statistics

2.12 Population by main sources of livelihood and sex, 2011 Census

	Population			Share, %		
	Total	Men	Women	Total	Men	Women
Total¹⁾	790 017	369 339	420 678	100.0	100.0	100.0
Source of livelihood						
Income from permanent employment	311 076	152 684	158 392	39.4	41.3	37.7
Income from contingent employment	19 196	10 633	8 563	2.4	2.9	2.0
Income from agriculture	957	586	371	0.1	0.2	0.1
Old-age pension	130 085	52 240	77 845	16.5	14.1	18.5
Other pensions	69 152	27 561	41 591	8.8	7.5	9.9
Property income	4 227	2 195	2 032	0.5	0.6	0.5
Social benefits	20 045	8 444	11 601	2.5	2.3	2.8
Other income	17 189	8 292	8 897	2.2	2.2	2.1
Occasional support from others	14 521	6 979	7 542	1.8	1.9	1.8
No income	224 410	109 362	115 048	28.4	29.6	27.3
Unknown	514	275	239	0.1	0.1	0.1

¹⁾ The sum of the data in the columns is larger than the data in the column "Total" (total population) because persons may have provided two answers (two different incomes) and such persons are therefore represented in two columns.

G 2.9 Population with difficulties in performing daily activities by age, 2011 Census



Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

2.13 Private households by household structure, 2011 Census

	Number of households	Number of persons	Average number of members in the household	Household share, %
Private households – total	303 441	781 272	2.57	100.0
Family households	209 430	679 186	3.24	69.0
Non-family households	94 011	102 086	1.09	31.0
Single-person households	86 827	86 827	1.00	28.6
Households consisting of several members	7 184	15 259	2.12	2.4

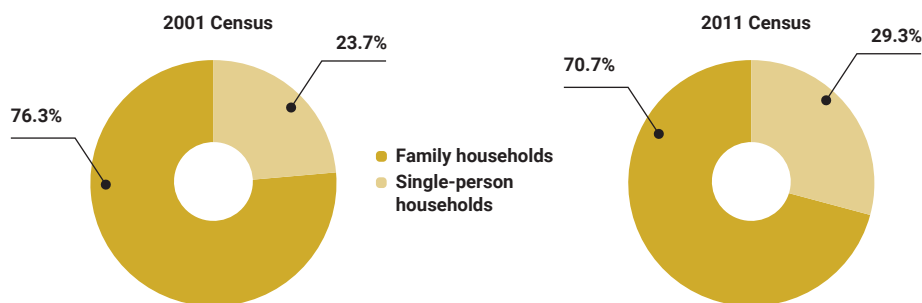
2.14 Family households by number of members, 2011 Census

	Total	Family households									
		2 members	3 members	4 members	5 members	6 members	7 members	8 members	9 members	10 members	11 and more members
Number of households	209 430	74 165	57 918	48 179	18 364	6 671	2 416	906	401	177	233
Number of persons	679 186	148 330	173 754	192 716	91 820	40 026	16 912	7 248	3 609	1 770	3 001
Household share, %	100.0	35.4	27.6	23.0	8.8	3.2	1.2	0.4	0.2	0.1	0.1

2.15 Families by structure and number of members, 2011 Census

	Total	Couples without children	Unmarried couples without children	Families with children				
				Total	Married couples with children	Unmarried couple with children	Mothers with children	Fathers with children
Number of families	221 875	55 020	7 766	159 089	110 769	4 766	37 162	6 392
Number of family members	656 213	110 040	15 532	530 641	412 508	16 831	86 547	14 755
Average number of members	2.96	2	2	3.34	3.72	3.53	2.33	2.31
Share of the number of families, %	100.0	24.8	3.5	71.7	49.9	2.1	16.8	2.9

G 2.10 Family and single-person households according to the 2001 and 2011 Censuses



Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

2.16 Families with children by family structure and number of children by age, 2011 Census

	Families with children				
	Total	Married couples with children	Unmarried couples with children	Mothers with children	Fathers with children
Number of families	159 089	110 769	4 766	37 162	6 392
Families by number of children:					
One child	84 821	50 077	2 975	27 037	4 732
Two children	57 065	45 879	1 315	8 465	1 406
Three children	13 417	11 523	331	1 351	212
Four children	2 770	2 412	89	238	31
Five and more children	1 016	878	56	71	11
Number of children – total	256 017	190 970	7 299	49 385	8 363
Children by age:					
0 – 5 years	48 434	40 495	2 666	4 666	607
6 – 9 years	28 024	23 153	1 051	3 429	391
10 – 14 years	38 972	31 752	1 154	5 409	657
15 – 17 years	23 527	18 611	567	3 766	583
18 – 24 years	51 528	39 017	1 061	9 566	1 884
25 years and more	65 532	37 942	800	22 549	4 241

2.17 Population by sex, household structure, and family status, 2011 Census

	Population			Share, %		
	Total	Men	Women	Total	Men	Women
Total	790 017	369 339	420 678	100.0	100.0	100.0
Persons in private households by family status – total	781 272	366 177	415 095	98.9	99.1	98.7
Child	256 017	137 701	118 316	32.4	37.3	28.1
Husband/wife	331 578	165 789	165 789	42.0	44.9	39.4
Partner	25 064	12 532	12 532	3.2	3.4	3.0
Mother with children	37 162	-	37 162	4.7	-	8.8
Father with children	6 392	6 392	-	0.8	1.7	-
Single person (single-person household)	86 827	31 480	55 347	11.0	8.5	13.2
Other (unrelated members)	38 232	12 283	25 949	4.8	3.3	6.2
People in institutional households – total	8 745	3 162	5 583	1.1	0.9	1.3
Institutions for retired or elderly people	4 595	1 122	3 473	0.6	0.3	0.8
Health and care institutions	1 221	664	557	0.1	0.2	0.1
Religious institutions	1 495	420	1 075	0.2	0.1	0.3
Other institutions	1 434	956	478	0.2	0.3	0.1

2.18 Institutional households by number of members, 2011 Census

	Total	Number of members in institutional households										
		Less than 10	10 – 19	20 – 29	30 – 39	40 – 49	50 – 99	100 – 149	150 – 199	200 – 249	250 – 299	300 and more
Number of households	215	55	59	35	22	11	14	2	4	3	5	5
Number of persons	8 745	305	779	807	735	477	959	220	707	716	1 331	1 709

2.19 Households¹⁾ by use and ownership of dwellings, 2011 Census

	Total	Basis on which the dwelling is used					
		Owner-ship or co-owner-ship	Freely determi-ned rent	Users rela-ted to the owner or the lessor	Prote-cted rent	Rental of a part of the dwelling (tenant)	Other
Total							
Number of households	303 191	260 947	14 999	15 369	6 617	3 327	1 932
Number of household members	780 957	677 599	32 673	41 215	17 313	7 588	4 569
In dwellings owned by natural persons							
Number of households	295 024	260 947	13 238	15 252	1 571	3 096	920
Number of household members	758 756	677 599	27 903	40 945	3 388	7 006	1 915
In dwellings owned by legal persons							
Number of households	8 167	-	1 761	117	5 046	231	1 012
Number of household members	22 201	-	4 770	270	13 925	582	2 654

¹⁾ Besides private households, data includes institutional households that occupy dwellings.

2.20 Private households by ownership of personal computers and Internet use, 2011 Census

	Total	Household owns a personal computer (desktop or laptop)			Household uses the Internet		
		Yes	No	Unknown	Yes	No	Unknown
Total	303 441	200 929	97 677	4 835	189 422	108 636	5 383

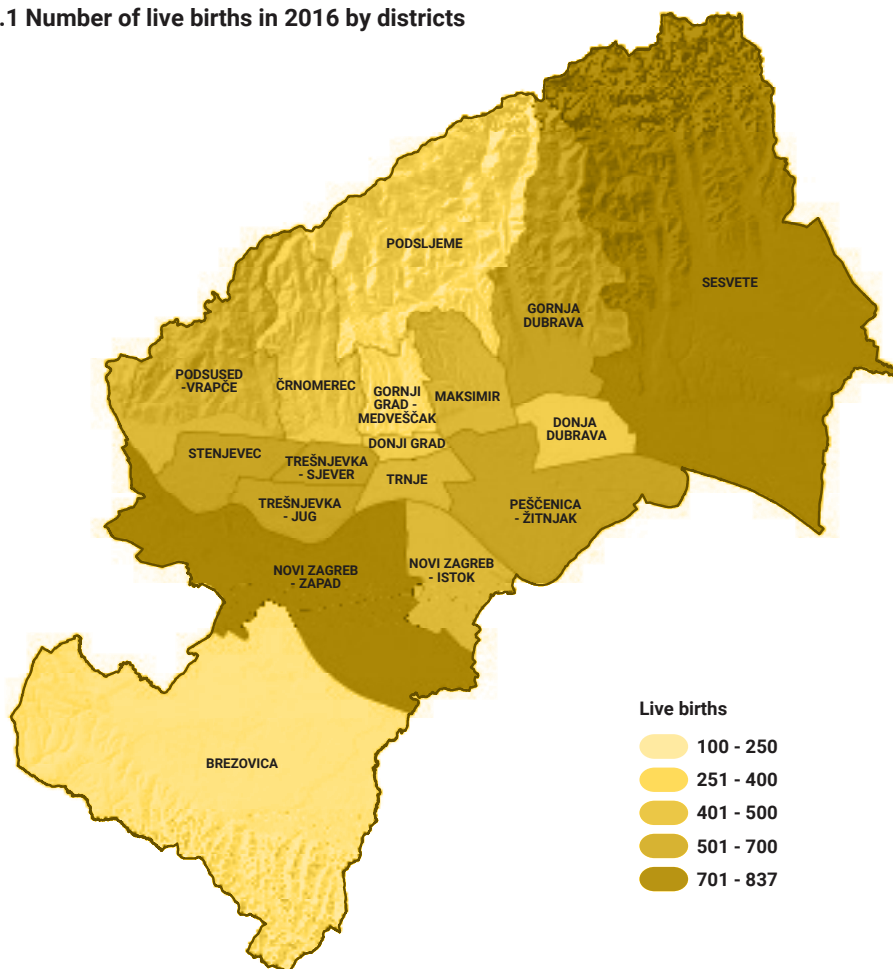
VITAL STATISTICS

2.21 Natural change in population

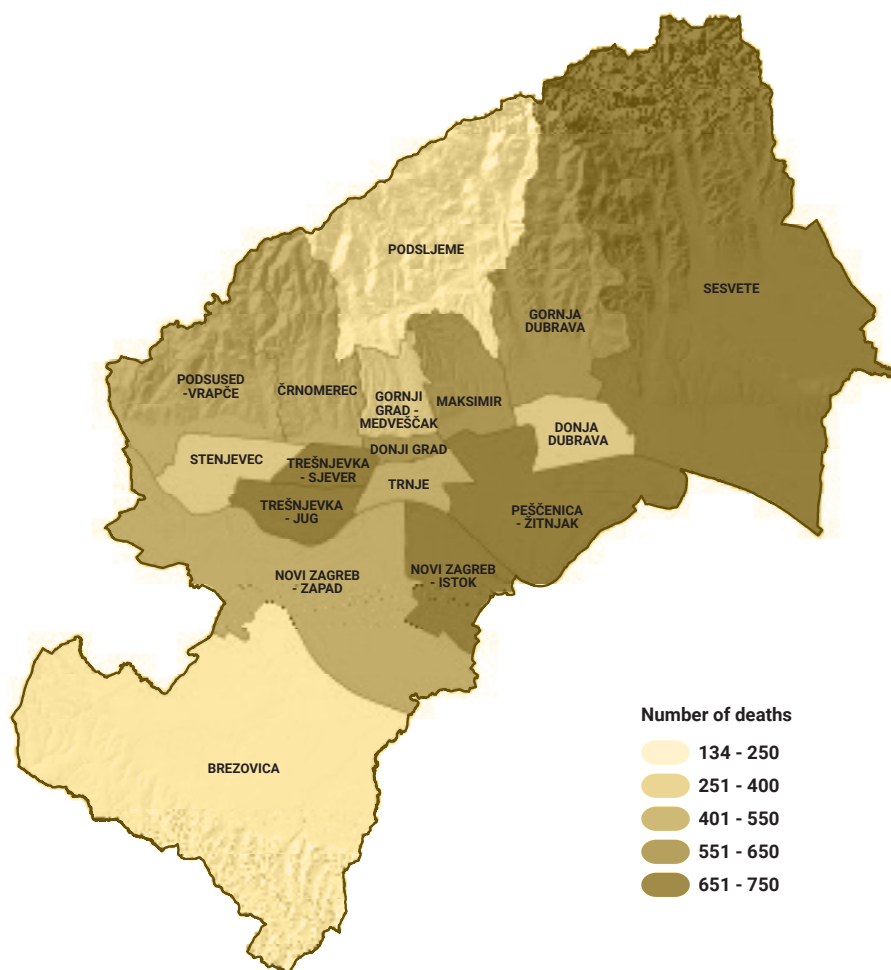
	Live births	Still-births	Stillbirths per 1,000 live births	Number of deaths		Infant mortality per 1,000 live- births	Natural population increase/decrease	Marriages		
				Total	Of which infants			Concluded	Divorces	Divorces per 1,000 concluded marriages
2012	8 394	26	3.1	8 329	27	3.2	65	3 725	1 472	395.2
2013	8 254	29	3.5	8 360	28	3.4	-106	3 594	1 282	356.7
2014	8 452	25	3.0	8 359	30	3.5	93	3 647	1 680	460.7
2015	8 039	37	4.6	8 821	26	3.2	-782	3 737	1 428	382.1
2016	8 120	38	4.7	8 528	29	3.6	-408	3 806	1 682	441.9

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

K 2.1 Number of live births in 2016 by districts



K 2.2 Number of deaths in 2016 by districts

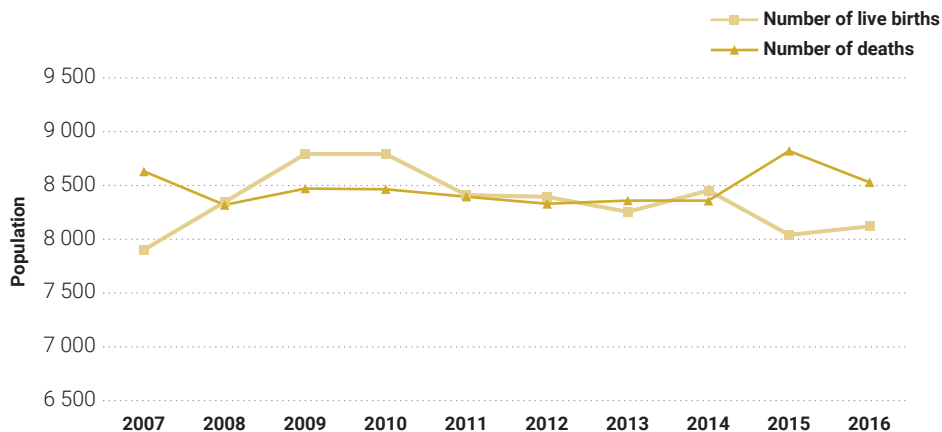


2.22 Rate of natural change in population

	Per 1,000 inhabitants				
	Live births	Deaths	Natural population increase/decrease	Concluded marriages	Divorces
2012	10.6	10.5	0.1	4.7	1.9
2013	10.4	10.5	-0.1	4.5	1.6
2014	10.6	10.5	0.1	4.6	2.1
2015	10.1	11.0	-0.9	4.7	1.8
2016	10.1	10.6	-0.5	4.7	2.1

Source: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 2.11 Natural change in population

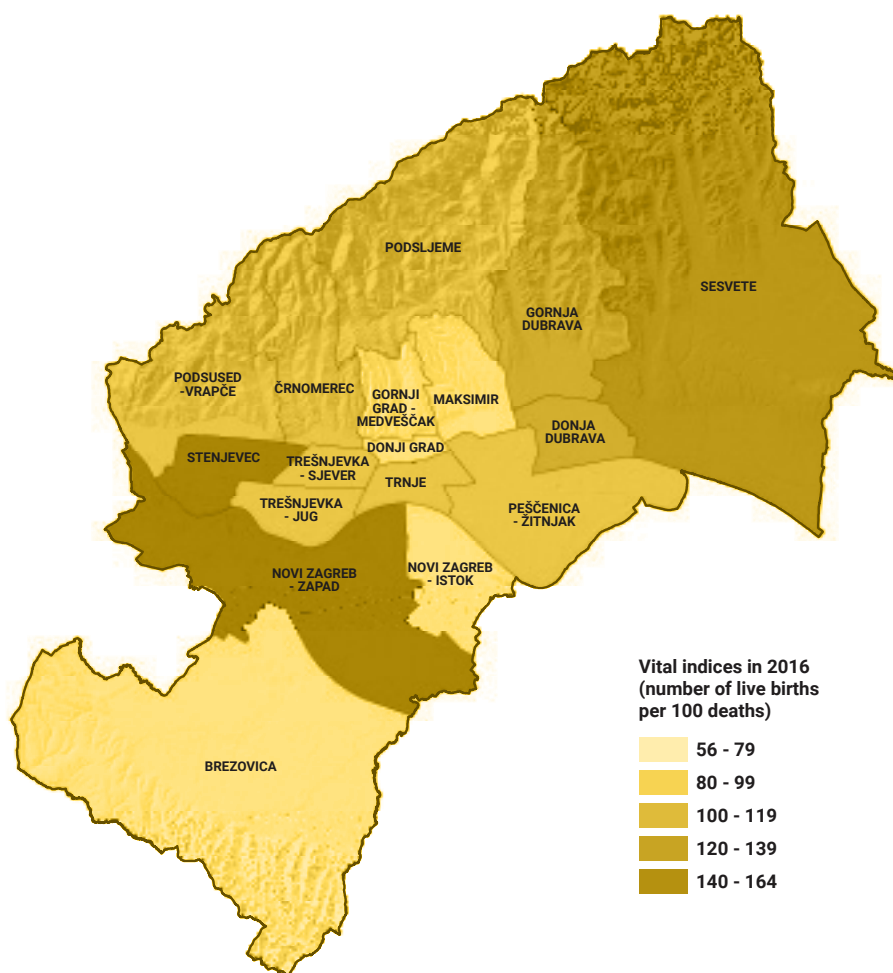


2.23 Live births and stillbirths by sex, marital status of parents, place of birth, and professional assistance

	Total	Sex		Marital status		Place of birth and professional assistance		
		Male	Female	Married	Un-married	In a health-care institution	Other places of birth	
							With professional assistance	Without professional assistance
Live births								
2012	8 394	4 367	4 027	7 115	1 279	8 391	2	1
2013	8 254	4 260	3 994	6 943	1 311	8 251	-	3
2014	8 452	4 326	4 126	7 039	1 413	8 446	3	3
2015	8 039	4 169	3 870	6 668	1 371	8 037	1	1
2016	8 120	4 110	4 010	6 665	1 455	8 114	4	2
Stillbirths								
2012	26	15	11	19	7	26	-	-
2013	29	17	12	24	5	29	-	-
2014	25	13	12	17	8	25	-	-
2015	37	17	20	28	9	37	-	-
2016	38	14	24	27	11	38	-	-

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

K 2.3 Vital indices in 2016 by city districts



2.24 Live births and stillbirths by age of mother and birth order

	Total	Age of mother						Birth order					
		Less than 15 years	15 – 19	20 – 29	30 – 39	40 years and more	Unknown	First	Second	Third	Fourth	Fifth and over	Unknown
Live births													
2012	8 394	1	124	3 146	4 776	342	5	4 200	2 929	822	198	81	164
2013	8 254	-	118	2 910	4 923	303	-	4 005	2 953	863	223	102	108
2014	8 452	-	119	2 981	4 974	375	3	4 064	2 979	940	228	122	119
2015	8 039	1	101	2 755	4 859	318	5	3 769	2 965	869	220	102	114
2016	8 120	2	110	2 598	5 008	402	-	3 913	2 711	930	250	149	167
Stillbirths													
2012	26	-	-	6	19	1	-	16	6	-	1	-	-
2013	29	-	1	7	19	2	-	14	6	2	1	-	6
2014	25	-	2	8	13	2	-	12	5	1	-	-	7
2015	37	-	1	7	25	4	-	17	5	2	-	-	13
2016	38	-	2	16	20	-	-	26	8	3	-	-	1

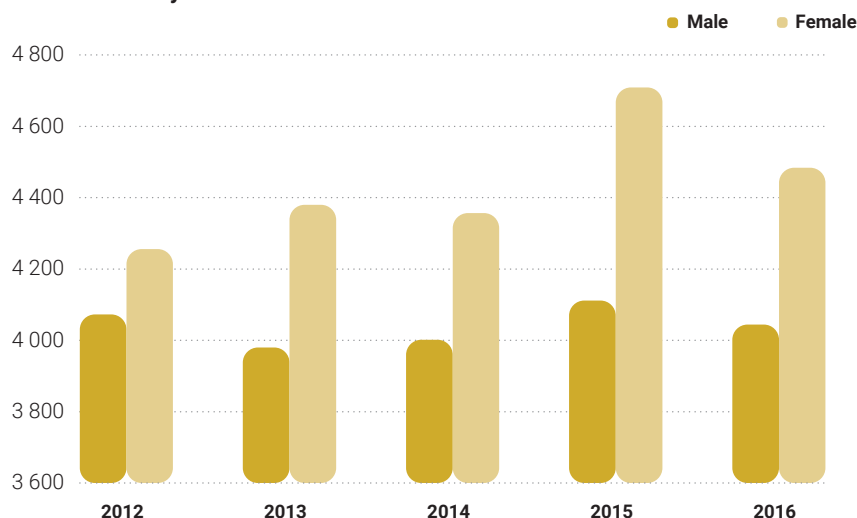
Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.25 Deaths by sex and age

	Sex	Total	Age											
			Less than 1 year	1 – 4	5 – 9	10 – 14	15 – 19	20 – 29	30 – 39	40 – 49	50 – 59	60 – 69	70 and more	Unknown
2012	Male	4 073	14	3	2	2	3	27	58	125	419	847	2 571	2
	Female	4 256	13	4	-	1	3	8	19	65	242	478	3 421	2
2013	Male	3 980	12	1	1	3	8	27	52	108	404	813	2 551	-
	Female	4 380	16	2	-	1	2	11	31	77	214	413	3 613	-
2014	Male	4 002	18	4	3	3	8	18	55	104	402	758	2 629	-
	Female	4 357	12	2	-	4	3	10	31	65	209	492	3 529	-
2015	Male	4 112	16	2	1	1	6	22	64	128	347	818	2 707	-
	Female	4 709	10	1	1	3	6	9	20	85	224	451	3 899	-
2016	Male	4 044	12	2	2	3	5	16	54	119	347	811	2 673	-
	Female	4 484	17	2	3	-	1	10	17	59	165	505	3 705	-

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 2.12 Deaths by sex



2.26 Deaths by sex, place of death, treatment of the disease that caused death, and reports on the cause of death

	Total	Place of death					Treated from the disease that caused death			Information on the cause of death was given by				
		Hospital	Other health institution	Accommodation institution	Dwelling	Other places	Yes	No	Unknown	Medical examiner	Coroner (other than medical examiners)	Pathologist	Medical doctor who treated the person	Undetermined cause of death
2012														
Total	8 329	4 541	42	1 388	2 144	214	7 902	277	150	2 094	10	1 083	5 140	2
Male	4 073	2 315	24	462	1 115	157	3 773	199	101	795	9	696	2 573	-
Female	4 256	2 226	18	926	1 029	57	4 129	78	49	1 299	1	387	2 567	2
2013														
Total	8 360	4 511	32	1 447	2 170	200	8 027	290	43	2 263	20	1 033	5 041	3
Male	3 980	2 239	17	456	1 116	152	3 753	198	29	835	10	633	2 499	3
Female	4 380	2 272	15	991	1 054	48	4 274	92	14	1 428	10	400	2 542	-
2014														
Total	8 359	4 408	36	1 550	2 174	191	8 079	246	34	4 449	33	818	3 058	1
Male	4 002	2 214	20	518	1 110	140	3 805	175	22	1 881	17	501	1 602	1
Female	4 357	2 194	16	1 032	1 064	51	4 274	71	12	2 568	16	317	1 456	-
2015														
Total	8 821	4 592	26	1 761	2 180	262	8 442	344	35	5 306	39	891	2 583	2
Male	4 112	2 292	18	535	1 080	187	3 873	222	17	2 277	13	533	1 287	2
Female	4 709	2 300	8	1 226	1 100	75	4 569	122	18	3 029	26	358	1 296	-
2016														
Total	8 528	4 558	52	1 619	2 001	298	8 168	325	35	5 759	56	872	1 840	1
Male	4 044	2 267	27	516	1 040	194	3 796	223	25	2 558	32	543	910	1
Female	4 484	2 291	25	1 103	961	104	4 372	102	10	3 201	24	329	930	-

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.27 Deaths by cause of death

	2012	2013	2014	2015	2016
Total	8 329	8 360	8 359	8 821	8 528
Infectious and parasitic diseases	72	98	78	107	121
Neoplasms	2 497	2 475	2 540	2 460	2 569
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	10	6	1	5	9
Endocrine, nutritional and metabolic diseases	194	227	211	276	325
Mental and behavioural disorders	172	168	185	212	138
Diseases of the nervous system	156	178	166	190	202
Diseases of the eye and adnexa	-	-	-	-	-
Diseases of the ear and mastoid process	-	-	1	1	-
Diseases of the circulatory system	3 827	3 810	3 807	3 948	3 610
Diseases of the respiratory system	386	394	394	491	470
Diseases of the digestive system	316	332	296	346	293
Diseases of the skin and subcutaneous tissue	-	2	3	3	2
Diseases of the musculoskeletal system and connective tissue	23	14	26	26	22
Diseases of the genitourinary system	156	158	190	248	305
Pregnancy, childbirth and the puerperium	-	-	-	-	-
Certain conditions originating in the perinatal period	14	21	17	17	14
Congenital malformations, deformations and chromosomal abnormalities	17	16	18	14	18
Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified	69	84	59	72	43
Injury, poisoning and certain other consequences of external causes	420	377	367	405	387

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.28 Violent deaths

	Total number of violent deaths		Accidental deaths		Murders		Suicides		Consequences of war injuries		Unknown, unsolved violent deaths	
	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
2012	420	154	309	127	12	4	96	22	-	-	3	1
2013	377	136	279	114	10	5	84	16	-	-	4	1
2014	367	156	262	124	5	4	95	27	-	-	5	1
2015	405	177	284	134	3	1	115	41	-	-	3	1
2016	387	157	270	126	9	4	104	27	1	-	3	-

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.29 Violent deaths by age of the deceased and month of death

	2012	2013	2014	2015	2016
Total violent deaths	420	377	367	405	387
By age of the deceased					
Less than 1 year	-	-	-	-	1
1 – 4	3	-	2	1	1
5 – 9	2	-	1	-	-
10 – 14	1	-	-	2	-
15 – 19	4	6	6	6	3
20 – 24	14	10	5	7	8
25 – 29	10	10	6	6	8
30 – 34	19	17	14	18	13
35 – 39	19	22	22	27	16
40 – 44	17	13	18	19	11
45 – 49	25	20	13	25	13
50 – 54	29	16	22	17	23
55 – 59	27	25	26	25	26
60 – 64	36	35	34	19	26
65 – 69	28	27	19	23	27
70 – 74	33	29	18	28	29
75 – 79	31	40	38	39	32
80 years and more	121	107	123	143	150
Unknown age	1	-	-	-	-
By month of death					
January	31	28	26	40	44
February	32	23	21	44	28
March	24	30	34	43	20
April	39	33	29	25	39
May	35	25	34	24	20
June	36	28	29	28	37
July	44	34	37	34	32
August	43	42	31	37	33
September	37	43	36	35	44
October	45	33	45	27	38
November	26	27	17	29	27
December	28	31	28	39	25
Share of violent deaths in the total number of deaths, %	5.0	4.5	4.4	4.6	4.5

Source: CBS; City Office for the Strategic Planning and Development of the City – Department of Statistics

2.30 Suicides by age of the deceased

	2012	2013	2014	2015	2016
Suicides – total	96	84	95	115	104
Age of the deceased					
up to 14 years	-	-	-	1	-
15 – 24	3	7	8	10	7
25 – 39	11	16	18	24	11
40 – 54	27	20	22	24	19
55 – 69	34	28	24	27	37
70 years and more	21	13	23	29	30
Unknown age	-	-	-	-	-
Suicide rate in total number of deaths, %	1.15	1.00	1.14	1.30	1.22
Suicide in the total number of violent deaths, %	22.90	22.30	25.90	28.40	26.87

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.31 Deaths in traffic accidents by age

	2012	2013	2014	2015	2016
Total deaths	61	49	48	30	32
Of which women	13	12	13	10	6
Age of the deceased					
0 – 4	-	-	-	-	-
5 – 9	1	-	1	-	-
10 – 14	-	-	-	1	-
15 – 19	1	2	-	-	1
20 – 24	7	3	2	-	1
25 – 29	3	4	1	-	1
30 – 34	7	6	4	1	4
35 – 39	6	5	3	2	2
40 – 44	3	2	2	4	1
45 – 49	4	1	4	3	1
50 – 54	5	-	2	2	6
55 – 59	4	2	4	4	2
60 – 64	5	4	6	1	2
65 – 69	3	4	2	2	2
70 – 74	5	7	3	1	4
75 – 79	5	5	2	5	1
80 years and more	2	4	12	4	4
Unknown age	-	-	-	-	-
Share of deaths in traffic accidents in the total number of the deceased, %	0.73	0.59	0.57	0.34	0.38
Share of deaths in traffic accidents in the total number of violent deaths, %	14.50	13.00	13.08	7.41	8.27

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.32 Concluded marriages by age of brides and grooms

	Concluded marriages – total	Age										
		15 – 19	20 – 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 years and more	Unknown
Brides												
2012	3 725	58	624	1 496	968	301	98	47	57	27	47	2
2013	3 594	73	501	1 396	1 014	305	104	59	48	44	48	2
2014	3 647	50	491	1 407	1 014	326	150	73	48	35	51	2
2015	3 737	53	539	1 388	983	400	141	68	64	37	64	-
2016	3 806	70	467	1 407	1 043	398	169	77	62	43	70	-
Grooms												
2012	3 725	11	300	1 197	1 207	519	194	94	61	50	92	-
2013	3 594	11	260	1 079	1 197	512	211	108	62	45	109	-
2014	3 647	11	242	1 104	1 202	519	229	118	68	48	106	-
2015	3 737	2	247	1 092	1 202	575	249	127	75	61	107	-
2016	3 806	25	220	1 080	1 245	591	224	151	89	75	106	-

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.33 Concluded marriages by number of previous marriages and previous marital status

	Concluded marriage – total	Number of marriages				Previous marital status					
		Brides		Grooms		Brides			Grooms		
		One	Two or more	One	Two or more	Un-married	Widow	Divor-ced	Un-married	Wi-dower	Divor-ced
2012	3 725	3 442	283	3 413	312	3 442	30	253	3 413	38	274
2013	3 594	3 289	305	3 233	361	3 289	31	274	3 233	35	326
2014	3 647	3 274	373	3 230	417	3 274	37	336	3 230	61	356
2015	3 737	3 332	405	3 265	472	3 332	37	368	3 265	50	422
2016	3 806	3 372	434	3 286	520	3 372	37	397	3 286	51	469

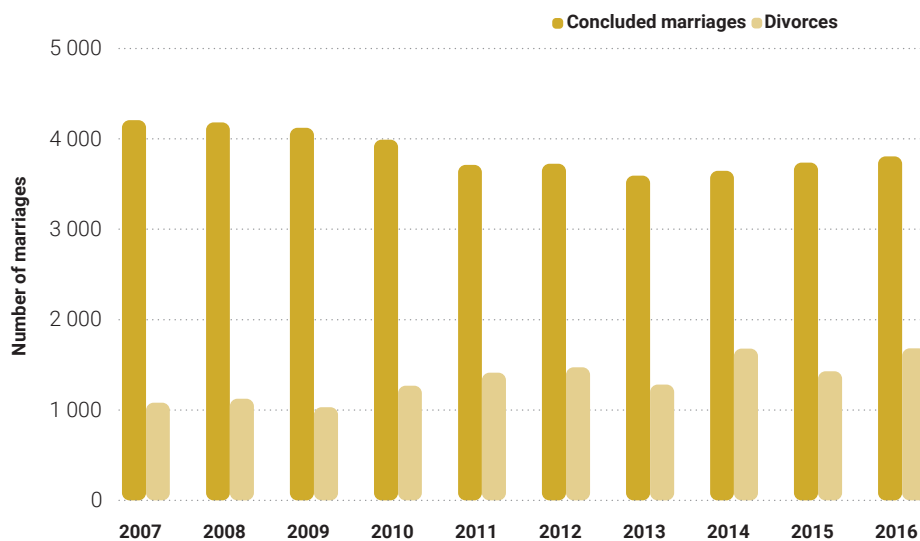
Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.34 Concluded marriages by professional qualifications of brides and grooms

	Concluded marriages – total	School education													
		Brides							Grooms						
		No schooling and 1 – 3 grades of primary school	4 – 7 grades of primary school	Primary school	Vocational schools lasting 1 – 3 years and schools for skilled and highly skilled workers	Four-year vocational schools and grammar schools	Faculties, higher, and post-secondary schools, masters' degrees and doctoral degrees	Unknown	No schooling and 1 – 3 grades of primary	4 – 7 grades of primary school	Primary school	Vocational schools lasting 1 – 3 years and schools for skilled or highly skilled workers	Four-year vocational schools and grammar schools	Faculties, higher, and post-secondary schools, a master's degree and doctoral degrees	Unknown
2012	3 725	4	3	52	370	1 445	1 640	211	1	-	37	597	1 504	1 373	213
2013	3 594	2	1	38	348	1 256	1 661	288	2	1	27	610	1 291	1 366	297
2014	3 647	5	8	42	460	1 128	1 547	457	4	4	32	584	1 240	1 306	477
2015	3 737	3	5	31	423	1 142	1 677	456	3	6	23	629	1 226	1 388	462
2016	3 806	1	1	42	435	1 135	1 802	390	1	1	25	691	1 230	1 487	371

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics Department of

G 2.13 Concluded marriages and divorces



2.35 Divorces

	2012	2013	2014	2015	2016
Divorces – total	1 472	1 282	1 680	1 428	1 682
By husband's age					
up to 19	1	-	-	-	1
20 – 24	16	11	12	10	14
25 – 29	84	78	94	76	75
30 – 39	487	452	515	464	542
40 – 49	503	442	554	463	611
50 – 59	290	209	341	279	320
60 years and more	89	88	164	136	119
unknown	2	2	-	-	-
By wife's age					
do 19	1	1	1	-	1
20 – 24	32	32	32	27	29
25 – 29	144	133	145	120	136
30 – 39	567	490	585	552	631
40 – 49	446	420	533	443	587
50 – 59	212	141	277	202	220
60 years and more	53	54	103	84	78
unknown	17	11	4	-	-
By duration of marriage					
up to 1 year	26	13	14	11	15
1 – 4	261	214	295	250	245
5 – 9	318	301	356	334	404
10 – 14	249	243	275	249	313
15 – 19	219	206	227	207	254
20 years and more	399	305	513	377	451
By number of dependent children born during the divorce procedure					
0	623	487	760	615	665
1	480	451	522	442	548
2	304	297	338	283	395
3 and over	65	47	60	88	74
unknown	-	-	-	-	-
By dependent children born to married parents currently undergoing divorce procedure, in cases of granted child custody					
no dependent children	623	487	760	615	665
custody granted to the husband	69	67	64	59	77
custody granted to the wife	756	708	822	722	896
custody granted to the husband and the wife	23	16	32	32	43
custody granted to other persons, institutions, and other	1	4	2	-	1

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

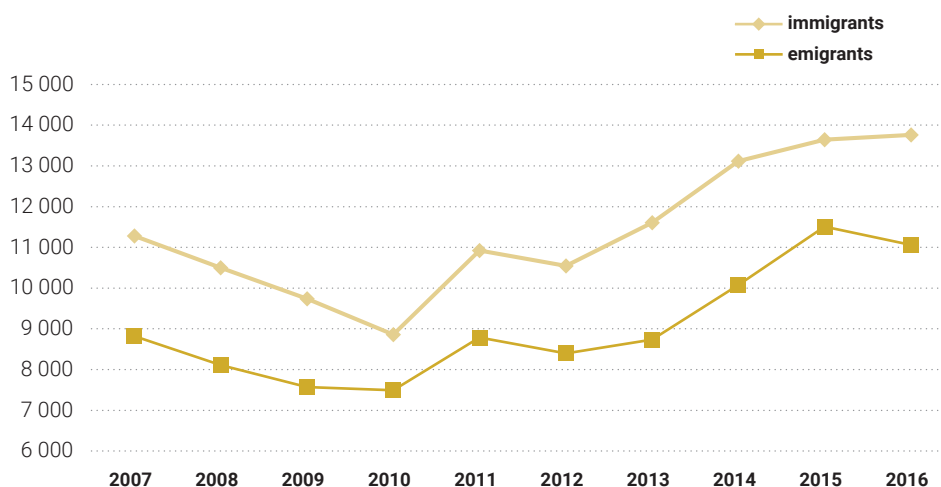
MIGRATION OF POPULATION

2.36 Immigrants and emigrants

	2012	2013	2014	2015	2016
Immigrants – total	10 548	11 606	13 116	13 644	13 765
From other counties	8 241	9 012	10 376	10 886	10 435
From abroad	2 307	2 594	2 740	2 758	3 330
Emigrants – total	8 396	8 735	10 076	11 512	11 059
To other counties	6 409	6 731	6 955	6 466	6 183
Abroad	1 987	2 004	3 121	5 046	4 876
Net migration rate	2 152	2 871	3 040	2 132	2 706
Net migration between counties	1 832	2 281	3 421	4 420	4 252
Net migration to foreign countries	320	590	-381	-2 288	-1 546
Moved from another settlement ¹⁾	2 646	3 109	2 945	2 869	2 727
Moved to another settlement ¹⁾	2 646	3 109	2 945	2 869	2 727

¹⁾ The data relate to the relocation between settlements within the City of Zagreb.

G 2.14 Immigrants and emigrants





03

Health care



NOTES ON METHODOLOGY

Source and method of data collection

Data on health care are supplied by the Croatian Health Insurance Fund, the Croatian Institute of Public Health, "Doctor Andrija Štampar" Teaching Institute of Public Health, Teaching Institute of Emergency Medicine of the City of Zagreb, and "Doctor Drago Čop" Polyclinic for Rheumatic Diseases, Physical Therapy and Rehabilitation.

Collection of statistical data on health care is the responsibility of health institutions (irrespective of the type of ownership), private practice health workers, pharmacies and other licensed institutions. Such data are used as the source for statistical surveys on health care-related topics.

Coverage and comparability

Data on health care are collected in accordance with the recommendations and definitions given by the World Health Organization. They are regularly published in international publications on health care. In order to make the system of statistical surveys unique in terms of recordkeeping and comparability of data, uniform methodological principles and statistical standards are being used.

Opening of private practice offices and establishing of private healthcare institutions has been enabled pursuant to the Health Care Act (OG 75/93, 55/96 and 1/97). Owing to the aforementioned, healthcare institutions have adjusted their internal organisation to the relevant Act, which resulted in transformation of medical centres into institutions for primary and hospital health care, and into public health institutes.

Health protection service for school children was reorganised in 1998. Since then, school children have been treated in general practice outpatient clinics, while preventive care is carried out in departments for school medicine that now operate as part of public health institutes.

Merging of health centres began in 2003, and it resulted in reduction of the number of health centres.

Since 2011, Emergency Service has been organised as an independent institution, which complies with the Emergency Services Network (OG 71/2012).

Act on Maternity and Parental Benefits (OG 85/08, 110/08, 34/11, 54/13 and 152/14) regulates, in a comprehensive manner, the rights of newborns' parents, the rights of adoptive parents, and the rights of parents who are caregivers of children with serious development disorders. Owing to differences in terminology, the conditions and

methods for use of maternity leave were changed, so data dating back from 2009 are not fully comparable to the data for the previous years, when the relevant rights were regulated under the Maternity Leave Act and the Health Insurance Act.

Groups of diseases are classified according to the International Classification of Diseases, and they were published in the Ordinance on the Implementation of the Act on Health Care Records in Primary and Specialist-Consultative Health Care (OG 4/95) pursuant to the Act on Health Care Records (OG 53/91). The Ordinance contains the forms for the classified diseases, and it stipulates the obligation of healthcare institutions and private practice health workers to fill out the forms.

The Act on Protection of the Population against Infectious Diseases (OG 79/07, 113/08, 43/09 and 22/14) stipulates the obligation to file a report for each person who contracted an infectious disease. The list of infectious diseases whose prevention and control of spreading is of interest to the Republic of Croatia is adopted by the minister of health at the proposal of the Croatian Institute of Public Health. The mayor of the City of Zagreb adopts such list for the city, at the proposal of the competent public health institute.

Definitions and explanations

Health care represents the system of state, group and individual measures for health improvement, protection and restoration. The aim of health care is promotion and improvement of health, prevention (i.e. disease prevention), timely detection of diseases, effective treatment and rehabilitation. Health care is divided into three levels: primary, secondary and tertiary.

Primary health care includes the activity of general practice, school medicine, hygienic and epidemiological care, dental care, emergency medical services, occupational health care, primary healthcare of women and children, community nursing and pharmacies. It is provided by health institutions, regardless of their type of ownership. These health institutions include health centres, institutions for emergency medical care, institutions for home health care, pharmacies and private practice offices.

Secondary health care includes specialist and consultative healthcare, as well as hospital health care provided by general and specialized hospitals, and health resorts.

Tertiary health care includes the most complex forms of healthcare in the field of specialist activities. It is provided by clinics and state health institutes.

Health workers are persons who completed education at the Faculty of Medicine, the School of Dental Medicine, the Faculty of Pharmacy and Biochemistry and at colleges and secondary schools implementing healthcare programs.

Emergency medical services Team 1 consists of a medical doctor specialized in emergency medicine (EMD), at least one male/female nurse and a driver.

Emergency medical services Team 2 consists of a male/female nurse specialized in providing emergency medical care, and at least one male/female nurse.

Organisation of Team 1 and Team 2 in emergency medical services is defined by the Emergency Services Network (OG 71/12).

3.1 Health care beneficiaries¹⁾

	Total	Insurance beneficiaries					Family members of insurance beneficiaries	Insurance beneficiaries who are farmers
		Total	Active users	Retired	Temporarily unemployed	Others		
2012	1 125 346	838 899	434 514	267 824	103 323	33 238	281 670	4 777
2013	1 128 396	852 879	430 269	269 438	110 782	42 390	271 372	4 145
2014	1 133 988	902 220	430 467	271 993	113 422	86 338	228 147	3 621
2015	1 133 535	927 875	433 633	273 430	111 231	109 581	202 497	3 163
2016	1 131 009	951 887	441 890	273 813	106 120	130 064	176 387	2 735

¹⁾ Data refers to beneficiaries from the area of the City of Zagreb and Zagreb County –Regional Office Zagreb.

Source: Croatian Health Insurance Fund

3.2 Overview of the duration of leave of absence¹⁾

	2012	2013	2014	2015	2016
Cause of incapacity for work					
Total					
Number of days					
In thousands	5 865	5 420	5 328	5 834	6 054
Per one active beneficiary	13.5	12.6	12.4	13.5	13.7
Disease					
Number of days					
In thousands	3 697	3 375	3 336	3 809	4 004
Per one active beneficiary	8.5	7.8	7.8	8.8	9.1
Occupational accidents and diseases					
Number of days					
In thousands	344	314	323	366	363
Per one active beneficiary	0.8	0.7	0.7	0.8	0.8
Family member care, isolation, and escort					
Number of days					
In thousands	263	251	241	290	284
Per one active beneficiary	0.6	0.6	0.6	0.7	0.6
Pregnancy and compulsory maternity leave					
Number of days					
In thousands	893	854	823	788	808
Per one active beneficiary	2.1	2	1.9	1.8	1.8
Pregnancy complications					
Number of days					
In thousands	668	626	605	581	595
Per one active beneficiary	1.5	1.5	1.4	1.4	1.4

¹⁾ Data refers to the duration of leave of absence at the expense of legal and natural persons and the Croatian Health Insurance Fund –Regional Office Zagreb.

Source: Croatian Health Insurance Fund

3.3 Health institutions

	2012	2013	2014	2015	2016
Institutes of Public Health	2	2	2	2	2
Hospitals – Total	14	17	17	18	17
University Hospital Centre	2	2	2	2	2
Clinical hospitals	3	3	3	3	3
Clinics	3	3	3	3	3
General hospitals	-	-	-	-	-
Special hospitals	6	9	9	10	9
Outpatient polyclinics (independent health care institutions)	162	166	158	168	167
Health centres	5	4	4	4	4
Nursing institutions	31	34	32	34	40
Other health institutions	11	9	9	9	8
Companies providing health care services	150	167	174	185	210

Source: Croatian Institute of Public Health

3.4 Health workers and associates

	2015	2016
Total	20 831	21 390
Medical doctors		
Total	4 636	4 680
Specialists	3 367	3 328
Medical doctors	1 269	1 352
Doctors of dental medicine	1 097	1 089
Pharmacists	796	816
Medical biochemists	202	204
Other health workers and associates		
By professional qualifications		
Total	14 100	14 601
Higher education	748	760
Post-secondary education	4 106	4 220
Secondary education	9 115	9 481
Primary education	131	140

Source: Croatian Institute of Public Health

3.5 Health workers and associates by professional qualifications, profession and sex

	2015		2016	
	Total	Women	Total	Women
Health workers and associates – total	20 831	16 660	21 390	17 076
Higher education	7 479	5 133	7 549	5 197
Health workers	7 139	4 854	7 209	4 915
Medical doctors – total	4 636	2 832	4 680	2 875
Specialists	3 367	1 966	3 328	1 952
Medical doctors without specialty	300	228	319	248
Specialty trainees	762	501	830	538
Interns	207	137	203	137
Doctors of dental medicine	1 097	733	1 089	725
Pharmacists	796	739	816	755
Medical biochemists	202	188	204	189
Other health workers with higher education degrees ¹⁾	408	362	420	371
Health associates	340	279	340	282
Post-secondary education	4 106	3 459	4 220	3 538
Health workers	4 082	3 441	4 200	3 523
Nurses	2 170	2 010	2 230	2 050
Dentists	-	-	-	-
Medical laboratory technicians	493	449	506	461
Sanitary technicians	71	54	74	55
Physiotherapists	735	584	764	612
Radiology technicians	511	256	513	244
Pharmaceutical technicians	-	-	-	-
Dental Technicians	26	21	26	21
Work Therapists	76	67	87	80
Health associates	24	18	20	15
Secondary education	9 115	7 976	9 481	8 242
Health workers	9 020	7 898	9 318	8 099
Nurses	7 203	6 337	7 502	6 554
Laboratory technicians	688	610	705	620
Sanitary technicians	63	43	59	39
Physiotherapeutic technicians	170	138	157	125
Radiology technicians	1	1	-	-
Pharmaceutical technicians	504	489	523	501
Dental technicians	381	273	359	250
Work therapy technicians	3	2	5	4
Child care worker	-	-	-	-
Wellness masseuse	7	5	8	6
Health associates	95	78	163	143
Primary education	131	92	140	99
Health workers	11	4	11	4
Child caregivers	2	2	1	1
Paramedics	9	2	10	3
Dental assistants	-	-	-	-
Health associates	120	88	129	95

¹⁾ Graduated nurses, physiotherapists, sanitary technicians.

Source: Croatian Institute of Public Health

3.6 Doctors by type of specialty

Type of specialty	2015		2016	
	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾
Total	3 367	762	3 328	830
General medicine	76	-	72	-
Internal medicine	501	36	494	33
Cardiology	-	17	2	22
Pulmonology	-	14	-	18
Gastroenterology	-	11	-	14
Nephrology	-	9	-	12
Haematology	-	13	-	14
Laboratory Immunology	2	2	2	2
Endocrinology and diabetology	-	10	-	12
Internist oncology	-	10	-	12
Allergology and clinical immunology	-	4	-	4
Pneumophysiology	27	-	25	-
Infectiology	40	16	36	16
Paediatric infectiology	5	4	5	5
Neurology	121	27	117	29
Psychiatry	230	40	228	43
Child and adolescent psychiatry	-	5	-	5
Neuropsychiatry	8	-	6	-
Dermatology and venerology	67	13	68	12
Paediatrics	230	40	231	45
General surgery	247	16	247	14
Cardiothoracic surgery	-	4	-	4
Vascular surgery	-	4	-	4
Abdominal surgery	-	12	-	19
Neurosurgery	31	16	35	14
Child surgery	21	10	20	10
Maxillofacial surgery	14	1	14	3
Plastic and reconstructive surgery	1	2	1	3
Urology	54	14	55	13
Orthopaedics	47	3	46	3
Orthopaedics and traumatology	-	13	-	15
Otorhinolaryngology	88	15	91	17
Ophthalmology	127	7	124	7
Ophthalmology and optometry	-	22	1	24
Obstetrics and gynaecology	218	32	217	29
Anaesthesiology and reanimation	92	-	86	-
Transfusiology	44	2	38	6

3.6 Doctors by type of specialty

(Continued)

Type of specialty	2015		2016	
	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾
Clinical radiology	-	29	-	35
Radiotherapy and oncology	44	17	42	20
Nuclear medicine	32	10	32	12
Physical medicine and rehabilitation	92	8	91	8
Occupational medicine	57	-	51	-
School medicine	39	1	40	-
Social medicine with health care organisation	8	-	6	-
Epidemiology	42	7	44	6
Medical microbiology and parasitology	73	3	71	3
Pathological anatomy	58	3	58	2
Pathology	-	5	-	6
Medical cytology	19	-	19	-
Clinical pharmacology	12	-	12	-
Public health	8	5	9	5
Family medicine	181	30	182	30
Clinical cytology	29	7	32	4
Anaesthesiology, reanimation and intensive care	148	102	147	122
Clinical pharmacology and toxicology	-	4	-	4
Occupational and sports medicine	21	12	25	10
Naval medicine	1	-	1	-
Emergency medicine	33	39	33	45
Clinical microbiology	-	3	-	4
General internal medicine	1	16	1	16
Rheumatology	-	2	-	3
School and adolescent medicine	-	4	-	4

¹⁾ Since 2011, medical doctors begin training according to the new Ordinance on Specialist Training.

Source: Croatian Institute of Public Health

3.7 General medicine services – primary health care

	2012	2013	2014	2015	2016
Number of health centres	4	4	4	4	4
Number of teams in health institutions – total	439	440	429	435	439
Doctor's offices under contract with the Croatian Health Insurance Fund	270	257	231	234	227
Doctor's offices without an agreement with the Croatian Health Insurance Fund	11	14	12	11	14
Doctor's offices in health centres	158	169	186	190	198
Health workers					
General medicine practitioners	167	159	196	176	201
General medicine specialists and other specialists	272	281	237	265	244
Other health workers	433	429	423	434	449
Visits – total	5 953 855	6 241 954	6 196 050	6 477 841	7 128 280
Of which: at the doctor's office	5 909 848	6 198 801	6 153 782	6 439 160	7 086 701
home visits	44 007	43 153	42 338	38 681	41 579
Exams – total	2 397 472	2 100 284	2 117 938	2 236 625	2 199 923
Of which: at the doctor's office	2 353 822	2 057 425	2 084 804	2 198 066	2 159 787
home visits	43 650	42 859	33 134	38 599	40 136

Source: Andrija Štampar Teaching Institute of Public Health

3.8 Primary health care for infants and preschool children and women's health protection

	2012	2013	2014	2015	2016
Primary health care for infants and preschool children					
Teams	62	60	61	60	60
Doctors: specialists and paediatricians	62	60	61	60	60
Other health workers	61	57	61	60	60
Visits – total	597 679	591 125	626 867	663 295	547 425
Of which: at the doctor's office	597 628	591 050	626 655	663 235	547 360
home visits	51	75	212	60	65
Examinations – total	357 000	358 757	372 606	317 650	295 615
Of which: at the doctor's office	356 949	358 683	372 395	317 590	295 550
home visits	51	74	211	60	65
Primary health protection of women					
Teams	58	58	61	59	63
Doctors specialists	58	58	60	59	63
Other health workers	54	54	59	56	60
Preventive examinations	117 328	58 890	85 772	110 547	129 320
Visits and examinations at the doctor's office					
Visits	421 015	431 371	332 772	406 961	424 705
Examinations	135 240	98 423	203 292	233 140	243 486
Pregnant women's visits to counselling centres					
Total	58 918	41 953	39 327	63 868	41 549
Pathological conditions in pregnancy	39 045	17 538	15 407	12 529	11 860

Source: Andrija Štampar Teaching Institute of Public Health

3.9 Counselling centres for family planning – primary health care

	2012	2013	2014	2015	2016
Number of visits – total	11 386	16 181	19 420	23 826	25 346
Number of first-time visits – total	4 154	6 189	7 098	9 421	9 874
Number of prescribed contraceptives	18 337	27 538	24 002	22 984	25 030

Source: Andrija Štampar Teaching Institute of Public Health

3.10 Services for protection and treatment of mouth and teeth – primary health care

	2012	2013	2014	2015	2016
Teams	585	559	541	549	492
Health workers					
Dentists	549	538	534	523	473
Dental specialists	36	21	20	26	19
Dental technicians / dental assistants	459	435	458	470	453
Number of examinations – total	945 193	1 374 051	1 149 674	871 265	876 480
Number of full physical examinations	176 980	75 612	169 557	252 135	221 175

Source: Andrija Štampar Teaching Institute of Public Health

3.11 Emergency medical services

	Number of services						Number of employees
	Emergency medical services			Sanitary transport			
	Total	Team 1 ¹⁾	Team 2 ¹⁽²⁾	Total	In the City of Zagreb	Outside of the City of Zagreb	
2012	86 979	86 979	-	122 249	117 924	4 325	405
2013	84 991	84 991	-	121 423	117 448	3 975	418
2014	91 201	82 086	9 115	121 048	116 771	4 277	421
2015	92 377	81 003	11 374	127 289	122 654	4 635	428
2016	88 245	76 984	11 261	129 744	125 322	4 422	429

¹⁾ See Notes on Methodology

²⁾ Team 2 was introduced on 1 March 2014.

Source: Zagreb Emergency Medical Centre

3.12 Average number of provided services per day in 2016

	Number of services per day						
	Monday, Wednesday, Friday	Tuesday Thursday	Saturday	Sunday	Holiday (Mon, Wed, Fri.)	Holiday (Tue, Thu)	Average
Number of days	150	102	53	52	7	2	366
Emergency medical care	242.44	235.95	245.79	242.00	249.14	228.00	241.11
Team 1 ¹⁾	182.25	178.38	183.34	181.21	188.00	172.00	181.24
Emergency ward	28.26	26.65	32.36	32.31	34.43	28.50	30.77
Team 2 ¹⁾	31.93	30.92	30.09	28.48	26.71	27.50	29.10
Medical transport	411.45	466.00	304.66	42.56	239.57	229.00	354.49
In the City of Zagreb	395.32	446.48	304.53	42.48	239.43	229.00	342.41
Dialysis	185.93	239.76	241.72	0.00	193.00	184.50	182.72
Other transports	209.39	206.72	62.81	42.48	46.43	44.50	159.69
Outside of the City of Zagreb	16.13	19.52	0.13	0.08	0.14	0.00	12.08

¹⁾ See Notes on Methodology.

Source: Zagreb Emergency Medical Centre

3.13 Polyclinic for Rheumatic Diseases, Physical Medicine and Rehabilitation "Dr. Drago Čop"

	Doctor's offices	Employees				Visits to the office		Physio-therapeutic procedures
		Total	Health workers		Other non-medical staff	Total	First	
			Doctors specialists	Other				
2012	6	73	6	50	17	24 488	13 208	496 531
2013	6	74	6	52	16	23 252	12 314	495 845
2014	6	68	6	46	16	24 881	11 206	424 686
2015	6	67	6	54	13	25 121	10 113	240 672 ¹⁾
2016	6	62	6	50	12	22 961	9 246	348 336

¹⁾ Since 1 April 2015, packages of diagnostic and therapeutic procedures (DTP) have been prescribed, which include a larger number of physical medicine services, depending on the time required to perform such services.

Source: Polyclinic for Rheumatic Diseases, Physical Medicine and Rehabilitation "Dr. Drago Čop"

3.14 Consultations and medical services provided by specialists

	Number of visits to the doctor's office ¹⁾				
	2012	2013	2014	2015	2016
Internal	434 191	454 456	409 836	492 645	481 057
Surgery	240 913	269 095	154 486	493 353	310 513
Urology	99 030	93 367	79 968	106 542	100 962
Neurology	127 780	127 028	99 099	142 976	107 259
Psychiatry	240 611	202 481	172 171	269 712	224 750
Paediatrics	311 147	158 381	151 152	173 158	148 320
Gynaecology and maternity	201 544	211 339	204 344	256 540	214 785
Dermatovenerology	172 538	147 320	153 421	208 495	153 752
Otorhinolaryngology	150 447	166 935	152 000	195 236	182 924
Ophthalmology	368 498	342 058	298 290	381 780	353 983
Infectiology	52 699	52 685	49 525	56 723	52 051
Orthopaedics	65 450	77 454	74 117	95 242	89 206
Oncology and radiotherapy	33 909	48 215	97 540	36 406	21 981
Physical medicine and rehabilitation	445 755 ²⁾	393 943	163 932	519 734	243 941
Anaesthesiology	33 525	33 123	28 910	55 219	49 020
Maxillofacial surgery	15 613	13 580	...	32 106	33 557
Neurosurgery	25 710	26 779	17 174	26 939	25 383
Nuclear medicine	185 304	48 777	26 822	172 427	38 590
Pulmonology	87 944	77 542	69 651	117 307	63 541
Diabetology	...	34 868	25 559	22 812	28 804
Child surgery	...	56 090	56 834	38 905	33 708
Cardiology	...	89 065	88 193	118 666	124 136

¹⁾ Includes offices under contract with the Croatian Health Insurance Fund, and offices which do not.

²⁾ Includes physical therapy and rehabilitation.

Source: Croatian Institute of Public Health

3.15 Persons suffering from infectious diseases

	2012	2013	2014	2015	2016
Typhus abdominalis	-	-	-	-	-
Dysentery	2	-	1	3	-
Enterocolitis	2 611	2 426	3 678	3 836	3 583
Toxicoinfectio alimentaris	40	28	24	37	35
Salmonellosis	257	237	206	230	183
Campylobacter	175	175	169	171	201
Hepatitis virosa	1	-	-	-	-
Hepatitis virosa A	-	2	2	1	2
Hepatitis virosa B	22	22	21	21	35
Hepatitis virosa C	31	43	31	37	53
Poliomyelitis	-	-	-	-	-
Pertussis	17	27	52	14	32
Tetanus	-	-	-	-	-
Morbili	-	1	9	109	4
Rubeola	-	-	-	-	-
Varicellae	4 115	5 535	3 963	4 959	4 946
Herpes zoster	854	959	945	1 047	979
Scarlatina	573	1 087	897	807	1 309
Angina streptococcica	3 048	4 880	4 833	3 580	4 977
Erysipelas	261	248	223	225	200
Parotitis epidemica	12	4	6	3	3
Meningitis epidemica	10	8	6	1	5
Meningitis purulenta	41	33	5	10	8
Meningitis virosa	103	17	36	13	19
Encephalitis	6	8	8	4	3
Mononucleosis infectiosa	492	376	591	663	660
Pneumonia-Bronchopneumonia	1 990	2 553	4 887	4 901	2 440
Enterovirosis	1	-	-	-	-
Gonorrhoea	2	5	4	7	5
Syphilis	14	32	20	8	10
Scabies	77	104	134	163	381
Pediculosis	117	294	380	364	411
Malaria	2	2	-	-	2
Dengue fever	1	3	-	-	3
Leptospirosis	-	1	5	1	-
Lyme borel.	122	137	107	135	141
Kala-azar	-	-	-	-	2
Toxoplasmosis	2	3	1	1	4
Legionellosis	9	16	15	21	13
Tularemia	-	-	-	-	-
Trichinellosis	-	1	-	-	-
TBC pulmonum	55	70	52	57	57
Febris haemorrhagica	3	-	28	2	5
Psittacosis-ornithosis	-	-	-	-	-
Chlamidia	90	97	30	108	33
Botulismus	1	-	-	-	-
Echinococcosis	1	1	1	-	-
Q-febris	-	-	-	1	2
HIV Carriers	5	11	4	4	3
AIDS	11	7	1	-	-

Source: Andrija Štampar Teaching Institute of Public Health

3.16 Hospital services

	2012	2013	2014	2015	2016
Hospitals – total	14	14	14	14	14
University Hospital Centre	2	2	2	2	2
Clinical hospitals	3	3	3	3	3
Clinics	3	3	3	3	3
General hospitals	-	-	-	-	-
Special hospitals	6	6	6	6	6
Number of beds ¹⁾	6 878	6 674	6 737	6 516	6 410
Number of patients – total	262 628	256 649	255 842	262 220	264 207
Of which: deceased	5 952	5 859	5 803	6 193	6 181
Inpatient days, thousands	2 108	1 998	2 006	1 982	1 948
Health workers and associates – total	10 297	10 238	...	12 969⁴⁾	13 343
Doctors ²⁾	2 811	2 802	...	3 141	3 186
Other workers by to professional qualifications – total	7 486	7 436	...	9 828	10 157
Higher education ³⁾	520	514	...	648	637
Post-secondary education	2 048	2 062	...	3 060	3 183
Secondary education	4 801	4 741	...	5 995	6 204
Primary education	117	119	...	125	133

¹⁾ Data refers to the total number of beds, and not exclusively the beds that are provided under contract with the Croatian Health Insurance Fund.

²⁾ The number of doctors also includes specialists – staff from the School of Medicine, staff from the School of Dental Medicine, and specialty trainees.

³⁾ Health workers and health associates with higher education degrees. Administrative and technical staff has not been not included.

⁴⁾ Data on health workers and associates is not comparable to the data from previous years (change of methodology).

