

**STATISTICAL
YEARBOOK**
of the City of Zagreb

2018.



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

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**STATISTICAL YEARBOOK
OF THE CITY OF ZAGREB
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INTRODUCTION

The Statistical Yearbook provides the most comprehensive review of standardized and comparable data on social and economic developments in the City of Zagreb using sources such as statistical surveys based on the Programme of Statistical Activities of the Republic of Croatia, as well as various institutions which, as a part of their work, record and process statistically relevant data related to their areas of activity.

This Yearbook is being published at the end of 2018 and will have its greatest application in the course of 2019, when we will be marking the 90th anniversary of the city statistics of the City of Zagreb. Specifically, the City Department of Statistics was founded by the city prefect's circular (No.) 1547-Prs-1929 of 25 May 1929. From an administrative point of view, it was assigned to the City Hall Presidency and its task was to "systematically collect and process statistical data from all domains relating to the city administration and public life in general". Its work was aimed at providing a "well presented overview of the overall economic, financial, commercial, construction, social, health and general cultural situation and life in the City of Zagreb" in order to ensure a "solid foundation for resolving all issues concerning the improvement and modern development of the city municipality in every respect".

Themes that stimulated the foundation of the city statistics 90 years ago are of topical interest even today, which can be seen in the contemporary vision of the Department of Statistics as a "central place of the City of Zagreb for the collection, processing and dissemination of statistical data for the needs of the city administration, economy, science, civil sector and citizens". The mission of the Department is "to provide users in the city administration and other users with quality, objective, timely, up-to-date and methodologically harmonized statistical data at the level of the City of Zagreb, local self-government and region".

An insight into the statistical data for the referent 2017 year reveals a number of positive trends in the City of Zagreb. There is a continuation in the trend of double-digit annual growth in the number of tourist arrivals (16%), and the Franjo Tuđman International Airport has for the first time exceeded the number of 3 million passengers which shows a boost in travelling dynamics. Positive movements have been noted in transport as well, in the development of the cycling infrastructure (5% longer traffic networks, 43% more parking racks), while an increase in the number of users of our funicular (6%) points to a revival of the

Upper Town. A good indicator of the recovery of the city economy is the number of issued building permits, which has continually grown in recent years (+ 16% compared to 2016) and reached its maximum amount since 2010. A very important development for our citizens is the growth of average net earnings by 6%, now reaching almost 7 000 kuna.

Compared to previous editions, the contents of this Yearbook have been expanded with a chapter about the city administrative bodies and trade companies in which we present data on administrative bodies, branch offices of the city administration, administrative organization of city districts, persons employed in administrative bodies of the City of Zagreb according to their level of professional education and sex, the budget of the City of Zagreb by revenues and expenditures, organizational forms and activities of trade companies as well as employees, and profit and loss account of the Zagreb Holding Group. There is also a new chapter on foreign direct investments, while certain chapters have been enhanced by adding new tables and graphs. The Yearbook has been given a new cover design along with new photographs.

I would like to sincerely thank all the employees of the Department of Statistics, associates from the city administration of the City of Zagreb and Zagreb Holding, 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, M. Arch.