Source: Croatian Institute of Public Health

3.17 Indicators of hospital services in 2016

	Total	Treatment of patients suffering from acute diseases	Treatment of patients suffering from subacute and chronic diseases	University Hospital Centre, clinical hospitals, and clinics	Special hospitals
Number of beds	6 410	5 187	1 223	5 597	813
Number of beds per 1,000 inhabitants	8.11	6.57	1.55	7.08	1.03
Number of doctors	2 347	2 301	46	2 233	114
Number of beds per one doctor	2.73	2.25	26.59	2.51	7.13
Number of discharged patients	264 207	252 396	11 811	251 027	13 180
Number of hospital treatment days	1 947 521	1 543 756	403 765	1 709 144	238 377
Average length of treatment	7.37	6.12	34.19	6.81	18.09
Annual bed occupancy	304	298	330	305	293
% of bed use	83.24	81.54	90.45	83.66	80.33
Number of patients per bed	41.22	48.66	9.66	44.85	16.21

Source: Croatian Institute of Public Health

3.18 Number of beds and inpatient days in clinical hospital centres, clinical hospitals, clinics, general hospitals, and special hospitals by individual departments

	Beds ¹⁾			Inpatient days, in thousands		
	2014	2015	2016	2014	2015	2016
Total	6 737	6 516	6 410	2 006	1 982	1 948
Internal	994	963	961	317	320	321
Pulmonology	191	183	183	62	60	59
Paediatrics	424	410	408	128	120	134
Surgery and traumatology	719	733	715	216	213	209
Orthopaedics	169	134	134	33	36	31
Urology	149	136	132	44	43	43
Neurosurgery	116	102	106	36	36	39
Oncology	227	245	232	67	62	58
Gynaecology and maternity hospitals	692	614	618	170	155	166
Otorhinolaryngology	193	176	175	55	52	50
Ophthalmology	146	140	138	38	39	38
Neuropsychiatry	-	-	-	-	-	-
Dermatovenerology	91	66	63	18	16	16
Infectious diseases	188	188	180	55	51	48
Jaw surgery	-	-	-	-	-	-
Physical and medical rehabilitation	82	79	77	27	27	26
Nuclear medicine	-	-	-	-	-	-
Dermatovenerology	45	53	53	13	12	12
Psychiatry ²⁾	717	461	364	203	114	114
Maxillofacial surgery ²⁾	60	48	48	16	15	13
Neurology ²⁾	241	232	229	82	78	73
Child surgery ²⁾	125	120	119	27	26	23
Anaesthesiology, reanimation and intensive care ²⁾	217	254	252	65	69	71
Long-term treatment ²⁾	...	4	-	...	-	1
Chronic mental illness ²⁾	831	1,029	1,081	299	402	371
Chronic paediatric diseases ²⁾	40	40	40	13	16	5
Chronic pulmonary diseases ²⁾	80	80	80	21	19	20
Palliative care ²⁾	...	26	22	...	-	7

¹⁾ Data refers to the total number of beds, and not exclusively the beds that are provided under contract with the Croatian Health Insurance Fund.

²⁾ Services referred to in the Report on the Work of Inpatient Health Care Institution (Form 3-21-60), according to the Codebook of the Croatian Health Insurance Fund.

Source: Croatian Institute of Public Health

3.19 Hospital services in 2016

Hospitals – by location	Number of hospitals	Number of beds ¹⁾	Number of patients		In-patient days, thousands	Health workers and associates					
			Total	Deceased		Doctor ²⁾	Other workers by professional qualifications				
							Higher education ³⁾	Post-secondary education	Secondary education	Primary education	Total
Total	14 ⁴⁾	6 410	264 207	6 181	1 948	3 186	637	3 183	6 204	133	13 343
University Hospital Centre	2	2 944	146 702	2 981	896	1 800	285	1 726	3 256	53	7 120
University Hospital Centre Zagreb		1 795	90 734	1 691	525	1 114	173	929	2 087	40	4 343
University Hospital Centre Zagreb (Rebro, Šalata, Petrova, Božidarevićeva)		1 585	84 416	1 194	461	1 036	165	835	1 896	39	3 971
University Hospital Centre Zagreb – Clinic Jordanovac		210	6 318	497	64	78	8	94	191	1	372
Clinical Hospital Centre Sestre Milosrdnice		1 149	55 968	1 290	371	686	112	797	1 169	13	2 777
Clinical Hospital Centre Sestre Milosrdnice		827	42 896	1 198	277	533	87	556	883	12	2 071
Clinical Hospital Centre Sestre Milosrdnice – Tumor Treatment Clinic		166	6 777	62	45	91	14	122	137	-	364
Clinical Hospital Centre Sestre Milosrdnice – Traumatology Clinic		156	6 295	30	49	62	11	119	149	1	342
Clinical hospitals	3	1 485	71 104	2 332	441	935	156	866	1 762	66	3 785
Clinical Hospital Dubrava		619	27 536	1 146	184	431	76	384	828	66	1 785
Clinical Hospital Sveti Duh		500	22 446	882	164	258	50	248	555	-	1 111
Clinical Hospital Merkur ⁵⁾		366	21 122	304	93	246	30	234	379	-	889
Clinical Hospital Merkur		-	-	-	-	212	22	201	345	-	780
Clinical Hospital Merkur – “Vuk Vrhovac” Clinic		-	-	-	-	34	8	33	34	-	109
Clinics	3	1 168	33 221	538	372	274	116	356	777	6	1 529
“Dr. Fran Mihaljević” Clinic		214	5 674	300	59	77	30	115	245	6	473
Psychiatric Clinic Vrapče		755	14 526	222	252	77	44	75	291	-	487
Clinic for Paediatric Disease		199	13 021	16	61	120	42	166	241	-	569
Special hospitals	6 ⁶⁾	813	13 180	330	239	177	80	235	409	8	909
Special Hospital for Pulmonary Diseases		80	919	228	20	22	2	28	66	6	124

3.19 Hospital services in 2016

(Continued)

Hospitals – by location	Number of hospitals	Number of beds ¹⁾	Number of patients		In-patient days, thousands	Health workers and associates					
			Total	Deceased		Doctor ²⁾	Other workers by professional qualifications				
							Higher education ³⁾	Post-secondary education	Secondary education	Primary education	Total
Children's Hospital Srebrnjak		80	3 000	-	8	41	12	52	52	1	158
Psychiatric Hospital "Sveti Ivan"		543	5 527	102	181	54	27	39	162	-	282
Special Hospital for Children and Youth Psychiatry		37	631	-	10	19	9	10	26	-	64
Special Hospital Svjetlost ⁶⁾		-	-	-	-	21	-	2	18	-	41
Special Hospital Aksis ⁶⁾		-	-	-	-	-	-	-	-	-	-
Special Hospital Podobnik		13	436	-	2	5	1	2	21	-	29
Special Hospital "Arithera" ⁶⁾		-	-	-	-	5	-	11	18	-	34

¹⁾ Data refers to the total number of beds, and not exclusively the beds that are provided according to the agreement concluded with the Croatian Health Insurance Fund.

²⁾ The number of doctors also includes specialists – staff from the School of Medicine, staff from the School of Dental Medicine, and specialty trainees.

³⁾ Health workers and health associates with higher education degrees. Administrative and technical staff has not been included.

⁴⁾ Data from the Annual Report on the Work of Inpatient Health Care Institutions (Form 3-21-60).

⁵⁾ Data for the "Vuk Vrhovac" Clinic is presented together with the data for the Clinical Hospital Merkur.

⁶⁾ According to the Annual Report on the Work of Hospitals (Form 3-21-60), there is no data on inpatient medical services.

Source: Croatian Institute of Public Health

3.20 Hospitalisation of patients by disease groups

Disease group ¹⁾	Total number of admissions			Admissions of persons over the age of 65		
	Number of admissions		Share, %	Number of admissions		Share, %
	2015	2016	2016	2015	2016	2016
Total	208 025	216 965	100.0	70 105	74 902	100.00
Infectious and parasitic diseases	4 602	4 478	2.1	2 133	2 212	2.95
Neoplasms	40 498	43 553	20.1	15 645	17 628	23.53
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1 600	1 675	0.8	609	618	0.83
Endocrine, nutritional and metabolic diseases	6 896	7 506	3.5	2 296	2 470	3.30
Mental and behavioural disorders	17 328	16 557	7.6	2 948	2 575	3.44
Diseases of the nervous system	6 788	6 317	2.9	1 632	1 550	2.07
Diseases of the eye and adnexa	13 951	14 462	6.7	8 861	9 209	12.29
Diseases of the ear and mastoid process	1 206	1 330	0.6	141	214	0.29
Diseases of the circulatory system	25 287	26 797	12.4	14 233	15 296	20.42
Diseases of the respiratory system	13 530	12 984	6.0	4 084	3 918	5.23
Diseases of the digestive system	14 643	15 269	7.0	4 858	5 208	6.95
Diseases of the skin and subcutaneous tissue	2 302	2 560	1.2	473	628	0.84
Diseases of the musculoskeletal system and connective tissue	8 757	7 829	3.6	2 320	2 005	2.68

3.20 Hospitalisation of patients by disease groups

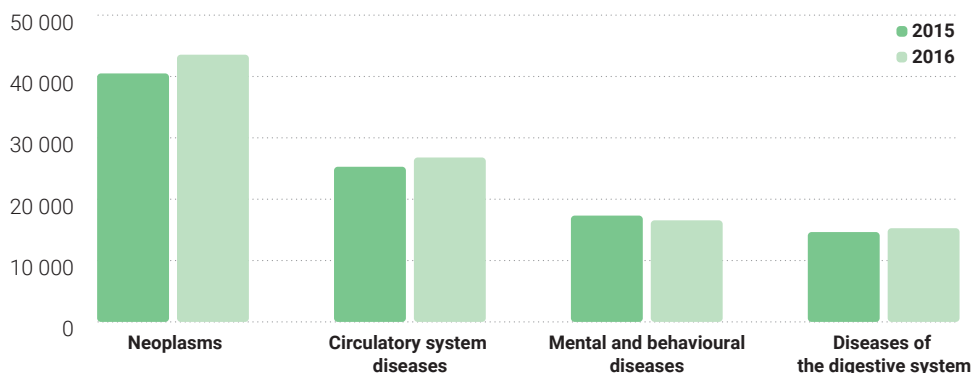
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Disease group ¹⁾	Total number of admissions			Admissions of persons over the age of 65		
	Number of admissions		Share, %	Number of admissions		Share, %
	2015	2016	2016	2015	2016	2016
Diseases of the genitourinary system	11 191	11 914	5.5	3 423	3 921	5.23
Pregnancy, childbirth and the puerperium	3 541	4 802	2.2	-	-	-
Certain conditions originating in the perinatal period	2 559	2 386	1.1	-	-	-
Congenital malformations, deformations and chromosomal abnormalities	3 950	3 579	1.6	7	29	0.04
Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified	6 918	6 392	2.9	1 474	1 462	1.95
Injury, poisoning and certain other consequences of external causes	12 503	12 874	5.9	4 098	4 222	5.64
Factors influencing health status and contact with health services	9 975	13 701	6.3	870	1 737	2.32

¹⁾ Disease groups classified according to the International Classification of Diseases – 10th Revision, 1995.

Source: Croatian Institute of Public Health and Department of Public Health Gerontology – Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 3.1 Most frequent diseases



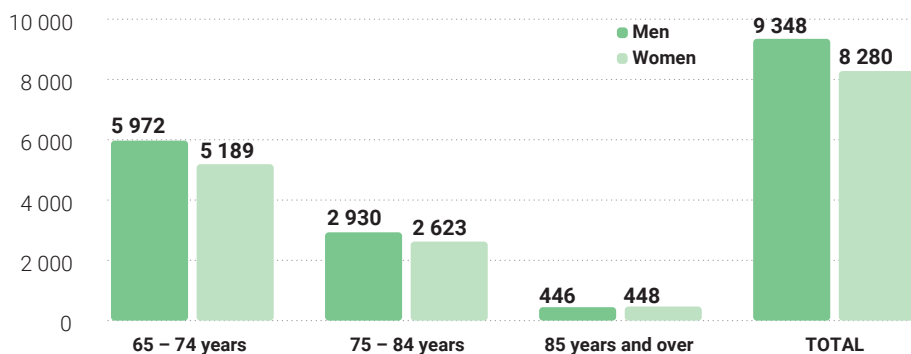
Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health

3.21 Hospitalisation of patients due to neoplasms

	Number of admissions			Indices	
	2014	2015	2016	<u>2015</u> 2014	<u>2016</u> 2015
Total	39 116	40 497	43 553	103.5	107.5
Age of patients					
0 – 64 years	24 333	24 852	25 925	102.1	104.3
65 and over	14 783	15 645	17 628	105.8	112.7

Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 3.2 Hospitalisation of patients over the age of 65 due to neoplasms by age and sex of patients in 2016



Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health

3.22 Hospitalisation of patients due to circulatory system diseases

	Number of admissions			Indices	
	2014	2015	2016	$\frac{2015}{2014}$	$\frac{2016}{2015}$
Total	23 577	25 287	26 797	107.3	106.0
Age of patients					
0 – 64 years	10 583	11 054	11 501	104.5	104.0
65 and over	12 994	14 233	15 296	109.5	107.5

Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

3.23 Hospitalisation of patients due to mental and behavioural disorders

	Number of admissions			Indices	
	2014	2015	2016	$\frac{2015}{2014}$	$\frac{2016}{2015}$
Total	15 476	17 328	16 557	112.0	95.6
Age of patients					
0 – 64 years	12 844	14 380	13 982	112.0	97.2
65 and over	2 632	2 948	2 575	112.0	87.3

Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

3.24 Hospitalisation of patients due to diseases of the digestive system

	Number of admissions			Indices	
	2014	2015	2016	$\frac{2015}{2014}$	$\frac{2016}{2015}$
Total	14 417	14 643	15 269	101.6	104.3
Age of patients					
0 – 64 years	9 791	9 785	10 061	99.9	102.8
65 and over	4 626	4 858	5 208	105.0	107.2

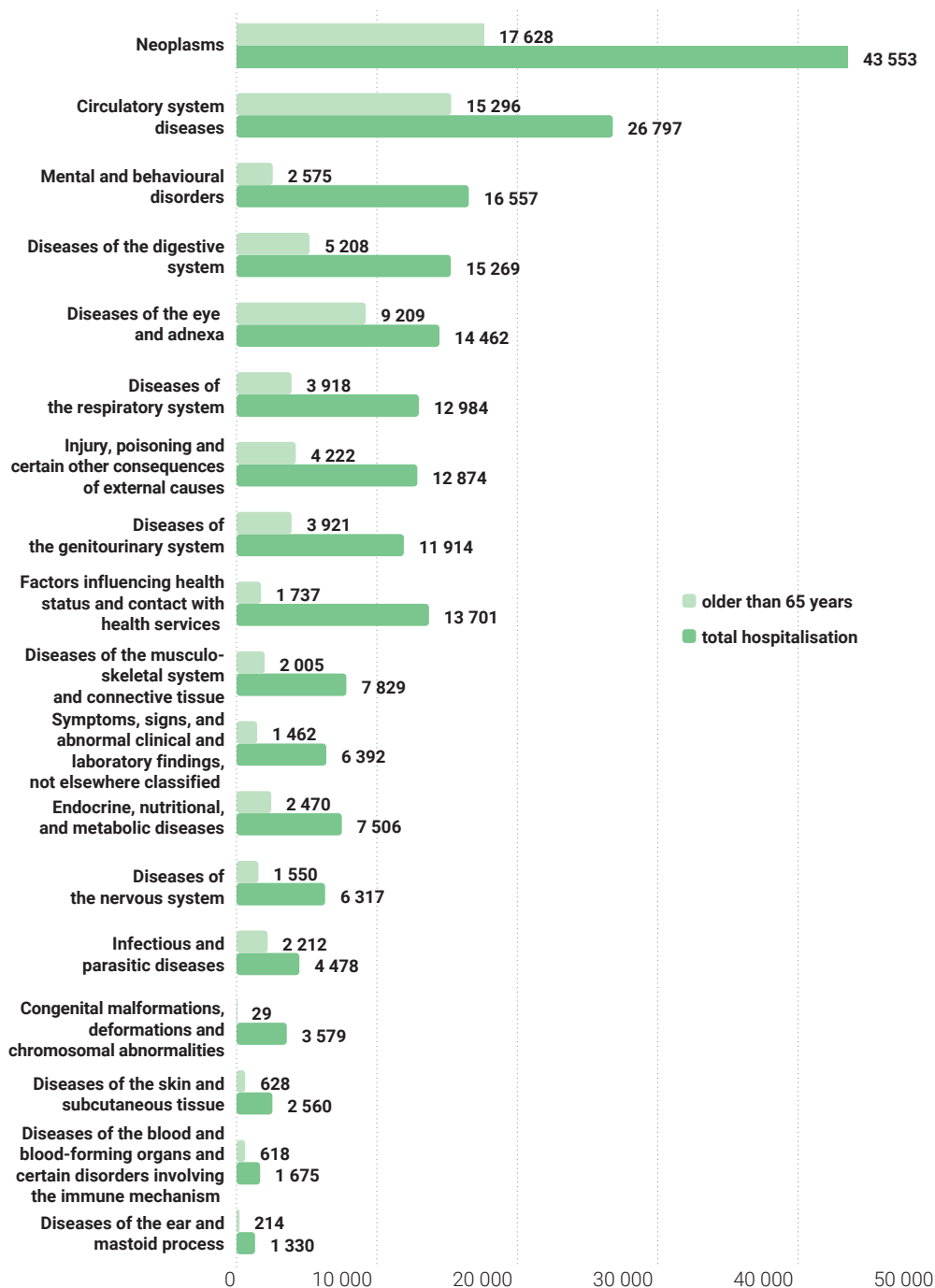
Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Stampar Teaching Institute of Public Health, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

3.25 Main causes of hospitalisation of patients over the age of 65 by diagnoses in 2016

	Number of admissions			Share, %		
	Total	Men	Women	Total	Men	Women
Total	74 901	36 248	38 653	100.00	48.39	51.61
Diagnosis						
Senile cataract and other disorders of lens in diseases classified elsewhere	5 649	2 379	3 270	7.54	3.18	4.37
Cerebral infarction	1 877	815	1 062	2.51	1.09	1.42
Angina pectoris	1 822	1 116	706	2.43	1.49	0.94
Other types of sepsis	1 505	757	748	2.01	1.01	1.00
Acute myocardial infarction	1 463	776	687	1.95	1.04	0.92

Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Stampar Teaching Institute of Public Health, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 3.3 Hospitalisation frequency ranking by disease groups in 2016



Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Stampar Teaching Institute of Public Health



04

Social welfare



NOTES ON METHODOLOGY

Data sources

Data on social welfare beneficiaries and social benefits in the City of Zagreb, as well as data on protection of persons with disabilities, are supplied by the City Office for Social Protection and Persons with Disabilities.

Data on social benefits for children are supplied by the Croatian Pension Insurance Institute – Central Office in Zagreb.

Social benefits and services of the City of Zagreb are based on the Decision on Social Welfare (Official Gazette of the City of Zagreb 26/14, 19/15, 06/16, 16/16, 23/16), and the Social Welfare Act (Official Gazette 157/13, 152/14, 99/15, 52/16, 16/17).

Coverage and comparability

Provision of adequate care to socially vulnerable citizens of Zagreb is carried out through designing, implementing and monitoring of programmes, measures and activities aimed at generally improving the living conditions of all the citizens of Zagreb. This especially pertains to the poor and socially excluded groups, the elderly and infirm, children and the youth, persons with disabilities, social welfare beneficiaries, unemployed persons, single parents, families with several children, mentally ill persons, victims of domestic violence, the homeless, and other vulnerable categories of citizens.

Definitions and explanations

Social welfare is an organised activity of public interest to the Republic of Croatia, the aim of which is to provide assistance to socially vulnerable persons and persons in unfavourable personal or family circumstances. This activity includes prevention, promotion of change, assistance in providing for the essentials for living, and support to individuals, families and groups. Its aim is to improve the quality of life and empower the beneficiaries to independently provide for their essentials for living, as well as to have an active role in the society.

Social welfare centres and its branches are institutions that provide, under the Social Welfare Act, professional and welfare services in different forms to the persons in need.

Social welfare beneficiary is a person who has been granted, once or several times during the reference year, any form of social benefit. Law regulates the concept of social welfare beneficiaries.

Child benefit is a cash benefit used by a parent or other person defined by law (OG 94/01, 138/06, 107/07, 37/08, 61/11, 112/12 and 82/15) for the purpose of supporting and bringing up children (Article 1). The right to receiving child benefit is acquired and exercised depending on the number of children and the amount of total income of the beneficiary's household members and other conditions stipulated by law.

4.1 Social benefits and services of the City of Zagreb

Type of benefit	Number of beneficiaries				
	2012	2013	2014	2015	2016
Allowance for pensioners	14 008	12 832	12 590	12 223	11 766
Allowance for supplementary health insurance premium (measure from 2016)	-	-	-	-	3 116
Allowance for beneficiaries of basic needs allowance and for beneficiaries of disability allowance	8 291	9 137	10 186	10 426	10 826
Allowance for personal needs (personal allowance) for beneficiaries of homes for the elderly and the disabled	355	334	355	363	350
Allowance for persons with recognised status of parent caregiver, or the status of caregiver (measure from 2015)	-	-	-	32	46
Allowance for housing costs	1 931	2 149	2 564	2 765	2 960
Allowance for heating costs	868	914	1 426	2 020	2 327
Provision of dairy products for children	128	139	107	111	82
Provision of "family packages" containing groceries and household supplies	789	805	878	446	355
Provision of packages for children on Easter and Saint Nicholas Day	3 600	3 600	3 600	3 600	3 600
Vacation	2 250	2 250	2 250	1 187	1 185
Meals in soup kitchens	4 011	4 777	4 837	4 529	3 987
Entitlement to free transit pass by ZET	89 809	85 188	85 986	86 406	81 637
House help	460	464	472	478	504
Coverage of funeral expenses	29	24	16	25	44
Health care for persons without health insurance	3 442	3 185	2 865	3 036	2 725

Source: City Office for Social Protection and People with Disabilities

4.2 Protection of persons with disabilities

Type of benefit	Number of uses				
	2012	2013	2014	2015	2016
Recreational and therapeutic vacation programmes for people with disabilities and children with developmental difficulties	350	280	280	400	382
Entitlement to free transit pass by ZET – people with disabilities	10 708	11 634	12 315	12 237	12 306
Entitlement to free transportation of persons with disabilities and children with developmental difficulties	500	700	1 000	1 100	1 300
Dental health care for children and adults with disabilities	1 171	1 387	1 498	1 085	1 323
Day Care Centre for Rehabilitation of Children and Young Adults "Mali Dom"	285	285	408	370	261
Rehabilitation Centre "Silver"	178	122	264	272	345

Source: City Office for Social Protection and People with Disabilities

4.3 Social benefits for children

	Number of children's allowance beneficiaries	Number of children	Paid children's allowance, thousands of HRK	Average annual allowance per child, HRK	Number of payments for supplies for children
2012	24 264	45 429	217 650	4 791	11 570
2013	24 758	46 278	222 434	4 806	11 505
2014	23 317	43 698	219 254	5 017	11 357
2015	23 865	44 695	214 582	4 801	10 814
2016	22 270	41 956	201 971	4 814	-

Source: Croatian Pension Insurance Institute



05

Pension insurance



NOTES ON METHODOLOGY

Data sources

Data on pension insurance are supplied by the Croatian Pension Insurance Institute.

Definitions and explanations

Insured persons are persons insured on compulsory basis under the Pension Insurance Act (OG 157/13, 151/14, 33/15, 93/15 and 120/16).

Pension beneficiary (disability pension, old-age pension or survivors' pension) is a person who is entitled to a pension based on the Pension Insurance Act.

Years of employment represent the period of insurance under the Pension Insurance Act, based on which a person can exercise his or her rights to a pension.

Data on pension beneficiaries do not include data on pension beneficiaries of the Croatian Army, or the data on the Croatian Homeland War veterans of the City of Zagreb.

5.1 Insurance beneficiaries by insurance basis and sex

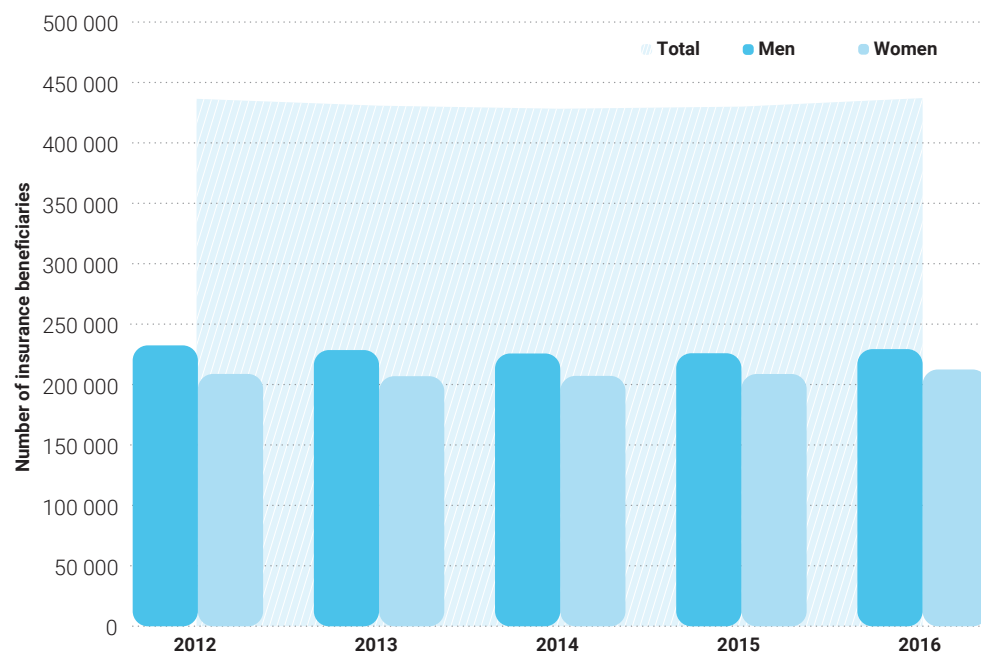
Status as of 31 December

	Number of insurance beneficiaries					
	2015			2016		
	Total	Men	Women	Total	Men	Women
Total	429 988	223 493	206 495	437 060	226 870	210 190
Employed persons and persons of equal status	414 853	214 477	200 376	422 244	218 128	204 116
Craftsmen and professional services	14 623	8 707	5 916	14 316	8 429	5 887
Farmers	512	309	203	500	313	187

Source: Croatian Pension Insurance Institute

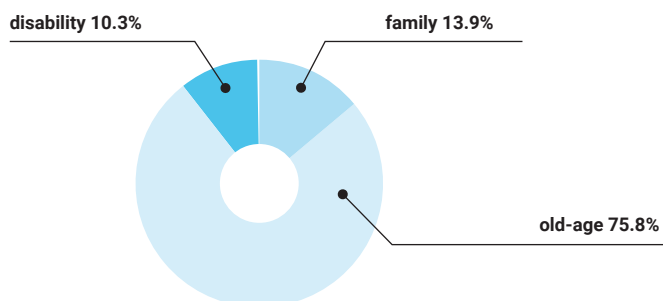
G 5.1 Insurance beneficiaries by sex

Status as of 31 December



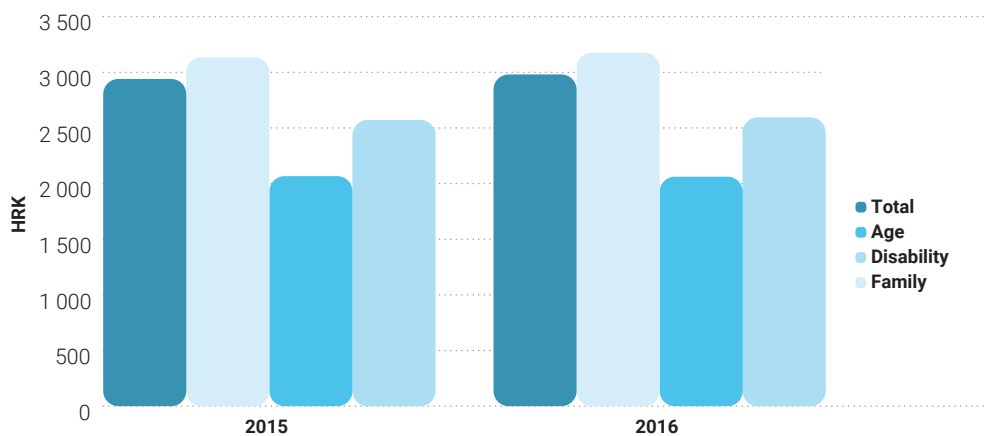
G 5.2 Pension beneficiaries by type of pension

Status as of 31 December 2016



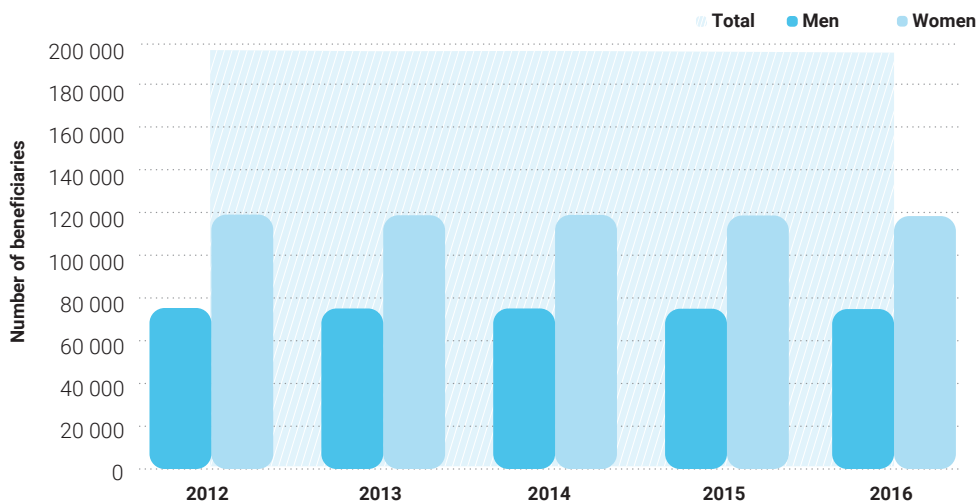
G 5.3 Average pension by type of pension

Status as of 31 December



G 5.4. Pension beneficiaries by sex

Status as of 31 December



5.2 Pension beneficiaries according to the Pension Insurance Act and by sex

Status as of 31 December

	2015 ³⁾			2016 ³⁾		
	Total	Men	Women	Total	Men	Women
Total						
Number of beneficiaries	196 385	76 070	120 315	195 943	75 904	120 039
Average length of service	32	33	31	32	34	31
Average monthly pension in HRK ¹⁾	2 940	3 242	2 748	2 981	3 289	2 786
Old-age pension						
Number of beneficiaries	147 298	61 296	86 002	148 458	61 706	86 752
Average length of service	33	36	32	34	36	32
Average monthly pension in HRK ¹⁾	3 135	3 499	2 875	3 176	3 545	2 914
Disability pension						
Number of beneficiaries	21 262	12 236	9 026	20 219	11 642	8 577
Average length of service	23	23	22	22	23	22
Average monthly pension in HRK ¹⁾	2 067	2 204	1 882	2 062	2 195	1 881
Family pension²⁾						
Number of beneficiaries	27 825	2 538	25 287	27 266	2 556	24 710
Average length of service	31	25	32	31	25	32
Average monthly pension in HRK ¹⁾	2 572	2 043	2 625	2 595	2 086	2 648

¹⁾ Average monthly pensions are reduced for tax and surtax. Since July 2009, the pensions were reduced for special tax pursuant to the Act on Special Tax on Earnings, Pensions and Other Income (Official Gazette 94/09), which was in force until 1 November 2010 (Official Gazette 91/10).

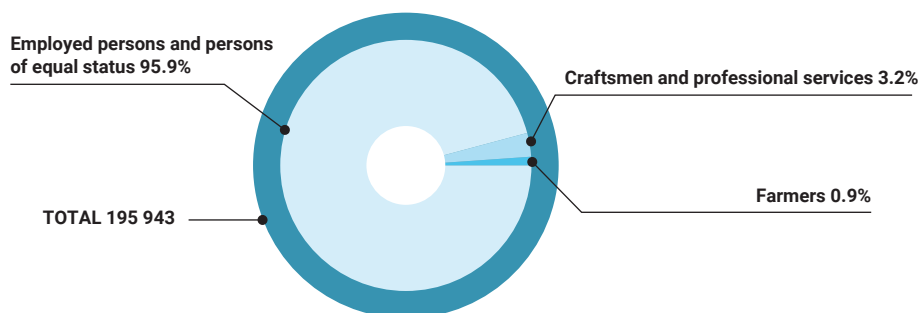
²⁾ Regarding family pensions, sex refers to the person (heir) to whom the pension is paid, while length of service refers to beneficiaries from whom the pension rights have been inherited.

³⁾ See Notes on Methodology.

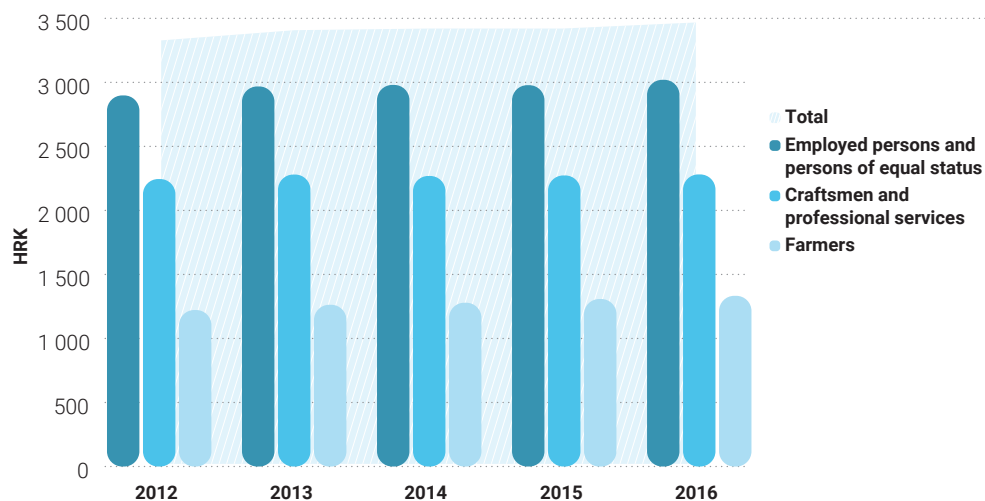
Source: Croatian Pension Insurance Institute

G 5.5 Pension beneficiaries by insurance eligibility criteria

Status as of 31 December 2016



G 5.6 Average monthly pension by insurance eligibility criteria, Status as of 31 December



5.3 Pension beneficiaries according to the Pension Insurance Act, insurance eligibility criteria, and sex

Status as of 31 December

	2015 ³⁾			2016 ³⁾		
	Total	Men	Women	Total	Men	Women
Employed persons and persons of equal status						
Total						
Number of beneficiaries	188 276	71 820	116 456	187 835	71 626	116 209
Average length of service	32	34	31	32	34	31
Average monthly pension in HRK ¹⁾	2 978	3 297	2 781	3 020	3 345	2 819
Age pension						
Number of beneficiaries	141 464	58 080	83 384	142 559	58 422	84 137
Average length of service	34	36	32	34	36	32
Average monthly pension in HRK ¹⁾	3 176	3 557	2 911	3 218	3 605	2 950
Disability pension						
Number of beneficiaries	19 955	11 297	8 658	18 974	10 753	8 221
Average length of service	23	23	22	22	23	22
Average monthly pension in HRK ¹⁾	2 081	2 226	1 892	2 075	2 215	1 892
Family pension²⁾						
Number of beneficiaries	26 857	2 443	24 414	26 302	2 451	23 851
Average length of service	31	25	32	31	25	32
Average monthly pension in HRK ¹⁾	2 601	2 065	2 655	2 626	2 114	2 678

5.3 Pension beneficiaries according to the Pension Insurance Act, insurance eligibility criteria, and sex

(Continued)

	2015 ³⁾			2016 ³⁾		
	Total	Men	Women	Total	Men	Women
Craftsmen						
Total						
Number of beneficiaries	6 256	3 741	2 515	6 348	3 797	2 551
Average length of service	30	31	28	30	31	28
Average monthly pension in HRK ¹⁾	2 273	2 437	2 029	2 281	2 447	2 033
Old-age pension						
Number of beneficiaries	4 289	2 803	1 486	4 437	2 892	1 545
Average length of service	32	33	29	32	34	29
Average monthly pension in HRK ¹⁾	2 452	2 615	2 144	2 453	2 617	2 146
Disability pension						
Number of beneficiaries	1 152	852	300	1 103	811	292
Average length of service	23	23	22	23	23	21
Average monthly pension in HRK ¹⁾	1 864	1 944	1 636	1 870	1 954	1 637
Family pension²⁾						
Number of beneficiaries	815	86	729	808	94	714
Average length of service	27	19	28	27	19	28
Average monthly pension in HRK ¹⁾	1 910	1 526	1 956	1 895	1 483	1 949
Farmers						
Total						
Number of beneficiaries	1 853	509	1 344	1 760	481	1 279
Average length of service	21	24	20	21	24	20
Average monthly pension in HRK ¹⁾	1 308	1 493	1 237	1 333	1 537	1 256
Old-age pension						
Number of beneficiaries	1 545	413	1 132	1 462	392	1 070
Average length of service	21	24	21	22	25	21
Average monthly pension in HRK ¹⁾	1 286	1 414	1 239	1 318	1 469	1 263
Disability pension						
Number of beneficiaries	155	87	68	142	78	64
Average length of service	21	23	20	21	23	20
Average monthly pension in HRK ¹⁾	1 797	1 926	1 633	1 813	1 953	1 642
Family pension²⁾						
Number of beneficiaries	153	9	144	156	11	145
Average length of service	15	18	15	15	19	15
Average monthly pension in HRK ¹⁾	1 032	943	1 038	1 030	987	1 033

¹⁾ Average monthly pensions are reduced for tax and surtax. Since July 2009, the pensions were reduced for special tax pursuant to the Act on Special Tax on Earnings, Pensions and Other Income (Official Gazette 94/09), which was in force until 1 November 2010 (Official Gazette 91/10).

²⁾ Regarding family pensions, sex refers to the person (heir) to whom the pension is paid, while length of service refers to beneficiaries from whom the pension rights have been inherited.

³⁾ See Notes on Methodology.

Source: Croatian Pension Insurance Institute



06

Employment



NOTES ON METHODOLOGY

Source and method of data collection

The number of employed persons as at 31 March was obtained based on the regular annual statistical survey conducted by the Croatian Bureau of Statistics. Data are collected by virtue of a report (RAD-1G form) which legal entities fill out based on their employment records.

Data on persons employed in crafts and trades, data on freelancers, as well as on employed insured persons who are farmers, are processed based on the records on active pension insurance beneficiaries kept by the Croatian Pension Insurance Institute – Central Office in Zagreb.

Coverage and comparability

Surveys on employed persons collect data from business entities (legal persons) regardless of the type of ownership and organisational form. They include employed persons, regardless of the type of employment and contractual working hours.

Data comprise the estimates of the number of persons employed in legal entities which have up to 10 employees, and which failed to submit the report (estimates based on the data in the annual statistical reports collected and analysed by the Financial Agency (FINA)). Data do not include persons employed in crafts and trades, and farmers. Data on employed persons, according to the level of their professional qualifications, age and sex, type of employment and ownership, do not include the estimate on the number of persons employed in legal entities (legal persons) which have up to 10 employees and which failed to submit the report, since processing according to the above-mentioned elements can be done only based on submitted reports. Therefore, there is a discrepancy in the total number of persons employed in business entities and the number of persons employed according to the listed characteristics.

Data on persons employed in crafts and trades, and data on freelancers include owners and employees registered with the Croatian Pension Insurance Institute branch offices.

Since 2009, statistical data on employed persons and earnings have been processed and represented in accordance with the 2007 National Classification of Activities (NCA 2007), which has been in force since 2008 (OG 58/07 and 72/07).

Definitions and explanations

Employed persons are all persons who have signed an employment contract with an employer for a fixed or indefinite period of time, regardless of the agreed working hours and the type of ownership of the legal entity. Employed persons are trainees (apprentices), persons on maternity leave, persons on sick leave and persons who are absent from work for other reasons until termination of employment. In addition, employed persons are also persons who are self-employed in own company, enterprise, craft, or who are freelancers.

Level of professional qualifications is the highest level of education acquired by a person upon completing a specific school or course, or upon taking exams after which a certain level of education is acquired, or upon testing competence which is organized by a business entity. A person has to hold an appropriate official document (diploma, certificate, decision) for each acquired level of education. Persons who do not hold any of the afore-mentioned documents or the equivalents thereof are considered unqualified employees.

Unemployment

Definitions and explanations

Unemployed person is any person between 15 and 65 years of age, who is capable of working, registered with the Croatian Employment Service as a person seeking employment, who regularly reports to the Employment Service, but who is not employed or an owner or a majority owner (of more than 51% share in a company or other legal person), who is not self-employed in a professional or economic activity, who is not a majority owner or co-owner of more than 51 % share in an agricultural holding, and who is not a pupil, student, or a retired person.

Newly registered unemployed persons are persons who have registered with the Croatian Employment Service as unemployed persons in the reference month.

Source and method of data collection

Data on unemployment are supplied by the Croatian Employment Service – Branch Office Zagreb. Such data are collected at the end of the year, i.e. on the last day of the year.

6.1 Employed persons

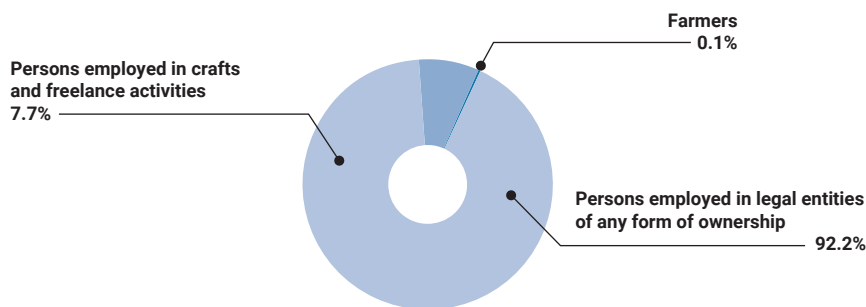
Status as of 31 March

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	406 711	421 585	424 263	408 864	397 365	398 890	390 469	383 967	389 888	401 639
Persons employed in legal entities of any form of ownership ¹⁾	358 457	374 108	378 938	367 764	359 430	362 889	356 065	351 919	359 288	371 631
Persons employed in crafts and freelance activities	47 415	46 725	44 635	40 479	37 348	35 426	33 864	31 521	30 082	29 502
Farmers	839	752	690	621	587	575	540	527	518	506
Women	395	350	318	283	249	228	214	198	208	197

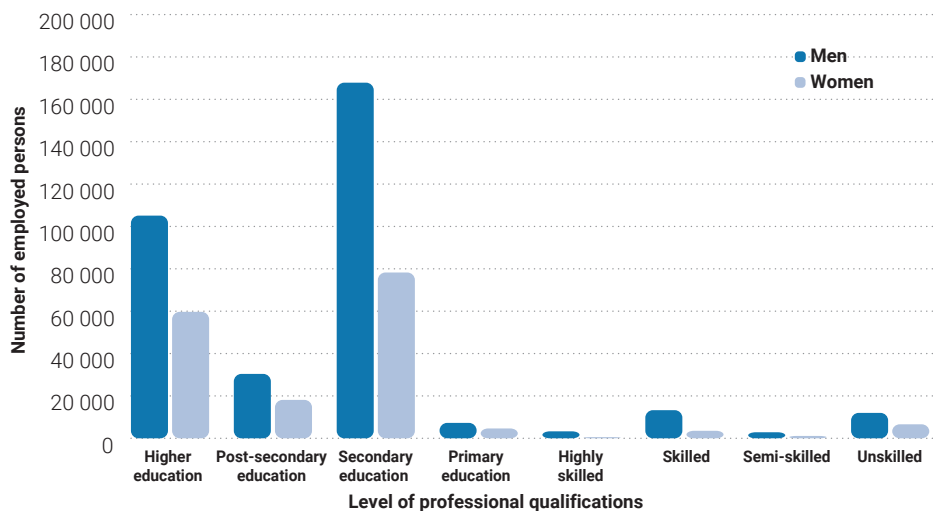
¹⁾ Data includes the estimated number of persons employed in legal entities that have fewer than ten employees, and for which no report has been received (estimates have been made according to annual financial and statistical reports collected and processed by Fina).

Source: CBS, Croatian Pension Insurance Institute; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 6.1 Employed persons, Status as of 31 March 2016



G 6.2 Employed persons by level of professional qualifications and sex, Status as of 31 March 2016



6.2 Employed persons by National Classification of Activities (NCA) 2007 sections and sex

Status as of 31 March

	Number of employed persons ¹⁾									
	2012		2013		2014		2015		2016	
	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL	398 890	194 643	390 469	191 228	383 967	186 826	389 888	194 630	401 639	198 319
A Agriculture, forestry, and fishing	1 734	682	1 746	455	1 786	658	1 719	649	1 723	701
B Mining and quarrying	1 229	310	1 365	305	1 433	291	1 163	281	992	274
C Manufacturing	46 652	16 837	44 403	15 879	41 393	14 428	41 081	14 881	42 966	15 191
D Electricity, gas, steam, and air conditioning supply	3 650	1 016	3 366	926	3 390	954	3 411	997	3 276	1 024
E Water supply; sewerage, waste management, and remediation activities	3 980	619	3 890	603	3 734	541	3 459	502	3 666	521
F Construction	25 146	3 518	23 878	3 273	23 718	2 789	21 670	2 605	22 486	2 641
G Wholesale and retail trade; repair of motor vehicles and motorcycles	73 570	37 150	70 193	35 446	71 338	35 778	69 636	35 582	72 378	37 512
H Transportation and storage	21 533	5 593	21 070	5 469	19 451	5 094	19 358	4 988	20 038	5 287
I Accommodation and food service activities	14 428	7 091	14 488	6 899	14 786	7 203	14 764	7 059	16 174	7 263
J Information and communication	21 779	8 854	21 346	8 663	22 368	8 969	22 174	8 937	23 161	8 989
K Financial and insurance activities	20 247	13 392	20 340	13 478	19 422	12 933	20 040	13 349	19 966	13 361
L Real estate activities	2 829	1 367	3 996	2 181	4 075	2 346	3 501	1 883	4 155	1 926
M Professional, scientific, and technical activities	32 744	15 932	31 482	16 002	32 326	16 059	34 044	17 602	34 162	17 140
N Administrative and support service activities	16 803	7 689	16 965	7 365	17 576	7 720	20 822	9 244	22 151	9 784
O Public administration and defence; compulsory social security	34 911	17 860	34 822	18 224	33 872	17 772	33 924	17 988	34 507	18 524
P Education	27 987	20 975	28 315	21 245	27 717	20 824	28 769	21 649	29 329	22 110
Q Human health and social work activities	29 408	23 221	28 588	22 492	27 460	21 562	29 668	23 778	29 759	23 140
R Arts, entertainment, and recreation	9 295	4 944	9 433	5 031	8 795	4 726	9 522	5 126	9 323	4 968
S Other service activities	10 167	6 882	10 048	6 652	8 665	5 606	10 614	7 073	11 014	7 623
T Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	772	697	712	629	644	564	524	443	396	328
Persons unclassified by activities	26	14	23	11	18	9	25	14	17	12

¹⁾ Data includes the estimated number of persons employed in legal entities that have fewer than ten employees, and for which no report has been received (estimates have been made according to annual financial and statistical reports collected and processed by Fina).

Source: CBS, Croatian Pension Insurance Institute; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics City Office for the Strategic Planning and Development of the City – Department of Statistics

6.3 Persons employed in legal entities by NCA 2007 sections and sex

Status as of 31 March

		Number of employed persons ¹⁾									
		2012		2013		2014		2015		2016	
		Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL		362 889	177 248	356 065	174 894	351 919	171 444	359 288	179 832	371 631	183 699
A	Agriculture, forestry, and fishing	1 015	394	1 059	401	1 099	396	1 050	388	1 100	438
B	Mining and quarrying	1 218	309	1 356	304	1 428	290	1 158	280	987	273
C	Manufacturing	41 176	14 357	39 354	13 593	36 915	12 501	36 897	13 042	38 942	13 417
D	Electricity, gas, steam, and air conditioning supply	3 650	1 016	3 366	926	3 390	954	3 411	997	3 276	1 024
F	Construction	22 282	3 262	21 340	3 060	21 452	2 603	19 645	2 439	20 488	2 490
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	68 665	34 841	65 709	33 417	67 228	33 931	65 831	33 897	68 739	35 871
H	Transportation and storage	19 585	5 494	18 988	5 374	17 363	4 996	17 294	4 898	17 959	5 203
I	Accommodation and food service activities	9 444	4 779	9 799	4 704	10 690	5 294	10 975	5 311	12 535	5 575
J	Information and communication	21 356	8 753	20 911	8 558	21 947	8 865	21 754	8 830	22 720	8 873
K	Financial and insurance activities	20 173	13 358	20 267	13 445	19 365	12 908	19 983	13 324	19 872	13 316
L	Real estate activities	2 736	1 312	3 902	2 133	3 995	2 307	3 416	1 844	4 079	1 886
M	Professional, scientific, and technical activities	28 151	13 333	26 889	13 374	27 871	13 470	29 668	15 100	29 804	14 642
N	Administrative and support service activities	16 085	7 345	16 257	6 996	16 908	7 372	20 086	8 824	21 355	9 316
O	Public administration and defence; compulsory social security	34 366	17 599	34 279	17 992	33 369	17 540	33 445	17 766	34 073	18 347
P	Education	27 888	20 940	28 216	21 213	27 604	20 784	28 630	21 597	29 166	22 035
Q	Human health and social work activities	26 788	21 127	26 055	20 479	25 070	19 666	27 321	21 906	27 393	21 252
R	Arts, entertainment, and recreation	7 866	4 433	8 004	4 516	7 329	4 209	8 122	4 624	7 981	4 486
S	Other service activities	6 477	3 980	6 437	3 808	5 175	2 820	7 155	4 266	7 508	4 736

¹⁾ Data includes the estimated number of persons employed in legal entities that have fewer than ten employees, and for which no report has been received (estimates have been made according to annual financial and statistical reports collected and processed by Fina).

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics City Office for the Strategic Planning and Development of the City – Department of Statistics

6.4 Persons employed in crafts and freelance activities by NCA 2007 sections and sex

Status as of 31 March

		Number of employed persons									
		2012		2013		2014		2015		2016	
		Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL		35 426	17 167	33 864	16 334	31 521	15 184	30 082	14 590	29 502	14 412
A	Agriculture, forestry, and fishing	144	60	147	54	160	64	151	53	117	55
B	Mining and quarrying	11	1	9	1	5	1	5	1	5	1
C	Manufacturing	5 476	2 480	5 049	2 286	4 478	1 927	4 184	1 839	4 024	1 774
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management and, remediation activities	12	3	13	2	13	3	12	3	12	2
F	Construction	2 864	256	2 538	213	2 266	186	2 025	166	1 998	151
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	4 905	2 309	4 484	2 029	4 110	1 847	3 805	1 685	3 639	1 641
H	Transportation and storage	1 948	99	2 082	95	2 088	98	2 064	90	2 079	84
I	Accommodation and food service activities	4 984	2 312	4 689	2 195	4 096	1 909	3 789	1 748	3 639	1 688
J	Information and communication	423	101	435	105	421	104	420	107	441	116
K	Financial and insurance activities	74	34	73	33	57	25	57	25	94	45
L	Real estate activities	93	55	94	48	80	39	85	39	76	40
M	Professional, scientific, and technical activities	4 593	2 599	4 593	2 628	4 455	2 589	4 376	2 502	4 358	2 498
N	Administrative and support service activities	718	344	708	369	668	348	736	420	796	468
O	Public administration and defence; compulsory social security	545	261	543	232	503	232	479	222	434	177
P	Education	99	35	99	32	113	40	139	52	163	75
Q	Human health and social work activities	2 620	2 094	2 533	2 013	2 390	1 896	2 347	1 872	2 366	1 888
R	Arts, entertainment, and recreation	1 429	511	1 429	515	1 466	517	1 400	502	1 342	482
S	Other service activities	3 690	2 902	3 611	2 844	3 490	2 786	3 459	2 807	3 506	2 887
T	Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	772	697	712	629	644	564	524	443	396	328
	Persons unclassified by activities	26	14	23	11	18	9	25	14	17	12

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics City Office for the Strategic Planning and Development of the City – Department of Statistics

6.5 Persons employed in legal entities by form of ownership

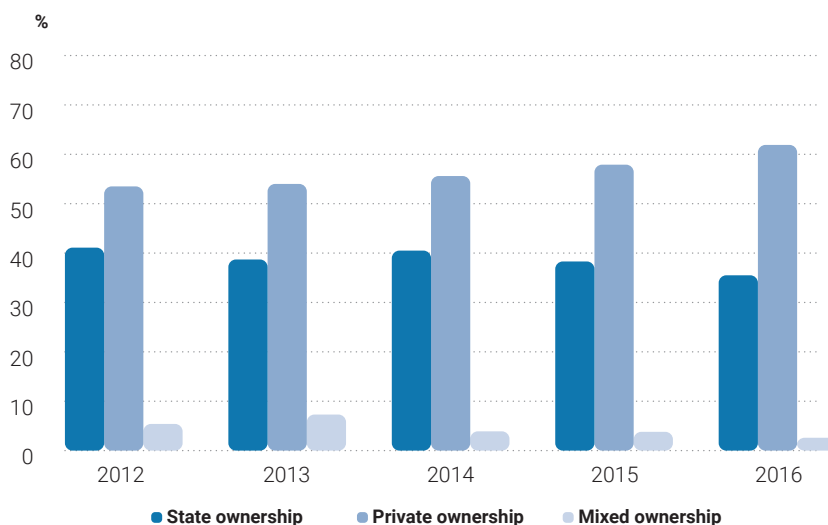
Status as of 31 March

	2012	2013	2014	2015	2016
	Number of employed persons				
Total	330 103	321 406	312 922	318 472	342 042
State ownership	135 610	124 435	126 786	122 063	121 538
Private ownership	176 626	173 593	173 771	184 431	211 718
Co-operative ownership	83	73	48	47	61
Mixed ownership	17 784	23 305	12 317	11 931	8 725
	Share of employed persons, %				
Total	100.0	100.0	100.0	100.0	100.0
State ownership	41.1	38.7	40.5	38.3	35.5
Private ownership	53.5	54.0	55.6	57.9	61.9
Co-operative ownership	0.0	0.0	0.0	0.0	0.0
Mixed ownership	5.4	7.3	3.9	3.8	2.6

Source: Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics City Office for the Strategic Planning and Development of the City – Department of Statistics

G 6.3 Share of persons employed in legal entities by form of ownership,

Status as of 31 March



6.6 Persons employed in legal entities by form of ownership and NCA 2007 sections

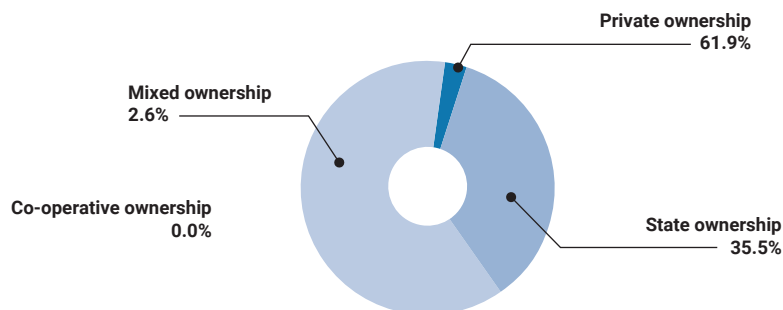
Status as of 31 March

	Total	Ownership type			
		State	Private	Co-operative	Mixed
Ukupno	342 042	121 538	211 718	61	8 725
A Agriculture, forestry, and fishing	957	352	605	-	-
B Mining and quarrying	974	309	289	-	376
C Manufacturing	36 586	3233	30 661	18	2 674
D Electricity, gas, steam, and air conditioning supply	3 202	2 893	162	-	147
E Water supply; sewerage, waste management, and remediation activities	3 573	2 513	1 060	-	-
F Construction	17 979	2 593	15 234	4	148
G Wholesale and retail trade; repair of motor vehicles and motorcycles	61 851	670	60 191	19	971
H Transportation and storage	17 177	6 474	9 532	-	1 171
I Accommodation and food service activities	9 470	1 223	8 129	-	118
J Information and communication	20 317	3 440	16 877	-	-
K Financial and insurance activities	19 486	2 938	14 968	-	1 580
L Real estate activities	3 421	396	3 025	-	-
M Professional, scientific, and technical activities	24 317	3 592	20 159	6	560
N Administrative and support service activities	20 288	1 108	19 180	-	-
O Public administration and defence; compulsory social security	34 058	33 949	76	-	33
P Education	28 775	26 112	2 565	-	98
Q Human health and social work activities	26 942	23 513	3 409	-	20
R Arts, entertainment, and recreation	7 225	4 688	2 224	-	313
S Other service activities	5 444	1 542	3 372	14	516

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics City Office for the Strategic Planning and Development of the City – Department of Statistics

G 6.4 Structure of persons employed in legal entities by form of ownership,

Status as of 31 March 2016



6.7 Persons employed in legal entities by level of professional qualifications and sex

Status as of 31 March

	2012	2013	2014	2015	2016
Total	329 635	321 273	312 435	318 472	342 042
Higher education	93 126	92 879	92 502	97 340	105 111
Doctors of Science	5 726	5 948	5 983	6 447	7 270
Masters of Science	4 408	4 316	4 310	4 731	4 799
Other	82 992	82 615	82 209	86 162	93 042
Post-secondary education	27 756	27 907	27 349	28 148	30 396
Secondary education	158 667	154 919	150 579	153 815	167 859
Primary education	8 887	8 151	7 364	7 641	7 273
Highly skilled	4 994	4 352	4 178	3 576	3 288
Skilled	17 869	16 145	14 500	13 358	13 274
Semi-skilled	4 740	4 149	4 073	3 249	2 850
Unskilled	13 596	12 771	11 890	11 345	11 991
Women	164 148	161 230	156 693	161 099	172 529
Higher education	52 147	52 302	52 256	55 184	59 691
Doctors of Science	2 635	2 859	2 904	3 140	3 554
Masters of Science	2 265	2 293	2 312	2 590	2 600
Other	47 247	47 150	47 040	49 454	53 537
Post-secondary education	16 055	16 327	16 276	16 773	18 122
Secondary education	75 738	74 029	71 009	72 922	78 257
Primary education	5 636	4 969	4 588	4 662	4 647
Highly skilled	625	576	543	496	546
Skilled	4 695	4 310	3 898	3 577	3 544
Semi-skilled	2 246	1 930	1 839	1 333	1 117
Unskilled	7 006	6 787	6 284	6 152	6 605
Total	100.0	100.0	100.0	100.0	100.0
Higher education	28.3	28.9	29.6	30.6	30.7
Doctors of Science	1.7	1.9	1.9	2.0	2.1
Masters of Science	1.3	1.3	1.4	1.5	1.4
Other	25.2	25.7	26.3	27.1	27.2
Post-secondary education	8.4	8.7	8.8	8.8	8.9
Secondary education	48.1	48.2	48.2	48.3	49.1
Primary education	2.7	2.5	2.4	2.4	2.1
Highly skilled	1.5	1.4	1.3	1.1	1.0
Skilled	5.4	5.0	4.6	4.2	3.9
Semi-skilled	1.4	1.3	1.3	1.0	0.8
Unskilled	4.1	4.0	3.8	3.6	3.5

6.7 Persons employed in legal entities by level of professional qualifications and sex

(Continued)

	2012	2013	2014	2015	2016
Women	49.8	50.2	50.2	50.6	50.4
Higher education	15.8	16.3	16.7	17.3	17.5
Doctors of Science	0.8	0.9	0.9	1.0	1.0
Masters of Science	0.7	0.7	0.7	0.8	0.8
Other	14.3	14.7	15.1	15.5	15.7
Post-secondary education	4.9	5.1	5.2	5.3	5.3
Secondary education	23.0	23.0	22.7	22.9	22.9
Primary education	1.7	1.6	1.5	1.5	1.4
Highly skilled	0.2	0.2	0.2	0.2	0.2
Skilled	1.4	1.3	1.3	1.1	1.0
Semi-skilled	0.7	0.6	0.6	0.4	0.3
Unskilled	2.1	2.1	2.0	1.9	1.9

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics City Office for the Strategic Planning and Development of the City – Department of Statistics

6.8 Persons employed in legal entities by level of professional qualifications and NCA 2007 sections

Status as of 31 March

		Total	Level of professional qualifications										
			Higher education				Post-secon- dary education	Secondary education	Primary educa- tion	Highly skilled	Skilled	Semi-skilled	Unskilled
			Total	Doctors of Science	Masters of Science	Other							
Total		342 042	105 111	7 270	4 799	93 042	30 396	167 859	7 273	3 288	13 274	2 850	11 991
A	Agriculture, forestry, and fishing	957	329	7	25	297	44	358	74	7	54	6	85
B	Mining and quarrying	974	445	6	23	416	45	380	6	33	56	1	8
C	Manufacturing	36 586	7 541	101	486	6 954	2 121	19 685	1 225	775	2 574	595	2 070
D	Electricity, gas, steam, and air conditioning supply	3 202	1 106	18	112	976	282	1 236	39	339	112	21	67
E	Water supply; sewerage, waste management, and remediation activities	3 573	254	1	26	227	136	1 709	111	184	412	102	665
F	Construction	17 979	2 043	6	36	2 001	1 090	8 885	435	349	3 017	730	1 430
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	61 851	11 305	51	320	10 934	3 745	41 587	873	319	2 275	252	1 495
H	Transportation and storage	17 177	2 410	20	97	2 293	1 187	11 503	360	245	1 051	88	333

6.8 Persons employed in legal entities by level of professional qualifications and NCA 2007 sections

(Continued)

Status as of 31 March

		Total	Level of professional qualifications										
			Higher education				Post-secondary education	Secondary education	Primary education	Highly skilled	Skilled	Semi-skilled	Unskilled
			Total	Doctors of Science	Masters of Science	Other							
I	Accommodation and food service activities	9 470	657	-	18	639	309	6 709	286	147	535	249	578
J	Information and communication	20 317	10 022	98	556	9 368	2 074	7 828	85	123	99	24	62
K	Financial and insurance activities	19 486	9 228	36	457	8 735	2 312	7 730	112	20	50	8	26
L	Real estate activities	3 421	650	2	20	628	324	1 770	72	27	184	56	338
M	Professional, scientific, and technical activities	24 317	13 655	1 291	513	11 851	1 903	7 920	236	146	222	35	200
N	Administrative and support service activities	20 288	2 085	8	48	2 029	1 033	13 757	607	83	592	95	2 036
O	Public administration and defence; compulsory social security	34 058	15 397	299	790	14 308	3 047	14 155	252	136	700	86	285
P	Education	28 775	16 256	3 867	472	11 917	5 607	4 271	606	159	588	120	1 168
Q	Human health and social work activities	26 942	7 542	1 356	566	5 620	4 269	11 921	1 529	133	484	232	832
R	Arts, entertainment, and recreation	7 225	2 331	78	130	2 123	462	3 819	264	27	136	29	157
S	Other service activities	5 444	1 855	25	104	1 726	406	2 636	101	36	133	121	156