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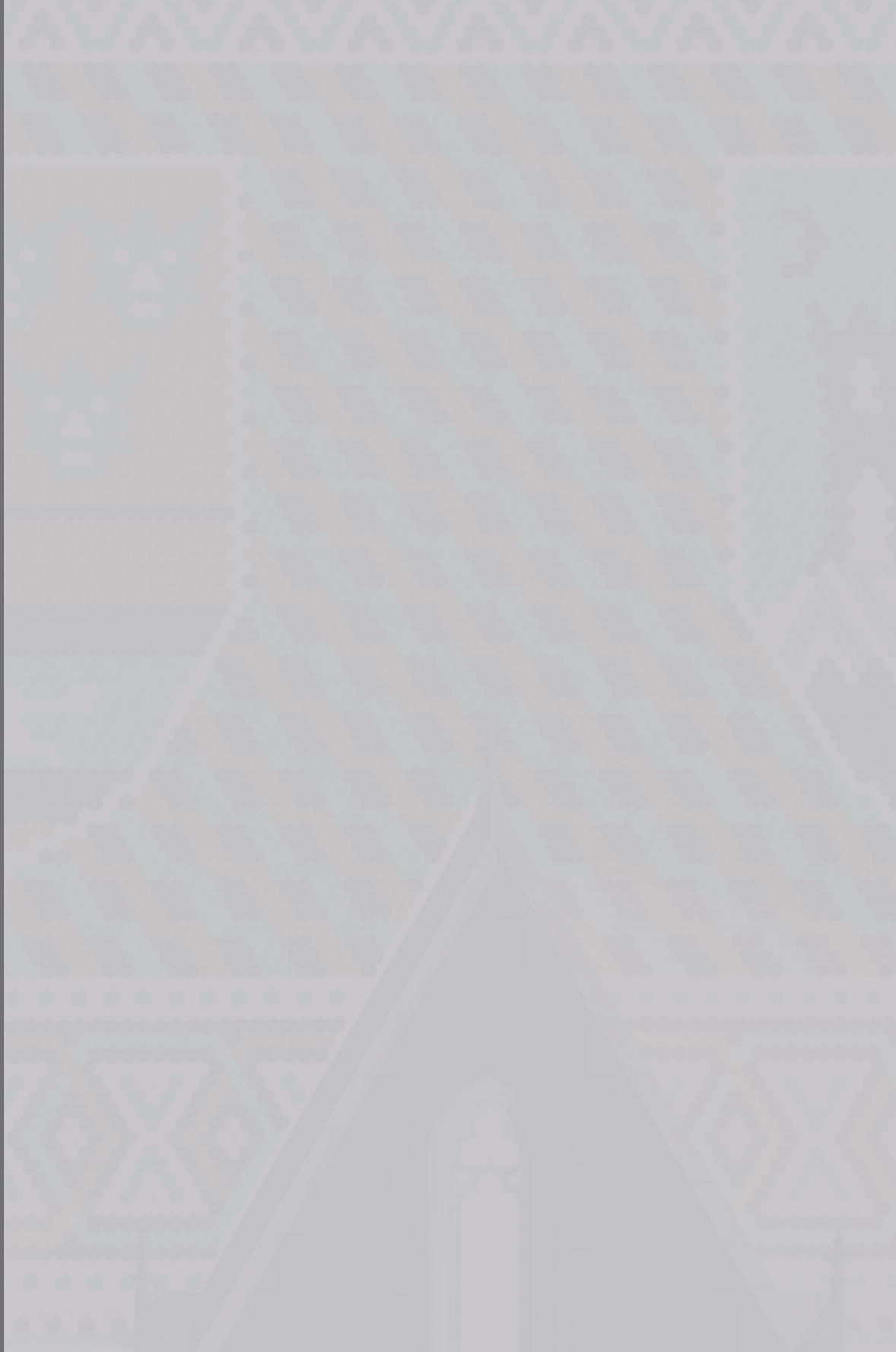
ABBREVIATIONS

ARKOD	Land Parcel Identification System (LPIS)	km.....	kilometre
Art.....	Article	km ²	square kilometre
		kWh	kilowatt hour
°C	degree Celsius	L/m ²	litres per square metre
CBS.....	Croatian Bureau of Statistics	°MCS	Mercalli-Cancani-Sieberg scale
CEFTA	Central European Free Trade Agreement	m.....	metre
cif.....	cost, insurance and freight	m ²	square metre
CPA.....	Classification of Products by Activity	m ³	cubic metre
		m ³ /s.....	cubic metres per second
DB.....	Decibel	mg/m ³	milligram per cubic metre
d. o. o.	limited liability company (Ltd.)	MD	medical doctor
DSL.....	Digital Subscriber Line	MG	Mediterranean Games
		mil.	million
EFTA.....	European Free Trade Association	mm.....	millimetre
e.g.....	for example	MSL	Mean Sea Level
EPR.....	Environmental Pollution Register	MZLZ	Zagreb International Airport
ESA.....	European System of National Accounts	MWh.....	megawatt hour
EU	European Union	NACE.....	Statistical Classification of Economic Activities in the European Community
Eurostat	Statistical Office of the European Communities	NCA	National Classification of Activities
EC	European Community	n.e.s.....	not else where specified
e.t.c.....	and so on (from Latin: et cetera)	ng/m ³	nanogram per cubic metre
		No.	number
Fina.....	Financial Agency	NP.....	nature park
fob	free on board		
		OG.....	Official Gazette
GK.....	Railway Station	OPEC	Organization of the Petroleum Exporting Countries
GUF.....	City Office for Financing		
GZ.....	City of Zagreb	pH	a measure of the acidity or alkalinity of a solution
GWh.....	gigawatt hours	RRiF.....	Accounting, revision and finances
h	hour	SITC.....	Standard International Trade Classification
ha	hectare	SMS.....	Short Message Service
HAKOM.....	Croatian Regulatory Authority for Network Industries	SNA	System of National Accounts
HEP.....	Croatian National Energy Company	SSG.....	Profesional service of the Mayor
HNB.....	Croatian National Bank		
HP	Croatian Post	t.....	ton
hPa	hectopascal	TT.....	telegraph and telephone
HPA.....	Croatian Agricultural Agency	TV	television
HRK.....	Croatian kuna		
HRT.....	Croatian Radio and Television	ZET	Zagreb Electric Tram
HT	Croatian Telecom	ZG	Zagreb
i.e.	that is		
JOPPD.....	Report on income, income tax and surtax, and contributions for mandatory insurance		

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
archbishop | 1837 – 1853
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 (viceroi) Rauch

MAYOR OF THE CITY OF ZAGREB

Mayor
Milan Bandić, MA (Political Science)

Deputy Mayors
Jelena Pavičić Vukičević, PhD
Olivera Majić, Assist. Prof.

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 MILIĆEVIĆ, M. Sc. – Vice-president

Krešimir KARTELO – Vice-president

1. Rada BORIĆ, M. Sc.
2. Dubravka BREZAK STAMAC, 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. Miljenka ČURKOVIĆ
9. Miodrag DEMO
10. Prof. Bruna ESIH
11. Vladimir FERDELJI, M. Sc. Mech. Eng.
12. Davor FILIPOVIĆ, Assist. Prof.
13. Zlatko HASANBEGOVIĆ, PhD
14. Mislav HERMAN, MD
15. Robert HIRC, M. Econ.
16. Kazimir ILIJAŠ, LLM
17. Svibor JANČIĆ, M. Pol.
18. Grgo JELINIĆ, M. Sc.
19. Tomislav JONJIĆ, PhD
20. Davorin KARAČIĆ, M. Jur.
21. Krešimir KARTELO
22. Darko KATUŠA
23. Darko KLASIĆ, M. Eng. Radiology
24. Stanko KORDIĆ, M. Pol.
25. Darinko KOSOR
26. Sonja KÖNIG, M. Pol.
27. Nenad MATIĆ, M. Sc.
28. Andrija MIKULIĆ, PhD
29. Jozo MILIĆEVIĆ, 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, LL. B.
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. Natalija PRICA OREŠKI, DMD
44. Prof. Gordana RUSAK, PhD
45. Prof. Ana STAVLJENIĆ-RUKAVINA, PhD
46. Tomislav STOJAK, M. Pol.
47. Marijana SUMPOR, PhD
48. Tomislav TOMAŠEVIĆ, M. Pol.

49. Radenko TOMIĆ, M. Eng.

50. Marko TORJANAC, MA

51. Milana VUKOVIĆ RUNJIĆ, M. Sc.

Mirjana LICHTNER KRISTIĆ, LL. B. – Secretary of the City Assembly of the City of Zagreb

¹⁾ Data with the status as of 20 September 2018.

Inactive City Assembly members and their deputies¹⁾

1. Milan Bandić, MA, Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Prof. Gordana Rusak, PhD, non-partisan (as of 10 July 2017)
2. Jelena Pavičić Vukičević, PhD, 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, Assist. Prof., 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)
13. Iva Kvakić, MSc, "FOR THE CITY" – substituted by Svibor Jančić, M.Pol. "FOR THE CITY" (as of 19 October 2017)
14. Mate Kapović, PhD, "Workers' Front" – substituted by Katarina Peović Vuković, Assist. Prof., "Workers' Front" (as of 25 January 2018)
As of 4 September 2018, Katarina Peović Vuković, Assist.Prof., mandate has been suspended for personal reasons
15. Ana Rucner, M.Mus., non-partisan – substituted by Natalija Prica Oreški, DMD (as of 4 May 2018)
16. Ana Lederer, PhD, "Bruna Esih – Zlatko Hasanbegović: Independents for Croatia" (as of 6 June 2018)
As of 6 June 2018, mandates have been suspended for the following City representatives: Domagoj Bešker, Marko Radoš, Dijana Machala and Rozalija Bartolić.
As of 6 June 2018, Davorin Karačić, M.Jur., "Bruna Esih – Zlatko Hasanbegović: Independents for Croatia", has taken the office of deputy City representative.
17. Sandra Švaljek, PhD, "Independent List of Sandra Švaljek" (as of 20 July 2018)
– substituted by Marijana Sumpor, PhD, "Independent List Zagreb" (as of 21 August 2018)
18. Katarina Peović Vuković, Assist.Prof., "Workers' Front" – substituted by Miljenka Ćurković, "Workers' Front" (as of 4 September 2018)

¹⁾ Data with the status as of 20 September 2018.

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	35	16
By level of education			
Higher education – total	40	26	14
of which:			
Doctors of Science	12	6	6
Masters of Science	7	3	4
Post-secondary education	3	2	1
Secondary education	8	7	1
Primary education	-	-	-
By age groups			
up to 29 years	-	-	-
from 30 to 39 years	3	3	-
from 40 to 49 years	20	15	5
from 50 to 59 years	20	13	7
60 years and more	8	4	4
By distribution of seats			
Bandić Milan 365 – Labour and Solidarity Party	9	5	4
Bruna Esih – Zlatko Hasanbegović: Independents for Croatia	5	4	1
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	-
Civic Liberal Alliance	3	1	2
Forward Croatia! – Progressive Alliance	1	1	-
People's Party – Reformists	1	1	-
Zagreb Independent List	2	1	1
New Left	1	-	1
Workers' Front	1	-	1
Social Democratic Party of Croatia	5	4	1
FOR THE CITY	1	1	-
Zagreb is Ours!	1	1	-
Green Leaf	1	1	-
Non-partisan	8	4	4

¹⁾ Data with the status as of 20 September 2018.