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

6.9 Women employed in legal entities by level of professional qualifications and NCA 2007 sections

Status as of 31 March

		Total	Level of professional qualifications										
			Higher education				Higher education	Secondary education	Primary education	Highly skilled	Skilled	Semi-skilled	Unskilled
			Total	Doctors of Science	Masters of Science	Other							
Total		172 529	59 691	3 554	2 600	53 537	18 122	78 257	4 647	546	3 544	1 117	6 605
A	Agriculture, forestry, and fishing	411	125	2	8	115	21	154	35	-	14	4	58
B	Mining and quarrying	267	178	4	9	165	18	60	4	2	3	-	2
C	Manufacturing	13 011	3 197	60	222	2 915	659	6 597	714	85	596	258	905
D	Electricity, gas, steam, and air conditioning supply	1 009	460	5	36	419	113	368	24	1	9	3	31
E	Water supply; sewerage, waste management, and remediation activities	513	121	-	13	108	39	261	25	-	15	6	46
F	Construction	2 230	635	1	12	622	286	1 103	45	4	54	26	77
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	33 260	6 378	23	169	6 186	1 814	22 529	424	151	1 131	88	745
H	Transportation and storage	5 048	1 116	7	33	1 076	584	3 054	93	7	49	18	127
I	Accommodation and food service activities	4 817	355	-	11	344	174	3 144	210	57	232	206	439
J	Information and communication	8 040	4 297	40	261	3 996	705	2 933	34	7	29	8	27
K	Financial and insurance activities	13 140	5 913	11	296	5 606	1 525	5 563	92	1	21	7	18
L	Real estate activities	1 560	337	-	5	332	163	727	35	10	69	31	188

6.9 Women employed in legal entities by level of professional qualifications and NCA 2007 sections

(Continued)

Status as of 31 March

		Total	Level of professional qualifications										
			Higher education				Higher education	Secondary education	Primary education	Highly skilled	Skilled	Semi-skilled	Unskilled
			Total	Doctors of Science	Masters of Science	Other							
M	Professional, scientific, and technical activities	12 016	6 933	710	257	5 966	867	3 920	122	22	46	3	103
N	Administrative and support service activities	8 490	1 157	6	33	1 118	458	4 507	428	14	239	45	1 642
O	Public administration and defence; compulsory social security	18 335	9 388	144	425	8 819	1 543	6 721	226	43	203	42	169
P	Education	21 917	11 313	1 762	301	9 250	5 148	3 207	574	60	397	106	1 112
Q	Human health and social work activities	21 012	5 215	710	363	4 142	3 553	9 646	1 295	59	299	214	731
R	Arts, entertainment, and recreation	4 212	1 382	59	86	1 237	238	2 227	194	9	61	13	88
S	Other service activities	3 241	1 191	10	60	1 121	214	1 536	73	14	77	39	97

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

6.10 Persons employed in legal entities by age and sex

Status as of 31 March

	2009	2010	2011	2012	2013	2014	2015	2016
	Number of employed persons							
Total	359 140	343 194	327 988	329 635	321 273	312 556	318 472	342 042
up to 18 years of age	184	124	109	115	95	93	140	294
19 – 24	22 451	17 242	14 438	13 114	11 272	10 450	11 403	13 979
25 – 29	52 555	47 652	42 459	40 938	37 068	33 562	34 236	37 207
30 – 34	57 175	55 535	53 683	53 639	52 319	49 950	50 235	52 635
35 – 39	51 978	51 756	50 417	51 330	51 133	49 864	51 072	55 548
40 – 44	48 331	46 145	44 621	45 189	45 130	44 929	46 456	49 953
45 – 49	45 194	43 432	42 340	42 715	41 934	41 631	41 835	43 601
50 – 54	41 409	40 132	38 912	39 066	38 396	37 771	37 925	39 926
55 – 59	28 017	28 230	27 853	28 820	28 880	29 185	29 925	31 955
60 – 64	10 501	11 661	11 881	13 275	13 621	13 701	13 763	15 249
65 years and more	1 345	1 285	1 275	1 434	1 425	1 420	1 482	1 695

6.10 Persons employed in legal entities by age and sex

(Continued)

Status as of 31 March

	2009	2010	2011	2012	2013	2014	2015	2016
Number of employed persons								
Women	172 677	167 598	161 851	164 150	161 230	156 693	161 099	172 529
up to 18 years of age	78	60	58	57	23	32	52	109
19 – 24	9 553	7 589	6 436	5 711	4 922	4 232	4 734	5 763
25 – 29	24 996	22 956	20 748	20 098	18 348	16 306	16 983	18 324
30 – 34	27 719	27 272	26 528	26 674	25 940	24 802	25 357	26 364
35 – 39	25 404	25 508	24 957	25 699	25 621	25 097	25 786	27 885
40 – 44	24 121	23 495	22 839	23 123	23 231	22 973	23 594	25 427
45 – 49	23 567	22 626	22 198	22 576	22 214	22 014	22 188	23 095
50 – 54	21 237	21 097	20 845	21 185	20 975	20 509	20 661	21 664
55 – 59	11 634	12 094	12 168	13 245	13 800	14 247	15 141	16 547
60 – 64	4 010	4 533	4 674	5 324	5 689	5 995	6 106	6 793
65 years and more	358	368	400	458	467	486	497	558
Share of employed persons, %								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
up to 24 years	6.3	5.1	4.4	4.0	3.5	3.4	3.6	4.2
25 – 29	14.6	13.9	13.0	12.4	11.5	10.7	10.8	10.9
30 – 34	15.9	16.2	16.4	16.3	16.3	16.0	15.8	15.4
35 – 39	14.5	15.1	15.4	15.6	15.9	16.0	16.0	16.2
40 – 44	13.5	13.5	13.6	13.7	14.1	14.4	14.6	14.6
45 – 49	12.6	12.7	12.9	13.0	13.1	13.3	13.1	12.8
50 – 54	11.5	11.7	11.9	11.9	12.0	12.1	11.9	11.7
55 – 59	7.8	8.2	8.5	8.7	9.0	9.3	9.4	9.3
60 – 64	2.9	3.4	3.6	4.0	4.2	4.4	4.3	4.5
65 years and more	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
Women	48.1	48.8	49.4	49.8	50.2	50.1	50.6	50.4
up to 24 years	2.7	2.2	2.0	1.8	1.5	1.4	1.5	1.7
25 – 29	7.0	6.7	6.3	6.1	5.7	5.2	5.3	5.4
30 – 34	7.7	8.0	8.1	8.1	8.1	7.9	8.0	7.7
35 – 39	7.1	7.4	7.6	7.8	8.0	8.0	8.1	8.2
40 – 44	6.7	6.9	7.0	7.0	7.2	7.4	7.4	7.4
45 – 49	6.6	6.6	6.8	6.9	6.9	7.0	7.0	6.8
50 – 54	5.9	6.2	6.4	6.4	6.5	6.6	6.5	6.3
55 – 59	3.2	3.5	3.7	4.0	4.3	4.6	4.8	4.8
60 – 64	1.1	1.3	1.4	1.6	1.8	1.9	1.9	2.0
65 years and more	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

6.11 Persons employed in legal entities by age and NCA 2007 sections

Status as of 31 March

		Total	Age										
			Up to 18 years	19 – 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 – 64	65 years and more
Ukupno		342 042	294	13 979	37 207	52 635	55 548	49 953	43 601	39 926	31 955	15 249	1 695
A	Agriculture, forestry, and fishing	957	2	37	78	92	151	142	136	164	106	46	3
B	Mining and quarrying	974	-	8	83	130	154	137	138	145	144	28	7
C	Manufacturing	36 586	35	1 651	3 799	5 322	5 490	5 055	4 502	4 943	4 064	1 604	121
D	Electricity, gas, steam, and air conditioning supply	3 202	-	28	242	413	455	409	458	480	500	215	2
E	Water supply; sewerage, waste management, and remediation activities	3 573	2	112	241	406	516	575	583	529	420	182	7
F	Construction	17 979	15	852	1 636	2 620	2 755	2 452	2 271	2 314	2 070	918	76
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	61 851	123	3 897	8 197	11 031	11 560	9 189	7 216	5 369	3 693	1 349	227
H	Transportation and storage	17 177	7	461	1 079	1 891	2 453	2 904	2 848	2 703	2 073	732	26
I	Accommodation and food service activities	9 470	20	1 170	1 679	1 434	1 235	1 036	993	920	671	294	18
J	Information and communication	20 317	19	466	2 713	3 991	4 055	3 621	2 391	1 606	979	425	51
K	Financial and insurance activities	19 486	2	256	1 831	3 854	4 000	3 489	2 285	1 744	1 472	505	48
L	Real estate activities	3 421	1	169	378	472	505	460	474	452	341	154	15
M	Professional, scientific, and technical activities	24 317	13	581	3 438	4 367	4 452	3 348	2 524	2 147	1 898	1 228	321
N	Administrative and support service activities	20 288	39	1 935	3 199	3 213	2 994	2 372	2 251	2 128	1 547	555	55

6.11 Persons employed in legal entities by age and NCA 2007 sections

(Continued)

Status as of 31 March

		Total	Age										
			Up to 18 years	19 – 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 – 64	65 years and more
O	Public administration and defence; compulsory social security	34 058	1	395	2 121	3 925	5 270	5 919	5 645	4 692	3 854	2 020	216
P	Education	28 775	4	292	2 372	4 017	3 964	3 897	3 866	4 268	3 498	2 315	282
Q	Human health and social work activities	26 942	2	1 148	2 718	3 594	3 516	3 192	3 450	3 950	3 343	1 877	152
R	Arts, entertainment, and recreation	7 225	3	299	725	980	1 142	1 003	907	815	763	553	35
S	Other service activities	5 444	6	222	678	883	881	753	663	557	519	249	33

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

6.12 Women employed in legal entities by age and NCA 2007 sections

Status as of 31 March

		Total	Age										
			Up to 18 years	19 – 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 – 64	65 years and more
Ukupno		172 529	109	5 763	18 324	26 364	27 885	25 427	23 095	21 664	16 547	6 793	558
A	Agriculture, forestry, and fishing	411	-	7	25	35	67	69	57	85	51	14	1
B	Mining and quarrying	267	-	-	25	37	41	44	39	40	37	4	-
C	Manufacturing	13 011	9	384	1 161	1 735	2 000	1 920	1 903	2 090	1 429	358	22
D	Electricity, gas steam, and air conditioning supply	1 009	-	7	89	161	151	136	128	161	135	41	-
E	Water supply; sewerage, waste management, and remediation activities	513	-	8	30	56	71	75	90	86	77	20	-
F	Construction	2 230	-	43	148	330	374	322	281	359	278	86	9
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	33 260	60	2 026	4 694	6 117	6 076	4 842	4 010	2 968	1 948	455	64

6.12 Women employed in legal entities by age and NCA 2007 sections

(Continued)

Status as of 31 March

		Total	Age										
			Up to 18 years	19 – 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 – 64	65 years and more
H	Transportation and storage	5 048	-	89	297	518	738	987	880	871	547	117	4
I	Accommodation and food service activities	4 817	11	542	739	613	551	537	643	615	417	142	7
J	Information and communication	8 040	7	143	1 048	1 515	1 584	1 453	1 016	697	426	143	8
K	Financial and insurance activities	13 140	1	145	1 180	2 567	2 641	2 431	1 595	1 200	1 074	285	21
L	Real estate activities	1 560	-	43	160	217	218	226	259	232	148	53	4
M	Professional, scientific, and technical activities	12 016	4	226	1 814	2 228	2 253	1 650	1 340	1 106	906	424	65
N	Administrative and support service activities	8 490	8	543	1 221	1 302	1 213	1 124	1 198	1 084	632	150	15
O	Public administration and defence; compulsory social security	18 335	1	110	940	2 071	3 030	3 097	2 829	2 640	2 374	1 131	112
P	Education	21 917	2	219	1 812	3 069	2 970	3 029	3 102	3 397	2 662	1 544	111
Q	Human health and social work activities	21 012	-	829	2 017	2 697	2 756	2 506	2 832	3 188	2 690	1 415	82
R	Arts, entertainment, and recreation	4 212	2	239	487	572	617	542	497	504	441	294	17
S	Other service activities	3 241	4	160	437	524	534	437	396	341	275	117	16

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

6.13 Persons employed in legal entities by type of employment and sex

Status as of 31 March

	2009	2010	2011	2012	2013	2014	2015	2016
Total	359 140	343 194	327 988	329 635	321 273	312 556	318 472	342 042
of which: women	172 677	167 598	161 851	164 150	161 230	156 693	161 099	172 529
Full-time employees	318 811	306 187	292 135	290 266	280 912	270 880	272 726	286 989
of which: women	151 967	148 246	142 918	143 499	140 862	137 112	138 512	145 142
Part-time employees	37 117	34 618	33 464	36 967	38 210	39 789	43 981	53 370

6.13 Persons employed in legal entities by type of employment and sex

(Continued)

Status as of 31 March

	2009	2010	2011	2012	2013	2014	2015	2016
of which: women	18 751	17 925	17 517	19 256	19 162	18 606	21 532	26 393
Trainees	3 212	2 389	2 389	2 402	2 151	1 887	1 765	1 683
of which: women	1 959	1 427	1 416	1 395	1 206	975	1 055	994

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

6.14 Persons employed in legal entities by type of employment, sex, and NCA 2007 sections

Status as of 31 March

		Total	Women	Full-time employees		Part-time employees		Trainees	
				Total	Women	Total	Women	Total	Women
Total		342 042	172 529	286 989	145 142	53 370	26 393	1 683	994
A	Agriculture, forestry, and fishing	957	411	768	336	186	73	3	2
B	Mining and quarrying	974	267	926	260	37	4	11	3
C	Manufacturing	36 586	13 011	30 701	11 222	5 717	1 695	168	94
D	Electricity, gas, steam, and air conditioning supply	3 202	1 009	3 113	986	69	16	20	7
E	Water supply; sewerage, waste management, and remediation activities	3 573	513	3 306	481	267	32	-	-
F	Construction	17 979	2 230	14 701	2 047	3 203	172	75	11
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	61 851	33 260	49 356	25 700	12 357	7 471	138	89
H	Transportation and storage	17 177	5 048	15 115	4 660	2 044	379	18	9
I	Accommodation and food service activities	9 470	4 817	7 053	3 579	2 414	1 237	3	1
J	Information and communication	20 317	8 040	18 546	7 291	1 700	724	71	25
K	Financial and insurance activities	19 486	13 140	18 037	12 209	1 372	886	77	45
L	Real estate activities	3 421	1 560	2 824	1 345	590	212	7	3
M	Professional, scientific, and technical activities	24 317	12 016	20 724	10 265	3 296	1 583	297	168
N	Administrative and support service activities	20 288	8 490	10 891	3 576	9 381	4 901	16	13
O	Public administration and defence; compulsory social security	34 058	18 335	31 530	17 086	2 367	1 158	161	91
P	Education	28 775	21 917	24 419	18 866	3 898	2 724	458	327
Q	Human health and social work activities	26 942	21 012	24 566	19 222	2 312	1 746	64	44
R	Arts, entertainment, and recreation	7 225	4 212	5 911	3 411	1 262	772	52	29
S	Other service activities	5 444	3 241	4 502	2 600	898	608	44	33

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

6.15 Unemployed persons by level of education and sex

Status as of 31 December

	Unemployed persons			Level of education						
	Total	Women	People looking for employment for the first time	People who never attended/completed primary education	Primary education	Secondary vocational school lasting for three years and schools for skilled and highly skilled workers	Secondary vocational schools lasting for 4 or more years	Grammar schools	Post-secondary education, undergraduate degrees, professional studies	Faculties, academies, Master's degrees, Doctor's degrees
2012	45 388	22 934	9 428	1 279	7 220	11 766	12 137	2 805	3 532	6649
2013	46 588	23 857	9 863	1 280	7 439	11 759	12 738	2 930	3 680	6762
2014	41 134	21 387	8 095	1 198	6 780	10 289	10 979	2 426	3 319	6143
2015	37 463	19 804	7 880	1 172	6 196	8 958	9 814	2 347	3 166	5810
2016	30 307	16 548	5 813	1 154	4 833	6 891	7 630	1 730	2 732	5337
Share, %										
2012	100.0	50.5	20.8	2.8	15.9	25.9	26.7	6.2	7.8	14.7
2013	100.0	51.2	21.2	2.8	16.0	25.2	27.3	6.3	7.9	14.5
2014	100.0	52.0	19.7	2.9	16.5	25.0	26.7	5.9	8.1	14.9
2015	100.0	52.9	21.0	3.1	16.5	23.9	26.2	6.3	8.5	15.5
2016	100.0	54.6	19.2	3.8	16.0	22.7	25.2	5.7	9.0	17.6

Source: Croatian Employment Service

6.16 Unemployed persons by length of service

Status as of 31 December

	Total	No work experience	Length of service							
			Up to 1 year	1 – 2 years	2 – 3 years	3 – 5 years	5 – 10 years	10 – 20 years	20 – 30 years	More than 30 years
2012	45 388	9 428	4 084	3 105	1 893	3 356	6 281	8 026	5 956	3 259
2013	46 588	9 863	4 230	3 174	1 896	3 145	6 411	8 457	6 192	3 220
2014	41 134	8 095	3 462	2 884	1 672	2 656	5 567	7 930	5 844	3 005
2015	37 463	7 880	3 123	3 016	1 539	2 303	4 798	7 030	5 170	2 604
2016	30 307	5 813	2 474	2 633	1 414	1 924	3 778	5 922	4 415	1 934
Structure, %										
2012	100.0	20.8	9.0	6.8	4.2	7.4	13.8	17.7	13.1	7.2
2013	100.0	21.2	9.1	6.8	4.1	6.7	13.8	18.1	13.3	6.9
2014	100.0	19.7	8.5	7.0	4.1	6.4	13.5	19.3	14.2	7.3
2015	100.0	21.0	8.3	8.1	4.1	6.1	12.8	18.8	13.8	7.0
2016	100.0	19.2	8.1	8.7	4.7	6.3	12.5	19.5	14.6	6.4

Source: Croatian Employment Service

6.17 Unemployed persons by duration of unemployment

Status as of 31 December

	Total	Number of people waiting for employment in months							
		Up to 1 month	1 – 3 month	3 – 6 months	6 – 9 months	9 – 12 months	12 – 24 months	24 – 36 months	More than 36 months
2012	45 388	3 214	7 843	7 097	3 871	3 981	7 615	4 152	7 615
2013	46 588	3 121	7 537	7 079	3 717	3 704	8 752	4 148	8 530
2014	41 134	3 069	6 974	5 671	2 955	2 952	6 807	4 007	8 703
2015	37 463	2 725	6 336	5 288	2 520	2 456	5 753	3 351	9 084
2016	30 307	2 508	5 539	3 673	2 047	1 712	3 851	2 623	8 354
Share, %									
2012	100.0	7.1	17.3	15.6	8.5	8.8	16.8	9.1	16.8
2013	100.0	6.7	16.2	15.2	8.0	7.9	18.8	8.9	18.3
2014	100.0	7.5	16.9	13.8	7.2	7.2	16.5	9.7	21.2
2015	100.0	7.3	16.9	14.1	6.7	6.6	15.4	8.9	24.1
2016	100.0	8.3	18.3	12.1	6.7	5.6	12.7	8.7	27.6

Source: Croatian Employment Service

6.18 Unemployed persons by age

Status as of 31 December

	Total	Age									
		15 – 19	20 – 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 and more
2012	45 388	1 970	5 499	7 218	5 559	4 419	4 224	4 346	4 746	5 198	2 209
2013	46 588	1 991	5 569	7 105	5 491	4 681	4 395	4 575	4 841	5 504	2 436
2014	41 134	1 579	4 073	5 417	4 801	4 415	3 978	4 333	4 609	5 308	3 621
2015	37 463	1 515	3 834	4 900	4 072	3 887	3 562	3 860	4 124	4 967	2 742
2016	30 307	967	2 587	3 756	3 282	3 185	2 977	3 123	3 575	4 129	2 726
Share, %											
2012	100.0	4.3	12.1	15.9	12.2	9.7	9.3	9.6	10.5	11.5	4.9
2013	100.0	4.3	12.0	15.3	11.8	10.0	9.4	9.8	10.4	11.8	5.2
2014	100.0	3.8	9.9	13.2	11.7	10.7	9.7	10.5	11.2	12.9	6.4
2015	100.0	4.0	10.2	13.1	10.9	10.4	9.5	10.3	11.0	13.3	7.3
2016	100.0	3.2	8.6	12.4	10.8	10.5	9.8	10.3	11.8	13.6	9.0

Source: Croatian Employment Service

07

Earnings



NOTES ON METHODOLOGY

Source and method of data collection

Data on average net and gross earnings of persons employed in companies, enterprises or institutions, as well as data on the structure of employed persons according to the amount of net earnings, have been obtained upon processing data referred to in the Report on Income, Income Tax and Surtax, and Contributions for Mandatory Insurances (JOPPD form), i.e. based on an annual survey by virtue of which records are made on employed persons according to the amount of the total net earnings.

Data on average monthly net and gross earning according to the level of professional qualifications *for performing* certain jobs and tasks pertain only to employed persons who worked 12 months of the year. The afore-mentioned data are obtained by virtue of an annual survey.

Coverage and comparability

All persons employed in business entities (legal persons) in the City of Zagreb, regardless of the type of ownership and regardless of whether the person is employed for a fixed or indefinite period of time, full-time or part-time, are included in the scope of the survey.

The survey on average net and gross earnings does not examine persons employed in crafts and trades, freelancers, employees of the Ministry of Interior and the Ministry of Defence and persons who work on family-run farms.

Definitions and explanations

Average monthly net earning represents the income of persons employed to perform certain tasks based on employment contract, as well as compensations for annual leave, paid leave, public holidays and non-working days defined by law, sick leave lasting up to 42 days, leave of absence due to professional education, delays at workplace that weren't the employee's fault, as well as receipts based on reimbursements, supports and awards in amounts for which contributions, taxes and surtaxes are paid.

Average monthly gross earning includes all kinds of net payments made with regard to employment, as well as obligatory participation, contributions, taxes and surtaxes as prescribed by law.

Data on **the structure of employed persons according to the amount of total net earnings** pertain to employed persons whose earnings were calculated based on no less than 160 hours and no more than 200 hours in the months for which the report is prepared.

Indices of nominal net and gross earnings are calculated based on the data on average monthly net and gross earnings for the relevant months and years.

Data on average earnings per employed person are presented according to the principle of payments made in the current month for the previous month (which corresponds to dynamics of payment in most legal entities), so average earnings **pertain to the month for which the payment has been received**. However, in case of late payments for the previous months and periods, data are included in average payments for the surveyed month.

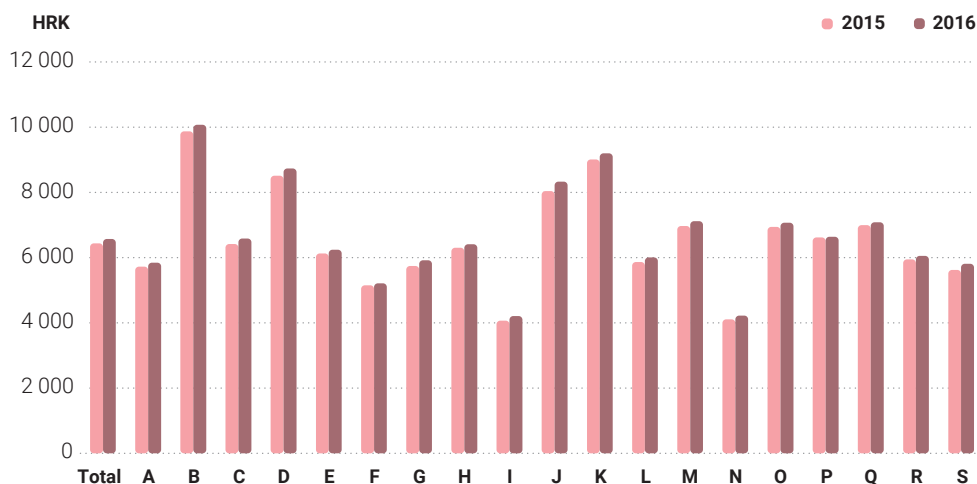
In data on average monthly earnings according to the level of professional qualifications, the term "professional qualifications" implies general and professional knowledge and skills of an employed person, which result from the range and complexity of tasks for a certain job position, as defined by regulations established by the employer. The 2015 data are not comparable to data from the previous years because they were calculated in a manner which included all legal entities, whereas in the previous years, such data were calculated based on the representative sample for the City of Zagreb.

7.1 Average monthly net earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections

		Average monthly net earnings per employed person in HRK		Nominal indices
		2015	2016	<u>2016</u> <u>2015</u>
Total		6 438	6 575	102.1
A	Agriculture, forestry and fishing	5 725	5 844	102.1
B	Mining and quarrying	9 874	10 077	102.1
C	Manufacturing	6 418	6 588	102.6
D	Electricity, gas, steam and air conditioning supply	8 511	8 734	102.6
E	Water supply; sewerage, waste management and remediation activities	6 128	6 239	101.8
F	Construction	5 147	5 210	101.2
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	5 740	5 920	103.1
H	Transportation and storage	6 305	6 411	101.7
I	Accommodation and food service activities	4 067	4 206	103.4
J	Information and communication	8 040	8 331	103.6
K	Financial and insurance activities	9 013	9 201	102.1
L	Real estate activities	5 866	6 007	102.4
M	Professional, scientific and technical activities	6 969	7 118	102.1
N	Administrative and support service activities	4 103	4 219	102.8
O	Public administration and defence; compulsory social security	6 942	7 072	101.9
P	Education	6 617	6 636	100.3
Q	Human health and social work activities	6 993	7 083	101.3
R	Arts, entertainment and recreation	5 948	6 052	101.7
S	Other service activities	5 624	5 808	103.3

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 7.1 Average monthly net earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections for 2015 and 2016

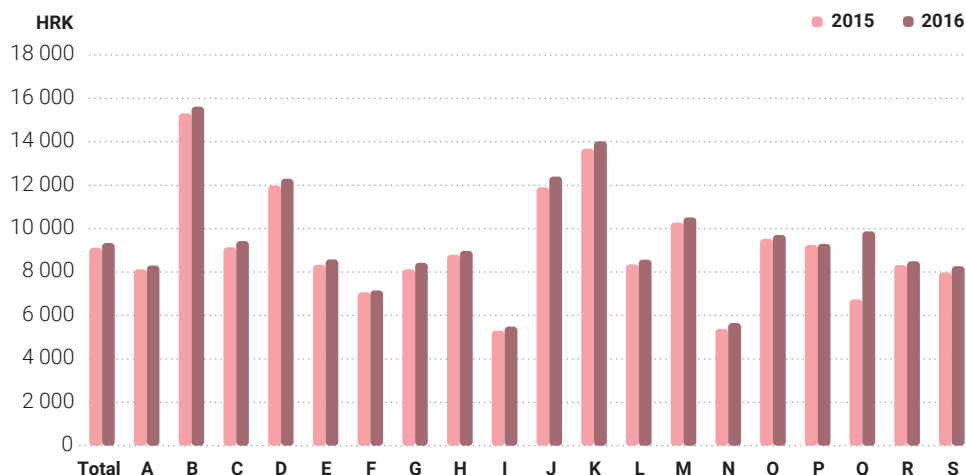


7.2 Average monthly gross earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections

		Average monthly gross earnings per employed person in HRK		Nominal indices
		2015	2016	2016 2015
Total		9 115	9 339	102.5
A	Agriculture, forestry and fishing	8 124	8 302	102.2
B	Mining and quarrying	15 306	15 620	102.1
C	Manufacturing	9 140	9 429	103.2
D	Electricity, gas, steam and air conditioning supply	11 982	12 296	102.6
E	Water supply; sewerage, waste management and remediation activities	8 328	8 577	103.0
F	Construction	7 069	7 154	101.2
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	8 127	8 425	103.7
H	Transportation and storage	8 801	8 974	102.0
I	Accommodation and food service activities	5 304	5 482	103.4
J	Information and communication	11 902	12 398	104.2
K	Financial and insurance activities	13 680	14 024	102.5
L	Real estate activities	8 350	8 574	102.7
M	Professional, scientific and technical activities	10 276	10 519	102.4
N	Administrative and support service activities	5 388	5 649	104.8
O	Public administration and defence; compulsory social security	9 534	9 707	101.8
P	Education	9 251	9 293	100.5
Q	Human health and social work activities	9 742	9 873	101.3
R	Arts, entertainment and recreation	8 322	8 503	102.2
S	Other service activities	7 983	8 270	103.6

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 7.2 Average monthly gross earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections for 2015 and 2016

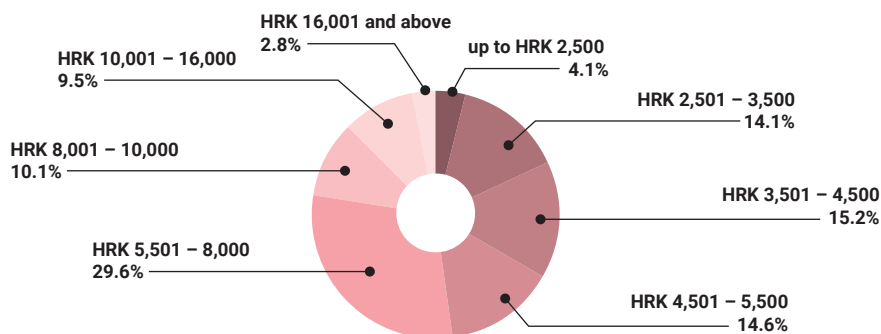


7.3 Share of persons employed in legal entities by amount of net earnings for March

	up to HRK 2 500	2 501 – 3 100	3 101 – 3 500	3 501 – 4 000	4 001 – 4 500	4 501 – 5 000	5 001 – 5 500	5 501 – 6 000	6 001 – 6 500	6 501 – 7 000	7 001 – 8 000	8 001 – 10 000	10 001 – 16 000	16 001 – 21 000	21 001 and more
2014	4.7	7.7	5.7	7.4	8.3	7.8	7.6	8.1	6.8	6.0	8.6	10.0	9.0	1.4	0.9
2015	4.2	7.8	5.9	7.3	7.7	7.9	7.3	8.1	7.7	5.9	8.3	9.8	9.4	1.7	1.0
2016	4.1	8.0	6.1	7.4	7.8	7.6	7.0	7.7	7.2	6.1	8.6	10.1	9.5	1.7	1.1

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 7.3 Structure of persons employed in legal entities by amount of net earnings for March 2016



7.4 Structure of persons employed in legal entities by amount of net earnings for March 2016, by NCA 2007 sections

		up to HRK 2 500	2 501-3 100	3 101-3 500	2 501-4 000	4 001-4 500	4 501-5 000	5 001-5 500	5 501-6 000	6 001-7 000	7 001-8 000	8 001-10 000	10 001-16 000	16 001 and more
Total		4.1	8.0	6.1	7.4	7.8	7.6	7.0	7.7	13.3	8.6	10.1	9.5	2.8
A	Agriculture, forestry and fishing	7.6	13.4	12.1	5.9	4.6	8.4	7.2	6.5	5.9	5.1	10.9	10.3	2.1
B	Mining and quarrying	1.6	2.7	0.5	1.9	1.2	1.8	6.1	10.2	19.4	12.4	16.0	22.2	4.0
C	Manufacturing	4.0	7.9	6.7	9.1	9.1	9.0	8.4	6.6	10.3	6.6	7.9	9.8	4.6
D	Electricity, gas, steam and air conditioning supply	0.3	0.3	0.1	0.2	0.6	2.6	3.7	5.4	21.5	22.2	21.9	18.4	2.8
E	Water supply; sewerage, waste management and remediation activities	1.4	2.5	4.0	5.0	5.7	12.8	14.8	12.1	19.8	10.7	7.4	3.4	0.4
F	Construction	9.9	12.1	8.2	8.8	9.6	9.3	7.6	7.4	10.1	5.7	5.4	4.8	1.1
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	5.7	13.0	9.9	10.4	9.3	7.7	6.0	5.5	8.3	5.7	6.8	7.9	3.8
H	Transportation and storage	2.8	6.1	4.0	5.4	8.5	7.8	5.7	5.4	13.9	11.1	19.6	8.2	1.5
I	Accommodation and food service activities	8.7	18.1	12.0	15.2	13.2	10.1	7.4	4.7	4.5	2.5	2.0	1.2	0.4
J	Information and communication	2.0	2.8	1.9	2.9	4.2	5.3	6.3	6.6	12.4	11.2	17.6	20.8	6.0
K	Financial and insurance activities	1.8	2.0	1.1	1.9	3.5	5.8	7.2	8.5	14.1	10.8	15.6	20.9	6.8
L	Real estate activities	7.1	8.7	6.2	8.9	10.8	9.1	6.1	7.1	12.4	8.1	6.4	6.6	2.5
M	Professional, scientific and technical activities	3.8	5.2	5.1	5.6	7.1	6.5	6.9	6.8	11.3	9.5	13.5	14.1	4.6
N	Administrative and support service activities	10.0	29.6	12.8	10.8	7.1	6.7	4.7	5.4	5.2	2.6	2.9	1.6	0.6
O	Public administration and defence; compulsory social security	1.7	1.9	3.2	8.2	7.6	8.1	7.0	8.9	18.2	11.7	13.8	8.3	1.4
P	Education	1.0	2.8	4.1	4.1	6.4	6.0	6.2	15.3	25.6	11.2	8.9	7.4	1.0
Q	Human health and social work activities	1.2	2.7	5.5	6.9	9.3	8.6	9.7	10.6	20.0	10.0	7.2	7.7	0.6
R	Arts, entertainment and recreation	2.1	6.9	4.2	6.0	8.7	8.8	9.7	8.5	16.4	11.9	11.0	5.1	0.7
S	Other service activities	8.6	10.0	4.3	7.1	6.3	7.8	8.1	6.8	12.2	8.9	10.2	8.2	1.5

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

7.5 Average monthly net and gross earnings per person employed in legal entities by sex and level of professional qualifications

	Total	Sex		Level of professional qualifications							
		Men	Wo- men	Higher edu- cation	Post-se- condary education	Sec- ondary educa- tion	Primary edu- cation	Highly skilled	Skilled	Semi- skilled	Unski- lled
Net earnings in HRK											
2011	6 601	7 014	6 177	9 779	7 010	5 351	3 997	6 115	4 701	4 360	3 610
2012	6 590	6 972	6 214	9 587	6 931	5 317	4 280	6 236	4 698	4 240	3 527
2013	6 879	7 416	6 362	10 160	7 037	5 443	4 327	5 971	4 781	4 226	3 469
2014	6 690	7 157	6 243	9 595	6 806	5 345	4 250	6 436	4 882	4 478	3 700
2015 ¹⁾	6 626	7 040	6 198	9 518	6 929	5 211	4 047	6 108	4 566	4 537	3 826
Gross earnings in HRK											
2011	9 880	10 568	9 174	15 739	10 380	7 558	5 416	8 608	6 452	5 882	4 924
2012	9 943	10 578	9 316	15 596	10 311	7 532	5 811	8 874	6 472	5 688	4 708
2013	10 473	11 378	9 601	16 651	10 490	7 758	5 856	8 490	6 590	5 656	4 674
2014	10 017	10 907	9 363	15 598	10 108	7 579	5 726	9 177	6 733	6 003	4 971
2015 ¹⁾	9 742	10 402	9 060	14 901	10 020	7 231	5 338	8 637	6 135	6 015	5 064

¹⁾ See Notes on Methodology.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

7.6 Average monthly net earnings per person employed in legal entities by sex and level of professional qualifications for 2015 by NCA 2007 sections¹⁾

HRK

		Total	Sex		Level of professional qualifications							
			Men	Women	Higher education	Post-secondary education	Secondary education	Primary education	Highly skilled	Skilled	Semi-skilled	Unskilled
Total		6 626	7 040	6 198	9 518	6 929	5 211	4 047	6 108	4 566	4 537	3 826
A	Agriculture, forestry and fishing	6 093	6 643	5 401	9 250	5 913	4 608	3 828	3 467	2 991	3 337	2 994
B	Mining and quarrying	8 874	9 187	8 233	9 934	9 263	6 299	4 349	10 817	5 604	4 356	4 799
C	Manufacturing	6 879	7 093	6 473	12 420	7 836	5 283	4 493	6 078	4 984	4 747	3 895
D	Electricity, gas, steam and air conditioning supply	8 033	8 016	8 078	10 470	7 980	6 450	4 679	7 360	6 421	4 812	5 413
E	Water supply; sewerage, waste management and remediation activities	6 003	6 020	5 899	8 947	7 271	6 068	5 049	7 260	5 278	4 993	5 774
F	Construction	5 490	5 403	6 053	9 600	6 937	5 044	3 563	5 794	4 243	4 559	3 756

7.6 Average monthly net earnings per person employed in legal entities by sex and level of professional qualifications for 2015 by NCA 2007 sections¹⁾

(Continued)

HRK

		Total	Sex		Level of professional qualifications							
			Men	Women	Higher education	Post-secondary education	Secondary education	Primary education	Highly skilled	Skilled	Semi-skilled	Unskilled
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	6 208	6 772	5 651	11 140	7 633	5 052	3 786	5 425	4 254	3 334	3 625
H	Transportation and storage	6 633	6 729	6 406	10 540	8 850	5 749	4 445	6 094	4 139	5 108	6 990
I	Accommodation and food service activities	4 316	4 609	4 063	7 883	7 030	3 928	3 455	4 958	4 471	4 127	3 292
J	Information and communication	8 544	8 925	7 891	10 120	7 888	6 580	5 454	7 457	4 915	4 146	3 843
K	Financial and insurance activities	9 067	10 451	8 307	11 586	7 725	6 461	4 880	4 789	5 625	4 952	4 116
L	Real estate activities	5 779	6 274	5 240	8 916	6 568	5 517	5 197	4 896	4 082	2 980	3 210
M	Professional, scientific and technical activities	7 560	7 988	7 096	8 995	6 978	5 345	3 536	7 255	4 430	3 375	3 641
N	Administrative and support service activities	4 011	4 129	3 825	6 913	5 491	3 653	2 773	4 737	4 148	4 858	2 734
O	Public administration and defence; compulsory social security	6 853	7 491	6 244	8 477	6 596	5 489	3 344	5 317	5 786	6 502	3 547
P	Education	6 361	7 507	5 973	7 333	6 120	4 776	3 775	4 977	4 510	4 041	3 468
Q	Human health and social work activities	6 379	7 918	5 943	9 892	6 037	5 143	3 451	4 911	4 094	3 918	3 370
R	Arts, entertainment and recreation	6 024	6 470	5 674	7 696	6 411	5 055	4 557	6 142	5 177	4 606	4 823
S	Other service activities	6 054	6 569	5 639	8 077	6 539	4 994	4 124	4 677	3 975	4 950	3 851

¹⁾ See Notes on Methodology.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

7.7 Average monthly gross earnings per person employed in legal entities by sex and level of professional qualifications for 2015 by NCA 2007 sections

HRK

		Total	Sex		Level of professional qualifications							
			Men	Women	Higher education	Post-secondary education	Secondary education	Primary education	Highly skilled	Skilled	Semi-skilled	Unskilled
Total		9 742	10 402	9 060	14 901	10 020	7 231	5 338	8 637	6 135	6 015	5 064
A	Agriculture, forestry and fishing	8 798	9 643	7 734	14 036	8 187	6 230	5 191	4 513	3 850	4 401	3 848
B	Mining and quarrying	13 370	13 909	12 269	15 348	13 683	8 935	5 829	16 032	7 603	5 780	6 762
C	Manufacturing	10 274	10 581	9 691	20 427	11 755	7 347	6 050	8 483	6 805	6 432	5 162
D	Electricity, gas, steam and air conditioning supply	11 802	11 703	12 059	16 211	11 502	9 036	6 180	10 364	8 957	6 404	7 471
E	Water supply; sewerage, waste management and remediation activities	8 227	8 193	8 431	13 418	10 442	8 314	6 717	10 112	7 045	6 541	7 773
F	Construction	7 688	7 526	8 746	14 919	10 021	6 849	4 624	7 832	5 620	6 038	4 924
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	9 200	10 130	8 280	18 255	11 497	7 079	5 000	7 575	5 722	4 346	4 804
H	Transportation and storage	9 524	9 646	9 237	15 984	13 373	8 011	5 861	9 569	5 491	6 894	9 866
I	Accommodation and food service activities	5 907	6 398	5 486	12 113	10 532	5 257	4 487	6 902	6 019	5 419	4 244
J	Information and communication	13 132	13 739	12 093	16 030	11 758	9 587	7 379	10 760	6 668	5 748	5 094
K	Financial and insurance activities	14 111	16 626	12 729	18 767	11 475	9 317	6 813	6 509	8 034	6 654	5 527
L	Real estate activities	8 363	9 115	7 543	14 302	9 564	7 674	7 142	6 753	5 502	3 872	4 168
M	Professional, scientific and technical activities	11 555	12 257	10 794	14 163	10 300	7 560	4 682	10 590	5 927	4 372	4 857
N	Administrative and support service activities	5 456	5 573	5 270	10 286	7 811	4 852	3 550	6 406	5 526	6 593	3 537
O	Public administration and defence; compulsory social security	9 793	10 642	8 984	12 633	9 177	7 419	4 304	7 158	7 771	8 801	4 529
P	Education	9 118	11 128	8 436	10 823	8 408	6 482	4 834	6 771	5 945	5 189	4 479
Q	Human health and social work activities	9 278	11 992	8 509	15 610	8 457	7 002	4 463	6 620	5 378	5 087	4 347
R	Arts, entertainment and recreation	8 593	9 305	8 035	11 396	9 123	6 996	6 075	8 593	7 000	6 133	6 606
S	Other service activities	8 735	9 480	8 134	12 229	9 439	6 918	5 527	6 444	5 260	6 591	5 143

¹⁾ See Notes on Methodology.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

08

Prices



NOTES ON METHODOLOGY

Source and method of data collection

Retail prices of goods and services are collected on a monthly basis by price collectors from a predefined sample of retail outlets in shops, supermarkets, outlets, farmers' markets and other places (up to 15 different places of price collection in Zagreb for each product/service), as well as in public companies and institutions that provide transport and communication services, postal services, housing and utility services, heating and lighting services, health services, culture and sports-related activities, and other social activities. For the purpose of collecting data on retail prices and the costs of living, certain products and services are defined, which comprise the greatest share in retail trade, i.e. in personal consumption, and the prices of which represent general price trends and price trends of specific groups of products and services. In order to enable monitoring of changes in price trends between two periods, the price collectors also record other characteristics of goods and services apart from the price itself. The collected material is analysed for the City of Zagreb and the indicators of dynamics are calculated for two categories of prices, i.e. for retail prices and prices of the costs of living.

Coverage and comparability

Retail price index pertains to goods and services for personal consumption, propagating material and certain tools for work, while the index list of the costs of living includes only goods and services for personal consumption. Grouping of certain goods and services is based on different criteria. Therefore, for retail prices, grouping is based on the criterion of the form of product and type of service (e.g. agricultural food products, industrial non-food products, transport services, etc.), while for the costs of living, it is carried out based on the criterion of purpose of consumption (e.g. food products, energy sources and energy materials in a household with related services, accommodation with related services, etc.). Weighting systems for calculation of index also differ. The weighting system for calculation of retail price index is based on the value structure of retail turnover, whereas the weighting system for calculation of index of the cost of living is based on the value structure of personal consumption of households in the City of Zagreb.

Indices of retail price and costs of living have been calculated for the City of Zagreb since 1952; so, for the purpose of overview of the trends, they can be compared to the indices for the Republic of Croatia for the period until 2003. In 2004, the Croatian Bureau of Statistics published that the consumer price index (CPI) is a unique and general measure of inflation, with index development methodology in accordance with the principles and recommendations of the International Labour Organisation and the uniform Eurostat method for Harmonised Index of Consumer Prices (HICP). The City of Zagreb will calculate and publish the consumer price index (CPI) upon conducting the Survey on the consumption of households on the extended sample, based on the harmonised methodology accepted and applied by the Croatian Bureau of Statistics.

Definitions and explanations

Retail price is the price of goods or services in the final stage of trading, i.e. the price at which retail outlets, individual manufacturers and service providers sell their products and provide their services to the end user. This price includes value-added tax.

Retail price index is an indicator of trends in the prices of goods and services in retail trade. It is calculated based on the index lists of products and services and the corresponding weights.

Costs of living index is the retail price index of those products and services comprising the personal consumption of an average household in one year, with weighting based on the consumption structure obtained by virtue of the Survey on Consumption of Households in the City of Zagreb that was conducted in 1988 and that is adjusted each year in terms of annual price fluctuations. Therefore, this index measures retail price fluctuation of goods and services for personal consumption, and it is not an indicator of changes in the level and structure of the costs of living.

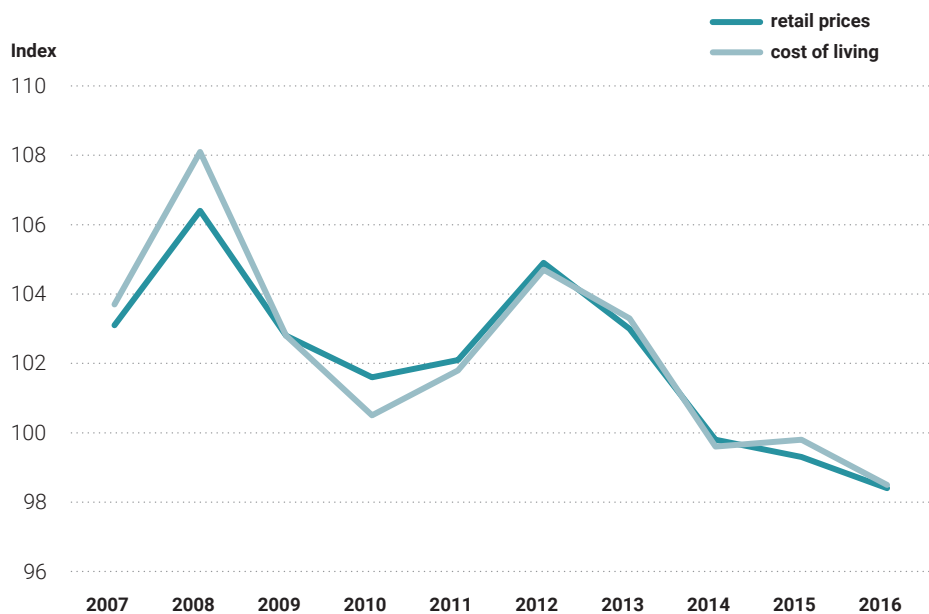
Index lists are the lists of products and services whose individual prices and the relevant weighting system are used to calculate the price index of a specific group. A separate, specific list exists for each price category. Elements of an index list, consisting of the above-mentioned goods and services, are selected in such a manner that their own price trends represent the group price trends of related, mostly substitute products and services.

Total indices and group indices are calculated by weighting, in which case the weights per individual goods or services and per group of goods or services represent a share of goods or services in the total value of retail turnover and of personal consumption within the territory of the City of Zagreb in one year.

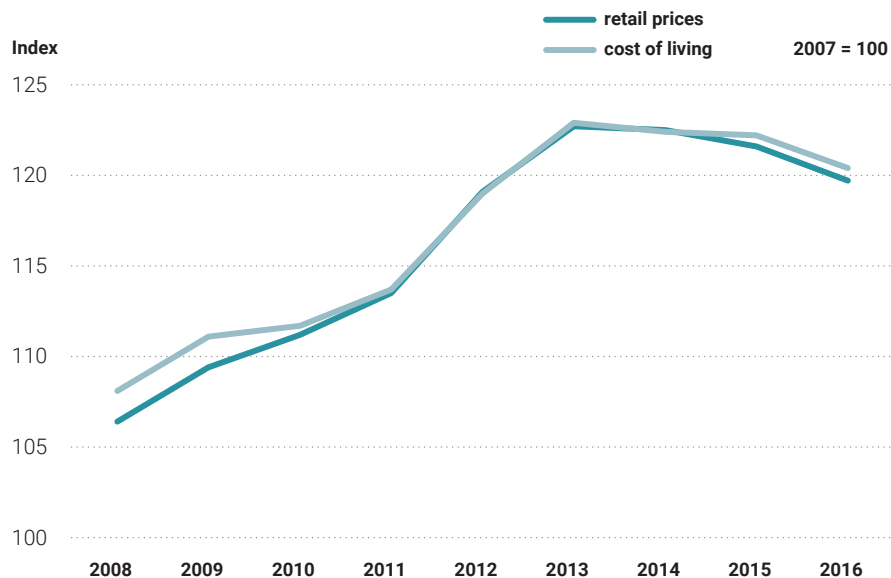
8.1 Chain indices of retail prices by product groups

	2007 2006	2008 2007	2009 2008	2010 2009	2011 2010	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015
Retail prices – total	103.1	106.4	102.8	101.6	102.1	104.9	103.0	99.8	99.3	98.4
Goods	103.2	106.1	102.5	101.5	102.3	104.4	103.3	100.1	99.1	98.0
Agricultural food products	106.1	110.9	96.7	97.9	99.6	106.4	107.9	95.2	103.9	96.9
Industrial products – total	103.0	105.9	102.8	101.5	102.3	104.3	103.3	100.3	98.9	97.9
Food products	103.3	109.9	101.0	97.3	103.5	101.5	102.4	97.4	99.3	99.4
Non-food products	102.6	104.7	101.5	103.1	101.9	105.8	102.3	99.9	97.9	96.9
Beverages	102.1	103.1	103.9	97.3	100.4	97.4	101.5	101.5	100.7	100.7
Tobacco	105.4	106.8	120.0	103.4	105.9	105.2	113.4	108.3	102.0	100.1
Food products – total	103.8	110.1	100.5	97.3	102.9	102.2	103.2	97.3	99.9	99.0
Services	102.6	108.4	104.6	102.5	100.9	106.5	102.3	98.7	100.4	100.1

G 8.1 Changes in chain indices of retail prices and cost of living from 2007 to 2016



G 8.2 Changes in indices of retail prices and cost of living from 2008 to 2016



8.2 Chain indices of cost of living by type of living expenses

	2007 2006	2008 2007	2009 2008	2010 2009	2011 2010	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015
Cost of living – total	103.7	108.1	102.8	100.5	101.8	104.7	103.3	99.6	99.8	98.5
Purpose of expenditure										
Food	104.2	110.2	100.5	96.1	102.3	103.7	104.4	97.1	99.5	97.8
Beverage	102.0	102.8	103.5	97.6	100.3	97.4	101.3	100.9	101.0	101.7
Tobacco	105.4	106.9	119.9	103.4	106.0	105.2	113.4	108.3	102.0	100.1
Clothing, footwear, and services	103.4	104.0	99.7	100.5	97.5	96.5	99.1	98.8	100.5	102.7
Housing and services	110.2	111.3	100.4	100.8	101.5	107.1	104.4	105.3	102.4	99.9
Heating, lighting, and services	99.4	107.1	109.6	109.3	101.6	116.4	105.7	99.9	99.1	91.8
Household equipment and services	103.3	105.0	104.1	101.5	102.4	101.8	100.7	98.9	97.0	97.6
Hygiene, health care, and services	105.5	108.2	111.5	101.3	101.8	101.8	103.2	101.3	101.6	102.2
Education, culture, leisure, and services	102.2	105.5	106.3	101.5	100.2	100.0	101.4	100.5	100.2	100.7
Means of transport, services, and post and telecommunication services	101.7	108.9	96.5	104.4	104.1	108.9	100.6	97.2	96.8	97.6
Administrative and other services	100.0	100.0	100.2	120.8	100.0	100.7	100.2	100.0	99.1	101.0
Goods	103.5	107.8	101.9	100.1	102.2	104.1	103.8	99.6	99.4	98.2
Services	103.8	109.3	105.1	102.5	100.9	106.0	102.6	100.1	100.9	99.4

8.3 Average annual price increase rates

%

	1966 – 1970	1971 – 1975	1976 – 1980	1981 – 1985	1986 – 1990	1991 – 1995	1996 – 2000	2001 – 2005	2006 – 2010	2011 – 2015
Retail prices	10.5	20.9	17.9	48.4	317.1	261.1	4.1	2.9	3.3	1.8
Cost of living	10.6	20.7	18.8	47.7	316.7	257.3	4.8	2.7	3.6	1.8

8.4 Indices of retail prices¹⁾

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
100.0	106.4	109.4	111.2	113.5	119.1	122.7	122.5	121.6	119.7
94.0	100.0	102.8	104.4	106.6	111.8	115.2	115.0	114.2	112.4
91.4	97.3	100.0	101.6	103.7	108.8	112.1	111.9	111.1	109.3
90.0	95.8	98.4	100.0	102.1	107.1	110.3	110.1	109.3	107.6
88.1	93.8	96.4	97.9	100.0	104.9	108.0	107.8	107.0	105.3
84.0	89.4	91.9	93.3	95.3	100.0	103.0	102.8	102.1	100.5
81.6	86.8	89.2	90.6	92.5	97.1	100.0	99.8	99.1	97.5
81.8	87.0	89.4	90.8	92.7	97.3	100.2	100.0	99.3	97.7
82.4	87.6	90.0	91.4	93.4	98.0	100.9	100.7	100.0	98.4
83.7	89.0	91.5	92.9	94.9	99.6	102.5	102.3	101.6	100.0

¹⁾ Data is to be read only horizontally.

8.5 Indices of cost of living¹⁾

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
100.0	108.1	111.1	111.7	113.7	119.0	122.9	122.4	122.2	120.4
92.5	100.0	102.8	103.3	105.2	110.1	113.7	113.2	113.0	111.3
90.0	97.3	100.0	100.5	102.3	107.1	110.6	110.2	110.0	108.4
89.6	96.8	99.5	100.0	101.8	106.6	110.1	109.7	109.5	107.9
88.0	95.1	97.7	98.2	100.0	104.7	108.2	107.8	107.6	106.0
84.0	90.8	93.3	93.8	95.5	100.0	103.3	102.9	102.7	101.2
81.3	87.9	90.3	90.8	92.4	96.8	100.0	99.6	99.4	97.9
81.6	88.3	90.7	91.2	92.8	97.2	100.4	100.0	99.8	98.3
81.8	88.5	90.9	91.4	93.0	97.4	100.6	100.2	100.0	98.5
83.0	89.8	92.3	92.8	94.4	98.9	102.1	101.7	101.5	100.0

¹⁾ Data is to be read only horizontally.



09

Investments



NOTES ON METHODOLOGY

Source and method of data collection

Data on gross investments are collected from the Annual Report on Gross Investments in Fixed Assets of Legal Entities (INV-P form).

The 2014 INV-P form was revised with regard to the previous years and partially adjusted in order to be harmonized with the revised international statistical standards and methodologies, the European System of Accounts (ESA 2010) and the United Nations System of National Accounts (SNA 2008).

Coverage and comparability

As of 2013, the survey covers the following legal entities:

- Large and medium-sized enterprises, financial and insurance institutions, budget beneficiaries
- Small enterprises selected by using judgemental sampling method, based on the value of fixed assets
- Non-profit organizations – major investors.

For 2014, 2015 and 2016, the reporting units selected by means of judgemental sampling were legal entities. Data source for the sample formation are the data collected and analysed from the annual and quarterly financial reports supplied by the Financial Agency (Fina).

Owing to the use of judgmental sampling method, as well as owing to the changes regarding the selection of elements of the basic sample set and revision of the form, the data dating from 2014 are not entirely comparable with data for the previous years.

Survey data have been grouped according to two principles. The first one is the organisational principle (according to the registered office and main activity of the investor), while the second one is the principle of kind-of-activity and territory (according to the location and purpose of the investment facility). Data are analysed according to the National Classification of Activities, 2007 version (NCA 2007).

Definitions and explanations

Gross investments in new and existing fixed assets represent the total realised investments in tangible and intangible fixed assets of domestic or international origin, and fixed assets owned and acquired under financial leasing conditions. Realised investments include construction works and asset acquisitions during the reference year, regardless of whether they have been completed and paid for.

Gross investment in new fixed assets is a part of realised investment. It pertains to construction and acquiring of domestic and foreign fixed assets, significant improvements of existing fixed assets and used fixed assets imported during the reporting year which is treated as new because it increases the national wealth of the country.

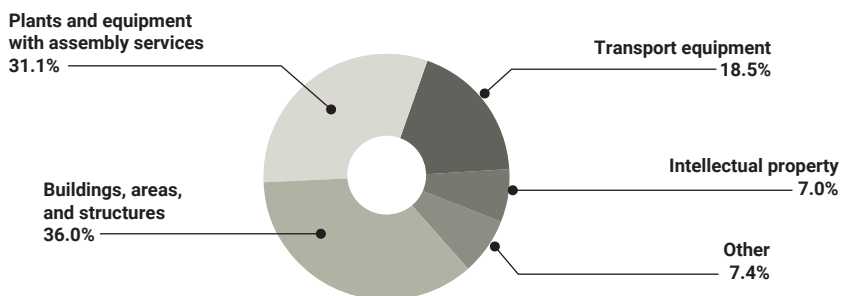
9.1 Realised investments in fixed assets

Thousands of HRK

	2014	2015	2016
Total	26 625 502	25 078 833	24 830 422
Investments in new fixed assets	23 291 397	22 828 609	22 924 846
In existing fixed assets	3 334 105	2 250 224	1 905 576

Source: CBS

G 9.1 Realised investments in fixed assets by type of assets in 2016



9.2 Realised investments in fixed assets by type of assets, location of investors, and activity of investors

Thousands of HRK

Investor's activity by NCA 2007		Total	Buildings, areas, and structures	Plants and equipment with assembly services	Transport equipment	Intellectual property	Other
2014		26 625 502	11 530 779	7 415 869	4 135 346	1 277 485	2 266 023
2015		25 078 833	9 765 159	7 782 264	4 207 516	1 354 658	1 969 236
2016 Total		22 924 846	8 306 627	7 624 126	4 172 510	1 738 276	1 083 307
A	Agriculture, forestry, and fishing	553 880	64 627	86 051	7 548	119	395 535
B	Mining and quarrying	1 170 299	315 571	830 703	2 417	20 405	1 203
C	Manufacturing	1 244 695	219 206	854 672	41 969	52 228	76 620
D	Electricity, gas, steam, and air conditioning supply	2 574 846	1 220 083	1 215 904	52 743	58 272	27 844
E	Water supply; sewerage, waste management, and remediation activities	237 998	125 496	39 147	3 896	1 263	68 196
F	Construction	1 457 626	1 269 644	85 868	40 241	8 156	53 717
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	1 808 915	602 502	803 384	170 863	169 963	62 203
H	Transportation and storage	1 598 011	682 119	318 054	543 243	31 213	23 382
I	Accommodation and food service activities	438 739	339 464	86 097	2 231	1 945	9 002
J	Information and communication	2 978 313	545 259	1 444 673	17 398	872 454	98 529
K	Financial and insurance activities	2 549 592	114 777	393 071	1 622 895	387 899	30 950
L	Real estate activities	792 983	738 326	40 334	6 110	1 451	6 762
M	Professional, scientific, and technical activities	458 086	153 715	242 096	11 435	25 580	25 260
N	Administrative and support service activities	1 195 970	81 659	80 122	1 004 767	6 406	23 016
O	Public administration and defence; compulsory social security	3 208 807	1 683 121	671 498	619 724	74 715	159 749
P	Education	117 737	31 229	78 417	3 669	2 825	1 597
Q	Human health and social work activities	194 554	48 104	132 128	5 315	4 768	4 239
R	Arts, entertainment, and recreation	312 162	66 955	207 335	6 756	17 109	14 007
S	Other service activities	31 633	4 770	14 572	9 290	1 505	1 496

Source: CBS

9.3 Payments for investments in fixed assets by main sources of funding

Thousands of HRK

Investor's activity by NCA 2007		Total	Own funds	Joint ventures (national and international)	Financial loans and leases	EU funds	Assets available from funds and budget	Other
2014		26 625 502	13 125 230	180 624	7 987 838	298 714	3 568 780	1 464 316
2015		25 078 833	13 640 046	238 811	5 595 115	1 363 626	2 784 663	1 456 572
2016 Total		24 830 422	13 588 227	299 240	5 291 020	1 154 965	3 067 676	1 429 294
A	Agriculture, forestry, and fishing	563 257	253 129	-	60 237	11 497	-	238 394
B	Mining and quarrying	1 170 424	1 170 424	-	-	-	-	-
C	Manufacturing	1 371 053	1 105 100	-	206 233	24 359	10 237	25 124
D	Electricity, gas, steam, and air conditioning supply	2 581 419	1 943 606	69 381	220 205	-	74	348 153
E	Water supply; sewerage, waste management, and remediation activities	244 641	122 332	22 539	1 547	2 008	84 998	11 217
F	Construction	1 631 269	248 594	4 231	305 809	122 004	940 328	10 303
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	2 295 543	2 109 339	-	157 223	5 547	242	23 192
H	Transportation and storage	1 643 766	942 414	432	458 339	181 749	53 145	7 687
I	Accommodation and food service activities	456 467	133 068	5 955	20 043	217 287	78 711	1 403
J	Information and communication	3 012 382	2 738 589	8 637	144 081	15	51 216	69 844
K	Financial and insurance activities	2 822 927	1 340 566	-	1 433 525	695	340	47 801
L	Real estate activities	1 114 252	417 775	140 481	450 175	-	81 838	23 983
M	Professional, scientific, and technical activities	557 083	258 128	1 066	231 273	25 046	30 667	10 903
N	Administrative and support service activities	1 304 274	298 353	-	1 005 921	-	-	-
O	Public administration and defence; compulsory social security	3 379 203	74 904	28 879	574 607	515 848	1 616 201	568 764
P	Education	126 933	52 796	86	9 316	5 580	40 163	18 992
Q	Human health and social work activities	195 459	113 403	-	106	10 141	61 123	10 686
R	Arts, entertainment, and recreation	324 029	240 113	17 553	12 380	32 556	16 117	5 310
S	Other service activities	36 041	25 594	-	-	633	2 276	7 538

Source: CBS

9.4 Realised investments in new fixed assets in the area of the City of Zagreb by type of assets, location of investors, and activity of investors in 2016

Thousands of HRK

Investor's activity		Purpose of investment						
		Total	Agriculture, forestry, and fishing	Mining and quarrying	Manufacturing	Electricity, gas, steam, and air conditioning supply	Water supply; sewerage, waste management, and remediation activities	Construction
Total		22 924 846	547 828	801 612	1 919 920	2 729 763	868 938	1 640 192
A	Agriculture, forestry, and fishing	553 880	539 153	-	14 153	-	-	-
B	Mining and quarrying	1 170 299	-	678 619	418 114	-	-	405
C	Manufacturing	1 244 695	-	4 615	1 224 221	480	-	399
D	Electricity, gas, steam, and air conditioning supply	2 574 846	-	-	-	2 574 846	-	-
E	Water supply; sewerage, waste management, and remediation activities	237 998	-	-	-	-	237 998	-
F	Construction	1 457 626	3 892	-	134	-	-	1 389 161
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	1 808 915	4 768	1 635	259 351	-	323	903
H	Transportation and storage	1 598 011	-	116 689	-	-	5 823	27 275
I	Accommodation and food service activities	438 739	-	-	-	-	-	-
J	Information and communication	2 978 313	-	-	-	-	-	-
K	Financial and insurance activities	2 549 592	-	-	-	-	-	-
L	Real estate activities	792 983	-	-	-	284	-	2 755
M	Professional, scientific, and technical activities	458 086	-	-	3 947	153 780	23 838	17 792
N	Administrative and support service activities	1 195 970	15	-	-	-	-	-
O	Public administration and defence; compulsory social security	3 208 807	-	54	-	373	600 956	201 502
P	Education	117 737	-	-	-	-	-	-
Q	Human health and social work activities	194 554	-	-	-	-	-	-
R	Arts, entertainment, and recreation	312 162	-	-	-	-	-	-
S	Other service activities	31 633	-	-	-	-	-	-

Source: CBS

9.4 Realised investments in new fixed assets in the area of the City of Zagreb by type of assets, location of investors, and activity of investors in 2016

(Continued)

Thousands of HRK

Investor's activity		Purpose of investment						
		Wholesale and retail trade; repair of motor vehicles and motorcycles	Transportation and storage	Accommodation and food service activities	Information and communication	Financial and insurance activities	Real estate activities	Professional, scientific, and technical activities
		G	H	I	J	K	L	M
Total		1 641 981	1 433 348	575 457	3 024 915	2 526 650	939 314	178 125
A	Agriculture, forestry, and fishing	-	437	-	-	-	-	-
B	Mining and quarrying	72 993	-	-	-	-	-	-
C	Processing industry	4 974	-	881	6 752	-	1 159	685
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management, and remediation activities	-	-	-	-	-	-	-
F	Construction	-	-	8 029	-	-	45 380	1 175
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	1 519 349	888	4 081	10 973	-	5 626	830
H	Transportation and storage	-	1 432 001	-	246	-	1 312	3 587
I	Accommodation and food service activities	116	-	438 557	-	-	-	66
J	Information and communication	-	-	-	2 978 313	-	-	-
K	Financial and insurance activities	4 225	-	-	13 781	2 526 650	4 196	-
L	Real estate activities	26 057	-	75 746	-	-	683 934	1 118
M	Professional, scientific, and technical activities	14 081	-	44 962	-	-	26 051	166 485
N	Administrative and support service activities	186	22	3 201	-	-	4	232
O	Public administration and defence; compulsory social security	-	-	-	14 841	-	171 614	3 769
P	Education	-	-	-	-	-	-	178
Q	Human health and social welfare activities	-	-	-	-	-	-	-
R	Arts, entertainment, and recreation	-	-	-	-	-	-	-
S	Other service activities	-	-	-	9	-	38	-

Source: CBS

9.4 Realised investments in new fixed assets in the area of the City of Zagreb by type of assets, location of investors, and activity of investors in 2016

(Continued)

Thousands of HRK

Investor's activity		Purpose of investment							
		Administrative and support service activities	Public administration and defence; compulsory social	Education	Human health and social work activities	Arts, entertainment, and recreation	Other service activities	Activities of house-holds as employers; undifferentiated goods – and services – producing activities of households for own use	Activities of extraterritorial organizations and bodies
		N	O	P	Q	R	S	T	U
Total		1 217 316	1 639 484	296 016	556 187	344 664	43 136	-	-
A	Agriculture, forestry, and fishing	137	-	-	-	-	-	-	-
B	Mining and quarrying	168	-	-	-	-	-	-	-
C	Manufacturing	-	-	-	-	529	-	-	-
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management, and remediation activities	-	-	-	-	-	-	-	-
F	Construction	-	-	-	-	9 855	-	-	-
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	188	-	-	-	-	-	-	-
H	Transportation and storage	7 975	-	-	-	1 510	1 593	-	-
I	Accommodation and food service activities	-	-	-	-	-	-	-	-
J	Information and communication	-	-	-	-	-	-	-	-
K	Financial and insurance activities	207	-	-	-	533	-	-	-
L	Real estate activities	3 026	-	-	-	63	-	-	-
M	Professional, scientific, and technical activities	-	-	-	7 150	-	-	-	-
N	Administrative and support service activities	1 192 310	-	-	-	-	-	-	-
O	Public administration and defence; compulsory social security	13 305	1 638 867	178 845	354 483	20 433	9 765	-	-
P	Education	-	617	116 942	-	-	-	-	-
Q	Human health and social work activities	-	-	-	194 554	-	-	-	-
R	Arts, entertainment, and recreation	-	-	229	-	311 741	192	-	-
S	Other service activities	-	-	-	-	-	31 586	-	-

Source: CBS



10

Budget of the City of Zagreb



NOTES ON METHODOLOGY

Source and method of data collection

Data on the budget of the City of Zagreb were taken from the Official Journal of the City of Zagreb 15/15, 07/16 and 17/17.

Definitions and explanations

City budget is the realization of annual revenues and receipts, and the execution of disbursements and other payments by the City. The City budget is adopted by the City Assembly, and its beneficiaries are the administrative bodies of the City of Zagreb (offices, bureaus and services) and other users who receive funds from the budget.

The City budget comprises three parts. The first, general part includes the statement of revenue and expenditure, and the financing statement. The second, special part classifies expenditures and expenses of financing according to type, organisational unit and their beneficiaries, and it distinguishes them according to the programmes which consist of project activities. The third part, i.e. the plan of development programmes, contains the objectives and priorities of the City's development that are related to the programme and organisational classification of the budget.

Statement of revenue and expenditure shows collected and spent funds throughout a year. In the financing statement, records are made on the use of surplus in cases when the revenues are greater than expenditures, as well as on the manner in which the funding gap is financed if the expenditure is greater than the revenue.

The City budget is adopted based on the Accounting Act (OG87/08, 136/12 and 15/15), the annual Economic and Fiscal Policy Guidelines issued by the Government, and the Instructions of the Ministry of Finance for drawing up budgets of local and regional self-governments units.

When compared to 2015, a significant increase of revenues and expenditure in 2016 was a result of the statutory obligation to include own and earmarked revenues of all City budget beneficiaries in the budget, as well as expenditures financed from these expenses. Therefore, this change pertained to methodology of the scope of City budget that resulted in increase of revenues and expenditure.

The City budget for 2016 comprises revenues and expenditure for all 324 City budget beneficiaries, i.e. institutions that were established by the City of Zagreb, that are largely financed by the City, and that are listed in the Register of budget beneficiaries and extra-budgetary users. The companies established by the City of Zagreb to carry out public services and activities of public interest (e.g. Zagreb Holding) are not budget beneficiaries, so their revenues and expenditures are not presented in the City budget.

Budget beneficiaries include public health institutions (health centres, polyclinics, hospitals and institutes), pre-schools, primary and secondary schools, social welfare institutions, fire departments, City Bureau for Physical Planning, Public Institution Maksimir, the Zoo, and the Sports Facilities Management Institution.

10.1 City budget revenue

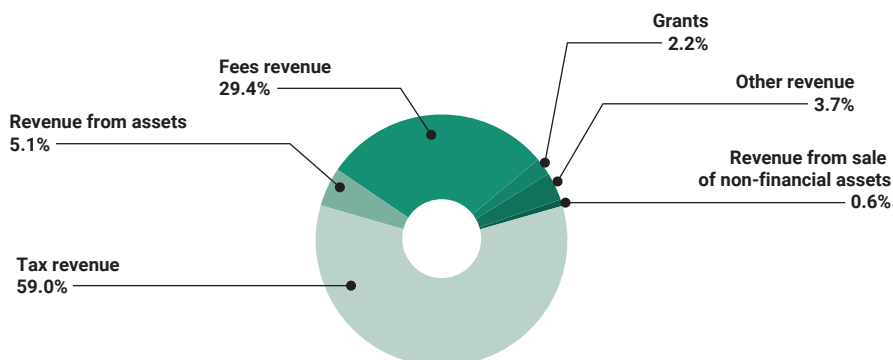
Thousands of HRK

	2014	2015	2016	Indices	
				I – XII 2015 I – XII 2014	I – XII 2016 I – XII 2015
Total revenue	6 649 133	6 204 867	8 169 749	93.3	131.7
Business revenue	6 606 646	6 159 817	8 118 020	93.2	131.8
Tax revenue	5 030 214	4 543 313	4 825 406	90.3	106.2
Tax and surtax on income	4 751 446	4 281 412	4 528 495	90.1	105.8
Property tax	151 529	135 722	171 229	89.6	126.2
Tax on goods and services	127 239	126 179	125 682	99.2	99.6
Grants	115 493	150 593	175 677	130.4	116.7
Revenue from assets	439 539	410 257	415 291	93.3	101.2
Revenue from financial assets	7 283	8 167	7 058	112.1	86.4
Revenue from non-financial assets	423 927	401 322	407 975	94.7	101.7
Revenue from interests on granted loans	8 329	768	258	9.2	33.6
Revenue from management and administrative fees, fees on special regulations and charges	942 157	970 817	2 397 891	103.0	247.0
Management and administrative fees	47 135	47 104	49 597	99.9	105.3
Revenue from special regulations	95 347	101 013	499 843	105.9	494.8
Communal contributions and fees	799 675	822 700	831 563	102.9	101.1
Revenue from applicable budget under contractual obligations	-	-	1 016 888	-	-
Other revenue	79 243	84 837	303 755	107.1	358.0
Revenue from sale of non-financial assets	42 487	45 050	51 729	106.0	114.8
Revenue from sales of non-produced non-financial assets	15 122	17 549	22 294	116.0	127.0
Revenue from sales of non-financial assets – natural resources	14 875	17 085	21 345	114.9	124.9
Revenue from sales of non-financial assets	247	464	949	187.9	204.5
Revenue from sales of produced fixed assets	27 365	27 501	29 435	100.5	107.0
Revenue from sales of buildings	27 362	27 496	28 830	100.5	104.9
Other revenue from sales of machinery and equipment	3	5	312	166.7	- ¹⁾
Revenue from sales of means of transportation	-	-	293	-	-

¹⁾ Index greater than 999.9.

Source: Official Gazette of the City of Zagreb 15/15, 07/16, and 17/17; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 10.1 Structure of City budget revenue in 2016



10.2 City budget expenditures

Thousands of HRK

	2014	2015	2016	Indices	
				I – XII 2015 I – XII 2014	I – XII 2016 I – XII 2015
Total expenditures	6 636 081	6 085 616	8 168 401	91.7	134.2
Business expenditures	5 945 517	5 756 652	7 582 700	96.8	131.7
Employee expenses	1 502 495	1 511 640	2 542 695	100.6	168.2
Material expenditures	2 340 025	2 264 751	3 021 186	96.8	133.4
Financial expenses	127 942	117 371	106 907	91.7	91.1
Subsidies	723 873	632 563	650 627	87.4	102.9
Grants	55 499	56 116	78 665	101.1	140.2
Compensation to citizens and households based on insurance and other compensations	478 082	474 031	441 657	99.2	93.2
Other expenses	717 601	700 180	740 963	97.6	105.8
Expenses for acquisition of non-financial assets	690 564	328 964	585 701	47.6	178.0
Expenses for acquisition of non-produced assets	25 377	18 468	21 410	72.8	115.9
Expenses for acquisition of produced fixed assets	608 678	280 263	498 856	46.0	178.0
Expenses for purchase of precious metals and other valuables	-	-	76	-	-
Expenses for additional investments in nonfinancial assets	56 509	30 233	65 359	53.5	216.2

Source: Official Gazette of the City of Zagreb, 15/15, 07/16 and 17/17; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

10.3 Financing account

Thousands of HRK

	2014	2015	2016	Indices	
				I – XII 2015 I – XII 2014	I – XII 2016 I – XII 2015
Earnings from financial assets and borrowings	197 571	194 401	221 302	98.4	113.8
Received payments (returns) of the principal for the loans granted	7 358	1 110	4 435	15.1	399.5
Earnings from sale of shares and interests in the principal	213	733	358	344.1	48.8
Earnings from borrowing	190 000	192 558	216 509	101.3	112.4
Expenses for financial assets and loan repayments	222 084	272 810	282 824	122.8	103.7
Expenses for investments into securities	-	2 070	-	-	-
Expenses for granted loans	2 411	-	23 371	-	-
Expenses for repayment of principals of received loans and credits	219 661	238 882	259 410	108.8	108.6
Expenses for stocks and shares in the principal	12	31 858	43	- ¹⁾	0.1
Net borrowing/financing	-24 513	-78 409	-61 522	319.9	78.5

¹⁾ Index higher than 999.9.

Source: Official Gazette of the City of Zagreb, 15/15, 07/16 and 17/17; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

11

Agriculture and forestry



NOTES ON METHODOLOGY

Source of data

Data on agriculture are collected directly from the Paying Agency for Agriculture, Fisheries and Rural Development, the Croatian Agricultural Agency, the City Office for Agriculture and Forestry of the City of Zagreb, and the Croatian Bureau of Statistics. Sources of data on forestry (state forests) include the Forestry Directorate – Zagreb Branch Office of the public company Croatian Forest Management Company Ltd., and Faculty of Forestry in Zagreb – Department of Training and Forest Research Centres. With regard to privately owned forests, data are collected from the Advisory Service.

In accordance with the Conclusion on the Implementation of the project "City Gardens" of 4 April 2013 (Official Gazette of the City of Zagreb 9/13 and 25/13), a project titled "City Gardens" was launched for designing and equipping of arable land owned by the City of Zagreb. Aim of the project is to give part of arable land (plot of garden) to the citizens of Zagreb, for production of food (vegetables and berries), herbs and flowers for citizens' own needs.

Coverage and comparability

Data collected include all business entities operating in the field of agriculture and forestry.

Definitions and explanations

Register of Agricultural Holdings is a database containing data on agricultural holdings and their resources. In order to be registered in the Register of Agricultural Holdings, an agricultural holding has to own agricultural resources (agricultural land and/or livestock) and carry out agricultural activities that include plant cultivation, livestock breeding and accompanying service activities.

Arkod is a digital record on the use of agricultural land. It is an integral part of an integrated administrative and control system by virtue of which EU member countries assign, monitor and control direct payments.

Arkod parcel is a continuous area of agricultural land that is cultivated by only one agricultural holding. It is classified according to the type of land use. Data from the ARKOD database and the Register of Agricultural Holdings were collected and analysed according to the farmer's headquarters.

Agricultural holding is a production and economic unit engaged in agricultural production. It operates as a company, a craft or a co-operative, provided that it is registered for carrying out agricultural activities, or as a private family farm.

Private family farm is an economic unit engaged in agricultural production, irrespective of its purpose or whether its products are intended for sale on the market or only for personal consumption.

Number of animals pertains to the total number of animals of all categories, according to species. Data on cattle, equidae, sheep and goats are updated every day, based on animal marking and reported circulation. The number of pigs is based on data specified in the Annual Report on the Number of Pigs, which is submitted by the pig keepers in December, for the purpose of the Register of Domestic Animals kept by the Croatian Agricultural Agency.

Organic holdings are agricultural holdings with a label as defined in the Council Regulation (EC) No. 834/2007 of 28 June 2007 on organic production and labelling of organic products, as well as in the Ordinance on Organic Production (Official Gazette 19/16).

Forest is an area covered with forest trees that form a forest stand, on a surface area of more than ten acres (Official Gazette 140/05).

Surface areas of forest land and forest are presented based on valid forest management plans, which are updated regularly, that is, every ten years. As of 2008, the data pertains to the City of Zagreb.

Gross volume of harvested timber encompasses fallen logs (of non-coniferous and coniferous wood), mining timber (of non-coniferous and coniferous wood), other long timber (of non-coniferous and coniferous wood), cord (of non-coniferous and coniferous wood), firewood (of non-coniferous and coniferous wood) as well as other roughly processed wood. Wood waste and loss resulting from cutting is also included in the gross volume of harvested timber. Data for the relevant table have been obtained based on the net volume of produced wood, multiplied by the planned waste.

Firewood (of non-coniferous and coniferous wood) is used directly as fuel or for production of charcoal. This type of wood is used due to its heating power. Therefore, the level of firewood dryness, dimension and the way of stacking is very important. There are two types of firewood: hardwood (beech, hornbeam, oak) and softwood (birch, poplar, willow and alder).

Industrial wood (of non-coniferous and coniferous wood) includes all kinds of wood suitable for mechanical processing, such as logs (sawlogs and veneer logs), mining timber, transmission-line and telephone-line pylon, other long timber, oval timber, and alike.

Mining timber (of non-coniferous and coniferous wood) has different technical purposes due to its very good physical and chemical properties. It is used for construction and maintaining of pits and shafts, i.e. for construction underground and on the surface.

Logs (of non-coniferous and coniferous wood) are parts of tree trunks intended for further processing by sawing, sometimes by cutting and peeling, owing to their good physical and chemical properties. Logs are intended to be industrially processed. The term logs includes logs for cutting, veneer logs and logs for peeling.

Pulpwood includes oval and cut coniferous wood, beech and soft-leaved trees. It is used for production of cellulose and artificial fibres.

Other industrial wood (roughly processed timber) pertains to small technical wood suitable for production of wooden poles and spears, various laths and pillars for fences, handles for various tools and similar. This type of wood is made from stump flanges, sweet chestnut, oak, ash-tree, cherry, sour cherry and other, all of which are cut down during winter.

11.1 Agricultural areas in the Land Parcel Identification System (LPIS) by type of use

	2014		2015		2016	
	Plots		Plots		Plots	
	Area, ha	Number	Area, ha	Number	Area, ha	Number
Total	6 400	17 668	7 235	17 064	7 336	17 230
Arable land	4 398	10 121	5 040	10 011	5 108	10 189
Greenhouses	39	353	42	365	39	390
Meadows	1 536	4 303	1 693	4 081	1 713	3 982
Grazing land	49	107	70	94	82	130
Vineyards	107	1 082	108	1 074	101	1 015
Orchards	241	1 521	245	1 298	258	1 384
Plant nurseries	-	-	8	2	11	9
Permanent cropland, mixed crops	16	130	14	92	12	82
Other types of land	14	51	15	47	12	49

Source: Paying Agency for Agriculture, Fisheries, and Rural Development

11.2 Number of domestic animals

	2014	2015	2016
Cattle			
Number of heads	3 353	3 336	3 030
Number of farms	549	501	479
Average number of livestock per farm	6.1	6.7	6.3
Pigs			
Number of heads	3 021	9 680	9 522
Number of farms	118	1 081	1 064
Average number of livestock per farm	25.6	9.0	8.9
Sheep			
Number of heads	1 633	1 713	2 461
Number of farms	46	55	68
Average number of livestock per farm	35.5	31.1	36.2
Goats			
Number of heads	323	387	473
Number of farms	40	52	62
Average number of livestock per farm	8.1	7.4	7.6
Horses			
Number of heads	476	615	559
Number of farms	82	99	101
Average number of livestock per farm	5.8	6.2	5.5

Source: Croatian Agricultural Agency

11.3 Allotment gardens

City garden name	City district	2014		2015		2016		Urban garden area, m ²
		Number of garden allotments	Number of users of garden allotments	Number of garden allotments	Number of users of garden allotments	Number of garden allotments	Number of users of garden allotments	
Total	7	1 889	1 493	2 017	1 686	2 081	1 780	222 098
Savica	Trnje	62	62	62	62	62	62	20 000
Dubrava	Maksimir	-	-	129	118	129	129	11 500
Borovje I.	Peščenica – Žitnjak	92	92	90	90	90	90	14 264
Borovje II.	Peščenica – Žitnjak	589	193	589	269	589	288	48 719
Sopot I.	Novi Zagreb – east	226	226	227	227	227	227	24 865
Sopot II.	Novi Zagreb – east	66	66	65	65	65	65	6 395
Sloboština	Novi Zagreb – east	33	33	33	33	33	33	2 840
Klara I.	Novi Zagreb – west	118	118	118	118	118	118	18 800
Klara II.	Novi Zagreb – west	-	-	-	-	64	64	5 345
Stenjevec	Stenjevec	478	478	478	478	478	478	47 700
Prečko	Stenjevec	59	59	59	59	59	59	5 450
Sesvete – Senjska Street	Sesvete	102	102	102	102	102	102	10 250
Sesvete – Rimski Road	Sesvete	64	64	65	65	65	65	5 970

Source: City Office for Agriculture and Forestry

11.4 Ecological agriculture

2016	
Organic holdings – total	184
Agricultural producers	153
Agricultural processors	31
Area of ecologically used agricultural land by categories – total, ha	1 660
Arable land and gardens	1 311
Permanent grassland	156
Permanent cropland (no strawberries)	193
Ecological production of used agricultural land, t	
Grains	1 599
Industrial plants	639
Silage	1 276
Vineyards	168
Number of ecologically bred livestock by species	
Cattle	234
Pigs	...
Sheep	58
Goats	52

Source: Ministry of Agriculture and CBS

11.5 Area of forest land

ha

	Forest land by ownership, status as of 31 December								
	2014			2015			2016		
	Total	State-owned forests	Private forests	Total	State-owned forests	Private forests	Total	State-owned forests	Private forests
Forest land – total	19 918	10 241	9 677	19 918	10 241	9 677	19 918	10 241	9 677
Forests – total	19 515	9 838	9 677	19 515	9 838	9 677	19 515	9 838	9 677
Non-coniferous wood	16 257	8 354	7 903	16 257	8 354	7 903	16 257	8 354	7 903
Common beech	3 426	2 642	784	3 426	2 642	784	3 426	2 642	784
Common oak	3 153	2 525	628	3 153	2 525	628	3 153	2 525	628
Sessile oak	3 831	2 274	1 557	3 831	2 274	1 557	3 831	2 274	1 557
Downy oak	-	-	-	-	-	-	-	-	-
Holm oak	-	-	-	-	-	-	-	-	-
Turkey oak	1	1	-	1	1	-	1	1	-

11.5 Area of forest land

(Continued)

ha

	Forest land by ownership, status as of 31 December								
	2014			2015			2016		
	Total	State-owned forests	Private forests	Total	State-owned forests	Private forests	Total	State-owned forests	Private forests
Narrow-leaved ash	71	42	29	71	42	29	71	42	29
Common hornbeam	279	183	96	279	183	96	279	183	96
Other hardwood	5 070	338	4 732	5 070	338	4 732	5 070	338	4 732
Black alder	124	105	19	124	105	19	124	105	19
Poplar and willow plantations	253	243	10	253	243	10	253	243	10
Other non-coniferous softwood	49	1	48	49	1	48	49	1	48
Coniferous wood	3 194	1 442	1 752	3 194	1 442	1 752	3 194	1 442	1 752
Fir with beach (mixed)	1 216	1 203	13	1 216	1 203	13	1 216	1 203	13
Ordinary spruce	57	57	-	57	57	-	57	57	-
Silver fir	-	-	-	-	-	-	-	-	-
Black pine	36	36	-	36	36	-	36	36	-
Other coniferous wood	1 885	146	1 739	1 885	146	1 739	1 885	146	1 739
Degraded forest stands	64	42	22	64	42	22	64	42	22
Other forest land – total	266	266	-	267	267	-	267	267	-
Bare land:									
Production (clearings, rocky terrain, etc.)	118	118	-	119	119	-	119	119	-
Non-production (clearcuts, sods, plan, etc.)	148	148	-	148	148	-	148	148	-
Barren land – total (forest roads, waterways, canals etc.)	137	137	-	136	136	-	136	136	-

Source: Croatian Forest Management Company, Forest Administration, subsidiary Zagreb; Faculty of Forestry – Department of Training and Forest Research Centres and Croatian Advisory Service; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

11.6 Forests by purpose

ha

	Forests by ownership, status 31 December					
	Total		State-owned forests		Private forests	
	2013	2016	2013	2016	2013	2016
Forests – total	18 350	19 515	8 745	9 838	9 605	9 677
For economic purposes	11 014	11 354	3 819	4 095	7 195	7 259
Protection forests	-	91	-	91	-	-
Special-purpose forests	7 336	8 070	4 926	5 652	2 410	2 418
Forests and parts of forests intended for production of forest seed	-	-	-	-	-	-
Protected areas	7 336	7 038	4 926	4 620	2 410	2 418
Forests intended for scientific research, teaching, and defence of the Republic of Croatia	-	1 032	-	1 032	-	-

Source: Croatian Forest Management Company, Forest Administration, subsidiary Zagreb; Faculty of Forestry – Department of Training and Forest Research Centres and Croatian Advisory Service; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

11.7 Gross volume of harvested timber

m³

	2013	2014	2015	2016
Total	71 945	87 686	73 910	68 202
Hardwood	64 656	78 158	65 148	56 692
Oak	29 590	33 426	25 099	23 749
Beech	26 406	32 406	25 855	23 287
Poplar	434	25	2	-
Other softwood	8 226	12 301	14 192	9 656
Softwood	7 289	9 528	8 762	11 510
Fir, spruce, and Douglas fir	6 328	6 307	6 178	7 628
Pine and larch	785	2 892	1 384	2 470
Other softwood	176	329	1 200	1 412

Source: Croatian Forest Management Company, Forest Administration, subsidiary Zagreb; Faculty of Forestry – Department of Training and Forest Research Centres and Croatian Advisory Service; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

11.8 Production of forest products by ownership ¹⁾

m³

	2015			2016			Indices 2016/2015		
	Total	State forests	Private forests	Total	State forests	Private forests	Total	State forests	Private forests
Total amount of harvested wood	62 178	59 280	2 898	57 184	54 511	2 673	92.0	92.0	92.2
Coniferous wood	7 551	7 522	29	9 865	9 865	-	130.6	131.1	-
Non-coniferous wood	54 627	51 758	2 869	47 319	44 646	2 673	86.6	86.3	93.2
Firewood	32 043	31 483	560	27 140	26 632	508	84.7	84.6	90.7
Coniferous wood	2 161	2 132	29	2 423	2 423	-	112.1	113.6	-
Non-coniferous wood	29 882	29 351	531	24 717	24 209	508	82.7	82.5	95.7
Industrial wood	30 135	27 797	2 338	30 044	27 879	2 165	99.7	100.3	92.6
Coniferous wood	5 390	5 390	-	7 442	7 442	-	138.1	138.1	-
Non-coniferous wood	24 745	22 407	2 338	22 602	20 437	2 165	91.3	91.2	92.6
Logs (sawlog and veneer)	28 220	25 984	2 236	28 425	26 260	2 165	100.7	101.1	96.8
Coniferous wood	4 917	4 917	-	6 847	6 847	-	139.3	139.3	-
Non-coniferous wood	23 303	21 067	2 236	21 578	19 413	2 165	92.6	92.1	96.8
Pulpwood	102	-	102	-	-	-	-	-	-
Coniferous wood	-	-	-	-	-	-	-	-	-
Non-coniferous wood	102	-	102	-	-	-	-	-	-
Other industrial wood	1 813	1 813	-	1 619	1 619	-	89.3	89.3	-
Coniferous wood	473	473	-	595	595	-	125.8	125.8	-
Non-coniferous wood	1 340	1 340	-	1 024	1 024	-	76.4	76.4	-

¹⁾ Forest products are presented according to the codes from the Classification of Products by Activity in the Republic of Croatia – CPA 2008 (Official Gazette 108/08).

Source: Croatian Forest Management Company, Forest Administration, subsidiary Zagreb; Faculty of Forestry – Department of Training and Forest Research Centres and Croatian Advisory Service; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics



12

Industry



NOTES ON METHODOLOGY

Sources of data

Data on the production of manufactured goods and export (PRODCOM) were obtained from the Croatian Bureau of Statistics, which collects data through a statistical electronic form known as the PRODCOM Annual Survey on Industrial Production.

Reporting units for PRODCOM survey are companies and other legal entities, tradesmen and parts thereof employing ten or more persons engaged in industrial production or services (their own or by agreement). These services are classified into industrial activities according to the National Classification of Activities of 2007 (Official Gazette 58/07 and 72/07). The activities are divided into sections as follows: B Mining and quarrying, C Manufacturing, D Electricity, gas, steam and air conditioning supply, and E Water supply, sewerage waste management and remediation activities (division 36 only), as well as into divisions 05-36 of activities of the 2007 National Classification of Activities. Reporting units are also those companies, other legal entities and tradesmen that do not belong to the field of industry, but the parts of which carry out industrial activities.

Coverage and comparability

The subject of the PRODCOM survey is the total quantity and value of industrial products sold, i.e. the invoiced value of the total produced and sold industrial products defined by the Nomenclature of Industrial Products (NIP), and the reported quantities and values of the products sold for export or sold by the statistical unit abroad (export).

Definitions and explanations

PRODCOM result is the result of some activity of industrial production and it is used as a general name for products having a physical dimension, and for industrial services. According to the PRODCOM survey concept, PRODCOM result is defined by the Nomenclature of Industrial Products (NIP), which is the national version of the PRODCOM EU List.

Final product is any product that reached an adequate level of processing or completion in the production process and is therefore listed under a special code and name in the Nomenclature of Industrial Products. The term final product also includes all finishing operations such as cleaning, packaging, quality testing, lamination and alike.

Value of PRODCOM production sold is calculated based on the sales price that the producer has obtained or will obtain in the reporting period (invoiced value).

12.1 Value of sold industrial products and export (PRODCOM) by production NCA 2007 activities, divisions, and sections

Thousands of HRK

		Value of sold industrial products					
		2014		2015		2016	
		Total	of which abroad	Total	of which abroad	Total	of which abroad
Total		25 114 787*	9 529 683*	26 952 646*	10 365 245*	26 742 789	11 171 942
B	Mining and quarrying	159 480	-	184 848	38 679	118 362	3 704
	08 Other mining and quarrying	2 467	-	10 940	-	4 518	-
	09 Mining support service activities	157 013	-	173 908	38 679	113 844	3 704
C	Manufacturing	19 871 354*	9 115 756*	21 431 030*	9 677 428*	21 607 172	10 435 158
	10 Manufacture of food products	4 436 131*	819 473	4 534 039*	892 349	4 413 173	861 759
	11 Manufacture of beverages	1 774 067	217 982	1 867 400	218 816	1 957 104	257 162
	13 Manufacture of textiles	61 767*	22 998*	61 757*	21 218*	70 846	23 840
	14 Manufacture of apparel	157 204*	26 482*	146 311*	25 046*	127 084	18 661
	15 Manufacture of leather and related products	29 904*	6 812	33 943*	6 467	13 697	3 026
	16 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	223 939*	109 780	230 318*	108 235	283 255	145 305
	17 Manufacture of paper and paper products	794 343*	203 071	817 649*	291 325	799 577	266 815
	18 Printing and reproduction of recorded media	865 016*	48 917*	840 166*	68 399*	846 032	99 215
	19 Manufacture of coke and refined petroleum products	183 237	42 324	181 141	40 823	178 876	42 799
	20 Manufacture of chemicals and chemical products	493 035*	230 626*	492 561*	206 288*	484 245	200 154
	21 Manufacture of basic pharmaceutical products and pharmaceutical preparations	2 320 399	2 049 483	2 940 970	2 731 848	2 948 919	2 712 469
	22 Manufacture of rubber and plastic products	427 133*	225 602*	472 752*	279 913*	478 671	271 493

12.1 Value of sold industrial products and export (PRODCOM) by production NCA 2007 activities, divisions, and sections

(Continued)

Thousands of HRK

			Value of sold industrial products					
			2014		2015		2016	
			Total	of which abroad	Total	of which abroad	Total	of which abroad
23	Manufacture of other non-metallic mineral products		411 275*	145 464	291 973	88 234	329 132	122 728
24	Manufacture of basic metals		39 827*	10 483*	37 001	8 624	31 866	10 071
25	Manufacture of fabricated metal products, except machinery and equipment		496 613*	202 872*	668 645*	347 454*	601 009	297 559
26	Manufacture of computer, electronic, and optical products		904 248	540 356	859 358	435 343	818 077	452 256
27	Manufacture of electrical equipment		3 508 838	2 718 660	3 436 076	2 368 230	3 863 367	2 977 515
28	Manufacture of machinery and equipment n. e. c.		390 903*	310 863	284 645	192 987	380 699	264 914
29	Manufacture of motor vehicles, trailers, and semi-trailers		195 495	192 774	314 628	280 950	341 560	327 883
30	Manufacture of other transport equipment		78 987	18 355	684 348	18 727	251 557	19 895
31	Manufacture of furniture		235 981*	110 242*	273 751*	149 008*	212 819	109 161
32	Other manufacturing		130 899*	17 316	126 575*	8 136	147 760	7 688
33	Repair and installation of machinery and equipment		1 712 113	844 821	1 835 023	889 008	2 027 847	942 790
D	Electricity, gas, steam and air conditioning supply		4 741 743*	413 927	5 102 301	649 138	4 775 702	733 080
35	Electricity, gas, steam, and air conditioning supply		4 741 743*	413 927	5 102 301	649 138	4 775 702	733 080
E	Water supply; sewerage, waste management, and remediation activities		342 210	-	234 467	-	241 553	-
36	Water collection, treatment, and supply		342 210	-	234 467	-	241 553	-

Source: CBS



13

Construction



NOTES ON METHODOLOGY

Source and method of data collection

Data on construction were collected by virtue of the 2011 Census of Population and Housing, and the following statistical surveys: Annual Report on Construction Works, Annual Report on Completed Buildings and Apartments, Monthly Report on Issued Construction Permits and Quarterly Report on the Prices of New Sold Apartments.

The housing units included in the scope of the 2011 Census are dwellings, other housing units and collective dwellings.

Data on the value of construction works are collected from legal entities employing five or more persons, by virtue of the Annual Report on Construction Works (GRAD-12). Such data are based on payment certificates for completed works on individual structures in the reporting year.

Reporting units only report the works they have carried out with their own workers or subcontractors of other construction business entities.

Data on types of structures and works are classified according to the National Classification of Types of Constructions (NKVG) (Methodological Guidelines No. 41, ISBN 953-6667-33-9, Croatian Bureau of Statistics, 2002), which is harmonized with the classification provided by the Statistical Office of the European Union.

Value of completed construction works is shown in current prices; it does not include the price of subcontractors, value added tax, land acquisition costs, designing costs and costs of expert supervision of construction.

Monthly report on issued building permits is collected by means of a report, i.e. the form Monthly Report on issued building permits (GRAD-44a), which is obtained from the competent authorities for construction works of the City of Zagreb and the Ministry of Construction and Physical Planning. These institutions issue building permits for buildings specified in the Building Act (Official Gazette 153/13). Building permits for already constructed buildings were not included due to their legalization.

Data on constructed buildings and apartments are obtained based on the Annual Report on Completed Buildings and Apartments (GRAD-10), which is filed by enumerators (employees of the City Office responsible for construction works) based on field visits and determination of the completion status of buildings and apartments. The basis for field visits is the address book prepared based on the data on issued building permits for construction of buildings.

Annual Report on Completed Buildings and Apartments includes data on all newly completed buildings, parts added on existing buildings if new residential units (apartment) or new business premises have been built, as well as non-residential premises that have been converted into an apartment. The survey does not include data on illegally constructed facilities or legalized construction of buildings, apartments or rooms in collective dwellings.

Data on completed apartments pertain to apartments that were completed in the reporting year, regardless of the beginning of construction. Data source for the prices of new sold apartments is the regular statistical survey called the Quarterly Report on Prices of New Sold Apartments (GRAD-41 form). The report is filed by legal persons who are also the contractors for all construction works on apartment buildings, or who sell such apartments, regardless of whether they perform the works through their own company or specialized companies. According to the National Classification of Activities of 2007, the companies activity must be classified under section F – Construction. Data is provided based on performed contracts in the reporting period. Contracts are considered performed if the buyer paid full or at least one part of the price of the apartment within the relevant period (determined by the seller). Reporting units are construction companies that build and sell apartments. Data does not pertain to legal entities that solely intermediate in the sale of the existing housing stock, i.e. old apartments. In addition, the prices of apartments on which only rough construction work are carried out (Rohbau) are not included in the report.

Definitions of the 2011 Census

Dwelling is a part of a larger building designed for habitation, which consists of one or several rooms with or without appropriate auxiliary facilities (kitchen, pantry, hallway, bathroom, toilet, etc.). It has its own separate entrance directly from the hallway, staircase, yard or street.

Other housing units are rooms and premises that are not considered dwellings in terms of construction, but which were used for housing purposes at the time the Census was prepared. These may be premises in buildings, e.g. inhabited basement, storage, garage, occupied business premises (warehouse, office, hotel or hospital room) and some movable or immovable objects (e.g. wagon, wagon-lit, boat, tent, trailer, hut and similar).

Collective dwellings represent a set of rooms used for organized accommodation and habitation of larger groups of people or several households. These are, for example, retirement homes, nursing homes for children and youth, institutions for permanent care and accommodation of persons with psychophysical and other illnesses, monasteries, prisons, military institutions and alike.

Occupied dwellings are dwellings that were used for permanent residency or for housing and performing of an activity by one or more persons at the time of the Census.

Unoccupied dwellings are dwellings that were not used for permanent residency at the time of the Census. They include temporarily unoccupied dwellings, abandoned dwellings and dwellings in which only temporary present persons were recorded.

The following dwellings were listed as temporarily unoccupied dwellings: new, unoccupied dwellings, dwellings vacated due to change of residence or construction works, dwellings that are temporarily unoccupied because they are for rent or sale, and dwellings of households that live in other dwellings at the same or another address in the same or another settlement, which are not being used or rented.

Abandoned dwellings are dwellings that have not been used for a longer period of time because the owner has moved out to another place (or has relocated) and does not use the dwelling neither occasionally or for rent, or the owner died and the inheritors do not rent out the dwelling or use it occasionally (e.g. as a holiday home).

Dwellings used during seasonal agricultural works are housing premises that fit the definition of a dwelling but are used only during seasonal agricultural works (such as a farm house, shepherd's or vineyard cottage and alike).

Dwellings used for vacation and recreation by all standards fit the definition of a dwelling but are used only for vacation and recreation, occasionally or for several months in a year. This category does not include dwellings that are used exclusively for renting during the tourist season, but only those dwellings used by their owners for own needs.

Dwellings used for vacation and recreation may be in a separate house, villa and similar type of building constructed to be used only as a holiday house, or in (an inherited) family house or in a multi-storey building in which dwellings used for vacation may be located.

Apartments **in a holiday house** are apartments in buildings built or purchased to be used only for vacation and recreation (holiday houses, villas, summerhouses, mountain and hunting cottages).

Dwellings **in a family house** are dwellings that were previously used for accommodation of a household and that are now used occasionally, i.e. for vacation and recreation, because the household's owner or heir moved to another place.

Dwellings **in other types of building** are dwellings that are used only for vacation and recreation purposes (suites and smaller apartments) and that are located in multi-storey buildings, in which there may also be dwellings in which some households live throughout the year.

Dwellings where only business activity is carried out are dwellings that fit the definition of a dwelling but were used only for carrying out an activity at the time of the Census. In this regard, it is necessary to differentiate between dwellings for tourist renting and dwellings for performing other business activities.

Dwellings **for tourist renting** are dwellings (houses or apartments) that are privately owned by citizens and that are used only for renting to tourists.

Dwellings **for other activities** are dwellings that are used in their entirety for performing an activity (e.g. law office, dental office, company's branch office).

Room is a facility intended for living, which is separated from other rooms of dwelling by permanent walls. Its ceiling is at least 2 m high with regard to the majority of the ceiling surface area, and it has direct source of daylight and the floor surface area of at least 4 m².

Kitchen is defined as a room with surface area of at least 4 m² or 2 m wide, which is designed and equipped for preparation of main meals. If a dwelling consists of only one room that is used for cooking or if cooking is done in an auxiliary room (corridor, bathroom, etc.), it is considered that there is no kitchen in the dwelling.

A dwelling has a **bathroom** if there is a room with a bath or shower with installed water and sewerage systems. There is a toilet if such sanitation fixture is located in a separate room inside the dwelling or in the bathroom.

A dwelling has **water, sewerage, electricity and gas installations** if at least one of the rooms in the dwelling has adequate installations, regardless if such installations are connected to the utility network or certain home appliances and facilities.

Dwellings with **air conditioning** are dwellings with an air conditioning device, whether it is an independent air conditioner installed in the dwelling, or a central air conditioning circulating from a unit in the building.

A dwelling is considered located in **“exclusively or predominantly residential building”** if 50% or more of the total usable floor area of the building is intended for residential purposes.

A dwelling is considered located in **“predominantly non-residential building”** if more than 50% of the usable area of the building is used for non-residential purposes (e.g. shops, catering facilities, premises, banks, post offices, cinemas, private practices, branch offices of companies, etc.).

A dwelling is considered located **“in student dormitories, monasteries and alike”** if such buildings have a separate set of rooms corresponding to the definition of a dwelling, with a private household which does not belong to the institutional household or does not use the services of the collective dwellings.

Definitions from statistical surveys

Structures are objects connected to the ground on which construction works are carried out. They are made of construction materials and finished products for installation.

Buildings are permanent structures with roofs and exterior walls that are built as stand-alone usable units that provide protection from the elements and that may be used for housing, performing an activity or accommodation, storage of goods and equipment, for service activities, as overhangs, shelters, underground garages, shops or business premises in underpasses, etc.

Residential buildings are structures in which 50% or more of the total usable floor area is intended for residential purposes.

Non-residential buildings are structures that do not have residential areas, or that have less than 50% of the total floor area intended for residential purposes.

Floor area of the building is the total floor area in a building within the inside parameter of exterior walls.

The volume of building is the total volume of all roofed parts of the building including the outer walls.

Other structures are all structures that are not buildings, e.g. roads, railways, pipelines, bridges, sports grounds, dams, etc.

Construction of new structures includes construction of a new structure at a location where no structure existed before or where a structure existed but was demolished.

Reconstructions are construction works that affect the essential properties of existing buildings and serve to prolong the service life of buildings.

Additions and add-ons pertain to a type of construction works that result in new usable units as an addition adjacent to the existing structures or on them, e.g. a completely new dwelling or business premises.

Conversion of non-residential premises into new dwellings is a type of construction works based on which the existing area in a building is converted into a single dwelling or several dwellings (e.g. attic or basement that had not been previously furnished for housing, garages, premises in which manufacturing or service activity was performed).

Usable floor area of a dwelling is the floor surface area of a dwelling measured within its external walls.

Price per 1m² of a dwelling includes the price of building land, building costs and contractor's profit, as well as other costs.

13.1 Dwellings by type of use and other occupied premises – 2011 census

	Number of dwellings	Surface area, m ²	Average surface area per dwelling, m ²	Share of the number of dwellings, %
Dwellings in total	384 333	26 494 590	68.94	100.0
Dwellings for permanent housing	373 538	25 789 993	69.04	97.2
Occupied	299 977	21 299 986	71.01	78.0
Temporarily unoccupied	69 870	4 286 326	61.35	18.2
Abandoned	3 691	203 681	55.18	1.0
Temporarily used dwellings				
For vacation and recreation	4 878	260 635	53.43	1.3
During seasonal agricultural work	234	5 492	23.47	0.1
Dwellings used only for				
Rentals to tourists	59	2 905	49.24	0.0
Other activities	5 624	435 565	77.45	1.4

13.2 Occupied dwellings by number of rooms and ownership – 2011 census

	Number of dwellings	Surface area, m ²	Average surface area per dwelling, m ²	Share of the number of dwellings, %
Occupied dwellings by number of rooms – total	299 977	21 299 986	71.01	100.0
1 room	38 887	1 322 482	34.01	13.0
2 rooms	105 985	5 682 157	53.61	35.3
3 rooms	96 450	134 017	73.97	32.1
4 rooms	38 802	4 006 099	103.24	12.9
5 rooms	13 099	1 821 149	139.03	4.4
6 rooms	5 045	872 611	172.97	1.7
7 and more rooms	1 709	461 471	270.02	0.6
By ownership				
Private	291 854	20 858 416	71.47	97.3
Other	8 123	441 570	54.36	2.7

13.3 Occupied dwellings by number of ancillary rooms and available installations – 2011 census

	Dwellings	Persons
Total	299 977	780 957
Dwellings with		
Toilet	299 239	779 524
Bathroom	298 267	777 672
Kitchen	299 529	780 392
Dwellings with installations		
Water supply	299 398	779 847
Sewerage	299 354	779 764
Electricity	299 871	780 752
Gas	198 700	519 193

13.3 Occupied dwellings by number of ancillary rooms and available installations – 2011 census

(Continued)

	Dwellings	Persons
Dwellings with the following combinations of ancillary rooms		
Kitchen, toilet and bathroom	297 891	777 152
Kitchen and toilet	932	1 732
Kitchen only	488	881
Other combinations of ancillary rooms	592	1 118
Without kitchen, bathroom and toilet	74	99
Dwellings with air conditioning	108 375	298 336

13.4 Housing units by number of households and household members – 2011 census¹⁾

	2011
Total number of housing units	
Number of housing units	300 272
Number of households	303 610
Number of household members	789 966
Occupied dwellings	
Total number	299 977
Number of households	303 191
Number of household members	780 957
Other housing units	
Total number	86
Number of households	88
Number of household members	188
Collective dwellings ²⁾	
Total number	209
Number of institutional and private households	331
Number of household members	8 821

¹⁾ The difference between the total number of households and the total number of household members is the result of the number of registered homeless people who do not occupy housing units.

²⁾ Includes homeless people registered in homeless shelters.

13.5 Construction of business entities (legal entities)¹⁾

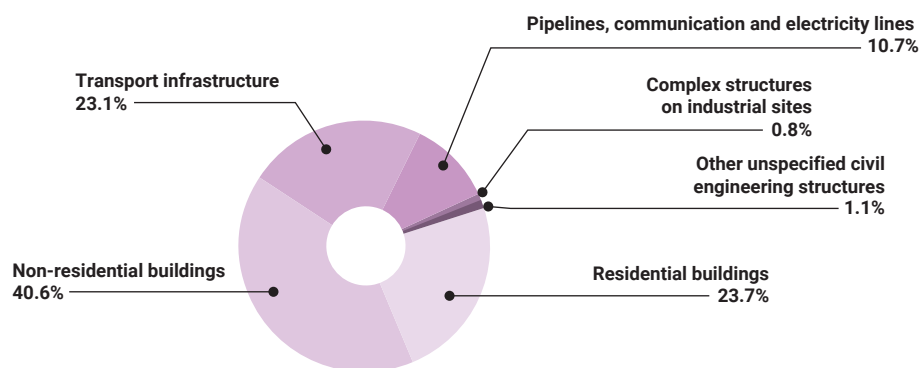
Thousands of HRK

	2012	2013	2014	2015	2016
Value of completed construction work by type of building – total	3 086 385	2 856 253	2 400 008	2 314 290	2 331 291
On buildings	2 205 927	1 714 919	1 364 976	1 347 905	1 497 560
Residential	817 682	644 833	478 762	607 887	551 469
Non-residential	1 388 245	1 070 086	886 214	740 018	946 091
On other structures	880 458	1 141 334	1 035 032	966 385	833 731
Transport infrastructure	519 991	778 920	810 564	713 807	538 191
Pipelines, communication, and electricity lines	280 912	309 592	162 468	190 697	249 307
Complex structures on industrial sites	52 598	26 596	26 225	29 622	19 242
Other unspecified civil engineering structures	26 957	26 226	35 775	32 259	26 991

¹⁾ List includes construction work completed by legal entities with 5 or more employees.

Source: CBS

G 13.1 Composition of values of construction work by type of structure in 2016

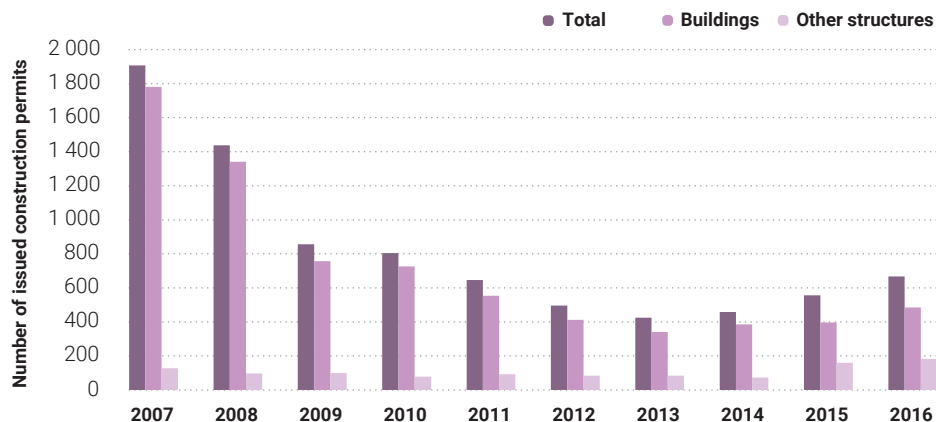


13.6 Issued construction permits by type of structure

	2012	2013	2014	2015	2016
Number of issued construction permits	496	424	458	556	667
Buildings	412	340	385	397	485
Other structures	84	84	73	159	182
Estimated value of construction work – total, thousands HRK	1 854 257	1 745 233	2 070 815	1 718 076	2 965 810
Buildings	1 532 530	1 457 075	1 765 876	1 304 364	2 488 414
Other structures	321 727	288 158	304 939	413 712	477 396
Dwellings					
Number	1 605	1 163	1 292	995	2 016
Available surface area, m ²	120 549	83 984	103 421	82 517	154 915

Source: CBS

G 13.2 Issued construction permits by type of structure

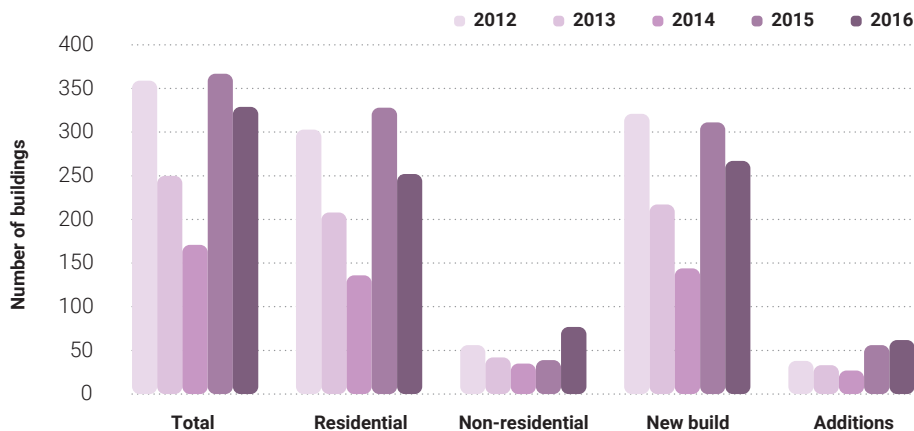


13.7 Issued construction permits for buildings by purpose, size and type of construction

	2012	2013	2014	2015	2016
Construction permits – total	412	340	385	397	485
Permits for residential buildings – total	348	261	276	327	372
By size					
With 1 apartment	151	90	97	103	115
With 2 apartments	38	31	27	25	37
With 3 and more apartments	114	56	75	80	105
Residential buildings for communities	-	1	-	2	1
By type of construction					
New build					
Number of permits	303	178	199	210	258
Surface area, m ²	158 585	118 035	146 447	103 174	214 742
Volume, m ³	492 629	365 698	444 627	316 649	676 568
Additions					
Number of permits	19	42	34	41	38
Surface area, m ²	4 502	8 504	5 968	9 478	6 812
Volume, m ³	13 557	24 282	17 329	28 652	20 813
Conversions and other reconstructions					
Number of permits	26	41	43	76	76
Permits for non-residential buildings – total	64	79	109	70	113
By type of construction					
New build					
Number of permits	36	38	48	25	58
Surface area, m ²	96 830	132 305	110 700	50 505	234 221
Volume, m ³	400 967	541 931	589 702	177 175	965 520
Additions					
Number of permits	11	15	20	9	24
Surface area, m ²	7 667	9 752	12 923	29 559	20 572
Volume, m ³	128 565	35 612	48 311	115 243	71 874
Conversions and other reconstructions					
Number of construction permits	17	26	41	36	31

Source: CBS

G 13.3 Completed buildings by type of building and type of construction work

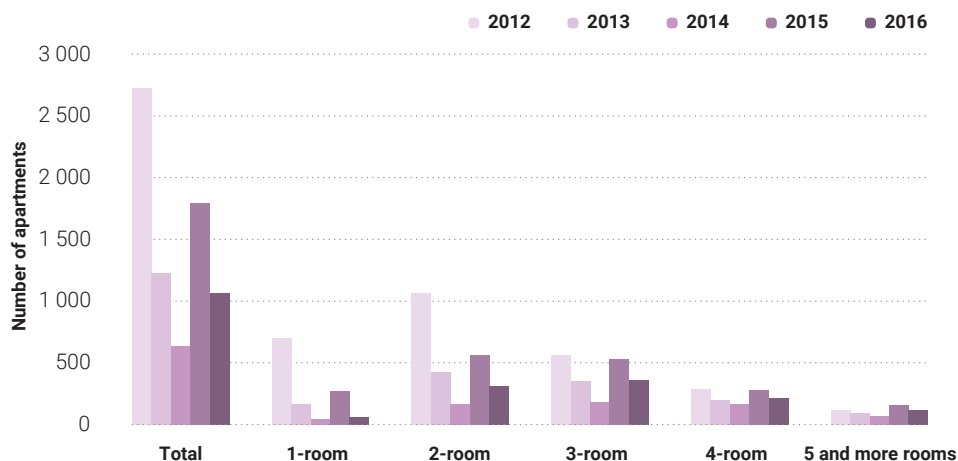


13.8 Completed buildings and apartments by number of rooms

	Completed buildings and apartments					Indices				
	2012	2013	2014	2015	2016	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015
Completed buildings – total	359	250	171	367	329	80.3	69.6	68.4	214.6	89.6
Residential	303	208	136	328	252	77.1	68.6	65.4	241.2	76.8
With 1 apartment	135	99	72	190	125	80.4	73.3	72.7	263.9	65.8
With 2 apartments	45	28	27	37	37	77.6	62.2	96.4	137.0	100.0
With 3 and more apartments	123	81	36	101	90	73.7	65.9	44.4	280.6	89.1
Residential buildings for communities	-	-	1	-	-	-	-	-	-	-
Non-residential	56	42	35	39	77	103.7	75.0	83.3	111.4	197.4
Completed apartments – total	2 729	1 227	638	1 798	1 065	114.3	45.0	52.0	281.8	59.2
By number of rooms										
1-room	700	167	48	273	62	259.3	23.9	28.7	568.8	22.7
2-room	1 067	423	169	560	308	111.4	39.6	40.0	331.4	55.0
3-room	560	351	181	534	362	92.0	62.7	51.6	295.0	67.8
4-room	284	196	170	275	214	74.0	69.0	86.7	161.8	77.8
5 and more rooms	118	90	70	156	119	70.7	76.3	77.8	222.9	76.3

Source: CBS

G 13.4 Completed apartments by number of rooms



13.9 Completed buildings and apartments by type of building and type of construction work

	Completed buildings			Completed apartments		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of apartments	Available surface area, m ²	Average available surface area, m ²
2012 Total	359	704 870	2 495 001	2 729	177 736	65.1
By type of building						
Residential buildings	303	246 046	743 631	2 725	177 389	65.1
Non-residential buildings	56	458 824	1 751 370	4	347	86.8
By type of construction work						
New build	321	679 698	2 398 578	2 686	174 081	64.8
Additions	38	25 172	96 423	40	3 418	85.5
Conversion of non-residential structures into residential structures	-	-	-	3	237	79.0
2013 Total	250	191 025	630 546	1 227	89 010	72.5
By type of building						
Residential buildings	208	111 253	326 678	1 161	80 562	69.4
Non-residential buildings	42	79 772	303 868	66	8 448	128.0
By type of construction work						
New build	217	182 101	598 899	1 185	85 565	72.2
Additions	33	8 924	31 647	36	2 929	81.4
Conversion of non-residential structures into residential structures	-	-	-	6	516	86.0
2014 Total	171	215 621	775 673	638	50 452	79.1
By type of building						
Residential buildings	136	77 625	229 977	638	50 452	79.1
Non-residential buildings	35	137 996	545 696	-	-	-
By type of construction work						
New build	144	209 254	756 579	610	47 667	78.1
Additions	27	6 367	19 094	28	2 785	99.5
Conversion of non-residential structures into residential structures	-	-	-	-	-	-
2015 Total	367	312 967	1 044 528	1 798	140 704	78.3
By type of building						
Residential buildings	328	191 641	602 678	1 773	138 731	78.2
Non-residential buildings	39	121 326	441 850	25	1 973	78.9
By type of construction work						
New build	311	285 519	965 481	1 733	133 753	77.2
Additions	56	27 448	79 047	60	6 512	108.5
Conversion of non-residential structures into residential structures	-	-	-	5	439	87.8

13.9 Completed buildings and apartments by type of building and type of construction work

(Continued)

	Completed buildings			Completed apartments		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of apartments	Available surface area, m ²	Average available surface area, m ²
2016 Total	329	253 840	1 011 451	1 065	85 737	80.5
By type of building						
Residential buildings	252	119 641	376 527	1 059	85 269	80.5
Non-residential buildings	77	134 199	634 924	6	468	78.0
By type of construction work						
New build	267	221 336	893 983	1 007	79 819	79.3
Upgrading and reconstruction	62	32 504	117 468	56	5 820	103.9
Conversion of non-residential structures into residential structures	-	-	-	2	98	49.0

Source: CBS

13.10 Number and size of structures by type of completed buildings and type of construction work

	2014			2015			2016		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of buildings	Surface area, m ²	Volume, m ³	Number of buildings	Surface area, m ²	Volume, m ³
Total	171	215 621	775 673	367	312 967	1 044 528	329	253 840	1 011 451
By type of building									
Residential	136	77 625	229 977	328	191 641	602 678	252	119 641	376 527
With 1 apartment	72	13 586	41 000	190	40 510	124 345	125	27 861	87 062
With 2 apartments	27	6 680	19 590	37	11 015	32 537	37	9 751	30 377
With 3 and more apartments	36	56 150	165 930	101	140 116	445 796	90	82 029	259 088
Residential buildings for communities	1	1 209	3 457	-	-	-	-	-	-
Non-residential	35	137 996	545 696	39	121 326	441 850	77	134 199	634 924
Hotels and similar buildings	-	-	-	1	171	494	2	1 859	5 348
Restaurants, bars, and other similar facilities	-	-	-	-	-	-	3	1 617	5 926
Office buildings	3	34 993	114 212	11	70 336	219 741	12	43 936	142 619
Wholesale and retail trade buildings	9	55 221	242 591	9	32 929	123 916	15	53 467	320 678

13.10 Number and size of structures by type of completed buildings and type of construction work

(Continued)

	2014			2015			2016		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of buildings	Surface area, m ²	Volume, m ³	Number of buildings	Surface area, m ²	Volume, m ³
Other traffic and communications facilities	-	-	-	-	-	-	1	20	70
Garages	10	3 877	29 785	6	5 494	46 801	9	658	2 079
Industrial buildings	2	798	4 102	3	1 054	5 126	13	15 821	75 305
Reservoirs and silos	-	-	-	-	-	-	1	-	775
Closed warehouses	1	220	780	4	2 667	19 467	2	5 071	38 619
Covered warehouses	-	-	-	-	-	-	1	197	473
Buildings for performing art and culture activities	-	-	-	-	-	-	1	523	2 217
Kindergartens and primary schools	3	7 677	24 608	-	-	-	5	5 609	19 861
Higher education buildings (faculties and other)	1	11 819	29 450	-	-	-	-	-	-
Scientific research facilities	-	-	-	1	8 026	24 322	1	159	1 104
Hospitals and clinics	-	-	-	-	-	-	-	-	-
Other health care facilities	1	22 560	96 786	-	-	-	-	-	-
Sports venues	-	-	-	-	-	-	2	1 706	6 880
Buildings for breeding and housing livestock and poultry, and storing agricultural products	1	435	1 965	-	-	-	3	671	2 807
Other agricultural facilities	1	20	60	1	20	75	3	194	673
Buildings for performing religious ceremonies	1	213	867	1	67	201	2	2 663	9 401

13.10 Number and size of structures by type of completed buildings and type of construction work

(Continued)

	2014			2015			2016		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of buildings	Surface area, m ²	Volume, m ³	Number of buildings	Surface area, m ²	Volume, m ³
Buildings for the purposes of armed forces, police, or firefighters	1	136	408	-	-	-	-	-	-
Other unclassified buildings	1	27	82	2	562	1 707	1	28	89
By type of construction work									
New build	144	209 254	756 579	311	285 519	965 481	267	221 336	893 983
Residential buildings	114	74 003	220 049	283	183 083	576 809	211	111 822	352 892
Non-residential buildings	30	135 251	536 530	28	102 436	388 672	56	109 514	541 091
Additions	27	6 367	19 094	56	27 448	79 047	62	32 504	117 468
Residential buildings	22	3 622	9 928	45	8 558	25 869	41	7 819	23 635
Non-residential buildings	5	2 745	9 166	11	18 890	53 178	21	24 685	93 833

Source: CBS

13.11 Completed apartments by type of building, type of construction, and number of rooms

	Number of apartments	Available surface area, m ²	Apartments by number of rooms							
			1 – room	2 – room	3 – room	4 – room	5 – room	6 – room	7 – room	8- and more rooms
Total number of apartments in 2013	1 227	89 010	167	423	351	196	53	24	11	2
Apartments in new buildings	1 185	85 565	164	414	335	184	53	22	11	2
Residential buildings	1 119	77 117	164	414	335	144	43	12	5	2
With 1 apartment	84	12 352	1	4	6	32	25	9	5	2
With 2 apartments	50	5 025	-	7	15	17	8	3	-	-
With 3 and more apartments	985	59 740	163	403	314	95	10	-	-	-
Non-residential buildings ¹⁾	66	8 448	-	-	-	40	10	10	6	-
Apartments built by additions	36	2 929	2	8	15	10	-	1	-	-
Apartments built by converting non-residential structures into residential structures	6	516	1	1	1	2	-	1	-	-

13.11 Completed apartments by type of building, type of construction, and number of rooms

(Continued)

	Num- ber of apar- tments	Avai- lable surface area, m ²	Apartments by number of rooms							
			1 – room	2 – room	3 – room	4 – room	5 – room	6 – room	7 – room	8- and more rooms
Total number of apartments in 2014	638	50 452	48	169	181	170	47	18	5	-
Apartments in new buildings	610	47 667	45	165	173	161	44	18	4	-
Residential buildings	610	47 667	45	165	173	161	44	18	4	-
With 1 apartment	55	8 171	-	3	9	15	11	13	4	-
With 2 apartments	46	4 498	-	7	9	24	6	-	-	-
With 3 and more apartments	509	34 998	45	155	155	122	27	5	-	-
Non-residential buildings ¹⁾	-	-	-	-	-	-	-	-	-	-
Apartments built by additions and reconstruction	28	2 785	3	4	8	9	3	-	1	-
Apartments built by converting non-residential structures into residential structures	-	-	-	-	-	-	-	-	-	-
Total number of apartments in 2015	1 798	140 704	273	560	534	275	84	50	15	7
Apartments in new buildings	1 733	133 753	269	553	510	263	71	47	13	7
Residential buildings	1 708	131 780	263	546	504	258	70	47	13	7
With 1 apartment	155	26 451	1	5	7	33	47	44	13	5
With 2 apartments	64	7 401	2	2	11	34	10	3	-	2
With 3 and more apartments	1 489	97 928	260	539	486	191	13	-	-	-
Non-residential buildings ¹⁾	25	1 973	6	7	6	5	1	-	-	-
Apartments built by additions and reconstruction	60	6 512	4	6	21	12	12	3	2	-
Apartments built by converting non-residential structures into residential structures	5	439	-	1	3	-	1	-	-	-
Total number of apartments in 2016	1 065	85 737	62	308	362	214	52	41	23	3
Apartments in new buildings	1 007	79 819	59	299	346	196	46	37	22	2
Residential buildings	1 001	79 351	59	297	343	196	45	37	22	2
With 1 apartment	96	17 287	-	3	11	13	20	26	21	2
With 2 apartments	56	5 551	-	11	19	18	5	3	-	-

13.11 Completed apartments by type of building, type of construction, and number of rooms

(Continued)

	Number of apartments	Available surface area, m ²	Apartments by number of rooms							
			1 – room	2 – room	3 – room	4 – room	5 – room	6 – room	7 – room	8- and more rooms
With 3 and more apartments	849	56 513	59	283	313	165	20	8	1	-
Non-residential buildings ¹⁾	6	468	-	2	3	-	1	-	-	-
Apartments built by additions	56	5 820	3	8	15	18	6	4	1	1
Apartments built by converting non-residential structures into residential structures	2	98	-	1	1	-	-	-	-	-

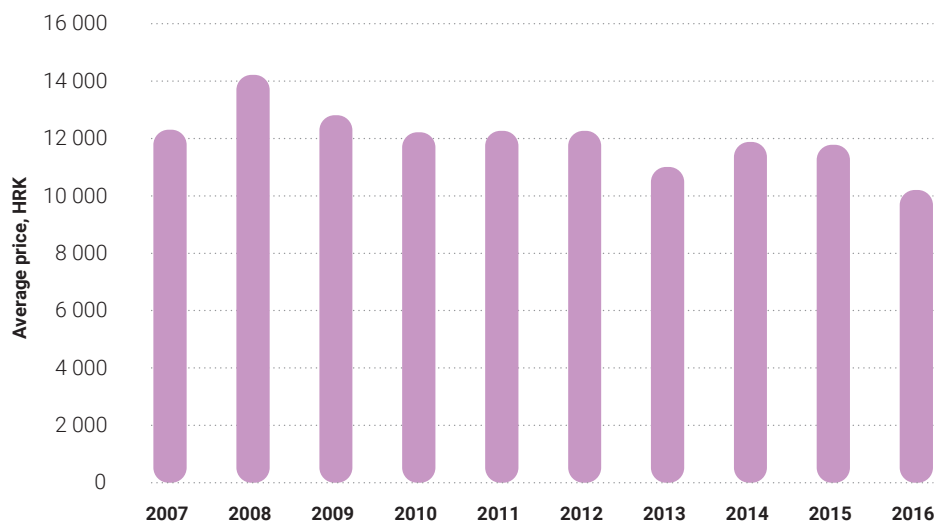
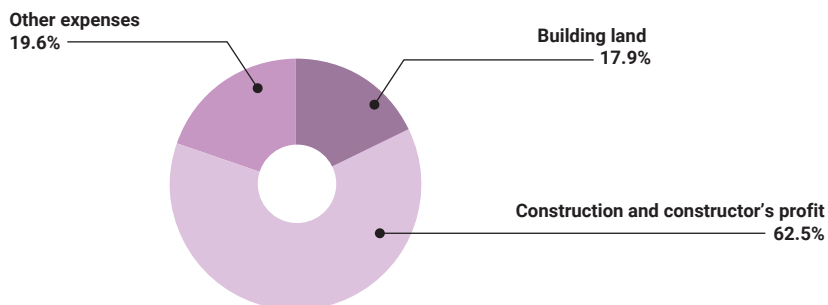
¹⁾ Mostly non-residential buildings (see Notes on Methodology).