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 2017	
Highest temperature, ° C	+37.6
Lowest temperature, ° C	-10.2
Average air pressure, hPa	998.3
Total sunshine hours, h	2 276
Precipitation (annually), mm	888.5
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 2017 (estimate)	
Population	802 762

NATURAL CHANGE IN POPULATION IN 2017

		per thousand inhabitants
Births	8 076	10.1
Deaths	8 826	11.0
Natural increase/decrease	-750	-0.9
Vitality index (live births per 100 deaths)	91.5	
Marriages concluded	3 899	4.9
Divorces	1 298	1.6

MIGRATION OF POPULATION IN 2017

Net migration rate	1 003
Immigrants	13 758
Emigrants	12 755

EMPLOYMENT IN 2017

Employed persons – total, status as of 31 March	412 992
Persons employed in legal entities, status as of 31 March	383 469
Persons employed in crafts and freelance activities, status as of 31 March	29 008
Employed insured farmers, status as of 31 March	515

UNEMPLOYMENT IN 2017

Unemployed persons, status as of 31 March	28 389
Unemployment rate, %	6.4

EARNINGS IN 2017

Average monthly net earnings, in HRK	6 962
Average monthly gross earnings, in HRK	9 730
Nominal indices of net earnings	104.9
Nominal indices of gross earnings	103.0

PENSION INSURANCE IN 2017

Number of pension beneficiaries, status as of 31 December	195 059
Average monthly pension deducted by tax and surtax, HRK	3 066

HEALTH CARE IN 2017

Number of doctors of medicine	4 840
Of which specialists	3 403
Other health care workers	14 728
Health centres	4
Hospitals	17
Of which clinics	8
Specialised hospitals	9
Number of hospital beds	6 435
Number of patients in hospitals	261 779
Outpatient polyclinics (independent health care institutions)	167
Pharmacies	230

SOCIAL WELFARE IN 2017

Number of beneficiaries of social welfare and services of the City of Zagreb	
Allowance to pensioners	11 731
Entitlement to free transit pass by ZET	82 898
Soup kitchen beneficiaries	3 154
number of beneficiaries of paid baby bonuses	22 030
Governmental benefits for children	
Number of children's allowance beneficiaries	19 049
Paid children's allowance, thousands of HRK	180 082

GROSS DOMESTIC PRODUCT IN 2015

GDP, millions of HRK	113 199
GDP per capita, HRK	141 379

FOREIGN TRADE IN GOODS IN 2017

Export, thousands of HRK	33 283 999
Import, thousands of HRK	80 129 738
Balance of foreign trade, thousands of HRK	-46 845 739
Coverage of import by export, %	41.5

ENERGY, WATER SUPPLY, DRAINAGE IN 2017

Electricity consumption, thousands of GWh	2 755
Gas consumption, millions of kWh	3 502
Water consumption, thousands of m ³	55 335
Length of water supply pipeline, km	2 700

Number of water pipeline connections	85 496
Sewerage network length, km	2 115
Number of storm drains	55 400
Disposed waste, tonnes	217 381
Number of firefighting interventions	3 436

TRANSPORT AND COMMUNICATION IN 2017

Urban transport	
Tram – transported passengers, thousands	197 078
Bus – transported passengers, thousands	90 634
Number of taxis, status as of 31 September 2017	1 410
Number of registered motor vehicles	370 505
Of which	
Personal cars	308 125
Goods vehicles and work vehicles	35 402
Motorcycles	9 045
Length of cycle lanes in transport infrastructure	270
Air traffic – departing and arriving passengers	3 092
Post offices	74
Number of postmen	439

FAIRS IN 2017

Zagreb Fair	
Number of fairs	18
Number of exhibitors	1 999
Domestic	1 327
Foreign	672
Visitors, thousands	239

TOURISM IN 2017

Hotels	52
Beds	7 253
Hostels	45
Beds	2 286
Tourist arrivals	1 286 087
Foreign	1 082 222
Overnight stays	2 263 758
Foreign	1 901 153