Source: CBS

13.12 Average prices of sold new apartments

	2008	2009	2010	2011	2012	2013	2014	2015	2016
Sold apartments									
Number of apartments – total	1 664	1 816	1 247	1 389	1 501	1 213	1 153	843	1 570
Surface area, m ²	102 695	113 515	73 044	79 782	91 500	74 276	74 487	57 110	103 793
Average surface area, m ²	61.7	62.5	58.6	57.4	61.0	61.2	64.6	67.7	66.1
Average price per m², HRK									
Total	14 222	12 809	12 218	12 265	12 268	11 008	11 882	11 779	10 206
Building land	2 290	2 117	2 154	2 487	2 563	2 176	2 383	2 028	1 831
Construction and contractor's profit	8 428	7 723	6 932	7 276	7 281	6 885	7 141	7 313	6 374
Other costs	3 504	2 969	3 132	2 502	2 424	1 947	2 358	2 438	2 001

Source: CBS

G 13.5 Average prices of sold new apartments in HRK by m²**G 13.6. Structure of average price of sold new dwellings in 2016**



14

Transport and communications



NOTES ON METHODOLOGY

Source and method of data collection

Data on registered motor vehicles were obtained directly from the Ministry of the Interior, data on public bicycle parking and the length of cycle lanes from ZG Cycle Unit of the City of Zagreb, and data on transport of passengers from legal entities engaged in transport of passengers in public city transport and international transport. Data on electronic services were supplied by HAKOM (Croatian Regulatory Authority for Network Industries), while data on postal capacity and shipments were obtained from the Croatian Post (HP).

Data on carriage of goods by road were obtained from the Croatian Bureau of Statistics, which collects such data by means of a reporting method, using the statistical form Quarterly Report on Carriage of Goods by Road (Form PA/T-11).

Coverage and comparability

In the statistical survey on carriage of goods by road, reporting units are business entities (legal and natural persons) engaged in transport of goods, which are also owners or users of a road freight motor vehicle. Reporting units are selected by sampling method, based on vehicle's carrying capacity.

For statistical purposes, units of observation are road freight vehicles (including road tractors) with carrying capacity exceeding 3500 kg, which have been registered in the Ministry of the Interior.

Bicycle traffic is defined by the Ordinance on Cycling Infrastructure of 30 March 2016, which was adopted based on Article 17, paragraph 7 of the Roads Act (Official Gazette 84/11, 22/13, 54/13, 148/13 and 92/14).

Transport of passengers by tram, bus and railway pertains to passenger transport in the territory of the City of Zagreb according to the existing territorial organization defined by the Act on the Territories of Counties, Cities and Municipalities in the Republic of Croatia (Official Gazette 86/06).

Definitions

Transport is the act of conveying passengers or goods at a certain distance from the place of embarking/loading to the place of disembarking/unloading. It is shown as the number of passengers carried or the quantity of goods carried.

Traffic is the movement of vehicles, passengers and goods, and it is shown as the number of passengers who have arrived and departed, or as the quantity of loaded and unloaded goods.

Passenger is any person who travels by a means of transport with the intent to arrive at a certain location, regardless of the length of the road he or she has travelled in the relevant means of transport.

Domestic transport is the transport between the place of embarking/loading and the place of disembarking/unloading, within the borders of our country.

International transport is the transport between any place of embarking/loading in our country and any place of disembarking/unloading in a foreign country, or vice versa, as well as transport between places in a foreign country.

Transport to a foreign country is the international carriage of goods by domestic carriers, where the country of loading and unloading is a foreign country.

Tonne kilometre is a unit of measurement that expresses the transport of one tonne of goods over a distance of one kilometre.

Cycle lane was defined in 2016 as a path for cycling, which is separated from the motorized traffic and marked by appropriate traffic signalling. A cycle lane can be constructed as one-way or two-way, separated from the roadway with regard to elevation or ground plan, with appropriate width of the protective zone with regard to motorized traffic.

Route length is the distance that includes the number of times a day a vehicle travels on a particular route.

Passenger kilometre is a unit of measurement representing the transport of one passenger over a distance of one kilometre.

Domestic air traffic is divided into regular and special flights. Regular traffic is carried out by a domestic carrier on its regular routes, according to the timetable. Domestic traffic of our airplanes includes passengers on international routes, provided that the airplanes are carrying passengers between two airports in Croatia.

International traffic pertains to international routes where domestic airplanes carry passengers between the airports of our country and airports located abroad.

Traffic data of foreign airplanes pertain to regular and special flights performed by foreign airplanes on international routes, in cooperation with foreign companies and Croatia.

Person killed in a traffic accident is any person who died at the site of accident or who died within 30 days as a consequence of the accident, regardless of his or her nationality.

Data on the number of injured and killed persons in road traffic accidents include all participants in traffic accidents in the City of Zagreb, regardless of their nationality.

Electronic communication service is a service provided for a charge, consisting of the transmission of signals in electronic communications networks, including transmission services in broadcasting networks.

Number of broadband internet connection is the number of connections of all technologies in fixed and mobile public communications networks.

Postal service is a service that includes any handling of postal items by postal service providers, specifically clearance, routing, transfer and delivery of postal items in domestic and international mail.

Letter and other consignments include letters, registered mail, direct mail, forms and other postal items with a marked value.

Package is a postal item containing goods and objects. Packages include all packages received in domestic traffic, as well as all packages received from a foreign country and dispatched to a foreign country.

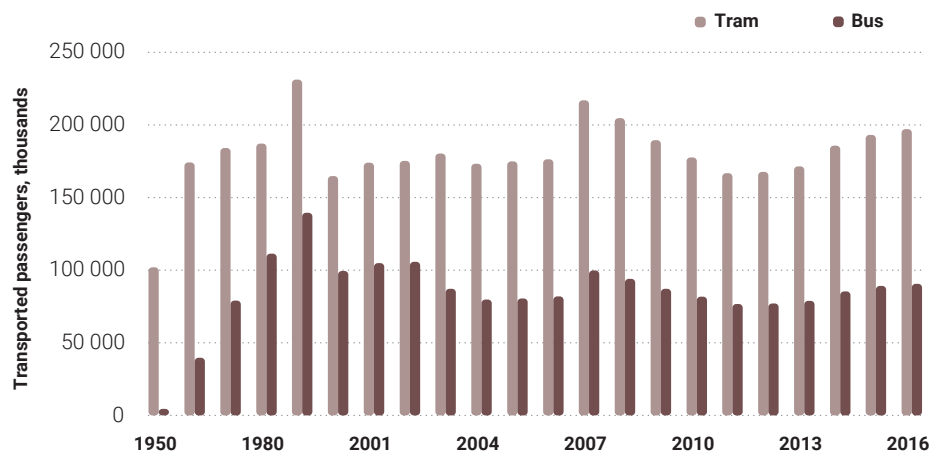
SMS is a service for sending short messages to mobile devices. SMS may be a text message or other form of message (image or melody).

14.1 Motor vehicles and city transport

	Registered vehicles, status as of 31 December		City transport				
			Tram			Bus	
	Total	Private	Vehicles		Transported passengers, thousands	Number of buses	Transported passengers, thousands
			Tram engines	Wagons			
1950	3 482	1 172	97	88	101 981	20	4 523
1960	18 798	12 510	129	100	174 070	79	39 734
1970	81 497	71 135	136	173	184 126	192	79 003
1980	179 523	161 011	190	226	187 128	336	111 425
1990	224 039	203 406	248	238	231 119	462	139 414
2000	284 308	232 983	253	162	164 694	337	99 346
2011	395 391	291 568	289	77	166 772	429	76 713
2012	342 345	251 554	284	70	167 555	430	77 077
2013	337 591	252 187	277	63	171 426	426	78 848
2014	339 749	255 995	277	63	185 606	399	85 365
2015	346 230	260 856	274	58	193 152	411	89 172
2016	358 308	267 769	274	58	197 088	403	90 648

Source: Ministry of the Interior and ZH, Subsidiary ZET

G 14.1 Number of passengers transported in city transport from 1950 to 2016



14.2 Registered vehicles, status as of 31 December

	Total	Mopeds	Motorcycles	Personal vehicles	Buses	Goods vehicles and work vehicles	Other vehicles
2012							
Total	342 345	10 154	8 100	286 742	864	29 327	7 158
Natural persons	251 554	8 209	7 085	228 433	23	5 052	2 752
Legal entities	90 791	1 945	1 015	58 309	841	24 275	4 406
2013							
Total	337 591	9 806	7 999	283 331	808	28 434	7 213
Natural persons	252 187	7 929	7 052	229 691	21	4 595	2 899
Legal entities	85 404	1 877	947	53 640	787	23 839	4 314
2014							
Total	339 749	9 341	8 146	285 279	834	29 530	6 619
Natural persons	255 995	7 567	7 259	233 814	16	4 336	3 003
Legal entities	83 754	1 774	887	51 465	818	25 194	3 616
2015							
Total	346 230	9 054	8 331	289 706	872	31 337	6 930
Natural persons	260 856	7 280	7 495	238 656	12	4 320	3 093
Legal entities	85 374	1 774	836	51 050	860	27 017	3 837
2016							
Total	358 308	8 538	8 581	299 162	897	32 791	8 339
Natural persons	267 769	6 931	7 738	245 482	11	4 301	3 306
Legal entities	90 539	1 607	843	53 680	886	28 490	5 033

Source: Ministry of the Interior

14.3 Road transport of goods

	Goods transported, thousands of tonnes			Tonne-kilometres, thousands		
	Total	Domestic transport	International transport	Total	Domestic transport	International transport
2012	14 220	12 933	1 287	1 953 327	843 713	1 109 614
2013	14 584	13 302	1 282	1 920 630	875 208	1 045 422
2014	17 108	15 258	1 850	2 201 520	990 676	1 210 844
2015	16 247	14 197	2 050	2 210 894	950 778	1 260 116
2016	16 406	14 413	1 993	2 097 819	874 232	1 223 587

Source: CBS

14.4 Bicycle parking

	Number of locations	Number of parking racks	Number of bicycles
2014	10	60	120
2015	23	183	366
2016	62	402	804

Source: City of Zagreb, ZG Cycle

14.5 Length of cycle lanes

km

	Total	Transport network	Sports and recreational purposes
2015	389	251	138
2016	401	256	145

Source: City of Zagreb, ZG Cycle

14.6 Tram transport¹⁾

	Status as of 31 December			Distance covered, thousands of km	Number of transported passengers, thousands
	Number of routes	Route length, km	Number of seats on the tram		
2012	19	210	55 788	13 608	167 555
2013	19	210	54 281	13 294	171 426
2014	19	210	54 281	14 300	185 606
2015	19	210	53 402	13 550	193 152
2016	19	210	53 402	13 302	197 088

¹⁾ Horsecar was first used on 5 September 1891 and it transported the citizens of Zagreb until 8 August 1910, when electric trams were introduced.

Source: ZH, Subsidiary ZET

14.7 City bus transport¹⁾

	Route length, km	Number of seats on the bus	Distance covered, thousands of km	Number of transported passengers, thousands
2012	1 351	44 604	27 676	77 077
2013	1 366	44 149	27 499	78 848
2014	1 371	40 987	27 464	85 365
2015	1 438	41 234	27 466	89 172
2016	1 378	40 437	27 774	90 648

¹⁾ Data refers to all bus routes of provided by ZET.

Source: ZH, Subsidiary ZET

14.8 Transport by the funicular¹⁾

	Route length, m	Number of seats	Operating hours	Number of transported passengers, thousand
2012	60	56	491	413
2013	60	56	613	606
2014	60	56	621	687
2015	60	56	648	741
2016	60	56	709	715

¹⁾ ZET's funicular was first used on 8 October 1890.

Source: ZH, Subsidiary ZET

14.9 Rail transport¹⁾

	Railway length, km	Train routes length	Number of transported passengers, thousands
2012	58	242	9 913
2013	58	236	8 153
2014	58	236	7 697
2015	58	240	7 775
2016	58	238	8 434

¹⁾ See Notes on Methodology.

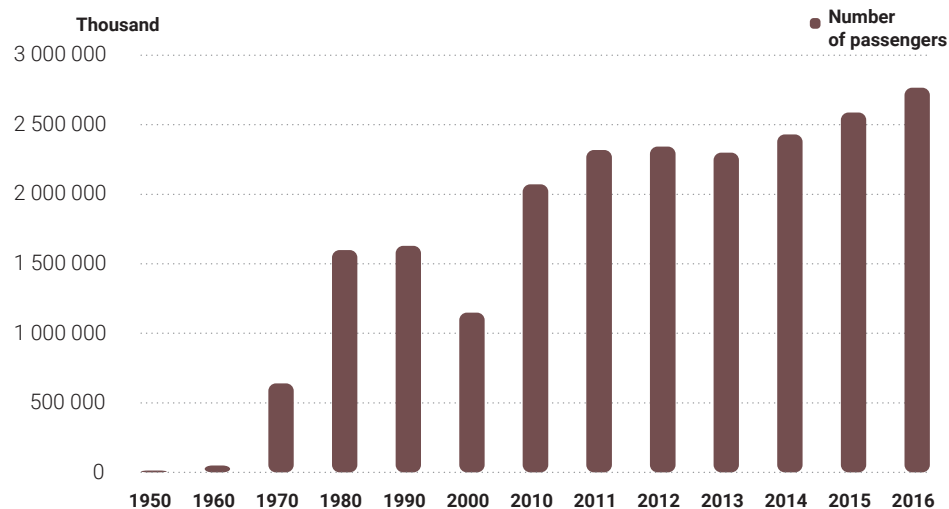
Source: HŽ Passenger Transport Limited Liability Company

14.10 Air traffic at the Zagreb International Airport "Franjo Tuđman"

	Traffic		
	Airplanes (departed and arrived)	Passengers (departed and arrived)	Cargo, tonnes (dispatched and received)
1950	2 556	13 646	151
1960	4 198	49 173	240
1970	20 462	640 168	6 101
1980	43 648	1 599 531	12 778
1990	33 096	1 629 998	14 112
2000	27 116	1 149 564	7 573
2010	39 812	2 071 561	9 386
2011	42 360	2 319 098	9 450
2012	39 038	2 342 309	9 491
2013	38 894	2 300 231	9 206
2014	38 348	2 430 971	8 863
2015	39 854	2 587 798	7 085
2016	40 796	2 766 087	7 572

Source: Zagreb International Airport "Franjo Tuđman"

G 14.2 Passengers transported by air traffic from 1950 to 2016



14.11 Domestic and international traffic at the Zagreb International Airport "Franjo Tuđman"

	Air traffic			Number of passengers transported by planes			Transport of goods and mail, tonnes
	Total	Domestic	Foreign	Total	Domestic airplanes	Foreign airplanes	

2012

Total	39 038	25 012	14 026	2 342 309	1 509 672	832 637	9 491
Domestic traffic	9 128	9 128	-	496 533	496 533	-	909
International traffic	29 910	15 884	14 026	1 845 776	1 013 139	832 637	8 582

2013

Total	38 894	24 638	14 256	2 300 231	1 385 249	914 982	9 206
Domestic traffic	10 602	10 602	-	473 967	473 967	-	668
International traffic	28 292	14 036	14 256	1 826 264	911 282	914 982	8 538

2014

Total	38 348	23 758	14 590	2 430 971	1 410 069	1 020 908	8 863
Domestic traffic	9 656	9 656	-	476 844	476 844	-	700
International traffic	28 692	14 102	14 590	1 954 127	933 219	1 020 908	8 163

2015

Total	39 854	22 870	16 984	2 587 798	1 428 238	1 159 560	7 085
Domestic traffic	8 618	8 618	-	476 060	476 060	-	599
International traffic	31 236	14 252	16 984	2 111 738	952 178	1 159 560	6 486

2016

Total	40 796	22 654	18 142	2 766 087	1 496 922	1 269 165	7 572
Domestic traffic	8 108	8 108	-	489 496	489 496	-	554
International traffic	32 688	14 546	18 142	2 276 591	1 007 426	1 269 165	7 018

Source: Zagreb International Airport "Franjo Tuđman"

14.12 Air traffic at the Zagreb International Airport "Franjo Tuđman" by airlines

	Air traffic	Number of transported passengers						
		Total	Domestic airlines			Foreign airlines		
			Arrival	Departure	Transit	Arrival	Departure	Transit
2015								
Total	39 854	2 587 798	719 314	702 892	1 296	574 865	579 027	1 640
Regular flights	33 814	2 548 413	714 952	697 878	1 296	564 409	568 927	951
Special flights	348	30 621	4 362	5 014	-	10 456	10 100	689
Other non-commercial flights	5 692	8 764	...	...	...	...	...	...
2016								
Total	40 796	1 499 030	757 550	735 662	1 030	625 011	635 929	458
Regular flights	35 380	1 485 824	753 541	731 253	1 030	613 036	623 840	-
Special flights	364	8 418	4 009	4 409	-	11 975	12 089	458
Other non-commercial flights	5 052	4 788	...	...	...	...	...	...

Source: Zagreb International Airport "Franjo Tuđman"

14.13 Traffic assets of the International Airport Zagreb "Franjo Tuđman"

	Runway		Platform tools						Other				
	Length, m	Width, m	Airport buses	Catering vehicles	Tugs and tractors	Car lifts and cargo platforms	Passenger stairs	Luggage trolleys	Fire trucks	Snow removal vehicles	Generators	Tank-cars and goods vehicles	Airifts
2012	3,250	45	9	4	19	10	20	152	4	8	10	13	-
2013	3,250	45	9	4	19	10	20	152	4	8	10	13	-
2014	3,250	45	9	4	19	10	20	152	4	8	10	13	-
2015	3,250	45	8	3	17	10	25	140	5	8	10	13	-
2016	3,259	45	8	3	17	10	25	140	5	8	10	13	8

Source: Zagreb International Airport "Franjo Tuđman"

14.14 Traffic accidents and persons injured in traffic accidents

	Traffic accidents			Injured persons		
	Total	Involving material damage	Involving injured persons	Total	Dead	Injured
2012	8 830	6 867	1 963	2 609	34	2 575
2013	7 362	5 485	1 877	2 521	27	2 494
2014	6 524	4 637	1 877	2 507	19	2 488
2015	6 262	4 448	1 814	2 402	20	2 382
2016	5 882	4 215	1 667	2 186	20	2 166

Source: Ministry of the Interior

14.15 Electronic communication services

	2012	2013	2014	2015	2016
Number of fixed network connections, thousands	...	...	...	296 601	283 198
Mobile network users, thousands	...	...	...	...	...
Number of broadband Internet connections (DSL, cable networks, etc.)	215 154	225 233	239 839	248 422	263 334
Density of broadband Internet connections (number of connections per population)	0.3	0.3	0.3	0.3	0.3

Source: Croatian Regulatory Authority for Network Industries

14.16 Postal offices and capacity

	2012	2013	2014	2015	2016
Postal offices	74	74	74	74	74
Counters	320	317	273	270	270
Post-boxes	448	406	408	373	393
Deliverable regions	428	401	458	391	364
Postmen	424	424	508	428	390

Source: Croatian Post

14.17 Mail

	2012	2013	2014	2015	2016
Letters, thousand	171 635	198 832	210 163	239 951	176 308
National shipments, received	164 443	190 592	201 481	231 430	169 227
International shipments, received/ dispatched	7 192	8 240	8 682	8 521	7 081
SMS and HP Express, thousands	1 567	1 469	1 437	1 824	2 446
National shipments, received	1 552	1 454	1 422	1 809	2 431
International shipments, received/ dispatched	15	15	15	15	15
Packages, thousands	543	360	339	461	554
National shipments, received	503	304	242	332	389
International shipments, received/ dispatched	40	56	97	129	165

Source: Croatian Post

15

Distributive trade and other services



NOTES ON METHODOLOGY

Source and method of data collection

Data on the section Distributive Trade and Other Services are the result of the statistical survey – Quarterly Report on Trade and Other Services (USL-1 form). The afore-mentioned data also include data on retail trade (section G 47), which were obtained based on the Monthly Retail Trade Report (TRG-1 form).

The survey is quite **new**, it has been implemented since the first quarter of 2011, and it replaces former surveys that included only a part of service activities. These former surveys are the Quarterly Report on Distributive Trade (TRG-2), Quarterly Report on Catering for Legal Persons (UG-11) and the Quarterly Report on Catering for Tradesmen (UG-11/OBRT).

Methodology for the quarterly survey Quarterly Report on Trade and Other Services (USL-1) is based on the EU Regulation No. 1165/98 concerning short-term statistics (Appendix D) and its amendments. The methodology is completely harmonized with the concepts and definitions contained in the afore-mentioned Regulation. The survey aims to measure the dynamics of turnover trends in service activities.

The source of data on retail trade is the regular statistical survey Monthly Retail Trade Report (TRG-1 form), which has been conducted since the beginning of 1998.

The survey methodology is based on the EU Regulation No. 1165/98, 1158/05, 1503/06 and 189/06 concerning short-term statistics (Appendix C).

Coverage and comparability

Since the first quarter of 2014, the data has been collected by using a combined method, i.e. by virtue of the reporting method (via the USL-1 form) and based on the administrative data source.

The reporting method encompasses all large and medium-sized business entities from all service sectors, while small business entities from the catering industry were chosen by random sampling. Main activity was defined for each business entity in accordance with the 2007 National Classification of Activities (Official Gazette 58/07 and 72/07). Since the first quarter of 2016, data has also been provided on three new service activities that are not included in the scope of the afore-mentioned Regulation: L 68 Real estate activities, N 77 Rental and leasing activities, and N 81 Services to buildings and landscape activities.

The administrative data source (VAT tax return files held by the Tax Administration) applies to small units from all service activities except catering.

With regard to retail trade, the survey includes business entities (legal entities and tradesmen) registered under retail trade section based on their activity (section 47 of the 2007 National Classification Activities). Selected business entities performing other activities are also included, provided that they make profit in retail trade.

The survey is carried out by using the sample method. The sampling frames are active business entities or parts thereof registered in the Register of Business Entities of the Croatian Bureau of Statistics.

The sample includes business entities with ten and more employees, as well as business entities with less than 10 employees that are selected by virtue of random sample method.

Business entities are classified according to the main activity listed in the 2007 National Classification Activities (Official Gazette 58/07 and 123/08) and according to their size (classes from 1 to 7).

The criterion for determining the size of a business entity is the number of employees. Businesses entities of size 1 are those with 0 – 4 employees, of size 2 those with 5 – 9 employees, of size 3 those with 10 – 19 employees, of size 4 with those 20 – 49 employees, of size 5 those with 50 – 99 employees, of size 6 those with 100 – 249 employees, and of size 7 those with 250 and more employees.

Definitions and explanations

Turnover is the value of all goods sold and services provided on the market in a quarter, regardless of whether they have been paid. Value added tax is excluded from turnover.

Business entities report the total turnover realized from main activity and secondary activities they perform.

Retail trade is the sale of goods to the final consumer for personal use or use in household.

Retail turnover is the value of all goods sold and services provided on the market in a month, regardless of whether they have been paid, including value added tax.

Trading professions are the actual predominant range of retail sales, where the products that are sold are also classified according to the 2007 National Classification Activities.

Nominal indices display the turnover movements at current prices.

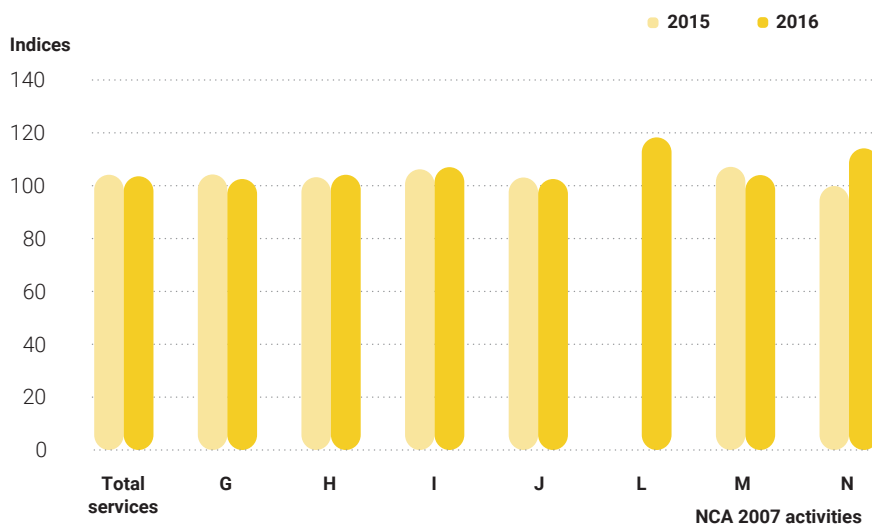
15.1 Nominal indices of service activities turnover by main activities of business entities

NCA 2007 Activities			Indices		
			<u>2014</u> 2013	<u>2015</u> 2014	<u>2016</u> 2015
Total services¹⁾			98.9	104.2	103.6
G	45 + 46 + 47	Wholesale and retail trade; repair of motor vehicles and motorcycles	98.4	104.3	102.6
H	49 + 50 + 52 + 53	Transportation and storage	97.7	103.3	104.2
I	55 + 56	Accommodation and food service activities	99.5	106.2	107.1
J	58 + 59 + 60 + 61 + 62 + 63	Information and communication	99.8	103.1	102.6
L	68	Real estate activities	-	-	118.3
M	69 + 70 + 71 + 73 + 74	Professional, scientific and technical activities	103.0	107.2	104.1
N	77 + 78 + 79 + 80 + 81 + 82	Administrative and support service activities	98.9	99.9	114.2

¹⁾ See Notes on Methodology.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 15.1 Nominal indices of service activities turnover in 2015 and 2016



15.2 Nominal indices of retail trade turnover by main activities of business entities

NCA 2007 Activities		Total trade					Retail trade turnover				
		2012 2011	2013 2012	2014 2013	2015 2014	2016 2015	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015
Total		-	-	-	-	-	101.1	98.5	100.1	98.5	104.0
47	Retail trade, except of motor vehicles and motorcycles	96.9	101.7	99.1	99.0	98.7	102.4	98.6	102.1	98.7	103.7
47.11	Retail trade in non-specialised stores with food, beverages and tobacco predominating	101.1	98.3	96.0	98.3	91.4	102.3	95.1	94.4	101.4	102.1
47.19	Other retail trade in non-specialised stores	97.1	113.7	103.3	107.1	100.3	100.7	102.9	90.5	107.6	107.6
47.2	Retail trade of food, beverages and tobacco in specialised stores	99.1	113.7	104.6	95.7	97.6	99.5	97.6	105.1	97.3	96.8
47.3	Retail trade of motor fuels and lubricants in specialised stores	97.7	119.6	91.2	107.1	98.4	120.1	105.1	108.3	83.9	92.3
47.73; 47.74; 47.75	Pharmacies, retail trade of medical preparations and orthopaedic equipment, cosmetic and toilet products in specialised stores	98.1	99.9	98.0	106.3	103.4	98.1	100.0	97.7	105.0	103.5
47.51; 47.71; 47.72	Retail trade of textiles, wearing apparel, footwear and leather products in specialised stores	101.8	97.3	99.2	106.7	111.6	99.0	100.1	98.8	102.6	110.3

15.2 Nominal indices of retail trade turnover by main activities of business entities

(Continued)

NCA 2007 Activities		Total trade					Retail trade turnover				
		2012 2011	2013 2012	2014 2013	2015 2014	2016 2015	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015
47.41; 47.42; 47.53; 47.61; 47.62; 47.64; 47.65; 47.76; 47.77; 47.78	Retail trade of computers, peripheral units, and software, telecommunications equipment, carpets, wall and floor coverings, books, newspapers, stationery and writing accessories, sporting equipment, games and toys, flowers, flowers, plants, seeds, fertilisers, pet animals and pet food, watches and jewellery and other retail trade in specialised stores	79.3	107.5	64.4	99.5	123.4	101.8	114.7	89.6	107.4	113.5
Other activities (not pertaining to Section 47).		-	-	-	-	-	98.7	98.0	97.8	90.9	103.5

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

15.3 Structure of retail trade turnover by type of trade¹⁾

	2012	2013	2014	2015	2016
Total	100.0	100.0	100.0	100.0	100.0
Motor vehicles	3.2	2.9	3.2	3.4	4.2
Parts and accessories for motor vehicles, motorcycles and accessories	0.8	1.0	1.2	0.8	0.9
Non-specialised stores selling mostly groceries	29.4	32.5	29.2	35.3	35.1
Other non-specialised stores	2.8	4.3	2.5	6.1	4.9
Specialised grocery stores	1.5	0.4	0.5	0.8	0.9
Bread, biscuits, pasta and sweets	0.5	1.1	1.3	1.4	1.5
Alcoholic and other beverages	0.5	0.2	0.5	0.4	0.4
Tobacco products	3.2	3.3	3.8	3.4	3.2
Motor fuels and lubricants	22.7	20.2	21.2	14.3	13.1
Computers, peripheral units, software and video games	0.2	0.4	0.7	0.7	0.9
Telecommunication equipment, audio, and video equipment	1.0	1.0	1.6	0.8	0.9
Textile, apparel, footwear and leather products	10.6	10.5	11.8	11.8	11.9
Iron goods, paints and varnishes, glass, wood, Sanitary and "DIY" equipment	4.4	4.4	2.7	2.6	2.6
Retail sale of carpets, rugs, curtains, wall and floor coverings in specialised stores	0.1	0.1	0.1	0.1	0.2

15.3 Structure of retail trade turnover by type of trade¹⁾

(Continued)

	2012	2013	2014	2015	2016
Home appliances	1.0	1.0	0.6	1.2	1.3
Furniture, lighting equipment and other household products	4.1	4.2	5.2	3.2	4.6
Books (except used)	0.7	0.6	0.9	0.3	0.3
Newspapers, paper goods and stationery	1.8	0.2	0.2	0.3	0.2
Music and videos, CDs, tapes, DVDs	0.0	0.0	0.0	0.0	0.0
Sports equipment, fishing, and camping equipment, boats and bicycles	0.8	0.8	1.2	1.0	1.1
Other retail sale in specialized stores	1.4	1.2	1.5	1.4	1.4
Pharmacies, medical and orthopaedic products	3.2	3.5	3.8	4.2	4.3
Cosmetic and toiletries	3.9	3.9	3.6	3.8	3.5
Flowers, seedlings, seeds, fertilizers, pets and pet foods	0.7	0.6	0.6	0.5	0.6
Used goods and sale outside the store	1.5	1.7	2.1	2.2	2.0

¹⁾ The data are presented by trade unions regardless of the business activity in which the business entity is registered.

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

15.4 Spring¹⁾ and other fairs and exhibitions at the Zagreb Fair

	Number of fairs	Surface area used for exhibitions, thousands of m ²	Exhibitors			Visitors in thousands
			Total	National	Foreign	
2012	18	26.00	2 071	1 147	924	181
2013	17	22.00	2 020	1 267	753	163
2014	11	21.00	1 778	908	870	160
2015	13	18.50	1 414	910	504	180
2016	12	61.00	2 382	1 057	1 325	368

¹⁾ Includes a larger number of specialised trade fairs.

Source: ZH, subsidiary Zagreb Fair

15.5 Zagreb International Autumn Fair

	Permanent area for exhibitions, in thousands m²	Space used for exhibitions, thousands of m²			Exhibitors			Visitors in thousands
		Total	By exhibitors		Total	National	Foreign	
			National	Foreign				
2012	90	3.50	3.00	0.50	499	439	60	14
2013	90	2.50	2.30	0.20	456	411	45	8
2014	40	0.30	0.25	0.05	34	31	3	8
2015	40	1.00	0.90	0.10	55	28	27	3
2016	90	1.70	1.50	0.20	461	426	35	4

Source: ZH, subsidiary Zagreb Fair



16

Foreign trade in goods



NOTES ON METHODOLOGY

Sources of data

Survey on foreign trade in goods is conducted by the Croatian Bureau of Statistics in cooperation with the Customs Administration of the Ministry of Finance of the Republic of Croatia. Since the accession of the Republic of Croatia to the European Union, which occurred on 1 July 2013, statistical data on the foreign trade of Croatia have been obtained from two different sources. The sources are the Intrastat form regarding the statistics on trade between the EU Member States, and the Single Administrative Document for trade statistics with non-EU countries (Extrastat).

Data source for the statistics on trade with EU Member States is the Intrastat form, which the reporting units use to report on arrivals and/or dispatches on a monthly basis, i.e. in the month in which goods enter or leave the territory of the Republic of Croatia. Reporting units are all business entities, taxpayers of value added tax, whose value of trading in goods with EU Member States exceeds the exemption threshold for the reference year. For the purpose of complete harmonization with the EU methodology and legislation, data of 2013 include the value of trade below the exemption threshold, which was estimated based on data on supplies and acquisitions of goods in/from EU Member States, which were provided by the Tax Administration of the Republic of Croatia.

Data source for the statistics on trading in goods with third countries, i.e. non-EU countries, are the Single Administrative Documents on export and import of goods. The Croatian Bureau of Statistics receives reviewed Single Administrative Documents from the Customs Administration of the Republic of Croatia in the form of data records.

By following the basic methodological recommendations of the UN Statistical Office and Eurostat, the Croatian Bureau of Statistics statistically processes and publishes collected Intrastat and Extrastat data as unique information on the foreign trade in goods of the Republic of Croatia.

Legal basis

The legal basis for conducting the Intrastat survey is the European legislation pertaining to trade statistics between the EU Member States (Regulation No. 638/2004 and regulations No. 222/2009 and 659/2014 of the European Parliament and the Council amending the aforementioned Regulation, and the Commission Implementing Regulation No. 1982/2004 and amending Regulations No. 1915/2005, 91/2010, 96/2010 and 1093/2013), the Official Statistics Act (Official Gazette 103/03, 75/09, 59/12 and 12/13 – consolidated text) and the Customs Administration Act (Official Gazette 68/13, 30/14 and 115/16). More detailed methodological explanations regarding the survey are published on the website of the Croatian Bureau of Statistics (<http://www.dzs.hr/Hrv/intrastat/intrastat.htm>).

The legal basis for Extrastat is the European legislation on the statistics of trade with third countries (Regulation (EC) No. 471/2009 of the European Parliament and Council, Commission Regulation (EU) No. 92/2010 and Commission Regulation (EU) No. 113/2010), the EU Customs Regulations Implementation Act (Official Gazette 40/16), the Official Statistics Act (Official Gazette 103/03, 75/09, 59/12 and 12/13 – consolidated text), the Customs Administration Act (Official Gazette 68/13, 30/14 and 115/16) and the Ordinance on Filling In the Single Administrative Document (Official Gazette 77/13).

Coverage and comparability

Statistics on foreign trade in goods includes data on all goods exported from or imported into the country. Data on foreign trade in goods include data on exports and imports based on gross domestic and foreign production.

Export stands for all goods exported from Croatia and produced domestically or coming from domestic trade.

Import encompasses all goods imported to Croatia from foreign countries, for domestic consumption or for internal production.

Statistical value of goods is the value of goods at the Croatian border. In case of export, i.e. dispatches, the values are displayed according to the FOB parity, while in case of import, i.e. arrivals, the values are shown in the CIF parity.

Amounts expressed in foreign currencies are translated into HRK (Croatian Kuna) and EUR (Euro) using the monthly exchange rate lists determined for the relevant month. The middle exchange rate of the Croatian National Bank is applied.

In some tables, the total sum may not match the sum of individual items due to rounding numbers to the nearest thousands.

When presenting data according to activities, the 2007 National Classification of Activities (NCA) is applied (Official Gazette 58/07 and 72/07), which entered into force on 1 January 2008. It is based on NACE – the European classification NACE (Statistical Classification of Economic Activities in the European Community), Rev. 2, which is mandatory for the Member States of the European Union.

Data for counties, as well as for the City of Zagreb, were obtained based on classification of companies that exported or imported, with regard to the county in which they are registered according to the Statistical Business Register.

Data on export of goods are shown according to countries of destination. In Extrastat, data on import of goods are presented according to the countries of origin of goods, while the data on receipt of goods are presented in Intrastat according to the countries of dispatch.

The economic classification of countries is as follows:

- **European Union – EU** (Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Croatia, Ireland, Italy, Latvia, Lithuania, Luxembourg, Hungary, Malta, the Netherlands, Germany, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and the United Kingdom)
- **European Free Trade Association – EFTA** (Iceland, Liechtenstein, Norway and Switzerland)
- **Central European Free Trade Agreement – CEFTA** (Albania, Bosnia and Herzegovina, Montenegro, Kosovo, Macedonia, Moldova and Serbia)
- **Organization of the Petroleum Exporting Countries – OPEC** (Algeria, Angola, Ecuador, Iraq, Islamic Republic of Iran, Qatar, Kuwait, Libya, Nigeria, Saudi Arabia, United Arab Emirates and the Bolivarian Republic of Venezuela)

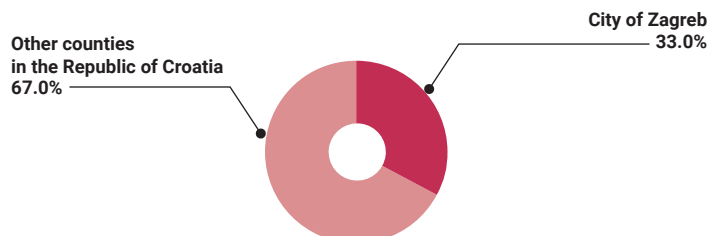
16.1 Export and import of the City of Zagreb and the Republic of Croatia

Thousands of HRK

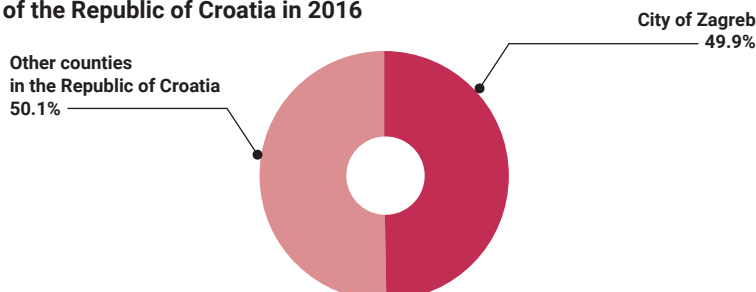
	2014	2015	2016
Export			
Republic of Croatia	79 099 297	87 772 423	92 763 217
City of Zagreb	28 189 078	29 034 173	30 630 374
Share of the City of Zagreb, %	35.6	33.1	33.0
Import			
Republic of Croatia	130 673 196	140 747 763	148 474 542
City of Zagreb	70 389 501	73 069 549	74 083 853
Share of the City of Zagreb, %	53.9	51.9	49.9
Balance of trade in goods			
Republic of Croatia	-51 573 899	-52 975 340	-55 711 325
City of Zagreb	-42 200 423	-44 035 376	-43 453 479
Share of the City of Zagreb, %	81.8	83.1	78.0
Coverage of import by export, %			
Republic of Croatia	60.5	62.4	62.5
City of Zagreb	40.0	39.7	41.3

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 16.1 Share of the export of the City of Zagreb in total export of the Republic of Croatia in 2016



G 16.2 Share of the import of the City of Zagreb in total import of the Republic of Croatia in 2016



16.2 Total export and import of the City of Zagreb in EUR

Thousands of EUR

	2014	2015	2016
Export	3 695 878	3 813 733	4 067 421
Import	9 227 651	9 596 351	9 835 964
Balance of trade in goods	-5 531 773	-5 782 618	-5 768 543

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

16.3 Export according to NCA 2007

Thousands of HRK

	2014	2015	2016
Total	28 189 078	29 034 173	30 630 374
A Agriculture, forestry, and fishing	254 218	172 560	202 525
B Mining and quarrying	7 564 488	6 218 156	5 295 285
C Manufacturing	9 864 515	10 793 526	12 128 269
D Electricity, gas, steam, and air conditioning supply	1 966 150	2 001 368	2 205 128
E Water supply; sewerage, waste management, and remediation activities	538 182	414 874	369 769
F Construction	151 707	210 178	192 131
G Wholesale and retail trade; repair of motor vehicles, and motorcycles	6 661 590	7 759 844	8 641 712
H Transportation and storage	20 809	105 393	86 375
I Accommodation and food service activities	21 170	29 446	27 758
J Information and communication	251 171	325 759	338 760
K Financial and insurance activities	47 497	45 494	12 320
L Real estate activities	51 070	28 541	42 159
M Professional, scientific, and technical activities	580 791	690 446	874 806
N Administrative and support service activities	53 178	55 794	144 095
O Public administration and defence; compulsory social security	1 637	29 600	2 901
P Education	157	69	323
Q Human health and social work activities	5 941	4 846	7 209
R Arts, entertainment, and recreation	4 096	6 196	3 345
S Other service activities	150 711	142 074	55 505
U Activities of extraterritorial organizations and bodies	-	-	-
X Unclassified	-	9	-

Source: CBS

16.4 Import according to NCA 2007

Thousands of HRK

		2014	2015	2016
Total		70 389 501	73 069 549	74 083 853
A	Agriculture, forestry, and fishing	281 939	248 791	213 807
B	Mining and quarrying	12 831 819	9 673 443	8 015 348
C	Manufacturing	9 806 072	10 928 817	10 675 619
D	Electricity, gas, steam, and air conditioning supply	3 510 316	4 638 165	4 068 551
E	Water supply; sewerage, waste management, and remediation activities	25 607	23 287	113 861
F	Construction	654 125	718 402	679 740
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	38 694 845	41 695 706	44 715 466
H	Transportation and storage	500 164	511 304	476 710
I	Accommodation and food service activities	49 342	122 506	129 135
J	Information and communication	2 135 759	2 556 096	2 173 085
K	Financial and insurance activities	270 706	285 909	255 895
L	Real estate activities	55 323	53 587	50 721
M	Professional, scientific, and technical activities	851 421	892 943	1 506 323
N	Administrative and support service activities	139 357	112 878	187 813
O	Public administration and defence; compulsory social security	38 296	68 507	211 998
P	Education	7 673	16 061	7 703
Q	Human health and social work activities	14 378	11 700	18 229
R	Arts, entertainment, and recreation	63 771	122 957	202 499
S	Other service activities	458 231	388 422	377 396
U	Activities of extraterritorial organizations and bodies	236	69	47
X	Unclassified	120	-	3 906

Source: CBS

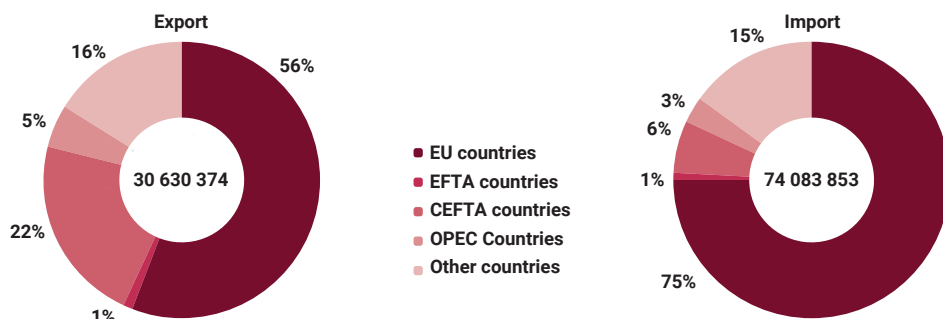
16.5 Export and import by economic classification of countries

Thousands of HRK

	Export			Import		
	2014	2015	2016	2014	2015	2016
Total	28 189 078	29 034 173	30 630 374	70 389 501	73 069 549	74 083 853
EU countries	15 533 419	16 845 148	17 008 565	49 239 451	53 554 725	55 375 418
EFTA countries	325 447	304 141	310 571	1 155 698	1 024 155	881 914
CEFTA countries	7 730 171	7 355 329	6 795 138	3 203 049	3 736 309	4 206 599
OPEC countries	1 029 202	738 865	1 548 269	1 772 153	2 126 197	2 389 524
Other countries	3 570 835	3 790 686	4 967 832	15 019 146	12 628 165	11 230 399

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 16.3 Export and import by economic classification of countries in 2016



16.6 Export and import of the City of Zagreb from and into partner countries

Thousands of HRK

	Export			Import		
	2014	2015	2016	2014	2015	2016
Total	28 189 078	29 034 173	30 630 374	70 389 501	73 069 549	74 083 853
Afghanistan	116	-	65	1	32	-
Albania	262 762	301 102	154 841	9 711	7 407	11 285
Algeria	280 918	169 507	181 097	-	20	7
US Virgin Islands	-	-	-	-	2	37
Andorra	-	1 154	-	8	6	-
Angola	91 554	43	199	-	-	30
Antigua and Barbuda	-	-	61	-	-	61
Argentina	602	1 848	11 848	28 961	56 278	38 670
Armenia	893	988	123 668	1	1	-
Aruba	-	37	-	-	-	-
Australia	32 315	27 366	42 021	7 510	3 104	4 706
Austria	787 098	1 108 955	1 026 122	4 665 043	5 054 251	4 667 452
Azerbaijan	56 778	2 691	5 381	1 907 597	2 688 410	1 625 729
Bahamas	27	-	-	7	5	116
Bahrain	10	114	1 854	3	-	-
Bangladesh	27 611	43 445	26 449	24 053	22 620	16 162
Barbados	-	-	-	-	-	-
Belgium	512 786	481 371	221 967	1 343 239	1 396 465	1 363 873
Belize	7 774	3 126	-	-	-	-
Benin	196	-	-	311	-	-
Ivory Coast	6 497	34 312	537	24	76	22
Belarus	99 346	169 305	120 525	2 849	2 413	1 190
Botswana	-	4	-	-	-	-
Bolivia, the Plurinational State of Bolivia	479	-	266	250	371	571
Bosnia and Herzegovina	5 104 491	4 514 111	4 267 758	1 474 920	1 812 979	2 255 108
Brazil	1 276	5 817	4 973	166 665	207 032	296 438
British Virgin Islands	155	28	2 501	273	72	1 794
Bulgaria	93 329	147 105	176 231	308 598	284 584	700 151
Burkina Faso	-	-	2 951	419	-	-
Cyprus	44 995	33 556	20 879	79 253	58 233	58 074
Montenegro	387 182	397 801	400 840	17 250	10 174	6 685
Curaçao	58	396	245	-	-	-
Chad	-	-	11	-	-	-
Czech	662 379	459 134	507 967	2 031 872	1 849 977	1 826 592
Chile	1 646	876	6 832	5 330	10 607	8 407
Denmark	78 456	83 830	68 026	434 223	586 166	610 802
Dominican Republic	108	1	398	587	981	591
Djibouti	397	123	276	-	-	-

16.6 Export and import of the City of Zagreb from and into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2014	2015	2016	2014	2015	2016
Egypt	365 337	527 840	511 094	14 320	23 023	279 694
Ecuador	3 739	262	581	94 471	86 576	98 750
Equatorial Guinea	-	223	-	-	-	-
Eritrea	-	675	3 641	-	-	-
Estonia	18 198	50 104	41 873	6 827	5 686	6 913
Ethiopia	101	21	6 384	3 053	3 812	2 162
Falkland Islands	-	-	-	4 123	-	-
Faroe Islands	-	103	30	-	-	-
Fiji	609	12	-	-	-	-
Philippines	23 936	43 315	8 153	4 334	8 576	8 304
Finland	118 600	88 317	60 324	129 477	106 603	83 918
France	245 557	289 973	438 962	1 875 426	2 018 615	2 199 506
French Polynesia	-	9	-	-	-	-
Gabon	885	1 824	1 611	-	-	-
Gambia	-	-	-	2	4	-
Ghana	105	211	420	10	36	31
Gibraltar	60 263	154 291	811 979	2 433	9 087	-
Greece	577 799	179 450	94 185	368 965	152 382	426 460
Georgia	38 175	1 290	409	1 431	2	451
Guam	-	-	-	-	-	2
Guyana	-	-	-	1	8	5
Guatemala	1 440	11	518	3 225	141	478
Guinea	185	-	-	38	-	-
Haiti	-	363	893	49	67	90
Honduras	-	-	-	21	570	1 681
Hong Kong	22 835	22 407	16 766	40 114	12 326	31 062
India	18 755	10 677	25 332	406 994	593 650	537 687
Indonesia	9 872	18 554	11 690	33 106	49 204	78 089
Iraq	45 513	80 765	6 588	232 056	948 133	1 192 475
Iran, Islamic Republic	655	2 905	3 744	4 323	2 006	2 852
Ireland	59 070	45 723	157 117	278 332	318 024	369 428
Iceland	2 488	6 944	16 717	10 249	9 931	3 808
Italy	2 606 187	2 308 900	2 373 762	6 702 040	5 884 866	5 998 903
Israel	78 365	266 187	157 786	76 134	58 724	71 012
Jamaica	105	-	-	-	-	-
Japan	23 149	19 056	18 558	95 967	127 958	182 640
Yemen	162	-	-	-	-	-
Jordan	5 548	4 008	1 027	5	359	585
South Sudan	-	383	2 525	-	-	-

16.6 Export and import of the City of Zagreb from and into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2014	2015	2016	2014	2015	2016
South Africa	118 405	19 975	6 628	6 510	4 230	10 786
Cayman Islands	-	-	1 566	-	-	-
Cambodia	-	10	-	3 803	8 342	9 963
Cameroun	-	2 123	85	29	461	269
Canada	100 568	133 869	136 683	57 287	57 975	49 116
Qatar	93 781	98 088	313 737	199	1 410	432
Kazakhstan	43 542	29 735	23 372	378 368	397	624 461
Kenya	662	4 261	699	44	14	4
China	49 791	68 834	102 534	1 813 744	2 091 227	2 086 186
Kyrgyz Rep.	-	27	-	314	550	361
Kiribati	-	-	-	-	5	18
Cocos Islands (or the Keeling Islands)	-	-	-	4	-	-
Colombia	1 651	1 118	2 698	5 030	6 229	4 235
Congo	712	389	1 091	5	6	17
Congo, Democratic Republic	-	-	681	-	-	-
Korea, Republic	23 910	16 214	22 968	442 051	443 254	138 280
Kosovo	256 977	257 003	199 402	12 541	14 478	7 531
Costa Rica	31 384	281	100	33 557	5 741	892
Cuba	7 095	12 496	15 350	1 759	2 470	1 313
Kuwait	925	16 037	58 579	-	1	10
Laos, People's Democratic Republic	32	-	-	51	73	105
Latvia	43 028	47 801	40 548	6 460	15 544	18 234
Lebanon	143 066	111 949	22 033	115	414	288
Liberia	-	21	202	-	-	-
Libya	35 863	1 695	12 489	380 068	203 283	588 182
Liechtenstein	5 035	2	75	895	467	182
Lithuania	41 235	50 612	49 274	36 816	56 010	87 363
Luxembourg	100 628	16 053	9 770	71 475	47 875	61 650
Madagascar	-	-	-	17	16	55
Hungary	1 186 845	1 520 146	1 671 517	4 606 176	6 614 083	5 970 190
Macao	2	-	22	248	11	2 067
Macedonia	339 745	335 006	326 067	206 266	218 436	227 037
Malawi	-	145	-	1	-	2
Maldives	261	-	218	-	-	-
Malaysia	328	824	76 335	44 264	54 492	52 171
Mali	142	-	1 988	16	44	8
Malta	550 032	394 353	184 016	14 824	6 904	13 147
Morocco	41 568	27 359	20 112	1 237	7 028	5 875
Marshall Islands	3 289	20 815	1 453	-	1	-

16.6 Export and import of the City of Zagreb from and into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2014	2015	2016	2014	2015	2016
Mauritius	4 352	2 445	88	2 068	2 172	2 712
Mauritania	19	-	-	-	-	-
Mexico	37 129	10 215	1 206	31 744	32 265	28 354
Myanmar	4 331	5 298	1 835	3 145	1 747	757
Moldova, Republic of	14 885	9 123	21 536	8 316	5 664	6 067
Mongolia	92	229	97	-	1	-
Mozambique	821	2 215	2 168	-	102	4
Namibia	19 265	153	76	10	8	23
Nepal	76	631	273	1 005	681	532
Niger	117	205	19	-	-	-
Nigeria	46 860	49 313	8 132	737 124	260 531	-
Nicaragua	144	28	-	8	5	111
Netherlands	402 201	787 175	448 281	2 491 903	2 941 145	3 201 736
Norway	198 927	112 169	154 833	20 385	29 346	25 090
New Caledonia	-	-	0	-	-	-
New Zealand	1 608	2 963	6 987	4 975	2 928	11 026
Germany	2 036 621	2 175 948	2 588 513	9 649 749	10 554 704	11 329 312
Occupied Palestinian Territory	-	-	1 754	-	-	-
Oman	1 666	138 795	1 486	3 272	714	5 383
Bouvet Island	-	-	-	-	-	1
Pakistan	424	3 803	525	26 835	27 955	30 563
Panama	-	266	2 177	1 598	124	22
Papua New Guinea	-	420	-	325	1 419	1 431
Paraguay	171	129	45	-	-	-
Peru	5 826	1 125	25 821	1 355	1 704	631
Poland	295 835	329 021	339 191	1 813 958	2 242 054	2 492 668
Portugal	39 995	42 800	45 474	75 841	69 884	81 563
Rwanda	-	-	1 633	-	-	-
Romania	101 625	155 926	150 553	353 977	376 797	292 048
Russia	889 197	704 044	624 243	5 879 315	2 657 300	1 647 375
Salvador	1 084	1 699	949	8	35	3
Samoa	-	-	-	-	-	47
San Marino	271	157	147	163	844	1 581
Saudi Arabia	307 914	171 254	756 277	320 225	615 878	504 972
Seychelles	684	818	303	-	278	-
Senegal	403	1 724	201	-	-	2
Sierra Leone	-	-	355	-	-	-
Singapore	10 788	8 270	50 417	21 034	24 035	30 192

16.6 Export and import of the City of Zagreb from and into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2014	2015	2016	2014	2015	2016
Syria	-	70	98	-	-	25
United States of America	478 677	700 971	1 407 764	733 768	834 513	938 504
Slovakia	241 065	290 031	254 798	1 287 866	1 539 889	1 325 809
Slovenia	3 851 937	4 856 219	4 909 430	8 034 181	8 422 517	9 138 059
Solomon Islands	2 103	24	96	-	36	6
Serbia	1 364 129	1 541 183	1 424 694	1 474 045	1 667 171	1 692 886
Sudan	19 821	3 605	3 085	-	-	-
Suriname	297	-	4	-	-	-
Swaziland	-	-	-	-	4	-
Saint Christopher and Nevis	-	-	-	-	2	71
Saint Martin (the Dutch part)	-	748	138	-	-	-
Spain	156 624	347 191	349 371	1 140 109	1 428 142	1 429 802
Sri Lanka	-	115	23	1 830	2 333	3 680
Sweden	270 744	191 091	401 398	587 144	537 623	638 295
Switzerland	118 997	185 026	138 946	1 124 169	984 411	852 834
Tajikistan	188	49	-	-	-	-
Thailand	1 859	939	1 969	91 842	75 519	70 800
Taiwan	4 111	4 119	4 043	173 080	161 936	90 512
Tanzania, United Republic of	4 562	4 112	4 771	-	-	11
Togo	-	497	24	-	-	-
Tokelau	9	-	-	5	-	3
Tonga	-	-	10	-	-	-
Trinidad and Tobago	9	1 167	-	-	-	5
Tunisia	161 545	1 574	57 632	1 886	2 513	2 320
Turkmenistan	-	11 988	-	-	-	-
Turkey	230 998	255 230	223 671	709 461	766 540	825 277
Uganda	-	-	-	121	1	-
United Kingdom	410 550	364 363	379 016	845 677	985 702	983 470
United Arab Emirates	121 197	148 996	206 845	3 588	8 278	1 757
Ukraine	154 271	16 431	68 628	83 921	24 811	52 476
Uruguay	740	121	270	299	4 660	1
Uzbekistan	-	104	9	-	-	-
Venezuela, Bolivarian Republic	283	-	1	99	81	57
Vietnam	30 861	27 257	40 025	87 560	101 632	79 081
Zambia	129	1 289	17 017	4	-	21
Zimbabwe	-	23	-	29	36	2
Other countries	49 668	61 085	49 254	1 539 817	1 336 775	1 231 915

Source: CBS

16.7 Most important export partners

Thousands of HRK

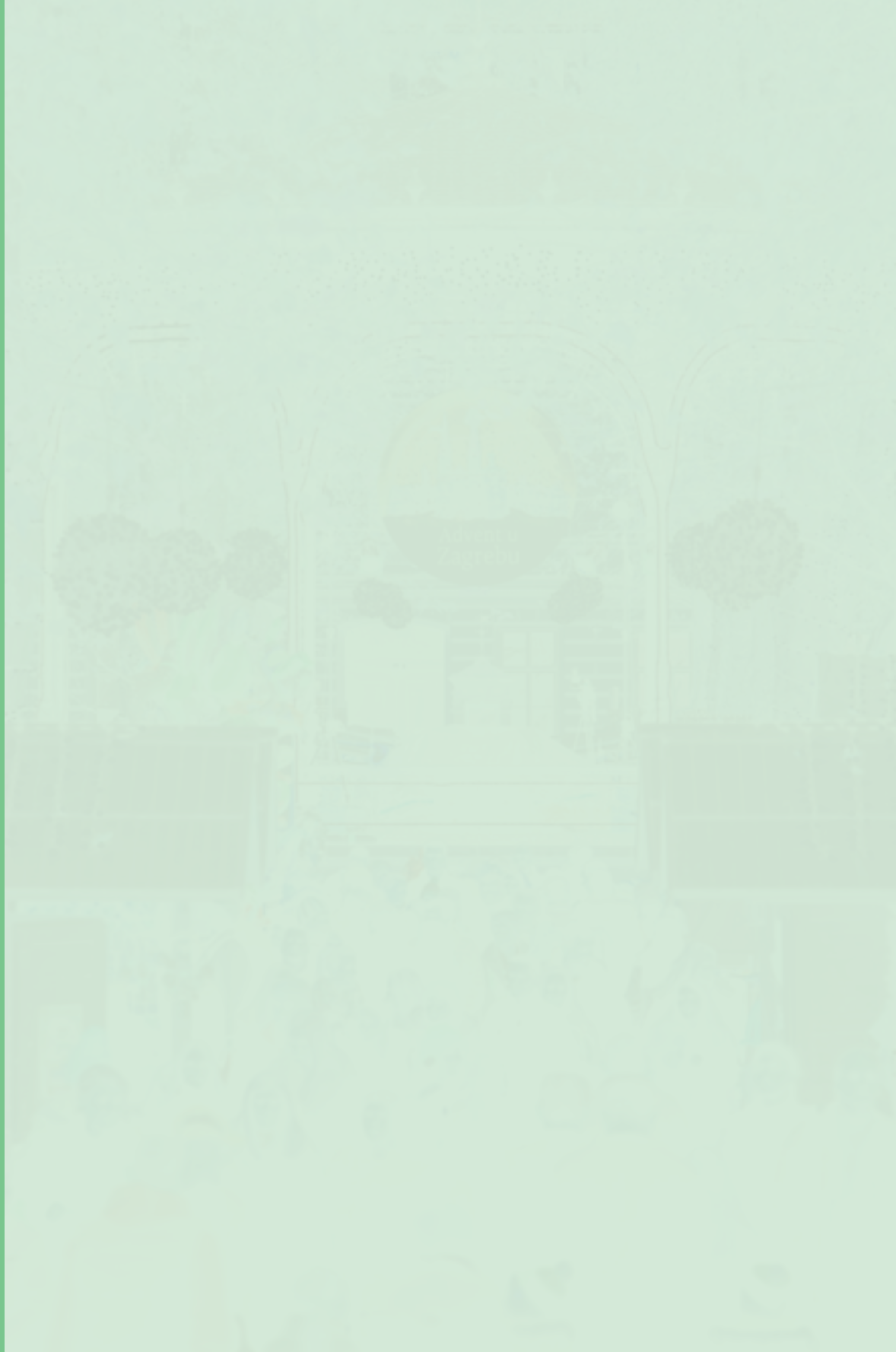
	2014	2015	2016
Total	28 189 078	29 034 173	30 630 374
Slovenia	3 851 937	4 856 219	4 909 430
Bosnia and Herzegovina	5 104 491	4 514 111	4 267 758
Germany	2 036 621	2 175 948	2 588 513
Italy	2 606 187	2 308 900	2 373 762
Hungary	1 186 845	1 520 146	1 671 517
Serbia	1 364 129	1 541 183	1 424 694
United States of America	478 677	700 971	1 407 764
Austria	787 098	1 108 955	1 026 122
Gibraltar	60 263	154 291	811 979
Saudi Arabia	307 914	171 254	756 277
Russia	889 197	704 044	624 243
Egypt	365 337	527 840	511 094
Czech	662 379	459 134	507 967
Netherlands	402 201	787 175	448 281
France	245 557	289 973	438 962
Sweden	270 744	191 091	401 398
Montenegro	387 182	397 801	400 840
United Kingdom	410 550	364 363	379 016
Spain	156 624	347 191	349 371
Poland	295 835	329 021	339 191
Other countries	6 319 310	5 584 562	4 992 195

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

16.8 Most important import partners

	Thousands of HRK		
	2014	2015	2016
Total	70 389 501	73 069 549	74 083 853
Germany	9 649 749	10 554 704	11 329 312
Slovenia	8 034 181	8 422 517	9 138 059
Italy	6 702 040	5 884 866	5 998 903
Hungary	4 606 176	6 614 083	5 970 190
Austria	4 665 043	5 054 251	4 667 452
Netherlands	2 491 903	2 941 145	3 201 736
Poland	1 813 958	2 242 054	2 492 668
Bosnia and Herzegovina	1 474 920	1 812 979	2 255 108
France	1 875 426	2 018 615	2 199 506
China	1 813 744	2 091 227	2 086 186
Czech	2 031 872	1 849 977	1 826 592
Serbia	1 474 045	1 667 171	1 692 886
Russia	5 879 315	2 657 300	1 647 375
Azerbaijan	1 907 597	2 688 410	1 625 729
Spain	1 140 109	1 428 142	1 429 802
Belgium	1 343 239	1 396 465	1 363 873
Slovakia	1 287 866	1 539 889	1 325 809
Iraq	232 056	948 133	1 192 475
United Kingdom	845 677	985 702	983 470
United States of America	733 768	834 513	938 504
Other countries	10 386 817	9 437 406	10 718 218

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics



17

Tourism



NOTES ON METHODOLOGY

Source and method of data collection

Data on tourist arrivals and overnight stays are collected from the Monthly Report on Tourist Arrivals and Overnight Stays (TU-11 form) and the eVisitor system (official central electronic system for check-in and checkout of tourists).