EDUCATION IN 2017	
Kindergartens and other legal entities that implement pre-school programmes	335
Of which	
Kindergartens	319
Other legal entities	16
Number of children accommodated	40 573
Dormitories for secondary school students	15
Number of students in dormitories	2 358
Student dormitories	4
Number of students in dormitories	7 363
Primary schools – total, at the start of the school year 2017/2018	144
Number of students	59 756
Number of teachers	5 452
Secondary schools – total, at the start of the school year 2017/2018	108
Number of students	35 601
Number of teachers	4 630
Higher education institutions – total, at the start of the academic year 2017/2018	57
Students – total	73 873
Faculties	38
Enrolled students – total	59 782
Professional studies – students	5 177
University studies – students	54 605
Academies of Arts	3
Enrolled students	1 260
Post-secondary education institutions	13
Enrolled students – total	4 414
Polytechnics	3
Enrolled students – total	8 417
Students graduated from higher education institutions in 2017	15 779

CULTURE IN 2017	
Theatres	90
Plays	6 369
Seats	10 012
Visitors	1 237 664
Movie theatres	49
Seats	9 185
Visitors, in thousands	2 285
Museums in 2015	44
Collections in 2015	28
Museum and collection visitors	995 825
Zagreb Philharmonic Orchestra	
Concerts in Zagreb	42
Visitors in Zagreb	50 000
Professional orchestras, ensembles and choirs	32
ZOO – number of animals	8 687
Visitors	403 070
Of which children	182 928
at events	11 039
Botanical Garden of the Faculty of Science	
Surface area, m ²	47 000
Number of plant taxa	7 200
SPORTS IN 2017	
Sports associations	981
Types of sports	
Football	132
Bowling	33
Tennis	27
Handball	32
Basketball	30
Total number of active members	95 711

**IMMOVABLE CULTURAL GOODS IN 2017
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	48
Civil architecture	417
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 2017
REGISTERED IN THE CULTURAL OBJECTS
REGISTER OF THE REPUBLIC OF CROATIA**

List of Protected Cultural Heritage and List of Preventively Protected Heritage

Individual items	63
Collections	224
Intangible cultural goods	10

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

PROTECTED NATURAL AREAS IN 2017

Nature parks	1
Nature reserves	8
Protected landscape	3
Natural monument	1
Monuments of park architecture	18
Ecological Network Natura 2000	3

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 – 2018 (status as of 20 September 2018)	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

2009 – Mirjana Krizmanić, Prof., PhD
2010 – Maja Mamula, MSc.
2011 – Đurđica Krnjak
2012 – Ljubica Matijević-Vrsaljko, lawyer
2013 – Marija Sliško
2014 – Vernesa Smolčić, Assist. Prof., PhD
2015 – Lovorka Galetić, Prof., PhD
2016 – Sandra Perković
2017 – Janica Kostelić
2018 – Mirjana Bohanec Vidović

**"LUKA RITZ" AWARD – VIOLENCE IS NOT
COURAGE**

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
2018 – Tvrtko Šapina, pupil of Grigor Vitez Primary School Mislav Matijević, pupil of First Grammar 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
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
2018	17	14	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 and 10/18)

Winners of the City of Zagreb Award in 2018

1. Chief Physician Ismat Elabjer, MD
2. Music School Elly Bašić
3. Msgr Ivan Golub, PhD, Prof. emeritus
4. Vatroslav Kuliš, academic painter
5. Sonja Levanat, PhD, principal investigator at Ruđer Bošković Institute, tenured researcher
6. Ivica Lučić, PhD, senior scientific associate at the Croatian Institute of History, associate professor at the University Department of Croatian Studies, University of Zagreb and the Faculty of Humanities, University of Mostar
7. Josip Petrač, president of the Croatian Association of Societies of Disabled Workers
8. Andrea Pisac Freškura, PhD, anthropologist, writer, tourism promoter
9. Siniša Popović, actor
10. Jadranko Račić, member of Blood Donors Association
11. Stjepan Jimmy Stanić, music artist, vocal soloist
12. Marijan Turkulin, M. Arch
13. Herman Vukušić, M. Econ
14. Mario Zovak, surgery specialist
15. Women's Handball Club Lokomotiva Zagreb
16. Dino Sokolović
17. Working units of the company Vodoopskrba i odvodnja d. o. o. (Water Supply and Drainage) for interventions on water supply systems and drainage systems

CITIES WITH WHICH PARTNERSHIP AGREEMENTS HAVE BEEN SIGNED

- 1963 – Bologna, Republic of Italy
 1968 – Leipzig, Federal Republic of Germany
 1968 – Sankt-Petersburg, Russian Federation
 1970 – Mainz, Federal Republic of Germany
 1971 – Tromsø, Kingdom of Norway
 1972 – Kyoto, Republic of Japan
 1973 – Brno, Czech Republic
 1974 – Long Beach, California, USA
 1975 – Krakow, Republic of Poland
 1976 – Cluj-Napoca, Romania
 1977 – Lisbon, Portuguese Republic
 1980 – Pittsburgh, Pennsylvania, USA
 1980 – Split, Republic of Croatia
 1980 – Shanghai, People's Republic of China
 1983 – Birmingham, United Kingdom of Great Britain and Northern Ireland
 1983 – Jajce, Bosnia and Herzegovina
 1994 – Budapest, Hungary
 1995 – Beijing, People's Republic of China
 1998 – Buenos Aires, Argentine Republic
 2000 – Vienna, Republic of Austria
 2000 – Dayton, Ohio, USA
 2001 – Ljubljana, Republic of Slovenia
 2001 – Moscow, Russian Federation
 2001 – Sarajevo, Bosnia and Herzegovina
 2003 – Brussels, Kingdom of Belgium
 2004 – Central Federal District of the Russian Federation, Russian Federation
 2004 – Nicosia, Republic of Cyprus
 2004 – Tirana, Republic of Albania
 2005 – Ankara, Republic of Turkey
 2006 – Knin, Republic of Croatia
 2008 – Ludbreg, Republic of Croatia
 2008 – Milan, Republic of Italy
 2008 – Pécs, Hungary
 2009 – Nin, Republic of Croatia
 2009 – Opatija, Republic of Croatia
 2011 – Skopje, Macedonia, FYR
 2011 – Warsaw, Republic of Poland
 2012 – Berlin, Federal Republic of Germany
 2012 – Pristina, Republic of Kosovo
 2012 – Rome, Republic of Italy
 2012 – Sofia, Republic of Bulgaria
 2014 – Astana, Republic of Kazakhstan
 2014 – Chongqing Municipality, People's Republic of China
 2015 – Petrinja, Republic of Croatia
 2015 – Molise Region, Republic of Italy
 2015 – Sinj, Republic of Croatia
 2016 – Vukovar, Republic of Croatia
 2017 – Senj, Republic of Croatia
 2017 – Xiangyang, People's Republic of China

Source: Office of International Relations and Human Rights

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
Havidić 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

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
Ježdovec	7.71	1 728	835	893	487	413	612	572
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
Šašinovec	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

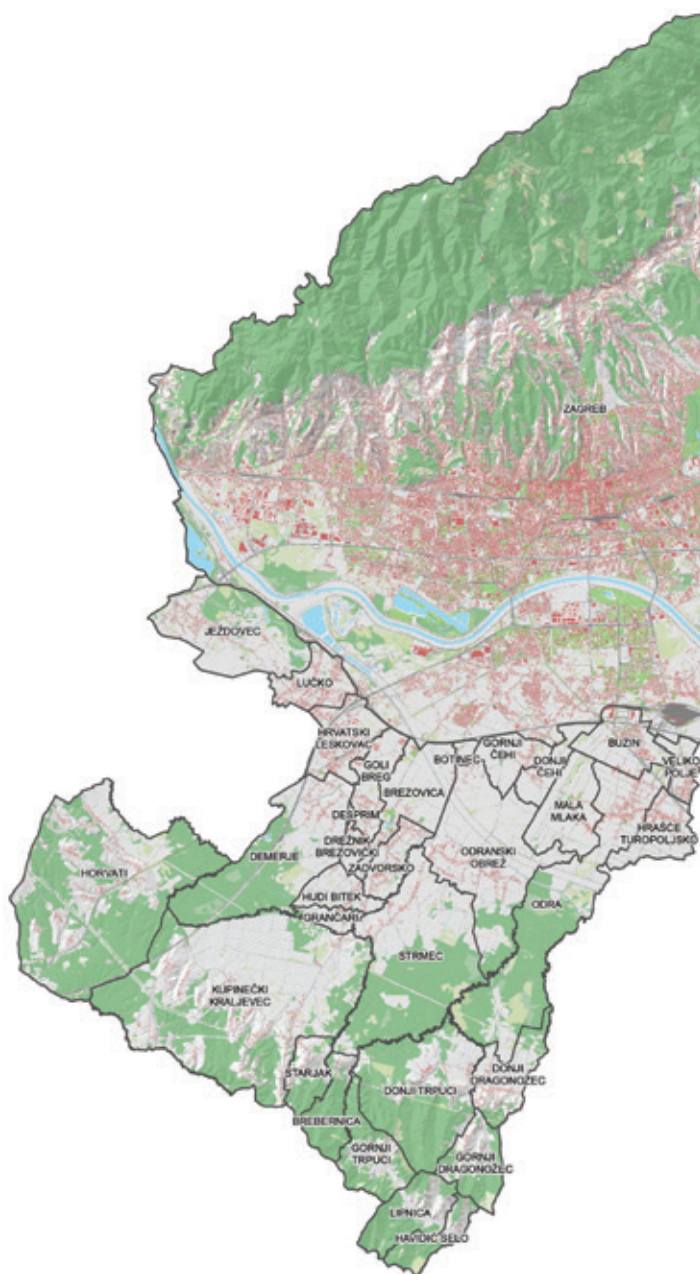
¹⁾ Settlements of the City of Zagreb are presented according to the Act on the Territories of Counties, Towns and Municipalities in the Republic of Croatia (Official Gazette 10/97).