By publishing the Ordinance on Managing Tourist Records and the Form and Content of the Check-in Form for Checking in Tourists with Tourist Boards (Official Gazette 126/05), the eVisitor system has officially become the central electronic system for check-in and check-out of tourists in the Republic of Croatia. The system has been implemented since 1 January 2016.

For this reason, since 2016, the tourist boards are no longer reporting units for the number of tourist arrivals and overnight stays in households, crafts and enterprises whose accommodation facilities are classified into rooms for rent, apartments, studio apartments, summer houses and camps in households according to the Ordinance on Classification, Minimum Requirements and Categorization of Hotel and Restaurant Facilities (Official Gazette 88/07, 49/08, 5/08, 58/08, 75/08, 45/09, 44/11, 118/11 and 33/14). Monthly data on the number of tourists and accommodation capacities for the appropriate types of accommodation facilities are collected from the eVisitor system. Such data are then further processed for statistical purposes.

For all other types of accommodation facilities, data are still collected based on the TU-11 form.

Coverage and comparability

Monthly survey of tourist arrivals and overnight stays (TU-11 form) includes data on all business entities (companies, institutions, associations and the parts thereof), craftsmen, natural persons and households engaged in providing accommodation services to tourist for a shorter period of time.

Accommodation facilities are classified according to the Ordinance on Classification, Minimum Requirements and Categorization of Hotel and Catering Facilities (Official Gazette 88/07, 05/08, 49/08, 58/08, 75/08, 45/09, 44/11, 118/11, 33/14, 92/14 and 49/15) as follows: hotels, heritage hotels, all-suite hotels, integrated hotels, diffused hotels, lodging houses, camps, campsites outside camps, rooms for rent, apartments, studio apartments, hostels, mountain lodges, hunting lodges, pupils or students dormitories (when used for tourism purposes), households, sleeping cars and wagon-lits.

Pursuant to the Catering Act (Official Gazette 85/15), residential and rural households for accommodation are facilities where the landlord, i.e. owner, provides accommodation in a room, apartment or summer house, having up to ten rooms or 20 permanently available beds, or where the owner provides accommodation in a camp located on land leased by the owner, having up to ten accommodation units, i.e. for accommodation of 30 guests at the same time.

Definitions and explanations

Tourism are the activities of persons travelling and staying in places outside their usual environment for less than a year, for leisure, work or other purposes, excluding employment with a business entity with registered office in the place of visit.

Tourist is any person who, outside his/her permanent residence, spends at least one night in a hotel or other facilities providing tourist accommodation, for the purpose of leisure, recreation, health, study, sports, religion, family, work, public missions or conferences.

eVisitor is the central electronic system for check-in and check-out of tourists that functionally links all tourist boards in the Republic of Croatia. It can be accessed via the Internet and used without installation on the computer.

Tourist is registered in every location and facility he/she stays, so in case of change of location or facility, the tourist is re-registered, which results in data ambiguity. Therefore, in statistics, record is kept on the number of tourist arrivals, and not the number of tourists.

Permanent residence is the place where a person came with the intention to stay there permanently.

Domestic tourist is every person with permanent residence in the Republic of Croatia who spends at least one night in a hotel or some other accommodation establishment in any place of the Republic of Croatia that is outside his or her permanent residence.

Foreign tourist is every person with permanent residence outside the Republic of Croatia who temporarily resides in the Republic of Croatia and spends at least one night in a hotel or other accommodation establishment.

Tourist arrivals mean the number of persons (tourists) who came and registered their stay in an accommodation establishment.

Tourist overnight stay means every registered overnight stay of a person (tourist) in an accommodation establishment.

Accommodation capacity is shown as the number of rooms, apartments, camping sites and the total number of beds as at 31 August. By applying Regulation No. 692/2011 of the European Parliament and Council concerning European statistics on tourism, accommodation capacity is presented for the month of the year when it was the highest.

Permanently available beds are beds that are regularly available for rent to guests.

17.1 Tourist accommodation capacities by type of accommodation

Status as of 31 August

	2015				2016			
	Facilities	Rooms	Apartments and camping sites	Beds – total ¹⁾	Facilities	Rooms	Apartments and camping sites	Beds – total ¹⁾
Total	196	5 147	1 017	14 719	183	4 933	1 270	15 109
Hotels and similar accommodation ²⁾	52	3 720	222	7 464	54	3 816	190	7 672
Hotels	50	3 704	202	7 365	49	3 530	149	7 087
Rooms for rent, apartments, studio apartments, holiday homes ³⁾	94	320	696	889	83	401	969	4 472
Hostels	42	575	-	2 304	43	605	-	2 165
Camp sites	1	-	99	-	1	-	111	-
Other accommodation facilities ⁴⁾	7	532	-	4 062	2	111	-	800

¹⁾ Permanently available and extra beds.

²⁾ Hotels, all-suite aparthotels, integral hotels, heritage hotels and special standard hotels.

³⁾ Rooms for rent, apartments, studio apartments, holiday homes in households and rural households.

⁴⁾ Overnight accommodation, inns offering accommodation services, mountain huts.

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 17.1 Number of tourist arrivals



17.2 Tourist arrivals and overnight stays by type of tourist accommodation facilities

	2015				2016			
	Arrivals		Overnight stays		Arrivals		Overnight stays	
	Total	Foreign	Total	Foreign	Total	Foreign	Total	Foreign
Total	1 077 778	859 140	1 804 290	1 428 551	1 152 598	920 303	2 016 107	1 620 899
Hotels and similar accommodation ¹⁾	785 475	651 991	1 241 028	1 035 367	830 234	683 631	1 335 775	1 108 817
Hotels	775 945	644 330	1 226 068	1 023 059	762 323	623 890	1 220 454	1 005 617
Rooms for rent, apartments, studio apartments, holiday homes ²⁾	100 571	78 327	245 597	186 862	143 148	112 685	366 486	288 056
Hostels	119 694	87 073	228 872	151 121	124 858	92 966	227 924	164 224
Other accommodation facilities ³⁾	72 038	41 749	88 793	55 201	54 358	31 021	85 922	59 802

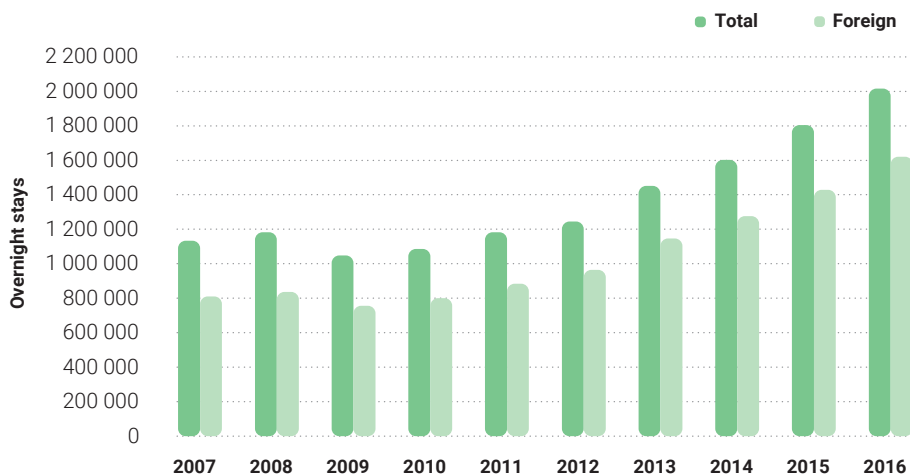
¹⁾ Hotels, all-suite aparthotels, integral hotels, heritage hotels and special standard hotels.

²⁾ Rooms for rent, apartments, studio apartments, holiday homes in households and rural households.

³⁾ Overnight accommodation, inns offering accommodation services, mountain huts.

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 17.2 Number of realised tourist overnight stays



17.3 Tourist arrivals and overnight stays by country of residence

	2013		2014		2015		2016	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Total	876 604	1 451 891	967 902	1 602 420	1 077 778	1 804 290	1 152 598	2 016 107
Domestic	190 884	305 323	197 648	326 715	218 638	375 739	232 295	395 208
Foreign	685 720	1 146 568	770 254	1 275 705	859 140	1 428 551	920 303	1 620 899
Austria	33 147	47 930	32 104	45 306	32 375	48 688	35 278	53 805
Belgium	10 962	19 767	8 857	16 152	9 833	16 703	12 098	22 531
Bosnia and Herzegovina	22 355	37 790	23 152	40 148	26 800	44 749	35 960	61 381
Bulgaria	22 352	28 977	26 407	33 336	28 853	37 288	31 334	42 297
Montenegro	3 626	7 229	4 055	8 235	4 589	9 273	5 138	10 462
Czech	7 090	12 392	8 257	13 526	8 017	14 193	9 647	16 860
Denmark	5 449	9 965	5 550	10 985	5 770	10 744	5 907	11 602
France	27 549	47 416	25 261	44 088	26 715	48 249	26 964	51 715
Italy	43 110	78 957	45 234	85 176	47 588	91 520	55 446	105 826
Hungary	10 921	18 197	11 502	19 296	12 158	20 196	13 264	23 577
Macedonia	6 983	11 213	6 756	11 527	8 417	15 311	8 739	15 885
Netherlands	16 636	27 015	17 162	29 372	17 415	30 323	17 629	34 031
Norway	3 307	6 241	3 158	6 141	3 202	6 302	3 321	7 642
Germany	61 695	99 717	61 664	99 563	63 779	107 538	61 037	108 631
Poland	13 278	21 175	14 613	23 738	17 963	27 402	19 545	33 052
Portugal	5 776	9 649	6 458	11 779	7 982	13 512	7 483	15 461
Romania	9 212	17 066	9 460	19 237	10 636	19 434	12 192	25 199
Russia	10 620	22 919	10 868	21 584	9 436	18 236	9 956	22 247
Slovakia	4 797	8 205	5 723	10 029	5 724	9 682	6 583	11 750
Slovenia	18 576	26 578	18 706	27 679	21 464	35 122	25 818	41 545
Serbia	21 652	37 318	24 226	43 880	25 890	46 334	29 120	55 031
Spain	27 416	41 808	31 497	50 647	33 441	54 971	31 477	56 545
Sweden	8 109	13 485	7 125	13 764	7 669	14 580	8 037	16 500
Switzerland	19 420	25 741	19 980	27 147	24 534	34 338	22 345	35 621
Turkey	7 225	13 584	6 681	12 524	7 420	13 367	9 999	21 234
United Kingdom	30 797	62 312	31 267	62 529	32 244	64 519	33 366	75 413
Other European countries	32 075	57 947	33 616	62 143	33 864	65 703	38 527	77 416
Australia	14 874	27 151	15 348	29 442	16 874	33 189	17 516	36 953
Israel	12 060	26 808	12 512	26 530	13 362	26 345	14 612	29 737
Japan	29 111	37 590	33 444	43 222	28 123	37 372	21 795	30 554
Canada	11 474	21 258	13 142	25 835	16 283	30 881	18 766	37 284
China	16 401	21 929	21 740	28 380	29 944	38 581	31 453	44 618
Republic of Korea	21 293	25 829	67 670	77 549	90 787	102 238	94 537	107 655
USA	40 458	79 016	43 746	88 238	53 457	113 086	53 541	113 086
Other non-European countries	55 914	96 394	63 313	106 978	76 532	128 582	91 873	167 753

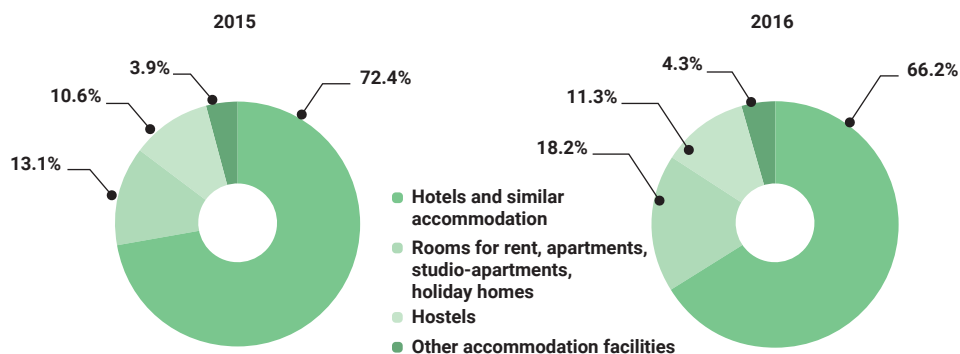
Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

17.4 Means of tourist arrivals

	2013		2014		2015		2016	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Total	876 604	1 451 891	967 902	1 602 420	1 077 778	1 804 290	1 152 598	2 016 107
Individual	613 350	1 013 899	634 717	1 069 073	705 832	1 211 186	784 751	1 393 785
Domestic tourists	160 215	242 280	164 085	259 455	180 659	294 705	192 519	316 315
Foreign tourists	453 135	771 619	470 632	809 618	525 173	916 481	592 232	1 077 470
Organized	263 254	437 992	333 185	533 347	371 946	593 104	367 847	622 322
Domestic tourists	30 669	63 043	33 563	67 260	37 979	81 034	39 776	78 893
Foreign tourists	232 585	374 949	299 622	466 087	333 967	512 070	328 071	543 429

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 17.3 Structure of foreign tourist overnight stays by type of accommodation facility





18

Municipal services



NOTES ON METHODOLOGY

Data sources

Data on municipal (utility) services (public water supply, sewerage, gas, electricity, markets, city cemeteries and parks) are collected directly from utility companies in accordance with the Municipal Services Act (Official Gazette 128/89, 57/00, 129/00, 59/01, 36/95 and 70/97). These companies are subsidiaries of the company Zagreb Holding (Zagrebački Holding d.o.o.).

Data on the number of fires and people killed in fires are supplied by the Ministry of the Interior.

Data on the number of firefighting interventions were obtained from the Public Fire Department of the City of Zagreb.

Coverage and comparability

Data pertains to all business entities engaged in municipal activities.

Definitions and explanations

Municipal activities, within the meaning of the Municipal Services Act, pertains to carrying out utility services, provision of utility services of interest to natural and legal persons and financing of construction and maintenance of structures and facilities of utility infrastructure as an integral system in the territory of municipalities, cities, local self-government units and counties, when defined by the Act.

Public water supply system is a water supply system that includes strictly controlled sources of drinking water, reservoirs, sedimentation tanks and other plants for treatment and processing of drinking water, as well as water supply network.

Public sewerage network is a network of closed street pipelines and sewers that is used for draining waste and atmospheric water (general sewerage network), or for draining of waste water and atmospheric water separately (separate sewerage network).

Main sewer is a collecting drain that drains water from one part of the city or the entire city to the recipient or purification device.

Storm drains are structures connected to the sewerage network that are installed in the streets and used for receiving rainwater from surfaces, such as streets, squares, etc.

Market can be a space (open or closed) for sales of goods, specially arranged, equipped and organized business premises and/or buildings, with supporting infrastructure in which agricultural products are sold and wholesale and retail trade is carried out according to the predefined rules, with charge of sales premises.

Public swimming pools (indoor and outdoor) are public swimming pools that can be used by citizens. Swimming pools in health clubs, fitness centres, private clubs, relaxation pools (jacuzzi and spa) in hotels and massage salons are not included. Public swimming pools are part of a larger recreation centre or recreation building complex.

Victim/seriously injured person is any person who died or who was seriously injured, regardless of his/her nationality.

Public Fire Department of the City of Zagreb

manages fire extinguishing in the City of Zagreb, where it cooperates with the Volunteer Fire Department of the City of Zagreb. Fire departments of the City of Zagreb are established and operate based on the Ordinance on the organization, equipment, training, manner of launching and operation of intervention firefighting units and the reimbursement of costs incurred by its operation (Official Gazette 31/11), which is the secondary regulation of the Fire Protection Act (Official Gazette 106/99, 117/01, 36/02, 96/03, 174/04, 38/09, 80/10).

Burial plot, in accordance with the Cemeteries Act (Official Gazette 18/98) and the Decision on Cemeteries (Official Gazette of the City of Zagreb 18/15, issued by the Assembly of the City of Zagreb), means a grave, a grave for urns or an urn vault (an urn casket).

18.1 Public water supply and sewerage network and district heating by settlements¹⁾

Status at the end of 2016

Settlements	Public water supply network	Public sewerage network	District heating	Settlements	Public water supply network	Public sewerage network	District heating
Adamovec	+	-	-	Jesenovec	+	-	-
Belovar	+	-	-	Ježdovec	+	+	-
Blaguša	+	-	-	Kašina	+	-	-
Botinec	+	+	-	Kašinska Sopnica	+	-	-
Brebernica	+	-	-	Kučilovina	+	-	-
Brezovica	+	+	-	Kučanec	+	+	-
Budenec	+	-	-	Kupinečki Kraljevec	+	-	-
Buzin	+	+	-	Lipnica	+	-	-
Cerje	+	-	-	Lučko	+	+	-
Demerje	+	+	-	Lužan	+	-	-
Desprim	+	+	-	Mala Mlaka	+	+	-
Dobrodol	+	+	-	Markovo Polje	+	+	-
Donji Čehi	+	+	-	Moravče	+	-	-
Donji Dragonožec	+	-	-	Odra	+	+	-
Donji Trpuci	+	-	-	Odranski Obrež	+	+	-
Drenčec	+	-	-	Paruževina	+	+	-
Drežnik Brezovički	+	+	-	Planina Donja	-	-	-
Dumovec	+	+	-	Planina Gornja	-	-	-
Đurđekovec	+	+	-	Popovec	+	+	-
Gajec	+	-	-	Prekrvršje	+	+	-
Glavnica Donja	+	-	-	Prepuštovec	+	-	-
Glavnica Gornja	+	-	-	Sesvete	+	+	-
Glavničica	+	-	-	Soblinec	+	-	-
Goli Breg	+	+	-	Starjak	+	-	-
Goranec	+	-	-	Strmec	+	+	-
Gornji Čehi	+	+	-	Šašinovec	+	+	-
Gornji Dragonožec	+	-	-	Šimunčevac	+	-	-
Gornji Trpuci	+	-	-	Veliko Polje	+	+	-
Grančari	+	+	-	Vuger Selo	+	+	-
Havidić Selo	+	-	-	Vugrovec Donji	+	+	-

18.1 Public water supply and sewerage network and district heating by settlements¹⁾

(Continued)

Status at the end of 2016

Settlements	Public water supply network	Public sewerage network	District heating	Settlements	Public water supply network	Public sewerage network	District heating
Horvati	+	-	-	Vugrovec Gornji	+	-	-
Hrašće Turopoljsko	+	+	-	Vurnovec	-	-	-
Hrvatski Leskovac	+	+	-	Zadvorsko	+	+	-
Hudi Bitek	+	+	-	Zagreb ²⁾	+	+	+
Ivanja Reka	+	+	-	Žerjavinec	+	-	-

¹⁾ The settlement or part of the settlement has (+) or does not have (-) public water supply network, public sewerage network, and district heating.

²⁾ The town of Zagreb makes almost 90% of the population of the City of Zagreb.

Source: Zagreb Holding – subsidiary Water Supply and Drainage

18.2 Public water supply

	Length of pipeline, km	Tanks		Number of connections	Total quantity of water entering the system	Water loss in the water supply network	Quantity of distributed water			
		No.	Volume, thousands of m³				Total	To house holds	To economic operators	To other users
thousands of m³										
2012	2 358	30	116 7	81 742	113 289	53 435	59 854	43 901	14 652	1 301
2013	2 364	30	112 5	82 590	107 085	51 998	55 087	39 563	14 397	1 127
2014	2 381	30	112 5	83 074	106 372	52 510	53 862	39 144	13 662	1 056
2015	2 554	32	122 4	83 948	109 992	56 034	53 958	38 987	13 818	1 153
2016	2 649	32	122 4	84 621	112 687	58 152	54 535	38 830	14 540	1 165

Source: Zagreb Holding, subsidiary Zagreb Holding – subsidiary Water Supply and Drainage

18.3 Public sewerage

	Length of sewerage network, km			Number of sewerage connections	Number of storm drains
	Total	Number of sewer mains	Sewerage network		
2012	1 835	223	1 612	69 480	55 000
2013	1 842	223	1 619	70 226	55 000
2014	1 846	223	1 623	70 780	55 000
2015	2 074	223	1 851	71 420	55 300
2016	2 097	308	1 789	71 936	55 400

Source: Zagreb Holding, subsidiary Zagreb Holding – subsidiary Water Supply and Drainage

18.4 Electricity

	Length of power lines, km		Amount of produced electrical energy in GWh	Quantity of consumed electrical energy			Number of consumers	Number of street light locations in streets and on squares				
	underground power line	overhead power lines		Households	Economic operators	Street lights		Fluorescent street lights	Sodium street lights	LED street lights	Floodlights	Sodium floodlights
				MWh								
2012	4 994	3 648	2 302	1 016 819	1 700 151	85 663	417 664	338	123 000	15	14	810
2013	5 005	3 596	1 719	973 076	1 667 790	84 596	420 082	352	123 750	45	14	875
2014	5 028	3 578	653	952 137	1 646 720	81 213	421 401	365	124 260	86	14	894
2015	5 095	3 578	747	958 838	1 719 175	81 294	424 239	365	128 750	483	14	935
2016	5 174	3 575	926	940 792	1 730 184	79 926	426 889	365	129 800	1 611	14	955

Source: City Office for Physical Planning, Construction of the City, Utility Services and Transport, HEP – Distribution System Operator and HEP Generation

18.5 Thermal energy distribution to the city

	2012	2013	2014	2015	2016
Total quantity of distributed process steam, tons	423 592	400 098	315 387	331 648	325 789
Total quantity of distributed heat, MWh	1 421 100	1 435 349	1 208 051	1 266 274	1 279 831
Heating of dwellings by heating plants and boiler rooms in housing estates					
Number of dwellings	93 389	94 372	94 658	94 779	96 085
Dwellings area, m ²	5 116 191	5 172 005	5 188 743	5 199 459	5 252 223
Distributed heat, MWh	1 039 351	1 045 742	893 990	917 824	905 743

Source: HEP – District Heating

18.6 Distribution of gas and number of consumers¹⁾

	Gas distribution pipeline, km	Quantity of distributed gas, millions of kWh			Number of consumers of gas connected to the public gas pipeline			Number of street light locations
		Total	Households	Companies	Total	Households	Companies	
2012	2 945	3 510	2 251	1 259	255 588	234 126	21 462	239
2013	2 958	3 638	2 338	1 300	257 513	237 941	19 572	239
2014	2 973	3 056	-	-	258 557	-	-	239
2015	2 996	3 402	-	-	259 820	-	-	239
2016	3 038	3 523	-	-	261 412	-	-	239

¹⁾ From 2014, Consumption and consumers have been categorised in accordance with the Methodology for Determining the Tariff Items for the Distribution of Gas (Official Gazette 104/13).

Source: Zagreb Holding, subsidiary City Gasworks Zagreb – Supply

18.7 Gas consumption in 2016

Tariff model		Distribution of gas, millions of kWh		Number of consumers of gas connected to the public gas pipeline	
		2015	2016	2015	2016
Ukupno		3 402	3 523	259 820	261 412
TM1	≤ 5 000 kWh	185	176	118 377	99 948
TM2	> 5 000 kWh ≤ 25 000 kWh	1 471	1 552	131 128	146 810
TM3	> 25 000 kWh ≤ 50 000 kWh	435	462	7 653	11 368
TM4	> 50 000 kWh ≤ 100 000 kWh	119	125	1 325	1 782
TM5	> 100 000 kWh ≤ 1 000 000 kWh	423	417	1 136	1 286
TM6	> 1 000 000 kWh ≤ 2 500 000 kWh	185	195	119	137
TM7	> 2 500 000 kWh ≤ 5 000 000 kWh	190	169	54	49
TM8	> 5 000 000 kWh ≤ 10 000 000 kWh	121	136	18	21
TM9	> 10 000 000 kWh ≤ 25 000 000 kWh	86	107	5	6
TM10	> 25 000 000 kWh ≤ 50 000 000 kWh	187	129	5	4
TM11	> 50 000 000 kWh ≤ 100 000 000 kWh	-	55	-	1
TM12	> 100 000 000 kWh	-	-	-	-

Source: Zagreb Holding, subsidiary City Gasworks Zagreb – Supply

18.8 Parks, other greenspace, gardens and public playgrounds

	Parks ¹⁾		Grassland ¹⁾	Botanical gardens		Zoological garden		Tree-lined roads ¹⁾	Public play-grounds ¹⁾
	Number	Surface area, thousands of m ²	Surface area, thousands of m ²	Number of gardens	Surface area, thousands of m ²	Number	Surface area, thousands of m ²	Length, km	Number of playgrounds
2012	45	592	10 319	2	72	1	70	206	580
2013	45	592	10 388	2	72	1	70	208	590
2014	45	592	10 462	2	72	1	70	214	644
2015	45	592	10 462	2	72	1	70	220	644
2016	45	592	10 562	2	72	1	70	225	650

¹⁾ Data refers to the areas maintained by Zagreb Holding, subsidiary Zrinjevac.

Source: Zagreb Holding, subsidiary Zrinjevac; Botanical Garden of the Faculty of Pharmacy and Biochemistry; Zagreb Zoo

18.9 Parks in the city area¹⁾

Status at the end of 2016

Name of the park	Surface area, m ²	Name of the park	Surface area, m ²	Name of the park	Surface area, m ²
Newlyweds Park	69 313	Dubec Park	13 000	Dragutin Domjanić Square	5 620
V. Majer Park	45 593	Sesvete Elementary School	12 600	Kapucinska-Pljevljanska Park	5 537
Ribnjak	41 709	N. Š. Zrinski Square	12 540	Moravče	4 861
Cerje	29 926	Dubrava Park	12 166	Hercegovačka	3 953
Krešimir Square	23 057	Marulić Square	12 135	Starčević Square	3 920
Stara Trešnjevka Park	22 100	Roko's Gardens	10 878	Green Square	3 915
Prisavlje – Boules Centre	21 347	Trnovčica Park City District	10 078	Vukovar Avenue 235	3 785
Kašina	20 626	Poljanice Park	10 000	Domagojeva 17-19	3 618
Brezje Park	18 000	Youth Park	9 459	Bosanska	3 500
Tomislav Square	17 755	French Republic Square	9 006	Žerjavinec	3 473
Park in front of Mirogoj Cemetery	16 131	Svačić Square	8 605	Moslavina Square	3 421
Rab Park	16 024	Mažuranić Square	7 715	Joševski Park	3 272
Vugrovec	15 646	Švarcova – Petrova – Rendićeva	7 557	Trešnjevka Square	3 237
Maksimirska – Hondlova	14 499	Jurjevska	6 957	Bartol Kašić Park	3 095
Strossmayer Square	14 102	Secondary School Centre Sesvete	6 234	Jagićeva	1 884

¹⁾ Data refers to the areas maintained by Zagreb Holding, subsidiary Zrinjevac.

Source: Zagreb Holding, subsidiary Zrinjevac

18.10 Markets

	2012	2013 ¹⁾	2014 ¹⁾	2015 ¹⁾	2016 ¹⁾
Number of markets	22	24	24	24	24
Surface area, m ²	124 099	140 449	140 449	140 449	140 449
Surface area, m ²	38 648	39 339	39 339	39 339	39 339
Number of benches (tables)	4 116	2 643	2 643	2 643	2 479
Surface area, m ²	8 232	7 035	7 035	7 035	6 701
Number of shops at markets	584	523	523	523	523

¹⁾ The data includes Sesvete Market and Green Market.

Source: Zagreb Holding, subsidiary Zagreb Markets

18.11 Swimming pools

	2012	2013	2014	2015	2016
Number of pools	16	16	16	16	22
Surface area, m ²	8 247	8 247	8 247	8 247	11 066
Number of swimmers in thousands	313	319	331	323	500 ¹⁾

¹⁾ Aquapark Adamovec has not been included.

Source: Sports Facilities Management; Aquapark Adamovec

18.12 Number of fires¹⁾ by types of objects and persons injured in fires

	Total	Facilities and open spaces							Fatal injuries	Severe injuries
		Industrial	Residential and commercial	Business and trade	Restaurants and tourist facilities	Health institutions	Educational institutions	Other ²⁾		
2012	1 387	1	313	33	14	2	8	1 016	3	12
2013	890	-	261	31	6	4	5	583	5	15
2014	582	4	214	14	6	3	14	327	1	2
2015	726	16	215	8	15	2	10	460	2	5
2016	758	11	236	9	17	1	13	471	4	5

¹⁾ Number of fires investigated by the police.

²⁾ Including: motor vehicles, electric poles, forests, parks, meadows, shrubs, dry grass, waste containers and other.

Source: Ministry of the Interior

18.13 Firefighting interventions by firefighting departments of the City of Zagreb

	2012	2013	2014	2015	2016
Firefighting interventions – total	3 728	4 129	4 102	2 814	2 772
Interventions by the Public Fire Department	3 306	3 435	2 970	2 642	2 574
Centre	1 217	1 347	1 084	1 007	957
Žitnjak	460	411	419	346	343
Jankomir	440	425	406	371	373
Novi Zagreb	510	560	489	410	397
Dubrava	679	692	572	508	504
Interventions by Volunteer Fire Departments	422	694	1 132	172	198
With assistance from the Public Fire Department	159	55	70	53	64
Independent	263	639	1 062	119	134

Source: Zagreb Public Fire Department

18.14 Participation of firefighters by type of intervention

	2012	2013	2014	2015	2016
Firefighters – total	17 402	17 354	17 266	12 741	12 925
Number of firefighters in the Public Fire Department – total	14 131	14 126	12 590	11 789	11 770
Fires	7 999	5 883	5 733	6 462	6 754
Technical interventions	4 735	6 562	5 387	4 059	3 662
Other	1 397	1 681	1 470	1 268	1 354
Number of firefighters in the Volunteer Fire Departments – total	3 271	3 228	4 676	952	1 155
With assistance from the Public Fire Department	1 307	407	624	463	520
Independent	1 964	2 821	4 052	489	635

Source: Zagreb Public Fire Department

18.15 Cemeteries

	Cemeteries					Burial plots	Mortuaries			Number of catafalques at the crematory	Churches	Chapels	Cemeteries supplied with water		Cemeteries with sewerage	
	Number	Area, ha					With refrigeration	Without refrigeration	Number of catafalques				Public water supply	Pumps	Connected to the public sewerage	Connected to a septic tank, open canal or river
		Total	Park area	Gravesite area	Roads, pathways											
2012	28	171.3	39.4	91.7	40.2	181 022	20	1	41	2	22	2	22	1	13	7
2013	28	171.8	39.4	92.1	40.3	182 259	21	1	41	2	22	2	22	1	13	7
2014	28	172.3	39.4	92.6	40.3	183 589	21	1	41	2	22	2	22	1	13	7
2015	28	172.6	39.2	93.0	40.4	184 269	21	1	41	2	22	2	22	1	13	7
2016	28	172.7	38.9	93.3	40.5	184 887	21	1	41	2	22	2	22	1	13	7

Source: Zagreb Holding, subsidiary City Cemeteries

18.16 Cemeteries: Mirogoj, Miroševac, Markovo polje and Gaj urni Crematory

	Number of cemeteries	Surface area, ha	Number of graves	Number of people buried since the cemeteries were founded	Number of people cremated since the crematory was founded
2012	4	158.2	137 878	472 119	80 884
2013	4	158.2	139 040	476 902	85 485
2014	4	158.2	140 403	481 311	90 288
2015	4	158.2	141 983	485 863	95 661
2016	4	158.2	142 996	490 332	100 789

Source: Zagreb Holding, subsidiary City Cemeteries



19

Protection of nature and environment



NOTES ON METHODOLOGY

Data sources

Data on air quality were obtained based on the annual survey conducted by the Institute for Medical Research and Occupational Health.

Data on traffic noise measurement were obtained from the City Office for Energy, Environmental Protection and Sustainable Development.

Data on water utilisation and protection of water from pollution are provided by the Croatian Bureau of Statistics. The data are collected by virtue of regular annual reports submitted by business entities that are engaged in the activities of mining, manufacturing, electricity and gas supply, and that use and pollute water.

Data on wastewater and treated water are provided by business entities that manage public sewerage system and industries that use, pollute and discharge water.

Data on waste are based on annual reports that the business entities/companies and natural persons/craftsmen, classified according to the 2007 National Classification, submit to the Environmental Pollution Register database, which is kept by the Croatian Agency for Environment and Nature. The obligation to keep records on waste is stipulated by the Act on Sustainable Waste Management (Official Gazette 94/13 and 73/17), the Ordinance on Waste Management (Official Gazette 23/14, 51/14, 121/15 and 132/15) and the Ordinance on Environmental Pollution Register (Official Gazette 35/08).

Data on the quantities of waste are delivered according to the type of waste, in accordance with the Waste Catalogue defined by the Waste Catalogue Ordinance (Official Gazette 90/15).

When calculating the total amount of municipal waste, the following is taken into account: waste collected by municipal companies, waste taken over from the citizens at waste disposal sites, and waste from service activities, which is similar to municipal waste.

Definitions and explanations

Particulate matter – sediment and mass concentration – includes atmospheric precipitation, i.e. solid, liquid and gaseous substances that are deposited from air or brought by wind or rain. Chemical analysis of sediments encompasses data on total sediment, heavy metals, hydrocarbons, as well as anions and cations dissolved in sediment water.

Limit values indicate the level of pollution below which no harmful effects on human health are expected, but for which there is a risk for vulnerable groups in case of long-term exposure. Values are defined by the Regulation on the Levels of Air Pollutants (Official Gazette 130/11).

The symbols and abbreviations used in tables 20.2. – 20.18 are presented below.

DC (%) – data coverage

N – number of results

C – mean 24-hour concentration for the relevant period

C_{50} – median or middle value, i.e. 50% of the results are above the median and 50% of the results are below it

CM – the highest 24-hour concentration in the relevant period

C_m – the lowest 24-hour concentration in the relevant period

C_{95} – concentration of which 95% of the measured values are lower

C_{98} – concentration of which 98% of the measured values are lower

LV – limit values

TV – tolerance values

Traffic noise measurement was carried out on the narrow area of acoustic modelling. Measurement implementation areas were selected in such a manner that priority was given to crossings that connect extremely congested main city roads, which are thus an important source of noise.

Area of noise	Purpose of space	Maximum permissible noise emission level LRAeq in dB (A)	
		During day (L _{day})	During night (L _{night})
1.	Area intended for rest, recovery and treatment	50	40
2.	Area intended only for housing and residence	55	40
3.	Area of combined purpose, predominantly for residential purpose	55	45
4.	Area of combined purpose, predominantly for residential and business purpose	65	50
5.	Area for business purpose (production, industry, warehouses, services)	<ul style="list-style-type: none"> At the building plot boundary within the area, noise must not exceed 80 dB (A). At this area's boundary, noise must not exceed permissible noise levels of the neighbouring area. 	

Utilized water is the total amount of water from different sources that was supplied to business entities in the relevant year, regardless of whether the amounts were used for own purposes or transferred to other users.

Used water is the amount of water that business entities used for their own purposes.

Wastewater is water drained to the purification device after use, or water discharged into environment.

To treat wastewater means to remove dangerous and harmful substances from the water, up to permissible level.

Treated wastewater is the wastewater that undergoes three stages of treatment. By applying physical, chemical, biological and combined physical and chemical procedures, the concentration of suspended solids is reduced, as well as biological and chemical oxygen demand. Following treatment, water can be discharged into groundwater, watercourses, reservoirs, lakes and seas.

Waste is any substance or object belonging to categories of waste defined by the Act on Sustainable Waste Management (Official Gazette 94/13), which is discarded, is going to be discarded or has to be discarded by its owner.

Industrial waste is waste produced during manufacturing process in industry, crafts and other processes. Residues from the manufacturing process used in the manufacturing process of the same manufacturer are not considered industrial waste.

Hazardous waste is any waste that, because of its composition and properties, is designated as hazardous waste defined under regulation.

Non-hazardous waste is waste that, because of its composition and properties, is designated as non-hazardous waste defined under regulation.

Municipal waste is waste from households, as well as waste from manufacturing and/or service activities provided that its composition and properties are similar to waste from households.

Waste recovery is any repeated treatment of waste, in order to use such waste for material and energy purposes prescribed by regulation.

Recycling is the recovery operation, including re-processing of organic material, by which waste materials are processed into products, materials or substances for primary or other purposes, but excluding energy recovery, and the reprocessing into materials that are to be used as fuels or for land filling operations.

Recycling station is a supervised enclosed area intended for separate collection and temporary storage of smaller quantities of specific types of waste.

Mobile recycling station is a mobile technical unit that is not a building or part of a building, and that is used for separate collection and storage of smaller quantities of specific types of waste.

Location for purchase of waste is the area in which a person trading in waste purchases small quantities of waste, i.e. becomes the owner of the purchased waste.

19.1 Protected natural areas of the City of Zagreb

Name of the protected area	Category/ subcategory ¹⁾	Surface area, ha	Year of declaration	Ecological network ²⁾
Nature park				
Medvednica ³⁾		8 438.13	1981	part
Nature reserves				
Forest vegetation				
Babji zub – Ponikve (part of Medvednica NP)		151.81	1963	part
Bliznec – Šumarev grob (Forester's grave) (part of Medvednica NP)		175.56	1963	part
Gračec – Lukovica – Rebar (part of Medvednica NP)		28.45	1963	part
Mikulić potok (Mikulić Stream) – Vrabečka gora (Vrabečka Hill) (part of Medvednica NP)		101.72	1963	part
Pušinjak – Gorščica (part of Medvednica NP)		192.29	1963	part
Rauchova lugarnica (Rauch's forester's cottage) – Desna Trnava (part of Medvednica NP)		103.84	1963	part
Tusti vrh – Kremenjak (part of Medvednica NP)		19.45	1963	part
Protected landscapes				
Goranec		477.38	1977	part
Savica		79.54	1991	part
Lipa na Medvednici		266.64	1975	part
Monument of park architecture				
Geomorphological				
Veternica		-	1979	part
Monuments of park architecture				
Botanical garden				
Botanical Garden of the Faculty of Pharmacy and Biochemistry		2.41	1969	
Botanical Garden of the Faculty of Science		4.77	1971	
Parks				
Mallinov Park		1.69	1960	
"Kralj Petar Krešimir IV" Park		2.43	2000	
"Kralj Petar Svačić" Park		0.63	2000	
Maksimir Park		202.91	1964	
Josip Juraj Strossmayer Park		1.44	1970	
"Kralj Tomislav" Park		2.16	1970	
Zrinjevac Park		2.03	1970	
Opatovina Park		0.85	2000	
Ribnjak Park		4.67	1970	
Park in Jurjevska Street 30		0.17	1970	
Park in Jurjevska Street 27		0.86	1948	
Leustekov Park		0.47	1963	

19.1 Protected natural areas of the City of Zagreb

(Continued)

Name of the protected area	Category/ subcategory ¹⁾	Surface area, ha	Year of declaration	Ecological network ²⁾
Junković Castle Park		1.75	1971	
"Srpanjskih žrtava" Gardens		2.04	2000	
Garden of a Building in Gjuro Deželić Alley		0.01	1998	
Individual trees				
Coast Redwood on Paunovac		-	1998	

¹⁾ Nature Protection Act (Official Gazette 80/13)

²⁾ Regulation on the Ecological Network (Official Gazette 124/13, 105/15)

³⁾ Total area of the Nature Park Medvednica: 17, 938 ha

Source: Ministry of Environmental Protection and Energy

19.2 Concentration of sulphur dioxide, carbon monoxide, and benzene in the air as measured by the Ksaverska Road station in 2016 – summary results¹⁾

	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Sulphur dioxide, µg/m ³	366	100.00	2.20	1.70	0.20	17.50	8.10
Carbon monoxide, mg/m ³	366	100.00	0.47	0.35	0.07	3.67	1.62
Benzene, mg/m ³	151	41.30	1.33	0.58	0.05	11.45	2.86

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.3 Concentration of nitrogen dioxide in the air in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	365	99.7	51	46	10	126	96
Ksaverska Road	366	100.0	35	32	7	103	74
Peščenica	364	99.5	32	30	10	109	62
"Barun Filipović" Alley	366	100.0	46	43	3	170	96
Siget	363	99.2	46	44	3	115	84
Susedgrad	366	100.0	47	43	14	133	97

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.4 Concentration of ozone in the air in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	333	91.0	21	19	0	67	52
Ksaverska Road	366	100.0	42	42	4	109	81
Peščenica	355	97.0	32	28	0	101	76
"Barun Filipović" Alley	339	92.6	23	21	4	82	54
Siget	342	93.4	29	27	0	90	69

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.5 Concentration of PM₁₀ fraction of floating particles in the air in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	µg/m ³
							C ₉₈
Đorđićeva Street	361	98.6	31	21	2	138	115
Ksaverska Road	365	99.7	26	19	4	150	145
Peščenica	346	94.5	35	22	4	246	153
"Barun Filipović" Alley	362	98.9	30	21	1	230	128
Siget	362	98.9	37	24	6	210	145
Susedgrad	348	95.1	37	21	1	280	157

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.6 Concentration of lead in PM₁₀ fraction of floating particles in the air in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	µg/m ³
							C ₉₈
Đorđićeva Street	361	98.6	0.006	0.004	0.001	0.042	0.026
Ksaverska Road	366	100.0	0.005	0.003	0.000	0.060	0.026
Siget	363	99.2	0.008	0.005	0.000	0.066	0.033
Susedgrad	366	100.0	0.008	0.006	0.001	0.054	0.033

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.7 Concentration of cadmium in PM₁₀ fraction of floating particles in the air in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	ng/m ³
							C ₉₈
Đorđićeva Street	360	98.4	0.160	0.107	0.016	1.730	0.557
Ksaverska Road	366	10.0	0.139	0.089	0.013	1.460	0.515
Siget	363	99.2	0.192	0.145	0.000	1.248	0.700
Susedgrad	366	100.0	0.194	0.160	0.025	1.350	0.640

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.8 Concentration of arsenic in PM₁₀ fraction of floating particles in the air in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	ng/m ³
							C ₉₈
Đorđićeva Street	360	98.4	0.392	0.296	0.057	2.447	1.288
Ksaverska Road	366	100.0	0.352	0.260	0.044	2.443	1.280
Siget	363	99.2	0.408	0.317	0.000	2.443	1.384
Susedgrad	366	100.0	0.400	0.310	0.082	2.766	1.309

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.9 Concentration of nickel in PM₁₀ fraction of floating particles in the air in 2016 – summary results¹⁾

ng/m ³							
Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	360	98.4	0.821	0.613	0.000	6.245	4.304
Ksaverska Road	366	100.0	0.445	0.000	0.000	9.188	2.977
Siget	363	99.2	0.895	0.721	0.000	7.959	4.134
Susedgrad	366	100.0	0.967	0.812	0.000	8.668	4.851

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.10 Concentration of benzo(a)pyrene in PM₁₀ fraction of floating particles in the air in 2016 – summary results¹⁾

ng/m ³							
Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Ksaverska Road	366	100.0	1.442	0.327	0.022	20.652	10.055
Siget	363	99.2	2.931	0.555	0.012	33.603	23.284

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.11 Concentration of PM_{2.5} fraction of floating particles in the air in 2016 – summary results¹⁾

µg/m ³							
Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Ksaverska Road	366	100.0	20.9	13.4	1.7	144.6	94.2
Siget	362	98.9	27.1	16.7	0.4	155.3	113.8
Susedgrad	348	95.1	24.8	15.6	0.9	126.8	105.8

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.12 Quantity of total suspended particulate matter in 2016 – summary results¹⁾

mg/m ² d				
Measuring station	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	111	245
Ksaverska Road	11	91.7	109	318
Peščenica	11	91.7	60	100
"Barun Filipović" Alley	11	91.7	82	134
Siget	12	100.0	75	124
Susedgrad	12	100.0	102	161

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.13 Quantity of lead in the total suspended particulate matter in 2016 – summary results¹⁾

Measuring station	µg/m ³ d			
	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	4.02	7.42
Ksaverska Road	11	91.7	2.94	5.94
Peščenica	11	91.7	2.29	3.70
"Barun Filipović" Alley	11	91.7	2.61	4.80
Šiget	12	100.0	2.64	5.80
Susedgrad	12	100.0	6.42	13.13

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.14 Quantity of cadmium in the total suspended particulate matter in 2016 – summary results¹⁾

Measuring station	µg/m ³ d			
	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	0.08	0.16
Ksaverska Road	11	91.7	0.12	0.77
Peščenica	11	91.7	0.06	0.11
"Barun Filipović" Alley	11	91.7	0.11	0.31
Šiget	12	100.0	0.06	0.09
Susedgrad	12	100.0	0.13	0.36

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.15 Quantity of thallium in the total suspended particulate matter in 2016 – summary results¹⁾

Measuring station	µg/m ³ d			
	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	0.017	0.029
Ksaverska Road	11	91.7	0.023	0.106
Peščenica	11	91.7	0.014	0.022
"Barun Filipović" Alley	11	91.7	0.016	0.033
Šiget	12	100.0	0.013	0.035
Susedgrad	12	100.0	0.023	0.041

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.16 Quantity of nickel in the total suspended particulate matter in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	µg/m ² d
				CM
Đorđićeva Street	12	100.0	2.33	4.88
Ksaverska Road	11	91.7	4.37	9.67
Peščenica	11	91.7	1.70	2.74
"Barun Filipović" Alley	11	91.7	1.75	2.86
Siġet	12	100.0	2.13	5.18
Susedgrad	12	100.0	4.28	22.01

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.17 Quantity of arsenic in the total suspended particulate matter in 2016 – summary results¹⁾

Measuring station	N	DC (%)	C	µg/m ² d
				CM
Đorđićeva Street	12	100.0	0.60	1.55
Ksaverska Road	11	91.7	0.81	2.79
Peščenica	11	91.7	0.48	1.32
"Barun Filipović" Alley	11	91.7	0.65	2.51
Siġet	12	100.0	0.69	2.16
Susedgrad	12	100.0	0.64	1.63

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.18 Categorisation of areas near measuring stations in Zagreb in 2016¹⁾

Pollution	Pollution category	Measuring station					
		Đorđićeva Street	Ksaverska Road	Peščenica	"Barun Filipović" Alley	Siġet	Susedgrad
SO ₂	I. Category C > LV		.				
	II. Category C > LV						
NO ₂	I. Category C > LV		.	.			
	II. Category C > LV	.			.	.	.
O ₃	I. Category C > LV		.				
	II. Category C > LV						
CO	I. Category C > LV		.				
	II. Category C > LV						
Benzen	I. Category C > LV		.				
	II. Category C > LV						
PM ₁₀	I. Category C > LV						
	II. Category C > LV	.	.	.	.	.	.

19.18 Categorisation of areas near measuring stations in Zagreb in 2016¹⁾

(Continued)

Pollution	Pollution category	Measuring station					
		Đorđićeva Street	Ksaverska Road	Peščenica	"Barun Filipović" Alley	Siget	Susedgrad
Pb in PM ₁₀	I. Category C > LV	.	.			.	.
	II. Category C > LV						
Cd in PM ₁₀	I. Category C > LV	.	.			.	.
	II. Category C > LV						
As in PM ₁₀	I. Category C > LV	.	.			.	.
	II. Category C > LV						
Ni in PM ₁₀	I. Category C > LV	.	.			.	.
	II. Category C > LV						
BaP in PM ₁₀	I. Category C > LV						
	II. Category C > LV		.			.	
PM _{2.5}	I. Category C > LV		.				
	II. Category C > LV					.	
Total suspended particle matter	I. Category C > LV	.	.	.	.	.	.
	II. Category C > LV						
Pb in total suspended particle matter	I. Category C > LV	.	.	.	.	.	.
	II. Category C > LV						
Cd in total suspended particle matter	I. Category C > LV	.	.	.	.	.	.
	II. Category C > LV						
Tl in total suspended particle matter	I. Category C > LV	.	.	.	.	.	.
	II. Category C > LV						
Ni in total suspended particle matter	I. Category C > LV	.	.	.	.	.	.
	II. Category C > LV						
As in total suspended particle matter	I. Category C > LV	.	.	.	.	.	.
	II. Category C > LV						

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.19. Summary of noise level ratings by measuring points rated by noise strength over 24h¹⁾

	Day	Evening	Night	24h
	$L_{\text{day}, T=12 \text{ h}} / \text{dB (A)}$	$L_{\text{evening}, T=4 \text{ h}} / \text{dB (A)}$	$L_{\text{night}, T=8 \text{ h}} / \text{dB (A)}$	$L_{\text{den}} / \text{dB (A)}$
Ljubljanska Avenue – Jankomir	77.0	73.6	70.9	78.9
Bologne Boulevard – Vrapčanska – Oranice	75.6	73.9	70.7	78.5
Ljubljanska Avenue – Škorpika Velimira	76.4	73.5	69.8	78.2
Zvonimir Street – Šubićeva	74.4	72.9	68.7	76.9
Slavonska Avenue – "Marin Držić" Avenue	74.2	71.1	68.8	76.6
Zagrebačka Avenue – Zagrebačka Road	73.9	72.9	68.2	76.5
Zagrebačka Avenue – Hrvatskog sokola	73.5	73.1	68.3	76.5
Hanuševa – Republike Austrije – Jagićeva	74.4	72.1	67.8	76.3
Ilica – Kustošijanska	73.2	71.7	67.3	75.6
Kneza Branimira – Budakova	73.0	71.2	67.5	75.6
Vlaška – Draškovićeva – Šoštarićeva	71.5	73.7	65.9	75.1
Ilica – Zagrebačka Road	71.3	71.0	66.6	74.6
Zagrebačka Avenue – Rudeška Road	72.1	71.1	66.2	74.6
Maksimirska – "G. Šušak" Avenue – Mandlova	70.7	69.5	67.0	74.4
Savska Road – Kršnjavoga – Vukotinovićeva	70.6	69.8	66.7	74.2
Zagrebačka Avenue – Slavenskog – Krklecova	72.0	69.9	65.9	74.1
Ilica – Frankopanska	70.2	69.5	66.4	73.9
Zagrebačka Avenue – Golikova Street – Hrgovići	70.7	68.7	66.2	73.8
Ilica – Gundulićeva	70.1	69.7	66.1	73.7
Ilica – Sveti Duh – Selska Road	71.8	70.4	64.5	73.6

¹⁾ See Notes on Methodology.

Source: City Office for Economy, Energetics and Environment protection

19.20 Industrial water supply

Thousands of m³

	Industrial water supply			
	Total	From own water intake structures		From public watercourses and other systems
		From groundwater and springs	From watercourses and reservoirs	
2012	99 064	3 104	93 395	2 565
2013	94 428	2 800	89 432	2 196
2014	60 289	2 916	55 360	2 013
2015	50 137	2 911	44 942	2 284
2016	67 908	2 485	63 209	2 214

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

19.21 Water use in industry

Thousands of m³

	Total	For technological processes			For sanitation	For other purposes
		Total	For production	For cooling		
2012	99 025	97 918	4 078	93 840	717	390
2013	94 404	93 732	4 092	89 640	525	147
2014	60 266	59 597	3 698	55 899	501	168
2015	52 077	51 267	3 675	47 592	676	134
2016	69 263	68 587	3 472	65 115	478	198

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

19.22 Discharged and treated industrial waters

Thousands of m³

	Total	Discharged waters		Treated waters		
		Into public sewerage	Into the ground, watercourses, and reservoirs	Slightly polluted and polluted water	Mechanical water treatment	Chemical and biological water treatment processes
2012	96 831	3 766	93 065	94 626	54	2 151
2013	92 207	3 164	89 043	90 331	55	1 821
2014	58 266	2 877	55 389	56 599	61	1 606
2015	48 059	3 103	44 956	46 650	832	577
2016	66 024	2 770	63 254	64 642	824	558

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

19.23 Sewage

Thousands of m³

	Total	Sewage			Sewage treatment level	
		From households	From economy	Other waste water	Primary treatment	Secondary treatment
2012	168 922	41 283	15 301	112 338	72 072	96 850
2013	199 106	40 120	13 974	145 012	133 845	65 261
2014	140 316	36 433	12 616	91 267	137 361	2 955
2015	126 085	37 644	11 409	77 032	123 425	2 660
2016	127 788	37 582	13 006	77 200	124 081	3 707

Source: Zagreb Holding, subsidiary Water Supply and Drainage, Zagreb Wastewater Ltd.

19.24 Registered hazardous industrial waste by NCA 2007 sections

		Tonnes	
		2015	2016
Total		11 776	12 318
A	Agriculture, forestry, and fishing	2	2
B	Mining and quarrying	2	70
C	Manufacturing	2 966 ¹⁾	3 324
D	Electricity, gas, steam, and air conditioning supply	854	2 657
E	Water supply; sewerage, waste management, and remediation activities	187	221
F	Construction	198	198
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	4 726 ¹⁾	2 343
H	Transportation and storage	450	871
I	Accommodation and food service activities	24	29
J	Information and communication	163	96
K	Financial and insurance activities	74	66
L	Real estate activities	87	89
M	Professional, scientific, and technical activities	95	79
N	Administrative and support service activities	57	15
O	Public administration and defence; compulsory social security	80	60
P	Education	22	27
Q	Health and social work activities	1 735	1 950
R	Arts, entertainment, and recreation	5	36
S	Other service activities	49	185

¹⁾ Quantities of waste/small retail or retail trade are presented in Table 19.26.

Source: Environmental Pollution Register (EPR), Croatian Agency for the Environment and Nature

19.25 Registered non-hazardous industrial waste by NCA 2007 sections

		Tonnes	
		2015	2016
Total		373 770	444 468
A	Agriculture, forestry, and fishing	43	88
B	Mining and quarrying	-	-
C	Manufacturing	43 815	40 845
D	Electricity, gas, steam, and air conditioning supply	567	315
E	Water supply; sewerage, waste management, and remediation activities	119 955 ¹⁾	154 355
F	Construction	123 729	142 910
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	23 457 ¹⁾	25 359
H	Transportation and storage	2 839	2 291
I	Accommodation and food service activities	680	957
J	Information and communication	2 924	2 715
K	Financial and insurance activities	467	590
L	Real estate activities	2 682	2 758
M	Professional, scientific, and technical activities	49 188	51 415
N	Administrative and support service activities	729	16 158
O	Public administration and defence; compulsory social security	188	645
P	Education	-	-
Q	Health and social work activities	1 904	2 038
R	Arts, entertainment, and recreation	151	410
S	Other services	452	619

¹⁾ Quantities of waste/small retail or retail trade are shown in Table 19.26.

Source: Environmental Pollution Register (EPR), Croatian Agency for the Environment and Nature

19.26 Municipal waste

Tonnes

	Collected municipal waste			For disposal on landfills	Handed over directly for composting	Handed over for recovery	Export	Temporarily stored waste as of 31 December
	Total	of which in recycling stations						
		Stationary	Mobile					
2014	-	-	-	-	-	-	-	9 165
2015	279 338	-	-	215 380	11 925	46 270 ¹⁾	6 884	11 498
2016	326 518	8 699	583	219 184	29 651	92 316	408	-

¹⁾ Of which 3,455 tonnes of waste collected and temporarily stored in 2014.

Source: Environmental Pollution Register (EPR), Croatian Agency for the Environment and Nature

19.27 Waste disposed on landfills and recovered waste

Tonnes

	Total		Disposed on landfills		Recovered		Export	
	2015	2016	2015	2016	2015	2016	2015	2016
Mixed municipal waste	215 380	219 184	215 380	219 184	-	-	-	-
Construction waste and demolition waste	149 963 ¹⁾	163 608	-	-	143 306	149 467	6 462	977
Biodegradable waste	11 929	31 975	-	-	11 929	31 975	-	-
Bulky waste	13 610 ¹⁾	13 777	-	-	13 609	13 777	-	-

¹⁾ Quantity of temporarily stored waste as of 31 December 2015 has been included.

Source: Environmental Pollution Register (EPR), Croatian Agency for the Environment and Nature

20

Education



NOTES ON METHODOLOGY

Data sources

Data on kindergartens and other legal entities implementing pre-school education programs are collected by virtue of annual reports at the beginning of each year of education. The reports are submitted by kindergartens and other legal entities implementing pre-school education programs.

Data on schools, pupils and teachers in primary and secondary schools are collected by virtue of annual reports at the beginning and end of each school year. The reports are submitted by primary and secondary schools.

Data on pupils with developmental disabilities in primary and secondary schools, as well as data on pupils in elementary art schools and data on adult education are collected by virtue of special forms at the end and beginning of school year.

Data on pupil and student dormitories were collected by virtue of annual reports concerning pupil and student dormitories, which are filed by pupil and student dormitories.

Data on higher education institutions are collected by means of questionnaires filled in by students during winter semester of the academic year. In addition, data on graduates with regard to the calendar year are collected, as well as data on teachers employed at higher education institutions as at 31 October of the current academic year.

Coverage and comparability

Data on the number of kindergartens and other legal entities implementing pre-school education programs include all kindergartens and legal entities that implement pre-school education programs.