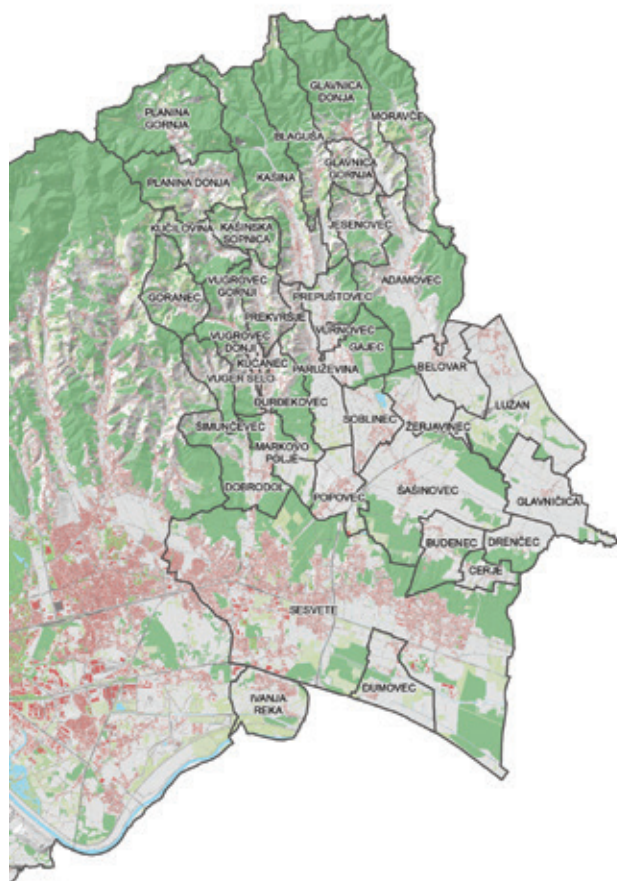
Changes in the territory and borders of the settlement Dobrodol, Markovo Polje and Šimunčevac – Decision on the Boundaries of Settlements of the City of Zagreb (Official Gazette of the City of Zagreb 07/07).