Data on the number of primary and secondary schools cover all schools.

Data on higher education pertains to students studying at the departments of higher education institutions located in Zagreb, which are managed by the University of Zagreb.

All data pertaining to education can be compared to data from the previous years.

Data on pupil and student dormitories in the City of Zagreb are comparable to data from the previous years.

Definitions and explanations

Education system of the Republic of Croatia includes pre-school, elementary, secondary and higher education.

Pre-school education is provided in kindergartens, which, as public institutions, carry out the activity of providing education to pre-school children. A kindergarten can be established by the Republic of Croatia or local government unit, religious community and other legal and natural persons from Croatia. Branches are dislocated parts of kindergartens that include one or several groups and that are established by kindergartens if needed.

Pre-school education in kindergartens focuses on children from the age of six months to the age when children are ready to begin their education at schools.

Primary and secondary education is organized as regular and special education that includes education of children and young people with developmental disabilities, adult education and elementary artistic education that prepares children for continuing their studies in secondary art schools.

School is a place where any group of pupils have classes of a certain type and level according to the appropriate curriculum, regardless of whether the group of pupils is under direct or indirect management of one management board or it has joint management with other school units of different types and levels of education. Each territorially separate unit (class divisions) of the same type is also considered a school, a school unit.

Primary education lasts eight years and it is compulsory for all children between the age of 6 and 15. At this level of education, the aim is to acquire general knowledge required for life or further education. It is provided based on a single curriculum.

Elementary art schools prepare children for continuing education in secondary schools for music and ballet, and pupils of these schools obtain parallel elementary education in regular elementary schools.

Secondary education lasts from 1 to 5 years, it is not compulsory and it gives the opportunity of acquiring knowledge and skills required to participate in the labour market or to continue education. It is organized as regular and special education.

Primary education of children and young people with developmental disabilities is provided in special educational institutions and primary schools, in special educational groups or classes, according to programs adjusted to children's special needs.

Primary and secondary education of adults provides education for adults who have not obtained primary (elementary) or secondary level of education at the appropriate age. It is provided in primary (elementary) or secondary schools or other competent institutions (public open schools) in form of classes or exams.

Education of young people with developmental disabilities is provided by applying individual approach in special classes or special education institutions. The number of secondary schools for young people with developmental disabilities is equal to the number of institutions for education of young people with developmental disabilities, increased by the number of secondary schools that have special classes for pupils with developmental disabilities.

Student is a person enrolled in a higher education institution. There are two types of students, i.e. regular (full-time) and part-time students. Full-time students take a full load of course work (full-time). Part-time students are those students who attend the education program while working or carrying out other activity, which thus results in classes being held in special time slots and studies being conducted in a special manner, but in accordance with the curriculum.

Master of Science (M.Sc.) is a person who has completed a Master's degree and wrote his/her Master's thesis.

Doctor of Science is a person who wrote his/her doctoral thesis.

Higher education is carried out through university and professional studies.

Higher education institution is an institution providing higher education, authorized for the organization and performance of studies, as well as scientific, high-tech or artistic work. Higher education institutions are universities, faculties, university departments and art academies in its composition, polytechnics and colleges. Higher education institutions can be public or private.

University studies provide students with skills required to perform jobs in the field of science and higher education, in the business world, public sector and in the society in general. It prepares them for development and application of scientific and professional achievements. University studies are organized and conducted at universities. University studies include undergraduate, graduate and postgraduate studies.

Professional studies are designed to offer students an appropriate level of knowledge and skills that enable performance of professional occupations. Professional studies also provide skills that enable direct engagement in the work process. The studies are conducted at colleges or polytechnics, or they can be conducted at universities.

Professional studies last two to three years, and they are considered completed upon passing all the exams. Study completion involves either a final exam or a final paper.

Polytechnics or colleges can organize specialist graduate professional studies lasting for one to two years for persons who have completed professional studies or undergraduate university studies.

Postgraduate university studies typically last three years. Upon fulfilling all the prescribed conditions and after public defence of doctoral thesis, a person obtains the academic degree of Doctor of Science (Ph.D.) or Doctor of Arts (Art.D.), with the indication of scientific or artistic field and branch in accordance with the Ordinance on Scientific and Artistic Areas, Fields and Branches (Official Gazette 118/09).

Dormitory is an institution that provides accommodation and food to pupils/students during their studies and that organizes educational work, cultural activities and provides food.

Regular pupils/full-time students are entitled to accommodation and food at a dormitory. The right is exercised based on student's accomplishments in the previous education and the financial status of the pupil/student and his/her parents, guardians or other.

If there is a vacant place, a dormitory can accommodate college students and attendees from other schools, seminars and courses, provided that it does not interfere with regular work and life in the dormitory.

20.1 Kindergartens and other legal entities that implement pre-school education programmes

Start of the kindergarten year					
	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017
Kindergartens and other legal entities¹⁾ – total	285	291	292	295	341
By founder					
State-owned	223	228	231	231	238
Private	48	49	47	50	88
Religious communities'	14	14	14	14	15
Children – total	38 175	39 212	39 761	39 549	43 684
By age					
Up to 3 years	9 877	9 552	9 862	9 675	10 104
From 3 to 5	15 120	15 438	15 371	15 684	16 408
From 5 to 7 and older than 7 years	13 178	14 222	14 528	14 190	17 172
Employees – total	5 720	5 784	6 088	6 065	6 653
Of which:					
Educators and teachers	3 347	3 443	3 574	3 656	4 039
Healthcare personnel	202	190	196	183	183
Other	2 171	2 151	2 318	2 226	2 431

¹⁾ Each territorially separated, but dependent unit is included in the total number of kindergartens.

Source: CBS

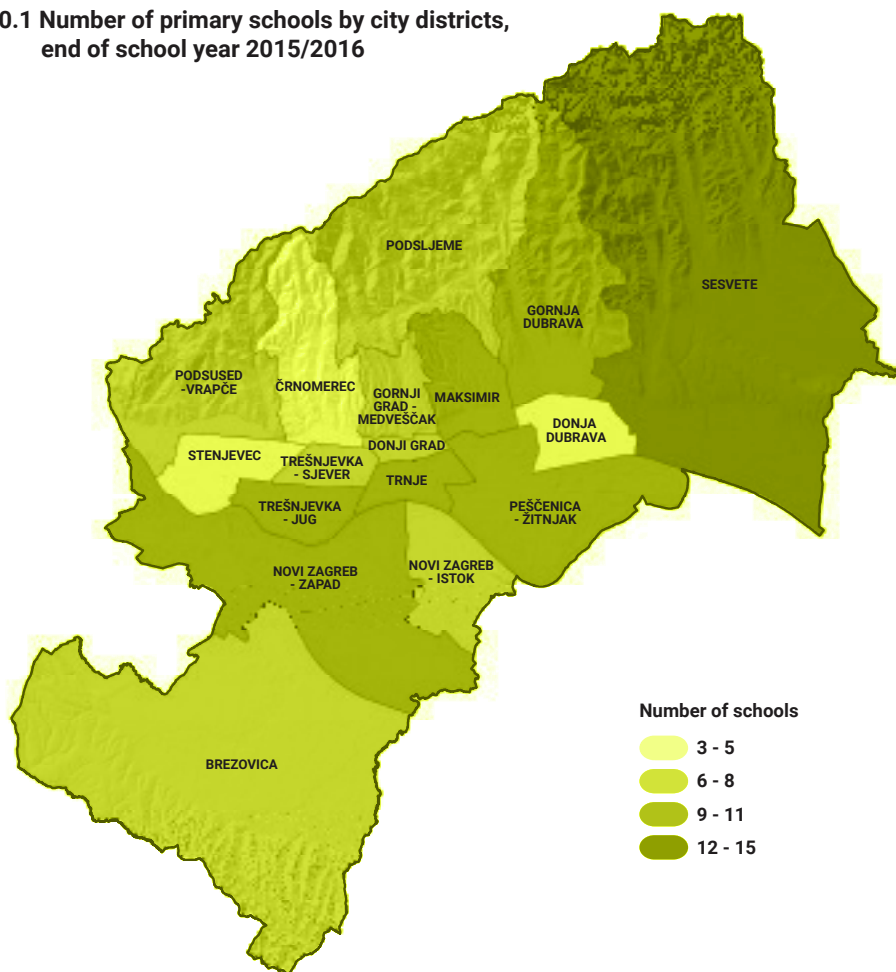
20.2 Primary education – regular schools¹⁾

End of school year				
	Schools	Students		Teachers
		Total	Female students	
1951/1952	54	30 448	...	734
2001/2002	125	64 040	31 201	4 008
2010/2011	125	57 090	27 655	4 627
2011/2012	125	55 755	27 141	4 614
2012/2013	125	55 039	26 840	4 593
2013/2014	126	54 569	26 557	4 663
2014/2015	130	55 793	27 178	4 847
2015/2016	131	56 356	27 495	5 010

¹⁾ Zagreb has changed its territorial organisation.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

K 20.1 Number of primary schools by city districts, end of school year 2015/2016

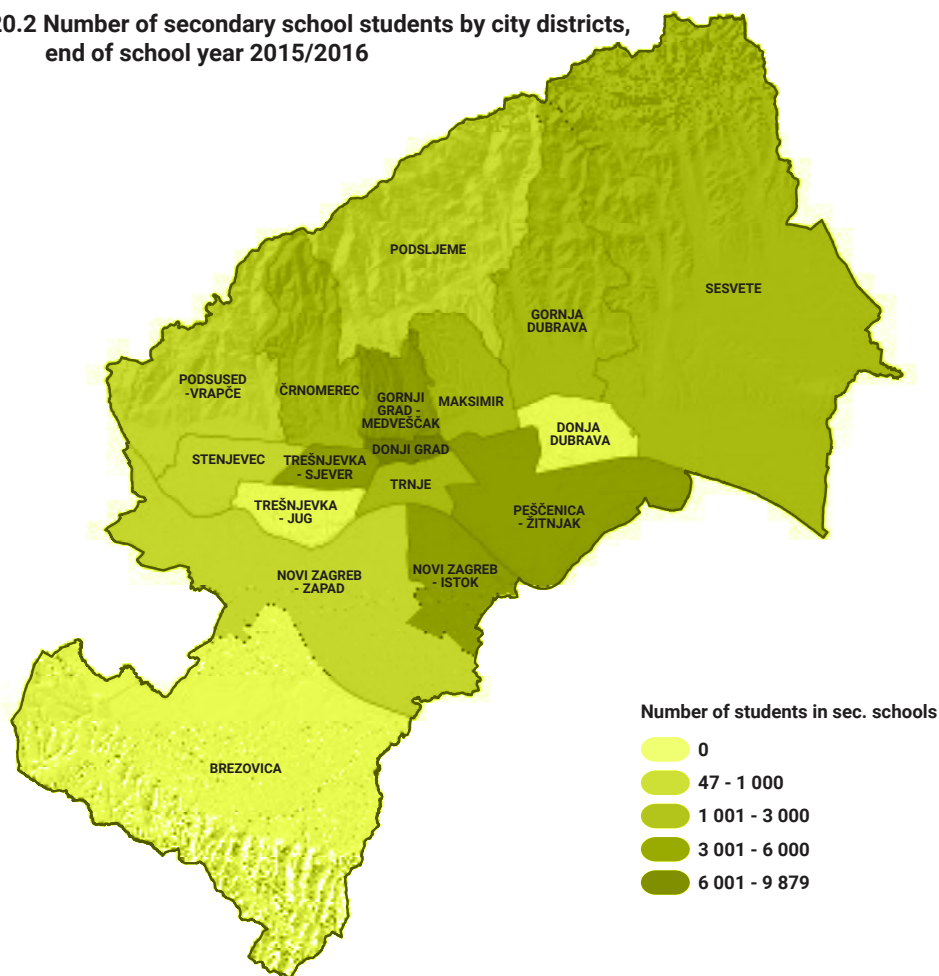


20.3 Secondary education – regular schools

	Schools	Students		Teachers
		Total	Female students	
1951/1952	67	24 927	...	1 621
2001/2002	89	42 348	21 442	3 954
2010/2011	98	37 707	19 111	4 150
2011/2012	100	39 002	19 660	4 213
2012/2013	103	39 634	19 997	4 292
2013/2014	105	39 360	20 049	4 318
2014/2015	107	38 650	19 674	4 403
2015/2016	103	37 071	18 924	4 397

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

K 20.2 Number of secondary school students by city districts, end of school year 2015/2016



20.4 Students who acquired academic degrees

	Higher education institutions	Students			
		Total	University degree	Master's degrees	Doctors of Science
2012	57	19 782	17 727	1 175	880
2013	58	18 327	17 168	581	578
2014	58	16 809	15 825	379	605
2015	58	17 806	16 799	335	672
2016	58	16 396	15 632	337	427

Source: CBS

20.5 Student dormitories

	Accommodation for secondary school students			Accommodation for college students		
	Total	Number of student dormitories		Total	Number of student dormitories	
		Total	Female		Total	Female
2012	14	2 449	1 340	4	7 260	4 531
2013	14	2 475	1 413	4	7 366	4 607
2014	14	2 420	1 433	4	7 413	4 631
2015	14	2 326	1 409	4	6 910	4 284
2016	15	2 432	1 480	4	7 458	4 602

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

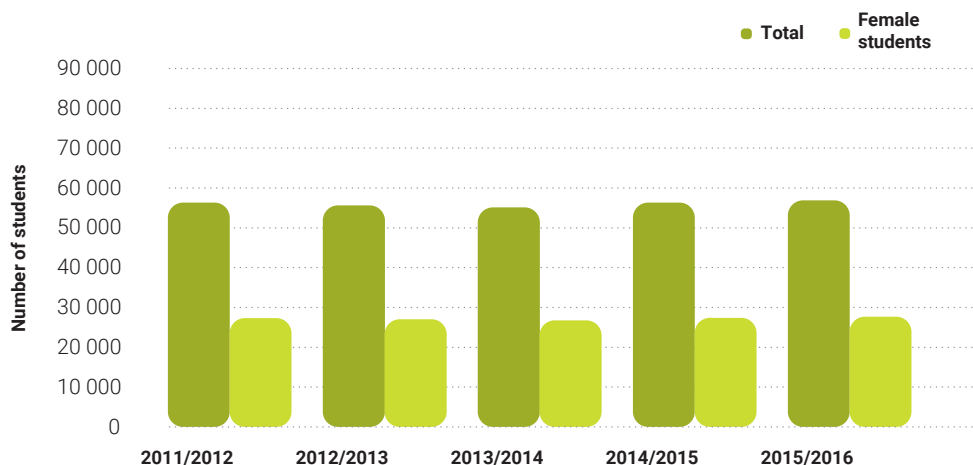
20.6 Primary education

End of school year

	Schools	Classes	Students		Teachers	
			Total	Female students	Total	Women
PRIMARY SCHOOLS – TOTAL						
2011/2012	138	2 649	56 352	27 322	4 858	4 163
2012/2013	138	2 614	55 628	27 021	4 849	4 141
2013/2014	139	2 625	55 164	26 741	4 926	4 227
2014/2015	143	2 700	56 359	27 355	5 107	4 373
2015/2016	144	2 735	56 911	27 668	5 276	4 526
Primary schools – regular						
2011/2012	125	2 545	55 755	27 141	4 614	3 964
2012/2013	125	2 519	55 039	26 840	4 593	3 928
2013/2014	126	2 532	54 569	26 557	4 663	4 006
2014/2015	130	2 614	55 793	27 178	4 847	4 160
2015/2016	131	2 649	56 356	27 495	5 010	4 305
Primary schools for children and young people with developmental difficulties						
2011/2012	13	104	597	181	244	199
2012/2013	13	95	589	181	256	213
2013/2014	13	93	595	184	263	221
2014/2015	13	86	566	177	260	213
2015/2016	13	86	555	173	266	221
SPECIALISED PRIMARY EDUCATION						
Primary art schools						
2011/2012	12	-	4 095	2 652	515	356
2012/2013	15	-	4 138	2 626	567	367
2013/2014	16	-	4 214	2 670	569	371
2014/2015	21	-	4 242	2 698	577	375
2015/2016	23	-	4 165	2 680	572	383
Primary education for adults						
2011/2012	2	12	160	47	19	10
2012/2013	2	12	110	46	24	11
2013/2014	2	12	84	40	23	11
2014/2015	2	8	44	20	23	11
2015/2016	2	7	50	25	22	11

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 20.1 Primary education by sex, end of school year



20.7 Secondary education

End of academic year

	Schools	Class Departments	Students		Teachers	
			Total	Female students	Total	Women
SECONDARY SCHOOLS – TOTAL						
2011/2012	104	1 517	39 605	19 925	4 315	2 993
2012/2013	108	1 545	40 250	20 271	4 404	3 056
2013/2014	110	1 555	39 981	20 337	4 432	3 104
2014/2015	112	1 570	39 243	19 956	4 510	3 169
2015/2016	108	1 564	37 652	19 196	4 510	3 172
Secondary schools – regular						
2011/2012	100	1 443	39 002	19 660	4 213	2 918
2012/2013	103	1 463	39 634	19 997	4 292	2 969
2013/2014	105	1 473	39 360	20 049	4 318	3 015
2014/2015	107	1 492	38 650	19 674	4 403	3 087
2015/2016	103	1 481	37 071	18 924	4 397	3 079
Grammar schools						
2011/2012	34	552	15 618	9 164	1 292	1 011
2012/2013	36	565	15 797	9 253	1 348	1 050
2013/2014	40	581	15 783	9 213	1 419	1 099
2014/2015	41	585	15 481	9 084	1 447	1 122
2015/2016	39	583	14 919	8 785	1 472	1 121
Technical and related schools						
2011/2012	39	648	16 564	7 450	1 783	1 193
2012/2013	39	661	17 134	7 725	1 772	1 188
2013/2014	37	653	17 018	7 790	1 765	1 214
2014/2015	37	669	16 959	7 811	1 804	1 251
2015/2016	36	659	16 117	7 443	1 796	1 242

20.7 Secondary education

(Continued)

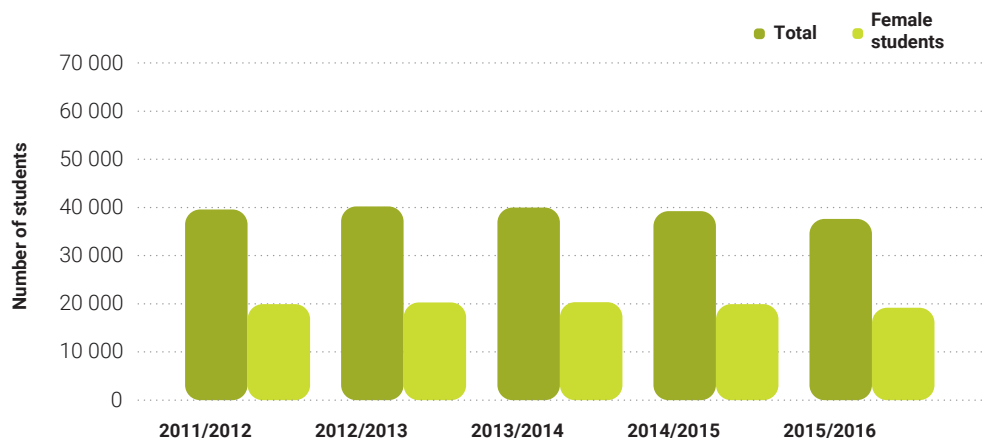
End of academic year

	Schools	Class Departments	Students		Teachers	
			Total	Female students	Total	Women
Industrial and crafts schools						
2011/2012	16	218	5 141	1 900	652	392
2012/2013	16	211	5 048	1 868	661	387
2013/2014	15	212	4 926	1 893	637	368
2014/2015	15	210	4 588	1 633	627	363
2015/2016	15	213	4 506	1 620	600	358
Secondary art schools – total						
2011/2012	11	25	1 679	1 146	486	322
2012/2013	12	26	1 655	1 151	511	344
2013/2014	13	27	1 633	1 153	497	334
2014/2015	14	28	1 622	1 146	525	351
2015/2016	13	26	1 529	1 076	529	358
Music schools						
2011/2012	7	-	817	463	330	220
2012/2013	8	-	771	437	344	229
2013/2014	8	-	718	406	320	214
2014/2015	9	-	704	411	343	223
2015/2016	8	-	686	401	340	222
Ballet schools						
2011/2012	2	-	158	151	63	46
2012/2013	2	-	153	144	64	46
2013/2014	3	-	178	166	73	50
2014/2015	3	-	176	158	76	53
2015/2016	3	-	161	148	77	54
Visual arts and design						
2011/2012	2	25	704	532	93	56
2012/2013	2	26	731	570	103	69
2013/2014	2	27	737	581	104	70
2014/2015	2	28	742	577	106	75
2015/2016	2	26	682	527	112	82
Secondary schools for young people with developmental disabilities						
2011/2012	4	74	603	265	102	75
2012/2013	5	82	616	274	112	87
2013/2014	5	82	621	288	114	89
2014/2015	5	78	593	282	107	82
2015/2016	5	83	581	272	113	93
SECONDARY EDUCATION FOR ADULTS ¹⁾						
2011/2012	11	92	1 937	1 105	377	211
2012/2013	11	87	2 221	1 204	371	206
2013/2014	11	84	2 191	952	300	173
2014/2015	12	88	1 970	858	416	217
2015/2016	12	132	2 027	1 002	321	195

¹⁾ Regular secondary schools and other authorised institutions have been included.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 20.2 Secondary education by sex, end of school year



20.8 Students who completed education by type of school

	End of school year				
	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016
Regular schools					
Primary schools ¹⁾	7 731	7 511	6 965	6 928	6 538
Secondary schools	8 943	9 363	9 157	9 884	9 668
Grammar schools	3 589	3 708	3 881	4 002	3 872
Technical schools	3 667	3 973	3 521	4 195	4 143
Industrial and crafts schools	1 406	1 353	1 448	1 370	1 331
Art schools					
Music schools	105	141	110	108	120
Ballet schools	18	21	31	31	24
Visual arts and design	158	167	166	178	178
Schools for children and young people with developmental difficulties					
Primary schools	87	70	78	82	75
Secondary schools	178	162	175	151	167
Adult education schools					
Primary schools	147	106	80	37	31
Secondary schools	900	809	520	636	725
Schools for specialised primary education					
Primary music and ballet schools	514	661	730	570	592

¹⁾ Compulsory 8-year education was introduced in 1958.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

20.9 Students who completed grammar school

End of school year

	2011/2012		2012/2013		2013/2014		2014/2015		2015/2016	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	3 589	2 174	3 708	2 175	3 881	2 249	4 002	2 333	3 872	2 320
Grammar school	2 085	1 351	2 163	1 323	2 448	1 507	2 482	1 579	2 267	1 408
Science and mathematics programme grammar school	633	252	661	281	655	297	747	293	717	331
Language grammar school	459	340	449	321	325	195	313	232	405	303
Classical grammar school	250	142	258	160	316	170	291	157	293	167
International Baccalaureate Diploma Programme (IBDP)	21	9	27	17	29	19	32	13	52	31
Art programme grammar school	22	13	28	19	20	11	18	10	17	12
Science programme grammar school	54	34	56	29	88	50	119	49	111	65
Sports programme grammar school	65	33	66	25	-	-	-	-	-	-
Vocational grammar school	-	-	-	-	-	-	-	-	10	3

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

20.10 Students who completed technical and related secondary schools

End of school year

	2011/2012		2012/2013		2013/2014		2014/2015		2015/2016	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	3 667	1 705	3 973	1 781	3 521	1 525	4 195	1 974	4 143	1 947
Engineering	184	2	212	9	231	11	286	28	278	18
Electrical engineering	817	28	787	39	852	27	887	47	963	54
Geology, mining, and oil	29	12	28	12	19	13	30	8	31	12
Economics and trade	873	578	818	535	811	504	943	593	780	504
Hospitality and tourism	228	150	236	152	229	145	265	179	244	151
Agriculture	74	42	72	42	66	38	85	29	83	52
Nutrition	66	47	80	67	85	69	75	65	128	105
Veterinary medicine	67	54	77	62	92	62	116	95	101	70
Forestry	20	1	28	7	42	8	51	13	56	18
Wood processing	19	7	17	4	21	4	25	9	31	18
Construction and geodesy	186	42	214	49	194	60	183	53	199	80
Road traffic	79	25	85	13	88	17	95	12	88	20
Marine, river, and port traffic	22	6	26	7	20	5	25	6	24	10
Posts and telecommunications	78	64	48	46	44	39	54	48	47	40
Railway traffic	93	23	75	13	77	33	64	14	84	22
Chemical technology	77	47	46	30	58	32	61	35	57	32
Graphics	105	47	104	59	112	60	144	78	115	63

20.10 Students who completed technical and related secondary schools

(Continued)

End of school year

	2011/2012		2012/2013		2013/2014		2014/2015		2015/2016	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Textile	23	23	25	23	26	25	31	31	40	39
Health care	571	470	596	510	373	328	695	585	706	588
Optics and glass processing	28	20	22	13	27	15	29	17	30	22
Internal affairs and security	-	-	326	56	-	-	-	-	-	-
Inter-vocational programmes ¹⁾	28	17	51	33	54	30	51	29	58	29

¹⁾ Inter-vocational programmes: environmental technician, meteorological technician and agro-technical technician.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

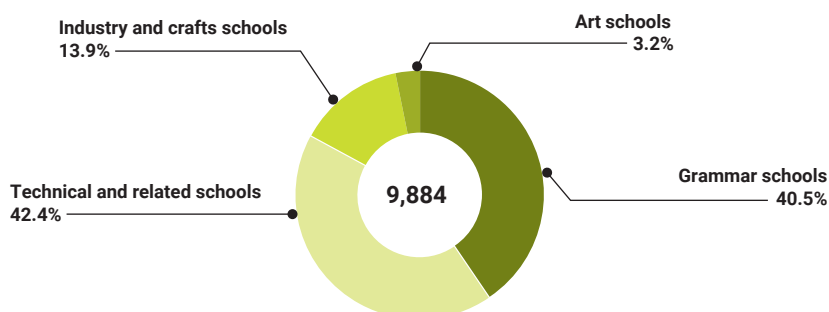
20.11 Students who completed industrial and craft secondary schools

End of school year

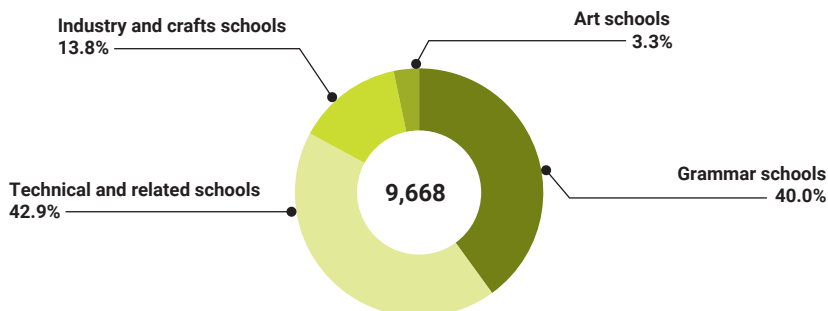
	2011/2012		2012/2013		2013/2014		2014/2015		2015/2016	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	1 406	543	1 353	500	1 448	568	1 370	527	1 331	510
Engineering	305	14	311	7	287	11	326	20	310	17
Electrical engineering	65	-	51	-	70	-	86	-	89	-
Economics and trade	112	83	131	80	109	63	66	42	138	102
Hospitality and tourism	142	44	176	53	219	67	175	61	161	63
Agriculture	35	28	31	24	47	36	52	32	48	28
Nutrition	100	50	70	40	73	44	66	42	44	15
Wood processing	49	1	57	5	59	4	52	13	50	-
Construction and geodesy	71	-	61	1	45	-	57	7	65	2
Road traffic	103	1	90	5	114	8	97	3	84	7
Railway traffic	16	8	18	4	26	9	19	5	17	5
Graphics	27	13	26	8	26	8	24	13	-	-
Textile	48	48	37	37	43	43	56	55	51	51
Leather processing	18	13	8	7	16	12	16	13	19	19
Personal services (beauticians)	212	210	188	177	231	231	191	190	185	179
Other services	102	30	97	52	81	31	76	25	65	20
Optics and glass processing	1	-	1	-	2	1	11	6	5	2

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

G 20.3 Students who completed regular secondary school by type of school in 2014/2015



G 20.4 Students who completed regular secondary school by type of school in 2015/2016



20.12 Students enrolled in primary and secondary schools and higher education institutions by level of education

	Start of school / academic year				
	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017
Pre-school education					
Kindergartens	285	291	292	295	341
Children	38 175	39 212	39 761	39 549	43 684
Educators and teachers	3 347	3 443	3 574	3 656	4 039
Primary education					
Schools	138	138	142	144	144
Students	55 708	55 133	55 557	57 108	58 447
Teachers	4 862	4 924	5 028	5 216	5 303
Secondary education					
Schools	107	109	111	110	107
Students	40 741	40 343	39 717	38 162	36 775
Teachers	4 385	4 409	4 613	4 547	4 565
Higher Education					
Colleges and faculties	59	57	58	58	58
Students	72 494	71 936	71 447	71 902	73 494
Teachers and associates in teaching ¹⁾	8 562	8 304	8 136	8 189	8 280

¹⁾ The data includes all teachers and associates who teach at higher education institutions.

Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

20.13 Students enrolled in higher education institutions by name of institutions and sex

	Academic year					
	2014/2015		2015/2016		2016/2017	
	Total	Female students	Total	Female students	Total	Female students
Higher education institutions	71 447	40 630	71 902	41 480	73 494	41 841
Faculties	56 962	34 427	57 631	35 083	59 404	35 876
Professional studies	3 843	2 548	3 833	2 553	4 888	3 048
Faculty of Economics and Business	1 259	840	1 335	909	1 498	1 013
Catholic Faculty of Theology – Institute for Theological Culture	94	59	97	61	84	53
Faculty of Law – Study Centre for Public Administration and Public Finances	1 781	1 490	1 671	1 401	1 571	1 319
Faculty of Kinesiology	709	159	730	182	926	234
Libertas International University	-	-	-	-	809	429

20.13 Students enrolled in higher education institutions by name of institutions and sex

(Continued)

Academic year

	2014/2015		2015/2016		2016/2017	
	Total	Female students	Total	Female students	Total	Female students
University studies	53 119	31 879	53 798	32 530	54 516	32 828
Faculty of Science	3 955	2 439	4 008	2 465	4 135	2 543
Faculty of Architecture	1 034	666	986	622	966	605
Faculty of Civil Engineering	1 271	512	1 214	511	1 213	541
Faculty of Graphic Arts	731	395	634	347	620	334
Faculty of Geodesy	505	206	503	205	513	222
Faculty of Mechanical Engineering and Naval Architecture	2 089	283	2 105	321	2 143	344
Faculty of Transport and Traffic Sciences	2 155	451	2 113	447	2 093	443
Faculty of Electrical Engineering and Computing	3 045	570	2 934	559	3 259	638
Faculty of Mining, Geology and Petroleum Engineering	825	199	801	213	822	231
Faculty of Chemical Engineering and Technology	1 030	742	1 051	779	1 096	807
Faculty of Textile Technology	1 286	1 087	1 219	1 045	1 058	906
School of Medicine	2 288	1 462	2 316	1 457	2 322	1 434
School of Dental Medicine	671	526	658	521	648	523
Faculty of Pharmacy and Biochemistry	947	746	919	733	933	743
Faculty of Veterinary Medicine	803	597	815	616	858	649
Faculty of Food Technology and Biotechnology	917	778	962	827	971	840
Faculty of Agriculture	2 384	1 527	2 401	1 552	2 429	1 575
Faculty of Forestry	1 098	401	1 064	398	1 042	401
Faculty of Economics and Business	5 662	3 569	6 898	4 392	6 488	4 065
Faculty of Law	6 260	4 648	5 851	4 339	5 672	4 207
Faculty of Political Science	1 632	1 133	1 432	1 002	1 462	1 014
Faculty of Humanities and Social Sciences	6 007	4 491	6 278	4 660	6 458	4 796
Catholic University of Croatia	425	307	593	460	851	675
University Department of Croatian Studies	1 336	1 019	1 249	926	1 317	989
Faculty of Teacher Education	1 280	1 239	1 362	1 315	1 484	1 428
Faculty of Education and Rehabilitation Sciences	815	777	798	760	775	738
Faculty of Kinesiology	1 334	403	1 247	374	1 265	371
Catholic Faculty of Theology	446	151	430	131	395	98
Catholic Faculty of Theology – Catechetical Institute	228	200	203	171	191	162
Institute of Philosophy and Theology of the Society of Jesus	79	11	85	20	113	22
Faculty of Philosophy of the Society of Jesus	362	254	302	219	274	206
Catholic Faculty of Theology – Institute for Church Music "Albe Vidaković"	25	15	23	12	20	11
University of Zagreb – Military Studies	105	26	195	53	269	65
Libertas International University	89	49	149	78	361	202
Art Academies	1 249	708	1 261	746	945	577
Music Academy	550	283	530	292	540	303
Academy of Fine Arts	404	275	410	287	405	274
Academy of Dramatic Art	295	150	321	167	-	-

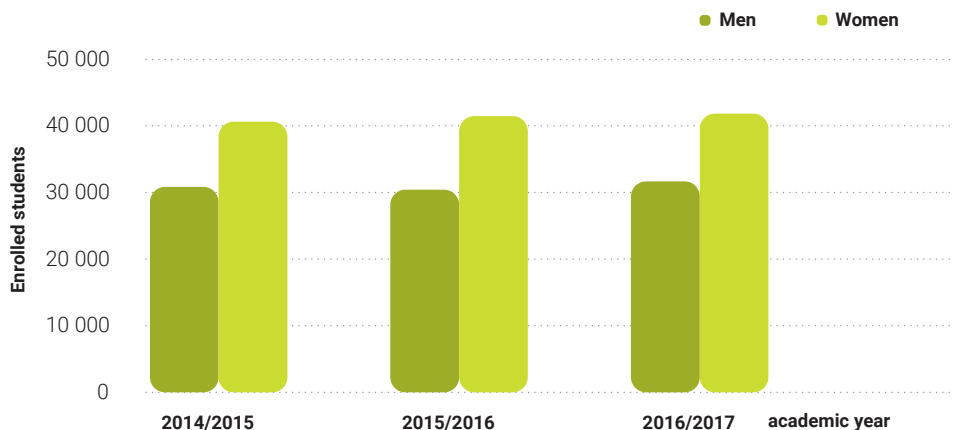
20.13 Students enrolled in higher education institutions by name of institutions and sex

(Continued)

	Academic year					
	2014/2015		2015/2016		2016/2017	
	Total	Female students	Total	Female students	Total	Female students
Polytechnics	8 593	3 649	7 811	3 524	8 378	3 484
Zagreb University of Applied Sciences	3 997	450	3 230	378	3 818	457
University of Applied Sciences VERN	1 592	816	1 688	846	1 707	829
University of Applied Health Sciences	3 004	2 383	2 893	2 300	2 853	2 198
Post-secondary education institutions	4 643	1 846	5 199	2 127	4 767	1 904
College of Occupational Safety and Health	409	102	419	84	324	72
College for Information Technologies	544	61	428	48	551	68
University College of International Relations and Diplomacy	50	27	-	-	-	-
Zagreb School of Economics and Management	654	299	762	308	685	311
Post-secondary Police School	470	120	481	134	487	144
Zagreb School of Business	293	168	314	172	376	216
Agora School of Market Communication	62	30	49	27	44	24
Libertas Business School	752	425	769	440	-	-
RRiF College of Financial Management	102	67	159	111	211	150
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	113	58	174	91	254	123
Effectus – University College for Law and Finance	435	266	551	317	596	367
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	70	44	77	48	67	40
Edward Bernays College of Communication Management	200	131	261	179	292	192
Algebra University College	489	48	590	76	737	118
University College of International Relations and Diplomacy Dag Hammarskjöld	-	-	165	92	142	78
European Business School	-	-	-	-	1	1

Source: CBS

G 20.5 Students enrolled in higher education institutions by sex



20.14 Students enrolled in higher education institutions by years of study in 2016/2017

Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Higher education institutions	73 494	41 841	58 300	33 423	28 619	22 523	14 722	4 547	2 530	553
Faculties	59 404	35 876	50 160	29 992	23 318	17 833	11 167	4 183	2 350	553
Professional studies	4 888	3 048	1 777	1 177	1 965	1 617	1 306	-	-	-
Faculty of Economics and Business	1 498	1 013	607	436	517	477	504	-	-	-
Faculty of Kinesiology	926	234	159	41	308	330	288	-	-	-
Faculty of Law – Study Centre for Public Administration and Public Finances	1 571	1 319	536	448	692	522	357	-	-	-
Catholic Faculty of Theology – Institute for Theological Culture	84	53	46	31	23	18	43	-	-	-
Libertas International University	809	429	429	221	425	270	114	-	-	-
University studies	54 516	32 828	48 383	28 815	21 353	16 216	9 861	4 183	2 350	553
Faculty of Science	4 135	2 543	4 135	2 543	1 638	1 495	737	125	140	-
Faculty of Architecture	966	605	966	605	341	420	205	-	-	-
Faculty of Civil Engineering	1 213	541	1 213	541	602	431	180	-	-	-
Faculty of Graphic Arts	620	334	619	333	291	210	119	-	-	-
Faculty of Geodesy	513	222	513	222	202	191	120	-	-	-
Faculty of Mechanical Engineering and Naval Architecture	2 143	344	2 129	341	893	739	248	263	-	-
Faculty of Transport and Traffic Sciences	2 093	443	1 438	327	967	660	466	-	-	-
Faculty of Electrical Engineering and Computing	3 259	638	3 259	638	1 488	1 200	571	-	-	-
Faculty of Mining, Geology and Petroleum Engineering	822	231	822	231	332	353	137	-	-	-
Faculty of Chemical Engineering and Technology	1 096	807	1 096	807	585	382	129	-	-	-
Faculty of Textile Technology	1 058	906	1 058	906	315	393	350	-	-	-
School of Medicine	2 322	1 434	2 322	1 434	456	472	387	358	353	296
School of Dental Medicine	648	523	648	523	111	114	107	88	113	115
Faculty of Pharmacy and Biochemistry	933	743	933	743	180	202	156	153	242	-
Faculty of Veterinary Medicine	858	649	858	649	187	122	136	168	103	142
Faculty of Food Technology and Biotechnology	971	840	971	840	365	398	208	-	-	-
Faculty of Agriculture	2 429	1 575	2 429	1 575	1 252	929	248	-	-	-
Faculty of Forestry	1 042	401	1 042	401	553	365	124	-	-	-

20.14 Students enrolled in higher education institutions by years of study in 2016/2017

(Continued)

Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Faculty of Economics and Business	6 488	4 065	4 534	2 862	3 493	912	863	1 220	-	-
Faculty of Law	5 672	4 207	2 925	2 181	1 949	704	1 325	1 123	571	-
Faculty of Political Science	1 462	1 014	1 435	996	634	461	228	139	-	-
Faculty of Humanities and Social Sciences	6 458	4 796	6 327	4 679	1 994	2 732	1 513	210	9	-
Catholic University of Croatia	851	675	719	552	413	308	130	-	-	-
University Department of Croatian Studies	1 317	989	1 317	989	503	600	214	-	-	-
Faculty of Teacher Education	1 484	1 428	1 159	1 110	407	427	315	144	191	-
Faculty of Education and Rehabilitation	775	738	775	738	303	327	145	-	-	-
Faculty of Kinesiology	1 265	371	1 265	371	330	253	182	72	428	-
Catholic Faculty of Theology	395	98	395	98	110	64	50	57	114	-
Catholic Faculty of Theology – Catechetical Institute	191	162	191	162	31	39	27	33	61	-
Institute of Philosophy and Theology of the Society of Jesus	113	22	113	22	18	21	23	26	25	-
Faculty of Philosophy of the Society of Jesus	274	206	268	203	106	105	63	-	-	-
Catholic Faculty of Theology – Institute for Church Music "Albe Vidaković"	20	11	20	11	5	4	7	4	-	-
University of Zagreb – Military Studies	269	65	269	65	117	64	88	-	-	-
Libertas International University	361	202	220	117	182	119	60	-	-	-
Art Academies	945	577	945	577	237	218	173	137	180	-
Music Academy	540	303	540	303	90	88	99	96	167	-
Academy of Fine Arts	405	274	405	274	147	130	74	41	13	-
Polytechnics	8 378	3 484	4 896	1 871	3 353	2 830	2 123	72	-	-
Zagreb University of Applied Sciences	3 818	457	2 356	290	1 570	1 376	872	-	-	-
University of Applied Sciences VERN	1 707	829	1 420	680	593	599	443	72	-	-
University of Applied Health Sciences	2 853	2 198	1 120	901	1 190	855	808	-	-	-
Post-secondary education institutions	4 767	1 904	2 299	983	1 711	1 642	1 259	155	-	-
College of Occupational Safety and Health	324	72	-	-	94	114	116	-	-	-
College for Information Technologies	551	68	172	24	170	140	241	-	-	-

20.14 Students enrolled in higher education institutions by years of study in 2016/2017

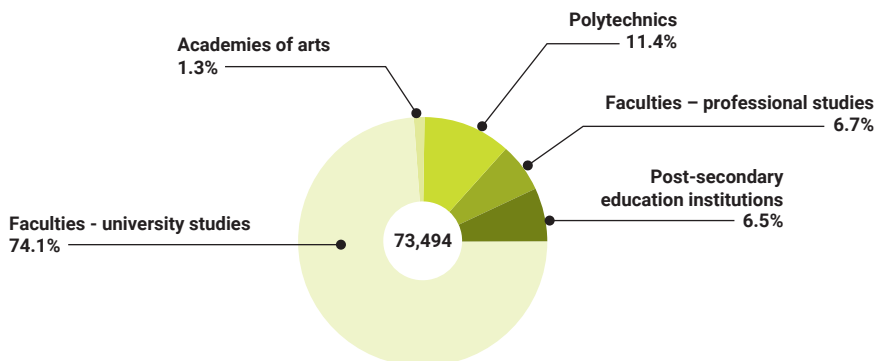
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Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Zagreb School of Economics and Management	685	311	602	273	243	160	127	155	-	-
Post-secondary Police School	487	144	166	57	197	201	89	-	-	-
Zagreb School of Business	376	216	173	101	153	140	83	-	-	-
Agora School of Market Communication	44	24	35	20	4	19	21	-	-	-
RRiF College of Financial Management	211	150	62	47	71	107	33	-	-	-
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	254	123	34	15	107	99	48	-	-	-
Effectus – University College for Law and Finance	596	367	246	146	125	226	245	-	-	-
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	67	40	64	39	41	17	9	-	-	-
Edward Bernays College of Communication Management	292	192	184	124	101	126	65	-	-	-
Algebra University College	737	118	447	74	355	239	143	-	-	-
University College of International Relations and Diplomacy Dag Hammarskjöld	142	78	113	62	49	54	39	-	-	-
European Business School	1	1	1	1	1	-	-	-	-	-

Source: CBS

G 20.6 Students enrolled in the academic year 2016/2017 by type of higher education



20.15 Graduates by name of higher education institution and sex

	2014		2015		2016	
	Total	Female students	Total	Female students	Total	Female students
Higher education institutions	15 825	9 424	16 799	10 025	15 632	9 435
Faculties	12 057	7 510	12 874	8 079	12 007	7 662
Professional studies	528	356	752	524	970	629
Faculty of Textile Technology	11	11	8	8	10	9
Faculty of Economics and Business	136	93	321	229	266	192
Faculty of Kinesiology	128	25	135	25	103	26
Faculty of Teacher Education	136	132	88	88	38	36
Faculty of Law – Study Centre for Public Administration and Public Finances	117	95	165	146	179	142
Catholic Faculty of Theology – Catechetical institute	-	-	35	28	19	11
Libertas International University	-	-	-	-	350	211
Faculty of Forestry	-	-	-	-	5	2
University studies	11 529	7 154	12 122	7 555	11 037	7 033
Faculty of Science	916	592	909	579	170	127
Faculty of Architecture	269	180	308	194	266	177
Faculty of Civil Engineering	350	132	373	143	348	147
Faculty of Graphic Arts	205	124	208	127	198	124
Faculty of Geodesy	172	72	166	68	137	59
Faculty of Mechanical Engineering and Naval Architecture	457	55	465	59	436	40
Faculty of Transport and Traffic Sciences	392	114	423	101	399	88
Faculty of Electrical Engineering and Computing	858	192	904	187	797	174
Faculty of Mining, Geology and Petroleum Engineering	197	57	184	55	203	57
Faculty of Chemical Engineering and Technology	185	138	219	155	219	166
Faculty of Textile Technology	157	145	138	126	276	248
School of Medicine	372	254	326	230	366	256
School of Dental Medicine	88	70	104	77	92	74
Faculty of Pharmacy and Biochemistry	128	104	171	136	124	104
Faculty of Veterinary Medicine	63	37	70	48	78	50
Faculty of Food Technology and Biotechnology	243	217	222	195	221	187
Faculty of Agriculture	576	360	659	417	619	427
Faculty of Forestry	214	86	212	68	159	66

20.15 Graduates by name of higher education institution and sex

(Continued)

	2014		2015		2016	
	Total	Female students	Total	Female students	Total	Female students
Faculty of Economics and Business	2 015	1 399	2 035	1 420	2 114	1 417
Faculty of Law	671	552	613	481	426	333
Faculty of Political Science	567	405	535	369	475	350
Faculty of Humanities and Social Sciences	1 048	826	1 240	998	1 179	927
University Department of Croatian Studies	460	370	412	335	367	280
Faculty of Teacher Education	227	217	470	455	610	598
Faculty of Education and Rehabilitation	279	266	287	274	306	295
Faculty of Kinesiology	250	100	156	50	135	56
Catholic Faculty of Theology	65	33	73	34	72	31
Catholic Faculty of Theology – Catechetical institute	28	25	49	47	30	22
Catholic Faculty of Theology – Institute for Theological Culture	3	1	-	-	-	-
Faculty of Philosophy of the Society of Jesus	40	22	59	36	35	23
Philosophical and Theological Institute of the Society of Jesus	14	1	16	2	19	2
Catholic University of Croatia	20	8	82	67	106	87
Libertas International University	-	-	34	22	55	41
Art Academies	305	184	280	146	295	178
Music Academy	85	54	87	39	69	32
Academy of Fine Arts	133	88	107	65	135	98
Academy of Dramatic Art	87	42	86	42	91	48
Polytechnics	2 001	1 052	2 069	1 108	1 916	1 067
Zagreb University of Applied Sciences	679	80	712	93	577	74
University of Applied Sciences VERN	405	223	390	221	421	229
University of Applied Health Sciences	917	749	967	794	918	764
Post-secondary education institutions	1 462	678	1 576	692	1 414	528
College of Occupational Safety and Health	240	60	259	58	444	94
Zagreb School of Economics and Management	378	210	364	182	281	141
Post-secondary Police School	153	29	178	31	184	36

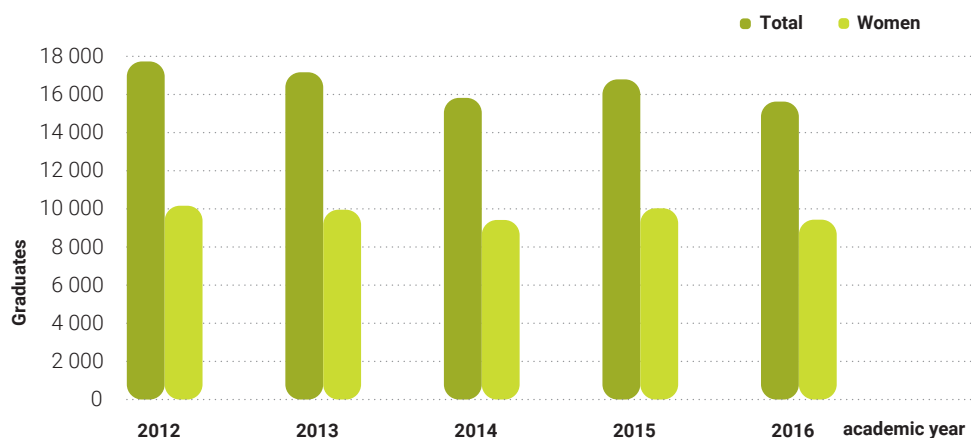
20.15 Graduates by name of higher education institution and sex

(Continued)

	2014		2015		2016	
	Total	Female students	Total	Female students	Total	Female students
Agora School of Market Communication	26	17	33	14	16	13
RRiF College of Financial Management	23	14	17	14	12	11
Zagreb School of Business	129	71	109	68	95	57
Libertas Business School	321	202	332	196	-	-
International Graduate Business School Zagreb	30	11	9	6	-	-
College for Information Technologies	39	3	40	8	45	3
Algebra University College	39	3	66	7	69	6
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	-	-	23	13	29	18
University College of International Relations and Diplomacy Dag Hammarskjöld	18	11	84	51	72	44
Effectus – University College for Law and Finance	43	30	50	35	104	61
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	23	17	12	9	21	17
Edward Bernays College of Communication Management	-	-	-	-	42	27

Source: CBS

G 20.7 Graduates by sex



20.16 Teachers and associates in higher education institutions by title in 2016/2017

Academic year

	Total	Full Professors	Associate Professors	Assistant Professors	Professors in post-secondary education institutions	Lecturers	Lectors	Associates in Arts	Assistants	Professional and other associates, visiting professors or teaching staff
Higher education institutions	8 280	1 395	1 012	1 511	190	1 178	96	42	2 188	668
Faculties	5 601	1 145	815	1 246	5	306	89	-	1 384	611
Faculty of Science	489	104	77	97	2	18	-	-	137	54
Faculty of Architecture	99	23	13	27	-	28	-	-	8	-
Faculty of Architecture – Design Studies	43	10	3	11	-	11	-	-	8	-
Faculty of Civil Engineering	135	26	12	31	-	9	-	-	53	4
Faculty of Graphic Arts	69	9	10	13	-	4	-	-	32	1
Faculty of Geodesy	62	16	1	14	-	5	-	-	22	4
Faculty of Mechanical Engineering and Naval Architecture	287	60	36	48	-	14	-	-	118	11
Faculty of Transport and Traffic Sciences	163	17	19	24	-	19	-	-	54	30
Faculty of Electrical Engineering and Computing	359	83	58	73	-	1	-	-	114	30
Faculty of Mining, Geology and Petroleum Engineering	116	31	16	29	-	4	-	-	31	5
Faculty of Chemical Engineering and Technology	130	22	23	16	-	5	-	-	59	5
Faculty of Textile Technology	111	20	15	25	1	6	-	-	37	7
Faculty of Food Technology and Biotechnology	193	47	44	38	-	4	-	-	60	-
School of Medicine	459	99	103	125	-	4	-	-	126	2
School of Dental Medicine	186	51	43	45	-	2	-	-	42	3
Faculty of Pharmacy and Biochemistry	130	24	32	22	-	1	-	-	50	1
Faculty of Agriculture	274	61	46	83	-	6	-	-	48	30
Faculty of Forestry	150	40	19	29	-	5	-	-	45	12
Faculty of Veterinary Medicine	177	55	28	35	-	2	-	-	40	17
Faculty of Economics	229	58	26	82	-	18	-	-	45	-
Faculty of Law	392	58	27	87	2	22	-	-	26	170
Faculty of Teacher Education	136	17	14	27	-	39	-	-	21	18
Faculty of Political Science	94	17	9	33	-	21	-	-	14	-
Faculty of Humanities and Social Sciences	700	118	80	140	-	20	89	-	126	127
Faculty of Education and Rehabilitation	96	26	24	27	-	8	-	-	11	-

20.16 Teachers and associates in higher education institutions by title in 2016/2017

(Continued)

Academic year

	Total	Full Professors	Associate Professors	Assistant Professors	Professors in post-secondary education institutions	Lecturers	Lectors	Associates in Arts	Assistants	Professional and other associates, visiting professors or teaching staff
Faculty of Kinesiology	181	27	12	25	-	13	-	-	24	80
Faculty of Philosophy of the Society of Jesus	38	11	6	10	-	-	-	-	11	-
Catholic Faculty of Theology	103	15	19	30	-	17	-	-	22	-
Art Academies	466	121	101	84	1	41	-	42	72	4
Music Academy	205	61	40	33	-	27	-	27	17	-
Academy of Fine Arts	105	23	30	12	-	6	-	11	19	4
Academy of Dramatic Art	156	37	31	39	1	8	-	4	36	-
Polytechnics	1 070	29	24	27	110	409	-	-	471	-
Zagreb University of Applied Sciences	236	7	7	5	25	122	-	-	70	-
University of Applied Health Sciences	627	15	9	14	63	158	-	-	368	-
University of Applied Sciences VERN	207	7	8	8	22	129	-	-	33	-
Post-secondary education	689	29	22	18	73	361	6	-	134	46
College of Occupational Safety and Health	28	1	-	1	6	13	1	-	4	2
Agora School of Market Communication	45	2	2	2	3	25	-	-	-	11
Zagreb School of Economics and Management	96	-	-	-	26	60	-	-	9	1
Post-secondary Police School	49	7	2	6	8	26	-	-	-	-
College for Information Technologies	71	-	-	-	3	39	-	-	20	9
Zagreb School of Business	35	3	1	2	2	19	-	-	8	-
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	22	1	1	-	1	17	-	-	2	-
Algebra University College	112	-	3	1	2	53	-	-	53	-
University College of International Relations and Diplomacy Dag Hammarskjöld	34	9	1	2	5	6	5	-	4	2
Effectus – University College for Law and Finance	58	-	1	1	7	40	-	-	9	-
Faculty of Theology "Matija Vlačić-Illirik" (evangelical)	26	2	6	1	-	-	-	-	2	15

20.16 Teachers and associates in higher education institutions by title in 2016/2017

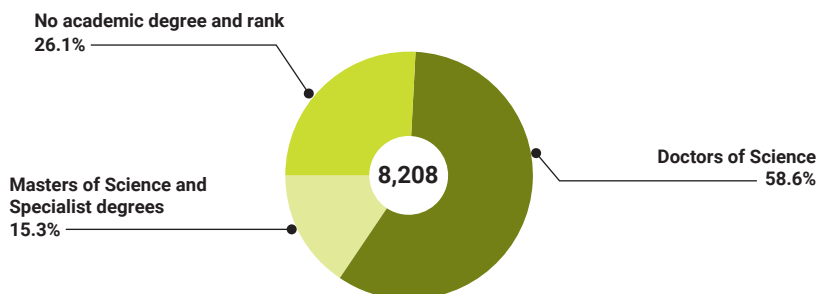
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Academic year

	Total	Full Professors	Associate Professors	Assistant Professors	Professors in post-secondary education institutions	Lecturers	Lectors	Associates in Arts	Assistants	Professional and other associates, visiting professors or teaching staff
RRiF College of Financial Management	38	2	2	-	6	23	-	-	-	5
Edward Bernays College of Communication Management	65	1	3	2	4	32	-	-	23	-
European Business School	10	1	-	-	-	8	-	-	-	1
University Departments	214	37	26	61	-	17	1	-	71	1
University Department of Croatian Studies	214	37	26	61	-	17	1	-	71	1
Institutes	32	8	4	9	-	-	-	-	6	5
Institute of Philosophy and Theology of the Society of Jesus	32	8	4	9	-	-	-	-	6	5
University	208	26	20	66	1	44	-	-	50	1
Croatian Catholic University	128	20	15	54	-	3	-	-	35	1
Libertas International University	80	6	5	12	1	41	-	-	15	-

Source: CBS

G 20.8 Teachers and associates by academic degree and rank in the academic year 2016/2017

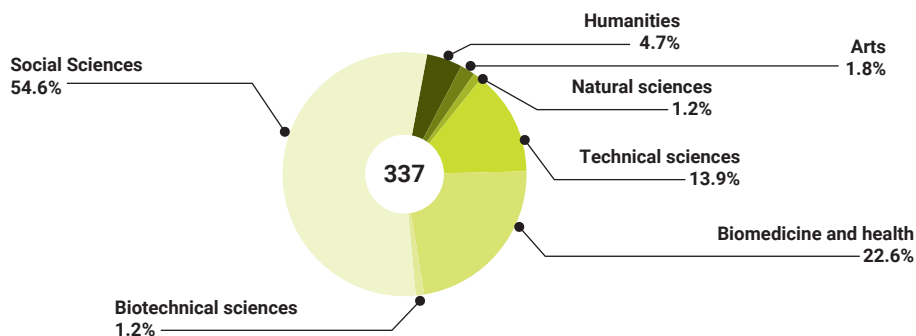


20.17 Masters of Science, Masters and University Specialists at higher education institutions

	2014		2015		2016	
	Total	Women	Total	Women	Total	Women
Ukupno	379	233	335	207	337	195
Faculty of Science	6	4	1	1	3	3
Faculty of Civil Engineering	2	-	7	-	3	-
Faculty of Geodesy	-	-	1	-	4	4
Faculty of Mechanical Engineering and Naval Architecture	4	-	4	-	3	-
Faculty of Transport and Traffic Sciences	1	-	-	-	-	-
Faculty of Electrical Engineering and Computing	13	6	13	4	25	6
School of Medicine	9	3	12	10	12	8
School of Dental Medicine	9	9	15	9	8	7
Faculty of Pharmacy and Biochemistry	26	22	26	24	32	28
Faculty of Veterinary Medicine	40	14	29	13	23	6
Faculty of Food Technology and Biotechnology	10	8	6	6	1	1
Faculty of Agriculture	1	1	-	-	1	1
Faculty of Forestry	2	-	-	-	-	-
Faculty of Economics and Business	141	95	110	66	99	52
Faculty of Law	14	11	20	16	12	7
Faculty of Political Science	69	35	61	38	54	37
Faculty of Humanities and Social Sciences	4	4	6	6	2	2
Faculty of Education and Rehabilitation	2	2	5	5	5	5
Catholic Faculty of Theology	4	1	4	1	9	1
Music Academy	4	2	2	-	4	2
Center for Postgraduate Studies of the University of Zagreb	18	16	13	8	35	25
Academy of Fine Arts	-	-	-	-	2	-

Source: CBS

G 20.9 Masters of Science, Masters and University Specialists by scientific field of the thesis for acquiring the Master/Specialist degree in 2016

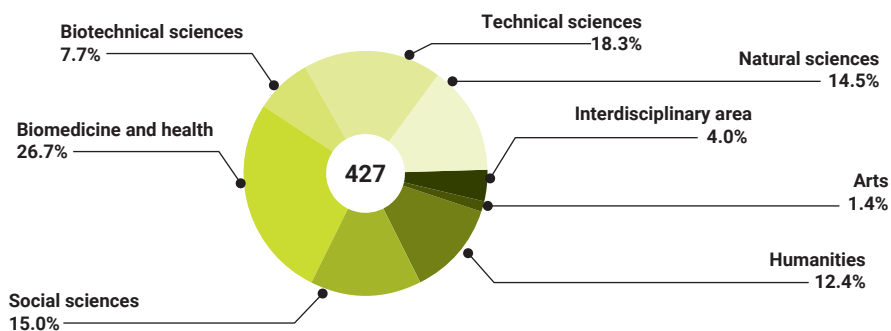


20.18 Doctors of Science at higher education institutions

	2014		2015		2016	
	Total	Women	Total	Women	Total	Women
Total	605	334	672	390	427	241
Faculty of Science	117	62	106	67	63	40
Faculty of Architecture	5	1	10	5	3	1
Faculty of Civil Engineering	11	6	10	3	5	2
Faculty of Geodesy	9	3	4	2	4	2
Faculty of Graphic Arts	6	3	6	2	8	5
Faculty of Mechanical Engineering and Naval Architecture	7	1	27	4	13	3
Faculty of Electrical Engineering and Computing	48	8	38	10	29	3
Faculty of Transport and Traffic Sciences	12	2	3	1	3	-
Faculty of Mining, Geology and Petroleum Engineering	7	3	7	3	7	4
Faculty of Chemical Engineering and Technology	17	12	20	16	6	3
Faculty of Textile Technology	4	4	5	4	1	1
School of Medicine	68	32	80	50	90	53
School of Dental Medicine	15	7	16	7	12	8
Faculty of Pharmacy and Biochemistry	4	4	6	5	8	7
Faculty of Veterinary Medicine	17	8	21	14	4	2
Faculty of Food Technology and Biotechnology	6	3	20	13	11	9
Faculty of Agriculture	17	10	25	13	16	9
Faculty of Forestry	5	2	14	6	6	2
Faculty of Economics and Business	21	15	21	12	11	7
Faculty of Law	27	22	27	15	16	12
Faculty of Political Science	8	2	7	4	4	2
Faculty of Philosophy	135	91	141	104	64	47
Croatian Studies	12	17	17	8	14	5
Faculty of Education and Rehabilitation	1	1	3	2	-	-
Faculty of Kinesiology	9	4	12	4	7	1
Catholic Faculty of Theology	2	1	3	-	2	-
Institute of Philosophy and Theology of the Society of Jesus	2	2	4	2	2	-
Centre for Postgraduate Studies of the University of Zagreb	3	1	4	3	2	1
Academy of Arts	7	4	4	3	6	3
Faculty of Teacher Education	3	3	11	8	10	9

Source: CBS

G 20.10 Doctors of Science by the area of science and arts of their doctoral dissertations in 2016



21

Culture and arts



NOTES ON METHODOLOGY

Data sources

Data on culture and arts are collected by virtue of regular annual reports. These reports do not include museums, galleries, collections and libraries because data collection for these units is carried out every three years.

Data on LADO - National Folk-Dance Ensemble of Croatia, on radio and television subscribers of Croatian Radio and Television (HRT), and on the Zoo of the City of Zagreb are received directly from these institutions.

Coverage and comparability

Data covers all cultural-artistic and cultural-educational organizations in the presented period, and the data are comparable with the data from the previous years.

In statistical surveys of national libraries, libraries of higher education organizations and special libraries, data include only those libraries that have 500 or more volumes of books and periodicals, as well as national libraries that have 250 or more volumes of books and periodicals.

Definitions and explanations

Library is any organized collection of written, printed and other copied material intended for use and dissemination of general education, as well as for scientific and professional work. Library has its staff. An active library member is a member of the library (registered user) who visited or used the library in the reference year.

Museums and museum collections are institutions that systematically collect, scientifically process, preserve and exhibit objects relevant for education, science and art. Art galleries with museum artefacts are considered art museums.

Professional theatres are independent cultural and artistic institutions with permanent management and permanent professional art ensemble or professional ensemble that is hired for individual performances based on a contract.

Professional children's theatre is a professional theatre that regularly offers performances for children in which children participate along with a professional team.

Amateur theatres are cultural and artistic institutions whose ensemble generally consists of amateur actors. Amateur theatres are organizationally independent or they are a part of cultural and artistic associations.

Radio and television services are provided by institutions that produce and broadcast a program for the public, through transmitters. Television subscribers are automatically considered radio subscribers. Pursuant to the Act on Croatian Radio and Television (Official Gazette 137/10, 76/12 and 78/16), radio subscribers and television subscribers are persons who pay subscription for radio and persons who pay subscription for television.

Professional orchestras/choirs are musical ensembles of professional musicians/singers, who are permanently employed or hired based on a contract. Data on the work of philharmonic are presented separately.

LADO - the National Folk-Dance Ensemble of Croatia is a professional institution whose aim is to research native folk dances and perform artistic performances of folk dances, songs and music.

Movie theatre is an indoor or open-air space equipped with devices for display of movies to the public. Movie theatres can have one or more auditoriums/screens, and they can function as permanent, summer (in a garden or on a terrace) or mobile movie theatres. They can be independent, a part of a filmmaking company, a part of another institution, a part of a cultural and educational institution, or private.

Zoo is an enclosed space where live specimens of various animal species are kept and exhibited to the public, and in which they breed and are explored for scientific and educational purposes.

21.1 History of theatre

1833	Zagreb's wholesaler and landlord Kristofor Stanković got the main prize of the Vienna Lottery in the amount of 30,000 ducats and decided to erect the theatre building at Gradec, at the corner of Trg st. Marka square and Freudenreich's Street as a private investment. City Magistrate granted him the land on which the building was built.
1834	(4 October) Gradec theatre was opened with the performance of the play "Zriny". Only German troupes performed at the Gradec theatre.
1835	During the intermission of German plays, the patriotic song "Još Hrvatska Ni Propala" by Ljudevit Gaj would be performed.
1840	(10 June), the first play in the Croatian language was performed – the play by Ivan Kukuljević Sakcinski named "Juran i Sofija" or "Turci kod Siska".
1860	Croatian National Theatre was founded at the initiative of the members of the Illyrian movement, namely of Dimitrije Demetar, who advocated that the Croatian people should have a theatre with plays performed in their own language.
1895	(14 October) Theatre building was opened at the then "Sveučilišni trg".

21.2 Theatres and cinematographs, movie theatres, radio and TV-subscribers from 1950 to 2016

	Theatres ¹⁾			Cinematographs/Movie theatres			Radio subscribers ²⁾	TV-subscribers ²⁾³⁾⁴⁾
	Number	Performances	Visitors	Number	Projections	Visitors in thousands		
1950	5	1 125	707 824	18	13 602	5 753	-	-
1960	5	1 278	639 814	33	27 746	10 267	102 947	5 034
1970	9	1 381	476 011	31	28 206	5 657	152 550	124 750
1980	10	2 073	782 751	31	27 100	5 908	189 986	189 479
1990	11	2 003	641 114	29	26 449	3 064	244 614	235 345
2000	12	1 853	515 842	21	19 857	1 358	226 115	221 191
2010	39	4 928	926 134	7	43 176	1 978	249 450	217 645
2011	53	5 045	1 057 846	9	53 729	1 932	256 049	219 064
2012	60	4 984	1 044 273	10	67 495	2 110	261 378	220 377
2013	80	5 976	1 145 516	10	70 556	2 105	261 434	219 557
2014	81	5 965	1 139 094	10	70 693	2 029	262 532	220 553
2015	89	5 770	1 044 845	9	70 689	2 158	265 703	222 788
2016	84	6 018	1 380 648	9	63 743	2 207	269 821	222 940

¹⁾ Data on the number of performances, projections, and visitors refers to the season ending in the calendar year shown. Data on children's theatres and amateur theatres since 2002 has been included.

²⁾ Number of radio subscribers is not presented, but the number of registered radio receivers, because the radio subscribers do not pay subscription for a second registered radio receiver, and TV subscribers do not pay for the registered radio receiver.

³⁾ In 2001, payment of subscription for a second TV-set was cancelled.

⁴⁾ See Notes on Methodology.

Source: CBS, Croatian Radio-Television, Department for Croatian Radio-Television Subscription Fee; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.3 Theatres

	Number of theatres	Number of performances			Number of plays	Visitors		
		Total	In Zagreb	Outside of Zagreb		Total	In Zagreb	Outside of Zagreb
2011/2012	60	4 984	3 972	1 012	595	1 044 273	814 006	230 267
2012/2013	80	5 976	4 380	1 596	620	1 145 516	811 167	334 349
2013/2014	81	5 965	4 277	1 688	620	1 139 094	810 049	329 045
2014/2015	89	5 770	4 135	1 635	623	1 044 845	726 815	318 030
2015/2016	84	6 018	4 223	1 795	766	1 380 648	795 502	585 146

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.4 Professional theatres

	Number of theatres	Number of performances			Number of plays	Visitors		
		Total	In Zagreb	Outside of Zagreb		Total	In Zagreb	Outside of Zagreb
2011/2012	38	3 214	2 512	702	271	772 273	602 509	169 764
2012/2013	56	3 676	2 678	998	368	823 288	564 453	258 835
2013/2014	57	4 233	3 171	1 062	432	937 775	679 455	258 320
2014/2015	61	3 766	2 732	1 034	396	798 406	561 182	237 224
2015/2016	55	4 005	2 899	1 106	470	1 127 900	631 890	496 010

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.5 Professional children's theatres

	Number of theatres	Number of performances			Number of plays	Visitors		
		Total	In Zagreb	Outside of Zagreb		Total	In Zagreb	Outside of Zagreb
2011/2012	9	1 572	1 314	258	288	248 005	195 777	52 228
2012/2013	14	2 140	1 576	564	222	300 066	233 972	66 094
2013/2014	14	1 600	998	602	164	182 749	116 874	65 875
2014/2015	18	1 803	1 230	573	181	228 606	152 557	76 049
2015/2016	18	1 861	1 204	657	263	237 088	152 982	84 106

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.6 Amateur theatres

	Number of theatres	Number of performances			Number of plays	Visitors		
		Total	In Zagreb	Outside of Zagreb		Total	In Zagreb	Outside of Zagreb
2011/2012	13	198	146	52	36	23 995	15 720	8 275
2012/2013	10	160	126	34	30	22 162	12 742	9 420
2013/2014	10	132	108	24	24	18 570	13 720	4 850
2014/2015	10	201	173	28	46	17 833	13 076	4 757
2015/2016	11	152	120	32	33	15 660	10 630	5 030

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.7 Croatian National Theatre

	Performances				Works				Visitors		
	Total	By the location of the performance			Plays	Operas and ballets	Operettas	Other	Total	In Zagreb	Outside of Zagreb
		In the theatre's permanent hall	Visiting performances								
			In Zagreb	Outside of Zagreb							
2011/2012	255	215	1	39	12	25	-	-	129 292	111 643	17 649
2012/2013	249	216	5	28	13	26	-	-	123 290	110 600	12 690
2013/2014	269	216	1	52	16	27	-	-	140 415	108 300	32 115
2014/2015	231	207	2	22	10	22	-	4	113 833	101 583	12 250
2015/2016	287	238	2	47	14	26	-	7	120 892	101 712	19 180

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.8 Professional orchestras, ensembles and choirs

	Number of orchestras, ensemble, and choirs	Concerts				Visitors			
		Total	In Zagreb	Outside of Zagreb	Abroad	Total	In Zagreb	Outside of Zagreb	Abroad
2011/2012	15	385	197	135	53	202 420	143 420	38 830	20 170
2012/2013	15	423	209	174	40	223 834	159 134	42 190	22 510
2013/2014	36	641	304	261	76	242 086	174 280	43 736	24 070
2014/2015	35	636	296	262	78	203 736	117 114	60 662	25 960
2015/2016	34	602	302	245	55	242 868	156 459	55 973	30 436

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.9 LADO – the National Folk-Dance Ensemble of Croatia

	Members – performers					Performances			Visitors		
	Men	Women	Total	Dancers and singers	Members of the orchestra	Total	In Croatia	Abroad	Total	In Croatia	Abroad
2012	31	23	54	40	14	99	93	6	49 102	44 102	5 000
2013	31	24	55	41	14	91	84	7	54 070	34 470	19 600
2014	31	24	55	41	14	105	70	35	70 000	40 000	30 000
2015	31	24	55	41	14	98	98	-	30 000	30 000	-
2016	32	25	57	42	15	60	58	2	35 000	33 000	2 000

Source: Lado

21.10 Cinematographs/movie theatres

	Cinematographs	Movie theatres/ screens	Seats	Projections	Visitors in thousands	Employees
2012	10	49	9 660	67 495	2 110	82
2013	10	49	9 940	70 556	2 105	86
2014	10	50	9 690	70 693	2 029	91
2015	9	49	9 540	70 689	2 158	94
2016	9	49	9 528	63 743	2 207	91

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.11 Museums

	2009			2012			2015		
	Muse-ums	Items incollections	Visitors	Muse-ums	Items incollections	Visitors	Muse-ums	Items incollections	Visitors
Museums – total	32	4 400 139	461 233	32	2 633 474	475 179	44	2 709 160	699 368
Archaeological	1	409 862	22 672	1	381 620	28 556	1	384 761	31 947
Ethnographic	1	79 410	18 608	1	67 885	33 818	2	53 864	13 237
History	4	204 398	7 170	4	252 102	9 642	7	457 108	16 710
Complex	2	433 358	33 820	2	433 894	73 586	2	360 243	79 071
Art	12	401 308	239 371	11	146 391	109 432	15	186 167	84 482
Natural history	2	2 782 243	11 088	2	1 268 803	37 250	2	1 169 344	23 826
Science and technology	2	20 274	116 326	2	15 738	125 889	3	17 851	241 310
Local history	1	10 493	-	1	4 954	-	1	5 851	-
Other (memorial, biographical etc.)	7	58 793	12 178	8	62 087	57 006	11	73 971	208 785

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.12 Museums in 2015

Museums by type	Year of foundation	Museums	Items		Visitors
			Total	of which displayed	
Museums – total		44	2 709 160	40 216	699 368
Archaeological – total		1	384 761	11 776	31 947
Archaeological Museum	1846		384 761	11 776	31 947
Ethnographic – total		2	53 864	2 071	13 237
Ethnographic Museum	1919		53 518	2 071	13 237
Perinić Collection	1992		346	-	-
History – total		7	457 108	2 377	16 710
Croatian History Museum	1846		307 183	-	-
Croatian School Museum	1901		92 178	1 293	6 490
Diocesan Museum of the Archdiocese of Zagreb	1939		2 380	-	-
Museum of Arts and Crafts – Collection of Anka Gvozdanović	1966		1 133	-	-
Croatian Sports Museum	2003		54 000	850	750
Museum of the Serbian Orthodox Church	2006		159	159	1 500
Museum of Torture	2015		75	75	7 970
Complex – total		2	360 243	3 493	79 071
Zagreb City Museum	1907		353 396	3 438	74 097
Typological Museum	1953		6 847	55	4 974
Art – total		15	186 167	6 472	84 482
Museum of Arts and Crafts	1880		99 272	2 984	10 232

21.12 Museums in 2015

(Continued)

Museums by type	Year of foundation	Museums	Items		Visitors
			Total	of which displayed	
Strossmayer Gallery of Old Masters of the Croatian Academy of Sciences and Arts	1884		790	178	8 102
Modern gallery	1905		10 000	800	2 200
Graphics and Drawings from the Fundus of the Academy of Fine Arts in Zagreb	1907		11 619	-	-
Department of Prints and Drawings of the Croatian Academy of Sciences and Arts	1916		21 488	-	-
Glyptothèque of the Croatian Academy of Sciences and Arts	1937		11 404	610	587
Museum of Contemporary Art	1954		6 970	430	13 068
Museum of Ivan Meštrović	1959		360	97	13 158
Mimara Museum	1980		3 769	1 249	8 089
Museum of Contemporary Art – Richter Collection	1980		188	40	1 680
Klovičevi Dvori Gallery	1982		2 021	-	-
Museum Theatre Collection	1988		153	-	-
Croatian Museum of Naive Art	1994		2 304	76	21 113
Croatian Museum of Architecture	1995		2 620	-	-
Museum of Contemporary Art – Tošo Dabac Archive	2005		13 209	8	6 253
Natural history – total		2	1 169 344	5 135	23 826
Croatian Natural History Museum	1846		1 166 794	2 900	21 064
Hunting Museum	1952		2 550	2 235	2 762
Science and technology – total		3	17 851	3 021	241 310
Technical Museum Nikola Tesla	1954		12 967	2 890	186 394
Croatian Railway Museum	1991		4 789	36	1 416
Automobile Museum Ferdinand Budicki	2013		95	95	53 500
Local history – total		1	5 851	-	-
Prigorje Museum	1977		5 851	-	-
Other (memorial, biographical etc.) – Total		11	73 971	5 871	208 785
Special Church Museum of the Zagreb	1094		12 000	1 550	2 000
HT Museum	1953		39 767	1 142	4 043
Museum of the University Psychiatric Hospital Vrapče	1955		100	20	1 000
Military Museum	1997		10 000	-	-
Bank Museum	2000		2 419	2 419	410
Police Museum	2001		3 026	-	-
Memorial Center Dražen Petrović	2006		4 040	288	12 800
Museum of Blessed Alojzije Stepinac	2007		290	290	17 350
Museum of Broken Relationships	2010		1 790	92	80 859
Croatian Museum of Medicine and Pharmacy	2014		469	-	-
Museum of Illusions	2015		70	70	90 323

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.13 Galleries in 2015

Types of galleries	Year of foundation	Number of exhibitions	Number of visitors
Galleries – Total		179	132 439
Art Pavilion in Zagreb	1898	5	58 502
Croatian Association of Artists	1938	28	20 848
Gallery of the Student Centre	1962	16	3 800
Forum Gallery	1969	9	6 340
Vladimir Nazor Gallery	1971	14	6 650
Vladimir Bužančić Gallery	1977	9	2 908
Karas Gallery	1978	10	1 455
Gallery of the Centre for Culture and Education	1980	11	4 000
Modulor Gallery	1980	17	7 000
Mirko Virius Gallery	1986	7	3 000
Miroslav Kraljević Gallery	1986	8	70
Gallery of the Croatian Association of Artists of Applied Arts	1991	22	11 000
Matica Hrvatska Gallery	1995	10	866
Mijo Kovačić Gallery	2011	5	2 500
Bernardo Bernardi Gallery	2012	8	3 500

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.14 Collections in 2015

Collections by types	Year of foundation	Collections	Items in collections		Visitors
			Total	of which displayed	
Collections – total		28	515 559	47 229	296 457
Collections open for public		18	504 808	47 229	296 457
Ethnographic		2	334	334	150
Nikola Marčetić's Functional Cultural Collection	1991		130	130	50
Collection of Drago Muvrin's African Objects of Art	1999		204	204	100
Historical		1	43 300	43 300	850
Map Collection of the National and University Library	1945		43 300	43 300	850
General (complex)		1	596	596	1 200
Collection "Workshop for Restoration and Production of Bowed String Instruments of the late Franjo Schneider"	1983		596	596	1 200
Art		12	458 471	2 458	290 558
Valvasor's Graphic Collection of the Archdiocese of Zagreb	1690		7 900	-	16
Print Collection of the National and University Library	1919		348 831	-	372

21.14 Collections in 2015

(Continued)

Collections by types	Year of foundation	Collections	Items in collections		Visitors
			Total	of which displayed	
Music Collection of the National and University Library	1947		97 669	-	756
Jozo Kljaković's Collection and House	1969		1 019	49	320
Nada Mirjević's Collection	1976		8	8	2 500
Zagreb City Museum – Dr Ivan Ribar and Cata Dujšin-Ribar Memorial Collection	1976		233	190	206
Zagreb City Museum – Miroslav and Bela Krleža Memorial Space	1986		1 058	458	1 286
Josip Kovačić's Collection "Croatian Female Painters Born in the 19th Century"	1988		1 073	1 073	250
Marija Tomljenović Valečić's Collection	1993		8	8	2 500
Vera Horvat-Pintarić's Collection	1995		170	170	30
Collection of Sculptures of the Sculptor and Academician Zlatko Zlatić	2007		166	166	281 972
Gallery Tomislav Ostojica	2012		336	336	350
Other		2	2107	541	3699
Zagreb City Museum – Collection and Flat of the Architect Viktor Kovačić	1953		617	457	463
Memorial Apartment of Marija Jurić Zagorka	2016		1490	84	3236
Collections closed to the public		10	10 751	-	-
Archaeological		1	245	-	-
Vladimir Slivarić's Collection	1952		245	-	-
General (complex)		2	157		
Marcelo Jelačić's Collection	1800		90	-	-
Ivan Mirnik's Private Collection	1892		67	-	-
Art		4	1 140	-	-
Ksenija Arko's Art Collection	1920		41	-	-
Drago Mahjer's, Marga Magjer's, and Nada Ostrogović-Magjer's Collection	1967		240	-	-
Marta and Vilim Svečnjak's Collection	1990		827	-	-
Zlatko Latković's Icon Collection	2008		32	-	-
Other		3	9 209	-	-
Collection of Margita and Rudolf Matz	1989		2 735	-	-
Collection of the Sculptor Robert Frangeš-Mihanović	1991		419	-	-
Zvonimir Zlodi's Collection	2012		6 055	-	-

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

21.15 Libraries from 2004 to 2016

	2004	2007	2010	2013	2016
Total	394	377	371	354	330
National and University Library	1	1	1	1	1
Libraries of higher education institutions	93	91	84	77	50
Special libraries	87	78	80	71	66
Monastic church libraries	3	3	2	...	...
National libraries	48	45	42	45	46
Primary school libraries	99	99	99	99	107
Secondary school libraries	63	60	63	61	60

Source: CBS

21.16 Libraries in 2016

	Libraries	Catalogued library inventory		Active users	Employees		
		Total	Of which: books and brochures (volumes)		Total	Professional staff	Other staff
Total	330	6 250 707	6 030 145	389 973	1 390	1 100	290
National and University Library	1	1 695 514	1 651 313	12 853	300	190	110
Libraries of higher education institutions	50	1 262 371	1 225 901	70 223	186	164	22
Special libraries	66	1 268 859	1 212 074	20 468	131	111	20
National libraries	46	1 433 159	1 353 572	198 070	583	456	127
Primary school libraries	107	313 783	312 316	58 811	120	115	5
Secondary school libraries	60	277 021	274 969	29 548	70	64	6

Source: CBS

21.17 Zoological garden

	2012	2013	2014	2015	2016
Animals					
Individuals – total	3 560	6 009	5 968	7 533	7 737
Species – total	301	321	338	357	358
Mammals					
Individuals	608	617	656	625	648
Species	72	75	76	77	77
Birds					
Individuals	293	306	305	351	342
Species	74	75	75	76	77
Reptiles					
Individuals	327	372	453	620	624
Species	79	85	97	108	114
Fish					
Individuals	301	297	288	375	446
Species	35	33	33	37	32
Amphibians and invertebrates					
Individuals	2 031	4 417	4 266	5 562	5 677
Species	41	53	57	59	58
Visitors – total	260 769	257 942	294 872	273 237	308 421
Of which: children	96 315	95 139	103 881	98 727	122 797

Source: Zagreb ZOO

22

Sports



NOTES ON METHODOLOGY



Data sources

Data on sports organizations and medals won in sports competitions were obtained from the Sports Association of the City of Zagreb. Data on sports venues were supplied by the City Office for Education, Culture and Sports.

Coverage

The Sports Association of the City of Zagreb was established on 30 December 2013, with the aim of development and promotion of sports and sports creativity, implementation of joint sports programs and fulfilment of public demand for sports, as well as planning of funds for use of sports programmes in the City of Zagreb. It was entered into the Register of Associations on 8 January 2014, since when it exists as a legally active entity.

Definitions and explanations

Sports activities are physical activities undertaken by children and young people, active athletes, as well as sports and recreational activities and kinesiotherapy exercises.

Sports association is an association established for performance of sports activities defined by the Sports Act (Official Gazette 71/06, 150/08, 124/10, 124/11, 86/12, 94/13 and 85/15). Provisions of the Associations Act govern the establishment, organization, legal status, registration and termination of the association, unless any of the afore-mentioned matters are otherwise regulated by the Sports Act.

Sportsman/sportswoman is a person preparing for and participating in sports competitions.

Disabled persons can establish sports associations and organizations for the disabled, according to type of sports and type of disability, with the aim of organizing sports competitions and sports and recreational activities for the disabled. Croatian Paralympic Committee and the Croatian Sports Association of Deaf People regulate the fore-mentioned competitions and activities.

Sports venues are areas and structures equipped and furnished for carrying out sports activities. In addition to the general requirements stipulated by special regulations, these structures also meet special requirements in accordance with the provisions of the Sports Act.

Public sports venues are structures owned by the City of Zagreb, which are permanently used for implementation of programs designed to meet public needs for sports. Construction of sports venues is defined by the National Sports Program and funded from the state budget, units of local and regional self-government, part of the revenue from lottery games and private investment, as well as from partnerships between government and non-governmental organizations in sports, and from the private sector.

Categorization of sports venues is stipulated by the Decision on the Management and Use of Sport Venues owned by the City of Zagreb, which was issued by the City Assembly (Official Gazette of the City of Zagreb 6/10, 12/10, 5/11, 15/11, 22/15 and 25/15) and which classifies sports venues into five categories as presented below.

1. Sports venues of the 1st category - major sports venues of particular importance to the City of Zagreb and the Republic of Croatia, of great financial value, which meet the requirements and standards of international sports associations with regard to organization of official competitions and international sporting events.
2. Sports venues of the 2nd category - major sports venues important for sports of the City of Zagreb in terms of the value of venues, promotion of professional sport, historical role, the number of users and viewers.
3. Sports venues of the 3rd category - multipurpose sports venues of special features, important for the development of a particular sport or group of sports, and for fulfilment of demand for sports of a larger group of citizens.
4. Sports venues of the 4th category - sports venues important for local self-government unit or city district, used for practicing a specific sport or for recreational purposes.
5. Sports venues of the 5th category - sports venues significant for the area of local committees or individual sports associations, designed to meet the demand for sports and recreation in one's place of residence.

22.1 Sports associations and active athletes by sport types and age groups in 2016

Type of sport	Number of associations	Active members		Age							Professional staff
		Total	Women	up to 14	15 – 19	20 – 27	28 – 35	36 – 45	46 – 55	56 and more	
Total	1 129	111 643	26 017	33 886	21 689	13 641	4 162	3 843	2 589	1 833	3 258
Athletics	7	1 538	657	35	430	664	187	99	69	54	52
Automobile racing	17	126	11	3	5	28	26	43	16	5	36
Badminton	9	263	117	44	85	50	15	30	30	9	25
Baseball	5	202	24	84	49	28	21	16	4	-	25
Bicycling	12	135	18	35	17	13	23	33	6	8	34
Billiards	6	108	8	-	9	22	12	27	17	21	14
Boules	25	426	6	-	2	24	33	37	50	280	60
Body building	4	111	23	-	1	25	51	19	14	1	10
Boxing	12	304	42	30	104	131	37	2	-	-	38
Bridge	6	257	115	-	11	16	26	36	42	126	16
Curling	5	23	7	-	-	-	6	12	5	-	12
Weightlifting	4	26	10	-	-	3	14	9	-	-	13
Gymnastics	9	1 140	818	445	497	164	23	7	3	1	52
Golf	4	11	2		1	3	1	2	-	4	11
Hockey	7	526	137	165	111	125	60	36	17	12	32
Ice Hockey	17	373	38	1	45	223	61	30	5	8	56
Wrestling	9	1 128	60	172	293	521	110	23	3	6	34
Sailing	8	183	33	53	42	26	15	26	11	10	24
Jet Ski	6	159	51	14	10	16	26	49	35	9	17
Judo	14	730	182	318	276	94	19	7	12	4	58
Jiu-jitsu	6	26	3	-	-	6	7	12	1	-	14
Kayak/canoe	4	595	109	69	78	210	183	46	5	4	16
Karate	37	1 105	380	8	277	566	164	46	23	21	100
Kickboxing	11	584	148	20	106	236	136	62	22	2	24
Ice skating	10	359	333	256	61	21	3	16	2	-	34
Equestrian sports	11	193	140	5	58	55	27	34	9	5	26
Basketball	38	1 920	387	985	686	182	46	8	7	6	211
Inline skating	9	8	2	-	-	5	2	-	1	-	26
Bowling	40	648	151	77	63	37	59	61	78	273	115
Fencing	8	506	193	36	154	203	53	39	12	9	21
Motorcycle sports	11	87	1	-	2	16	31	11	13	14	24
Nanbudo	9	381	136	47	96	154	54	21	6	3	20
Football	138	15 059	201	6 249	3 197	1 643	667	1 623	1 245	435	589
Volleyball	25	3 091	2 542	1 811	748	386	102	35	7	2	149
Orienteering	5	226	88	5	30	47	31	56	28	29	12
Darts	30	435	26	-	2	40	150	176	61	6	62

22.1 Sports associations and active athletes by sport types and age groups in 2016

(Continued)

Type of sport	Number of associations	Active members		Age							Professional staff
		Total	Women	up to 14	15 – 19	20 – 27	28 – 35	36 – 45	46 – 55	56 and more	
Swimming	9	1 245	471	97	702	389	45	7	4	1	52
Rugby	7	774	41	1	68	467	146	56	18	18	28
Rock'n'roll	6	335	243	156	126	47	5	1	-	-	46
Diving	4	111	38	3	32	30	33	11	2	-	12
Handball	30	1 426	413	237	473	482	181	38	8	7	139
Savate	4	110	26	30	32	38	8	2	-	-	13
Synchronized swimming	5	181	181	42	76	55	8	-	-	-	23
Skiing	15	270	109	125	60	32	15	16	9	13	49
Water skiing and wakeboarding	3	22	6	2	7	4	2	5	2	-	8
Diving	4	269	165	209	24	19	6	6	4	1	19
Softball	10	468	171	26	118	152	94	75	3	-	42
Sports for the deaf	14	98	21	1	9	31	28	23	4	2	18
Disabled sports	40	978	250	15	35	120	210	178	360	60	10
Sport recreation	16	30 000	...	...	...	...	...	...	...	...	34
Sport dance	6	134	69	59	37	20	8	3	4	3	19
Sport fishing	30	216	25	18	24	24	32	41	43	34	67
Sport climbing	5	855	455	59	38	298	299	131	20	10	22
Squash	3	38	10	2	16	13	7	-	-	-	11
Table tennis	13	380	98	223	93	49	7	3	3	2	39
Archery	7	347	112	58	49	43	49	72	40	36	27
Shooting sports	12	471	131	-	37	180	77	66	42	69	42
University sports	32	4 071	1 591	-	-	4 071	-	-	-	-	...
Chess	23	554	92	148	79	35	30	62	59	141	51
School sports ¹⁾	160	30 268	14 105	19 372	10 896	-	-	-	-	-	5
Taekwondo	34	2 486	1 050	1 773	415	209	30	35	13	11	102
Muay Thai	10	22	4	-	-	12	8	2	-	-	22
Tennis	38	604	192	86	257	154	66	36	5	-	120
Triathlon	6	401	124	98	42	48	81	89	36	7	30
Water polo	7	725	50	1	77	495	129	21	2	-	40
Rowing	7	439	89	44	267	111	13	3	-	1	33
Wushu	10	179	57	34	53	26	22	17	12	15	22
Air sports	13	174	20	-	1	4	42	55	37	35	51

¹⁾ School sports associations.

Source: Sports Association of the City of Zagreb

22.2 Number of medals won at international competitions¹⁾ from 2008 to 2016

	2008	2009	2010	2011	2012	2013	2014	2015	2016
Medal total	147	208	232	320	235	296	268	192	170
By classes of medals									
Gold	40	85	64	135	111	90	82	68	78
Silver	57	56	86	52	48	94	102	74	47
Bronze	50	67	82	133	76	112	84	50	45
By sex									
Male	99	118	124	168	112	152	139	91	105
Female	48	42	53	71	56	59	66	48	37
By categories									
Cadets	...	7	11	20	9	15	6	1	10
Female cadets	...	8	22	13	2	2	1	12	1
Juniors	...	29	32	63	42	62	44	33	18
Female juniors	...	5	8	18	15	33	16	10	7
Seniors	...	112	120	145	103	129	137	85	99
Female seniors	...	47	39	61	64	55	64	51	35

¹⁾ Medals won at all major competitions – Olympic Games, World Championship, European Championship, World and European Cups, World Leagues, Youth OG, Mediterranean Games, World and European Club Championships and Cups have been included.

Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

22.3 Categorisation of sports venues owned by the City of Zagreb

Status on 31 December 2016

Types of sports venues	Total	Categories				
		I	II	III	IV	V
Sports venues – total	160	16	19	34	53	38
Sports centres	47	5	5	13	13	11
Hockey	1	-	-	1	-	-
Basketball	2	1	-	-	1	-
Football	1	-	1	-	-	-
Sports and recreation	36	3	4	8	11	10
School	2	-	-	-	1	1
Tennis	5	1	-	4	-	-
Sports fields	47	-	-	12	14	21
Football	36	-	-	11	14	11
Baseball	1	-	-	1	-	-
Playgrounds and parks for children	2	-	-	-	-	2
Basketball	1	-	-	-	-	1
Beach volleyball	1	-	-	-	-	1
Handball	5	-	-	-	-	5
Tennis	1	-	-	-	-	1
Sports halls and arenas	24	2	7	6	9	-
Gymnastics hall	1	-	1	-	-	-
Sports halls	12	-	2	2	8	-
School sports halls	4	-	4	-	-	-
Sports arenas	7	2	-	4	1	-
Mountain huts	6	-	-	-	6	-
Other sports venues	36	9	7	3	11	6
Swimming pool complexes	2	2	-	-	-	-
Boules courts	2	-	-	1	1	-
Hippodromes	1	1	-	-	-	-
Bowling alleys	6	-	2	1	1	2
Football stadiums	6	2	4	-	-	-
Ski lifts and slopes	2	1	-	-	1	-
Sports areas	4	-	-	-	1	3
Airports for air sports	1	1	-	-	-	-
Sports parks	3	1	-	1	-	1
Shooting ranges	9	1	1	-	7	-

¹⁾ Categorisation of sports venues owned by the City of Zagreb was published in the Decision on Management and Use of Sports Venues Owned by the City of Zagreb, passed by the City Assembly (Official Gazette of the City of Zagreb 6/10, 12/10, 5/11, 15/11, 22/15, and 25/15).

Source: City Office for Education, Culture, and Sports

23

Judicial system



NOTES ON METHODOLOGY

Source and method of data collection

Data on perpetrators of criminal offenses and misdemeanours are taken over from the Croatian Bureau of Statistics, and data on courts and court staff are obtained from the Ministry of Justice.

Definitions and explanations

Crime, within the meaning of statistical surveys, means the procedure, starting from reporting a committed criminal offense, misdemeanour or an economic offense until adoption of the final decision by a competent authority. Observation units are perpetrators of criminal offenses, misdemeanours and economic offenses.

Perpetrators of criminal offenses are adult and juvenile offenders who acted as perpetrators, co-perpetrators, instigators or accomplices.

Perpetrators of misdemeanours are both adult and juvenile persons, as well as legal and responsible persons.

Adult perpetrators of criminal offenses are persons who reached 18 years of age at the time of committing the criminal offense, and against whom criminal proceedings (in accordance with the crime report) and interlocutory proceedings have been completed, as well as charged persons against whom criminal proceedings have been concluded based on a final decision.

Charged person is an adult person against whom an indictment, notice of motion or a private lawsuit is filed, and against whom criminal proceedings have been completed based on a final court decision, or proceedings have been terminated or the indictment has been dismissed, or the perpetrator is acquitted, or the perpetrator has been found guilty (convicted, but no penal sentence was pronounced, or convicted and criminal sanctions were imposed).

Convicted person is an adult person who was found guilty and on whom any of the following criminal sanctions were imposed: imprisonment, fines, educational measure, judicial admonition; or such person was convicted, but no penal sentence was pronounced.

Adult perpetrators of misdemeanours are persons who reached 18 years of age at the time of committing misdemeanour, and against whom misdemeanour proceedings were completed by virtue of a final decision according to which the request for initiation of misdemeanour proceedings was dismissed, the proceedings were terminated, injunctive measure was imposed with no sentence, or such a person was convicted.

Juvenile perpetrators of criminal offenses are persons who reached 14 years of age but not yet 18 at the time of committing the criminal offense, and against whom criminal proceedings were not initiated (rebuff), interlocutory proceedings were terminated or a motion was filed for imposing sanctions, or against whom criminal proceedings were completed by virtue of a final decision terminating the proceedings or imposing sanctions.

Data on criminal offenses are shown according to sections of the Criminal Code, that is, by the titles of criminal offenses.

Juvenile perpetrators of misdemeanours are persons who reached 14 years of age but not yet 18 at the time of committing misdemeanour, and against whom misdemeanour proceedings have been concluded by virtue of a final decision according to which the proceedings were terminated, protective measure was imposed with no educational measure or sanction, or the person was convicted.

Charged juvenile person is a juvenile perpetrator against whom legal proceedings through a senate have been concluded by virtue of final decision, according to which legal proceedings have been terminated through a senate or a criminal sanction has been imposed (juvenile imprisonment or educational measures).

Convicted juvenile person is a juvenile perpetrator of criminal offense against whom juvenile imprisonment or education measure has been pronounced (reprimand, special obligations, placement in a centre for disciplinary measure, increased care and supervision, increased care and supervision with daily stay in a correctional institution, placement in a correctional institution, placement in a rehabilitation centre or placement in a specialised correctional institution).

Criminal offense – Principle of Legality, Article 2 of the Criminal Code:

- 1) Criminal offenses and sanctions may be stipulated only by law.
- 2) No one shall be punished or subjected to other criminal sanctions for an offense which, at the time it was committed, did not constitute a criminal offense under the law or international law and for which the law did not prescribe the type and range of punishment.

23.1 Courts and judges

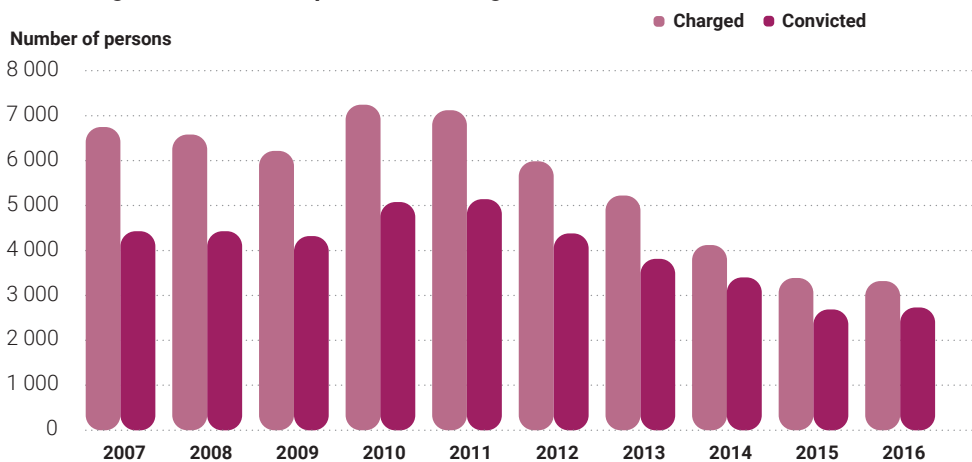
		2012	2013	2014	2015	2016
Total	Total	478	478	472	494	481
	Women	383	381	376	389	381
County Court in Zagreb	Total	107	106	101	99	102
	Women	80	79	77	77	78
Municipal Civil Court in Zagreb	Total	136	135	132	124	120
	Women	113	112	109	102	101
Municipal Criminal Court in Zagreb	Total	40	40	40	40	37
	Women	28	28	28	28	27
Municipal Labour Court in Zagreb	Total	23	24	26	24	22
	Women	19	19	21	20	18
Municipal Court in Sesvete ¹⁾	Total	14	16	16	-	-
	Women	11	13	13	-	-
Municipal Court in Novi Zagreb ²⁾	Total	-	-	-	43	40
	Women	-	-	-	30	28
Misdemeanour Court in Zagreb	Total	84	81	81	78	73
	Women	74	72	71	72	68
Misdemeanour Court in Sesvete ¹⁾	Total	5	5	5	-	-
	Women	5	5	5	-	-
Misdemeanour Court in Novi Zagreb ²⁾	Total	-	-	-	17	17
	Women	-	-	-	9	9
Commercial Court in Zagreb	Total	56	58	58	56	53
	Women	44	44	43	42	39
Administrative Court in Zagreb	Total	13	13	13	13	17
	Women	9	9	9	9	13

¹⁾ Court no longer exists.

²⁾ New court.

Source: Ministry of Justice of the Republic of Croatia

G 23.1 Charged and convicted persons of full age



23.2 Charged and convicted persons of full age by criminal offences

Criminal offences	2015		2016	
	Charged	Convicted	Charged	Convicted
Total	3 388	2 688	3 320	2 735
Offences against life and limb	171	143	209	178
Murders	18	13	13	10
Aggravated murders	5	4	8	7
Bodily injury	58	49	60	47
Aggravated bodily injury	78	67	116	104
Especially aggravated bodily injury	8	7	4	4
Other criminal offences	4	3	8	6
Against personal freedom	275	215	313	239
Unlawful deprivation of freedom	5	4	-	-
Threats	255	197	285	220
Other criminal offences	15	14	28	19
Against honour and reputation	80	23	64	16
Insult	18	8	19	5
Defamation	6	-	4	1
Slander and libel	56	15	41	10
Against sexual freedom	42	34	33	27
Rape	14	12	6	6
Lewd acts	12	7	12	10
Other criminal offences	16	15	15	11
Against sexual maltreatment and sexual exploitation of children	23	17	19	18
Sexual abuse of a child younger than fifteen years	13	11	11	11
Other criminal offences	10	6	8	7
Against marriage, family, and youth	250	200	247	225
Failure to provide maintenance	182	141	191	172
Violation of children's rights	53	47	49	47
Other criminal offences	15	12	7	6
Against people's health	116	101	141	122
Illicit drug production and trafficking	100	91	130	113
Enabling drug abuse	9	8	8	8
Other criminal offences	7	2	3	1

23.2 Charged and convicted persons of full age by criminal offences

(Continued)

Criminal offences	2015		2016	
	Charged	Convicted	Charged	Convicted
Against Public Safety	28	22	26	22
Endangering Life and Property by Dangerous Public Acts or Means	24	19	22	18
Dangerous execution of construction works	3	2	4	4
Other criminal offences	1	1	-	-
Against safety in traffic	209	197	204	196
Reckless driving	1	1	1	1
Endangering Road Traffic	208	196	202	194
Other criminal offences	-	-	1	1
Against property	1 193	953	1 245	1 060
Theft	347	310	413	375
Aggravated theft	279	244	290	259
Robbery	92	76	82	71
Aggravated robbery	20	19	14	13
Larceny	32	22	38	18
Embezzlement	52	43	60	53
Unauthorised use of movable property	5	4	11	10
Malicious Mischief	62	45	61	52
Fraud	232	151	208	155
Extortion	29	14	21	15
Concealing	13	8	12	12
Other criminal offences	30	17	35	27
Against the economy	252	187	209	125
Abuse of trust in economic business operations	104	72	87	44
Fraud in economic business operations	82	57	60	29
Embezzlement of taxes or custom	36	31	21	17
Avoiding customs control	1	1	5	4
Illicit trade	18	17	21	21
Other criminal offences	11	9	15	10
Against computer systems, programmes, and data	31	27	37	35
Unauthorized access	-	-	1	1
Computer fraud	29	25	34	32
Other criminal offences	2	2	2	2

23.2 Charged and convicted persons of full age by criminal offences

(Continued)

Criminal offences	2015		2016	
	Charged	Convicted	Charged	Convicted
Against Counterfeiting	262	240	249	225
Forgery of a document	238	220	212	196
Forgery of an official or business document	8	5	17	13
Certification of untrue content	3	3	6	3
Other criminal offences	13	12	14	13
Against Intellectual Property	11	7	3	2
Illicit use of an author's work or an artistic performance	4	4	1	-
Other criminal offences	7	3	2	2
Against official duty	183	107	100	63
Abuse of office and official authority	111	38	70	34
Accepting a bribe	50	49	8	7
Offering a bribe	17	17	20	20
Trading in influence	1	1	1	1
Offering a bribe for trading in influence	2	2	1	1
Other criminal offences	2	-	-	-
Against the judiciary	40	24	35	31
False report of a criminal offence	14	12	14	14
Making a false statement	15	9	17	14
Failure to fulfil court decision	-	-	1	1
Other criminal offences	11	3	3	2
Against public order	185	165	145	125
Coercion against an official person	38	37	20	16
Attacking an official	9	7	14	13
Removal and damage of an official seal or a mark	5	5	7	7
Illegal debt collection	18	11	13	9
Illegal entry, movement and stay in the Republic of Croatia	15	13	27	25
Illicit production, possession, or acquisition of weapons and explosive substances	83	76	51	43
Other criminal offences	17	16	13	12
Other criminal offences	37	26	41	26

¹⁾ On 1 January 2013, the new Criminal Code entered into force (Official Gazette 125/11 and 144/12.). The new Code established a new catalogue of criminal offences.

Source: CBS

23.3 Charged and convicted persons of full age by courts¹⁾

Court seat	Charged					Convicted				
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016
City of Zagreb – total²⁾	5 985	5 221	4 121	3 388	3 320	4 382	3 816	3 402	2 688	2 735
County courts:										
Zagreb	637	569	791	400	301	540	493	701	318	250
Municipal courts:										
Zagreb	4 065	3 777	2 655	2 713	2 634	2 902	2 663	2 120	2 127	2 167
Sesvete	556	373	291	-	-	425	280	243	-	-
Krapina	-	-	-	-	-	-	-	-	-	-
Zabok	-	-	-	-	-	-	-	-	-	-
Zlatar	727	502	384	275	385	515	380	338	243	318

¹⁾ Starting from the year 2015 as a reference point, the data is presented according to the territorial division and competence of the courts, regulated by the new Act on Areas and Court Seats (Official Gazette 128/14).

²⁾ Act on Areas and Court Seats (Official Gazette 128/14) regulates the competence of the newly established Municipal Court in Novi Zagreb, the court competent for the following municipalities: Bistra, Brdovec, Dubravica, Jakovlje, Klinča Sela, Luka, Marija Gorica, Pisarovina, Pušća, Stupnik and Žumberak; the following cities: Jastrebarsko, Samobor, Sveta Nedelja and Zaprešić; and the following city districts of the City of Zagreb: Brezovica, Novi Zagreb – west and Novi Zagreb – east. Unfortunately, since it is not possible to obtain data exclusively for those municipalities that belong to the City of Zagreb, the data for that court has been omitted.

Source: CBS

23.4 Convicted persons of full age by courts and groups of criminal offences in 2016¹⁾²⁾

	Total	Zagreb County Court	Municipal Criminal Court in Zagreb	Municipal Court in Zlatar ²⁾
TOTAL	2 735	250	2 167	318
Against humanity and human dignity	2	1	1	-
Against life and limb	178	23	113	42
Against labour relations and social insurance	15	-	13	2
Against personal freedom	239	1	191	47
Against privacy	4	-	2	2
Against honour and reputation	16	-	16	-
Against sexual freedom	27	11	15	1
Against sexual maltreatment and sexual exploitation of children	18	2	16	-
Against marriage, family, and children	225	-	225	-
Against people's health	122	18	96	8
Against the environment	2	-	2	-
Against the public safety	22	1	21	-
Against safety in traffic	196	-	161	35
Against property	1 060	60	899	101
Against economy	125	36	81	8
Against computer systems, programmes, and data	35	-	31	4
Against counterfeiting	225	5	186	34
Against intellectual property	2	1	1	-

23.4 Convicted persons of full age by courts and groups of criminal offences in 2016¹⁾²⁾

(Continued)

	Total	Zagreb County Court	Municipal Criminal Court in Zagreb	Municipal Court in Zlatar ²⁾
Against official duty	63	56	7	-
Against the judiciary	31	-	26	5
Against public order	125	35	61	29
Other criminal offences before 2012	0	-	-	-
Secondary criminal legislation (not within the scope of the Criminal Court)	3	-	3	-

¹⁾ Starting from the year 2015 as a reference point, the data is presented according to the territorial division and competence of the courts, regulated by the new Act on Areas and Court Seats (Official Gazette 128/14).

²⁾ Act on Areas and Court Seats (Official Gazette 128/14) regulates the competence of the newly established Municipal Court in Novi Zagreb, the court competent for the following municipalities: Bistra, Brdovec, Dubravica, Jakovlje, Klinča Sela, Luka, Marija Gorica, Pisarovina, Pušća, Stupnik and Žumberak; the following cities: Jastrebarsko, Samobor, Sveta Nedelja and Zaprešić; and the following city districts of the City of Zagreb: Brezovica, Novi Zagreb – west and Novi Zagreb – east. Unfortunately, since it is not possible to obtain data exclusively for those municipalities that belong to the City of Zagreb, the data for that court has been omitted.

Source: CBS

23.5 Convicted persons of full age by pronounced penalties

Sanctions imposed	2012	2013	2014	2015	2016
Total	4 383	3 817	3 402	2 688	2 735
Imprisonment – non-suspended	1 018	983	1 110	617	556
Long-term imprisonment	1	4	1	1	3
15 – 20 years	-	-	2	3	1
10 – 15 years	5	5	1	-	3
5 – 10 years	28	16	26	11	10
2 – 5 years	154	144	119	70	66
1 – 2 years	240	233	193	133	82
6 – 12 months	294	381	515	326	320
up to 6 months	296	200	253	73	71
Imprisonment – suspended	3 134	2 698	2 189	1 961	2 092
Fine					
Non-suspended	129	65	42	29	18
Suspended	11	3	3	20	16
Convicted persons, but no penal sentence	5	4	5	2	2
Judicial admonition	32	19	3	1	3
Educational measures	25	22	25	35	25
Juvenile prison, suspended juvenile imprisonment, and suspended juvenile imprisonment with pronounced educational measure	29	23	25	23	23

Source: CBS

23.6 Juvenile perpetrators of criminal offenses by groups of criminal offenses, types of decisions, and pronounced penalties in 2016

	Total	Criminal offences		
		Against life and limb	Against property	Other
TOTAL	61	5	49	7
Type of decision				
Proceedings terminated	11	-	7	4
Pronounced penalties	50	5	42	3
Type of pronounced penalty	50	5	42	3
Educational measures ¹⁾	46	5	39	2
Warnings	8	-	7	1
Measures of increased supervision	27	4	22	1
Correctional institution measure	11	1	10	-
Juvenile imprisonment	-	-	-	-
Suspended juvenile imprisonment	4	-	3	1

¹⁾ With the entry into force of the new Juvenile Courts Act (Official Gazette 84/11 and 143/12), the implementation of previous educational measure of assignment to a correctional institution ceased. Since then, the new educational measure of assignment to a juvenile disciplinary centre has been implemented, which is pronounced together with measures of increased surveillance.

Source: CBS

23.7 Adult and juvenile perpetrators of criminal offences by type of criminal offence, procedure, and decision in 2016¹⁾²⁾³⁾

	2012	2013	2014	2015	2016
Adult perpetrators – total	39 241	47 395	52 053	27 701	28 378
Type of offences from the area of					
- Public order and peace	6 259	7 396	9 148	5 982	5 647
- Safety in road traffic	26 993	33 360	33 320	14 459	14 775
- Public safety	656	990	1 005	565	526
- Economy	2 348	2 406	4 177	3 096	4 332
- Finance	2 528	2 687	3 393	3 086	2 735
- Labour relations and safety at work	169	249	503	186	63
- Education, science, culture, and information	20	18	15	5	11
- Health care and social welfare, health insurance, and the protection of the human environment	267	285	490	321	288
- Administration	1	4	2	1	1
Type of decision					
Convicted	29 219	34 484	36 939	21 573	21 999
Rebuff	204	258	426	151	25
Proceedings terminated	1 207	889	738	648	804
Judgement of acquittal	7 393	9 144	10 505	4 358	4 351
Judgement rejecting charges	1 217	2 616	3 445	971	1 199
Mentally incompetent persons	1	4	-	-	-
Juvenile perpetrators – total	748	735	629	381	345
Type of offences from the area of					
- Public order and peace	397	485	415	203	194
- Safety in road traffic	280	166	126	120	83
- Public security	63	78	83	40	26
- Economy	4	5	3	18	41

23.7 Adult and juvenile perpetrators of criminal offences by type of criminal offence, procedure, and decision in 2016¹⁾²⁾³⁾

(Continued)

	2012	2013	2014	2015	2016
- Finance	4	1	2	-	1
- Employment and occupational safety	-	-	-	-	-
- Education, science, culture and information	-	-	-	-	-
- Health care and social welfare, health insurance, and the protection of the human environment	-	-	-	-	-
- Administration	-	-	-	-	-
Type of decision					
Convicted	7	12	5	4	6
Rebuff	1	2	-	-	-
Proceedings terminated	186	174	116	42	32
Applied educational and/or protective orders	554	547	508	335	307

¹⁾ Starting from 2015, the data referring to the Tax Administration is presented in accordance with the Act on Amendments to the Tax Administration Act (Official Gazette, no. 141/14) and in accordance with the Regulation on Amendments to the Regulation on the Internal Organization of the Ministry of Finance.

²⁾ Starting from the year 2015 as a reference point, the data is presented according to the territorial division and competence of the courts, regulated by the new Act on Areas and Court Seats (Official Gazette 128/14).

³⁾ Act on Areas and Court Seats (Official Gazette 128/14) regulates the competence of the newly established Municipal Court in Novi Zagreb, the court competent for the following municipalities: Bistra, Brdovec, Dubravica, Jakovlje, Klinča Sela, Luka, Marija Gorica, Pisarovina, Pušća, Stupnik and Žumberak; the following cities: Jastrebarsko, Samobor, Sveta Nedelja and Zaprešić; and the following city districts of the City of Zagreb: Brezovica, Novi Zagreb – west and Novi Zagreb – east. Unfortunately, since it is not possible to obtain data exclusively for those municipalities that belong to the City of Zagreb, the data for that court has been omitted.

Source: CBS

23.8 Perpetrators of offences by pronounced penalties¹⁾²⁾³⁾

	2012	2013	2014	2015	2016
Adult perpetrators – total	29 219	34 484	36 939	21 573	21 999
Imprisonment	2 621	2 260	2 213	1 830	1 714
Fine	17 888	23 059	26 942	16 388	15 426
Admonition	7 961	8 420	6 670	2 725	4 083
Found guilty, but no penal sentence	749	745	1 114	630	776
Protective orders (with penalty)	3 039	3 955	2 580	2 066	2 408
Juvenile perpetrators – total	7	12	5	4	6
Juvenile imprisonment	5	7	1	1	1
of which suspended imprisonment	3	6	1	1	1
Fine	2	5	4	3	5
Educational measures					
Judicial admonition	547	384	315	246	219
Special obligations	139	159	180	73	82
Assignment to a correctional institution	11	1	13	16	2
Protective measures	110	159	35	37	30

¹⁾ Starting from 2015, the data referring to the Tax Administration is presented in accordance with the Act on Amendments to the Tax Administration Act (Official Gazette, no. 141/14) and in accordance with the Regulation on Amendments to the Regulation on the Internal Organization of the Ministry of Finance.

²⁾ Starting from the year 2015 as a reference point, the data is presented according to the territorial division and competence of the courts, regulated by the new Act on Areas and Court Seats (Official Gazette 128/14).

³⁾ Act on Areas and Court Seats (Official Gazette 128/14) regulates the competence of the newly established Municipal Court in Novi Zagreb, the court competent for the following municipalities: Bistra, Brdovec, Dubravica, Jakovlje, Klinča Sela, Luka, Marija Gorica, Pisarovina, Pušća, Stupnik and Žumberak; the following cities: Jastrebarsko, Samobor, Sveta Nedelja and Zaprešić; and the following city districts of the City of Zagreb: Brezovica, Novi Zagreb – west and Novi Zagreb – east. Unfortunately, since it is not possible to obtain data exclusively for those municipalities that belong to the City of Zagreb, the data for that court has been omitted.

Source: CBS

24

Business entities



NOTES ON METHODOLOGY

Data sources

Data on the number of business entities in the City of Zagreb were taken from the Croatian Bureau of Statistics and the Financial Agency (Fina) - Central Office in Zagreb.

Pursuant to the Accounting Act (Official Gazette 78/15, 134/15 and 120/16), business entities are classified as micro, small, medium-sized and large enterprises, depending on the indicators determined on the last day of the business year preceding the business year for which the financial statements are prepared.

Definitions and explanations

Business entities are legal and natural persons that perform activities in accordance with legal regulations, public authorities (state administration bodies, other state bodies, local and regional self-government units, legal persons and other bodies with public authorities, legal persons whose founder is the Republic of Croatia or a local and regional self-government unit, legal persons performing public service, legal persons who are partially or entirely funded from the state budget or from the budget of local or regional self-government units (i.e. public funds, such as taxes, provisions, etc.), as well as companies in which the Republic of Croatia and units of local and regional self-government hold individual or joint majority ownership).

Registered legal entities (business entities)

are entities entered in the Register, specifically companies, institutions, co-operatives, associations, political parties, state government bodies and other uncoordinated units that have had the status of legal person under the previously valid regulations.

Active legal entities (business entities) are legal entities entered in the Register, whose activity status is determined based on eSPRI data.

Natural persons are units that carry out activities in accordance with legal regulations. This pertains to crafts and freelancing activities.

Legal form is a characteristic of entities entered in the Register, based on which they are classified as joint stock companies, limited liability companies, simple limited liability companies, co-operatives, institutions, associations, state government bodies and bodies of local and regional self-government units and other legal forms. The legal form of entities entered in the Register is defined by virtue of decision of the competent registration body or by virtue of an act on establishment, based on which the entities are entered in the Register.

Form of ownership is a characteristic of entities entered in the Register that represents the ownership structure of an entity. It pertains to ownership of funds, i.e. the share capital of business entities.

The indicators based on which business entities are classified (micro, small, medium-sized and large) are total assets, income and average number of employees during a business year.

24.1 Business entities by legal organisational forms and activities

Status as of 31 December

	Business entities									
	Registered					Active				
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016
Legal persons – total	95 649	90 638	95 741	100 481	80 685	46 585	51 812	56 926	61 670	46 563
Companies – total	57 491	51 521	55 933	60 135	64 581	40 801	45 058	49 469	53 669	39 867
Simple limited liability company	523	2 891	5 213	7 246	9 394	381	2 885	5 205	7 242	6 682
Limited liability company	56 054	47 612	49 681	51 815	54 084	39 663	41 331	43 400	45 526	32 460
Other forms	914	1 018	1 039	1 074	1 103	757	842	864	901	725
Companies ¹⁾ and co-operatives ²⁾ – total	23 973	23 976	23 981	23 984	507	209	216	224	231	98
Private companies	3 014	3 012	3 012	3 012	-	4	4	4	4	-
Limited liability companies	20 172	20 162	20 160	20 155	-	63	55	55	53	-
Cooperatives	466	481	488	496	507	140	155	163	172	98
Other forms	321	321	321	321	-	2	2	2	2	-
Institutions, bodies, associations, funds and organizations	14 185	15 141	15 827	16 362	15 597	5 575	6 538	7 233	7 770	6 598
Entities in crafts and freelance activities	16 503	15 780	15 219	14 623	14 316	...	...	...	...	...

¹⁾ Data refers to legal entities that still do not comply with the Companies Act.

²⁾ Data refers to legal entities registered according to the Act on Cooperatives, legal entities that still do not comply with the Act on Cooperatives, credit unions and housing cooperatives.

Source: CBS

24.2 Active legal entities by forms of ownership

Status as of 31 December

	Business entities									
	Registered					Active				
	2012	2013	2014	2015	2016	2012	2013	2014	2015	2016
Total	46 585	51 812	56 926	61 670	46 563	100 0	100 0	100 0	100 0	100 0
Forms of ownership										
State-owned	200	210	222	228	199	0 4	0 4	0 4	0 4	0 4
Private	40 250	44 492	48 916	53 141	39 436	86 4	85 9	85 9	86 2	84 7
Cooperative	140	155	163	172	97	0 3	0 3	0 3	0 3	0 2
Mixed	420	419	423	423	310	0 9	0 8	0 7	0 7	0 7
No ownership	5 575	6 536	7 202	7 706	6 521	12 0	12 6	12 7	12 4	14 0

Source: CBS

24.3 Business entities by NCA sections and activities

Status as of 31 December

		Legal entities		
		Registered	Active	Share of active entities in the total number of registered entities in %
2012		95 649	46 585	48.7
2013		90 638	51 812	57.2
2014		95 741	56 926	59.5
2015		100 481	61 670	61.4
2016 – Total		80 685	46 563	57.7
Legal entities by NCA 2007 sections				
A	Agriculture, forestry and fishing	585	320	54.7
B	Mining and quarrying	59	33	55.9
C	Manufacturing	5 408	3 546	65.6
D	Electricity, gas, steam and air conditioning supply	393	188	47.8
E	Water supply; sewerage, waste management, and remediation activities	239	133	55.6
F	Construction	6 551	3 517	53.7
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	19 366	10 685	55.2
H	Transportation and storage	1 828	1 116	61.1
I	Accommodation and food service activities	4 494	2 541	56.5
J	Information and communication	4 638	3 219	69.4
K	Financial and insurance activities	1 035	512	49.5
L	Real estate activities	2 312	1 401	60.6
M	Professional, scientific and technical activities	12 200	8 599	70.5
N	Administrative and support service activities	2 628	1 734	66.0
O	Public administration and defence; compulsory social security	197	137	69.5
P	Education	1 128	888	78.7
Q	Health and social work activities	1 205	777	64.5
R	Arts, entertainment and recreation	4 353	1 990	45.7
S	Other service activities	12 032	5 227	43.4
T	Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	-	-	-
U	Activities of extraterritorial organisations and bodies	34	-	-

Source: CBS

24.4 Business entities by NCA 2007 sections and by size¹⁾

Status as of 31 December 2016

		Business entities				
		Total	Micro	Small	Medium	Large
Total		38 023	34 018	3 355	495	155
A	Agriculture, forestry and fishing	332	300	24	7	1
B	Mining and quarrying	35	24	6	2	3
C	Manufacturing	3 301	2 743	443	89	26
D	Electricity, gas, steam and air conditioning supply	229	188	20	11	10
E	Water supply; sewerage, waste management and remediation activities	116	92	15	6	3
F	Construction	3 306	2 978	283	29	16
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	9 849	8 402	1 204	195	48
H	Transportation and storage	997	866	104	17	10
I	Accommodation and food service activities	2 123	1 961	148	12	2
J	Information and communication	3 049	2 738	259	37	15
K	Financial and insurance activities	218	188	14	7	9
L	Real estate activities	1 490	1 329	146	13	2
M	Professional, scientific and technical activities	8 570	8 082	443	39	6
N	Administrative and support service activities	1 582	1 461	106	14	1
O	Public administration and defence; compulsory social security	26	23	3	-	-
P	Education	541	514	27	-	-
Q	Health and social work activities	524	475	44	4	1
R	Arts, entertainment and recreation	466	424	32	8	2
S	Other service activities	1 269	1 230	34	5	-
T	Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	-	-	-	-	-
U	Activities of extraterritorial organisations and bodies	-	-	-	-	-
	Natural persons without activity	104	101	3	-	-

¹⁾ See Notes on Methodology.

Source: Fina

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- Adamovec Aqua Park
- Meteorological and Hydrological Service
- Croatian Bureau of Statistics
- Faculty of Pharmacy and Biochemistry, University of Zagreb
- Financial Agency
- City of Zagreb, ZG Cycle Unit
- City Assembly of the City of Zagreb
- City Office for Energy, Environment and Sustainable Development
- City Office for Cadastre and Surveying Activities
- City Office for Education, Culture and Sport
- City Office for Agriculture and Forestry
- City Office for Physical Planning, Construction of the City, Utility Services and Transport
- City Office for Social Welfare and Persons with Disabilities
- Croatian Agency for Environment and Nature
- Croatian Regulatory Authority for Network Industries
- HEP – Distribution System Operator Ltd. (HEP – Operator distribucijskog sustava d.o.o.), Elektra Zagreb
- HEP Generation Ltd. (HEP – Proizvodnja d.o.o.)
- HEP – District Heating Ltd. (HEP – Toplinarstvo d.o.o.)
- Croatian Agricultural Agency
- Croatian Post (Hrvatska pošta d.d.)
- Croatian Radio and Television (Hrvatska radiotelevizija)
- Croatian Forest Management Company (Hrvatske šume d.o.o.), Forest Administration, Office Branch in Zagreb
- Croatian Water Management Company (Hrvatske Vode) – Water Management Department for Upper Sava
- Croatian Institute of Public Health
- Croatian Institute for Pension Insurance
- Croatian Employment Service – Regional Office Zagreb
- Croatian Institute for Health Insurance – Directorate of Zagreb
- Croatian Railways Ltd. (Hrvatske željeznice d.o.o.) – Passenger Transport
- Institute for Medical Research and Occupational Health
- Public Fire Department of the City of Zagreb
- Lado – National Folk Dance Ensemble of Croatia
- Franjo Tuđman Zagreb International Airport
- Ministry of Agriculture
- Ministry of Justice of the Republic of Croatia
- Ministry of the Interior of the Republic of Croatia
- Ministry of Environmental Protection and Energy
- Teaching Institute of Emergency Medicine of the City of Zagreb
- Andrija Štampar Teaching Institute of Public Health
- Doctor Drago Čop Polyclinic for Rheumatic Diseases, Physical Medicine and Rehabilitation
- Faculty of Science, University of Zagreb
- Sports Association of the City of Zagreb
- Faculty of Forestry, University of Zagreb
- Sports Facilities Management Institution
- Zoo of the City of Zagreb
- Zagreb Holding – subsidiary City Cemeteries (Gradska groblja)
- Zagreb Holding – subsidiary Zagreb City Gasworks (Gradska plinara Zagreb)
- Zagreb Holding – subsidiary Zagreb Markets (Tržnice Zagreb)
- Zagreb Holding – subsidiary Water Supply and Drainage (Vodoopskrba i odvodnja)
- Zagreb Holding – subsidiary Zagreb Electric Tram (Zagrebački električni tramvaj)
- Zagreb Holding – subsidiary Zagreb Fair (Zagrebački velesajam)
- Zagreb Holding – subsidiary Zrinjevac
- Zagreb Wastewater Ltd. (Zagrebačke otpadne vode d.o.o.)