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 – east	16.54	59 055	27 046	32 009	24 827	16 581	28 966	28 804
VII	Novi Zagreb – west	62.64	58 103	27 714	30 389	21 564	15 104	27 343	26 977
VIII	Trešnjevka – north	5.81	55 425	25 583	29 842	23 783	14 462	31 345	30 773
IX	Trešnjevka – south	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	13 183	Trnje, Peščenica – Žitnjak, Donja Dubrava, Sesvete
Brezovička road	7 699	Novi Zagreb - west, Brezovica
Bologne boulevard	7 630	Podsused – Vrapče
Sljemenska road	21 512	Črnomerec
Kneza Branimira	8 541	Donji Grad, Maksimir, Donja Dubrava, Peščenica – Žitnjak
M. Ljubek boulevard	6 313	Trešnjevka – south
Radnička road	7 254	Peščenica – Žitnjak, Trnje
Zagrebačka avenue	8 100	Trešnjevka – north
"Grad Vukovar" street	5 865	Trešnjevka – north/Trnje/Peščenica – Žitnjak
Ilica	6 377	Vrapče/Črnomerec
Miroševačka road	4 520	Gornja Dubrava
Ježdovečka road	4 516	Novi Zagreb – west (Ježdovec, Lučko)
Štefanovec	4 316	Gornja Dubrava
Dr. L. Naletilića	5 346	Novi Zagreb – west, Brezovica
Jadranska avenue	4 645	Novi Zagreb – west
Bukovačka road	4 008	Maksimir
Branovečka road	3 910	Gornja Dubrava
Dubrava	3 887	Gornja Dubrava/Donja Dubrava
Dubrovnik avenue	3 833	Novi Zagreb – west
Pantovčak	3 823	Gornji Grad – Medveščak
Maksimirska road	3 409	Maksimir/Gornja Dubrava
Vrhovec	3 378	Črnomerec
Selska road	3 549	Črnomerec, Trešnjevka – north, south
Ljubljanska avenue	3 010	Novi Zagreb – west
Savska road	2 678	Donji Grad, Trešnjevka (north, south), Trnje
Kralja Zvonimira	1 750	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 2017 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	0.7	1.2	4.8	10.5	14.4	18.6	21.2	22.4	19.2	15.2	8.9	3.9
	2	0.9	1.7	4.8	10.4	14.5	18.8	21.5	22.6	19.2	14.8	8.9	3.7
	3	1.1	1.7	4.9	10.9	14.9	19.1	21.6	22.2	19.4	14.6	8.8	3.2
	4	0.7	1.8	5.0	11.0	14.8	19.1	21.7	22.1	19.2	14.2	8.8	3.2
	5	0.4	2.0	5.3	11.0	14.3	19.0	21.7	22.0	18.7	13.9	8.8	3.3
	6	0.5	2.0	5.5	11.1	15.0	19.3	21.8	22.0	18.7	13.8	8.5	3.2
	7	0.7	1.9	5.7	11.3	15.4	19.3	21.7	21.9	18.7	13.6	8.3	3.0
	8	0.4	1.9	5.8	10.7	15.3	19.7	21.7	21.8	18.7	13.4	8.2	2.8
	9	0.4	1.9	6.0	10.7	15.5	19.7	21.7	21.9	18.4	13.2	8.0	2.5
	10	0.6	2.0	6.3	10.7	15.6	19.8	21.5	21.7	18.2	13.0	7.8	2.2
	11	0.8	2.3	6.4	10.9	15.6	19.4	21.5	21.4	18.2	12.7	7.2	2.1
	12	0.6	2.3	6.3	11.2	16.1	19.4	21.5	21.4	17.9	12.6	7.1	2.2
	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	16.6	19.4	21.9	21.5	17.4	12.5	6.8	2.3
	15	-0.1	1.8	6.9	11.8	16.5	19.6	22.0	21.7	17.3	12.2	6.7	2.1
	16	0.3	2.3	7.2	12.0	16.5	19.3	22.1	21.3	17.2	12.0	6.5	1.8
	17	0.5	2.7	7.5	11.9	16.7	19.1	22.3	21.2	16.8	11.6	5.9	1.7
	18	0.3	2.7	7.7	11.7	17.0	19.6	22.5	21.1	16.8	11.1	5.4	1.7
	19	0.3	3.0	8.0	12.1	17.1	19.7	22.1	21.1	16.6	11.0	5.3	1.9
	20	0.5	3.1	8.0	12.6	16.9	20.2	22.3	21.2	16.6	10.9	5.4	1.7
	21	0.4	3.3	8.3	12.6	17.0	20.2	22.0	20.8	16.1	10.8	5.2	1.5
	22	0.4	3.2	7.9	12.9	17.2	20.7	22.3	20.6	16.0	10.5	4.9	1.3
	23	0.3	3.6	8.2	13.0	17.2	20.6	22.3	20.4	15.9	10.7	4.7	1.2
	24	0.1	3.8	8.5	13.0	17.3	20.5	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	20.2	15.7	10.2	4.6	1.1
	26	0.6	4.4	9.1	13.8	17.8	20.7	21.9	20.3	15.6	10.0	4.3	1.1
	27	0.6	4.6	9.3	13.6	17.9	20.7	22.3	20.1	15.4	9.7	4.2	1.0
	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	0.6	5.1	9.5	13.7	18.4	20.7	22.1	20.0	15.1	9.6	4.2	1.3
	30	0.6		9.7	14.0	18.5	20.9	22.0	19.7	15.2	9.2	4.0	1.4
	31	1.0		10.1		18.6		22.1	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 Jun	05 Jul	08 Aug	07 Sep	23 Oct	16 Nov	17 Dec

1.4 Air temperature and total precipitation in the period between 1862 and 2017 as measured by the Meteorological Observatory Zagreb – Grič

(Continued)

	Day	January	February	March	April	May	June	July	August	September	October	November	December
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 Jun	11 Jul	22 Aug	27 Sep	30 Oct	27 Nov	22 Dec
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 Jun	04 Jul	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 five 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													
2008 – 2017	2.5	4.3	9.2	13.9	17.6	21.6	24.0	23.3	18.0	12.7	8.6	3.8	13.3
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
2017	-2.3	6.2	11.8	13.3	18.5	23.5	25.0	24.8	15.9	13.3	8.2	4.9	13.6
Average air pressure, hPa (pressure altitude – 162.5 m)													
2008 – 2017	998.5	997.3	996.6	995.1	995.3	995.5	995.5	996.7	997.7	999.4	997.4	1 000.3	997.1
2013	994.0	993.5	989.6	996.1	991.6*	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
2017	1 004.3	1 000.8	998.2	997.7	996.9	995.8	995.5	997.7	996.9	1 000.5	997.2	997.7	998.3
Average Relative Humidity, %													
2008 – 2017	77	71	61	60	62	63	60	61	70	75	78	79	68
2013	82*	77	71	59*	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
2017	74	70	55	57	58	57	52	56	75	71	74	75	64

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

(Continued)

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Average monthly and annual cloud coverage (tenths of sky covered)													
2008–2017	7.4	7.2	6.2	6.1	5.8	5.4	4.7	4.2	5.8	6.1	7.0	6.8	6.1
2013	8.2	8.7	7.1*	5.4	6.1	4.8	3.3	3.9*	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
2017	6.6	6.8	4.1	6.3	5.3	4.4	4.0	3.3	6.8	4.0	7.1	5.9	5.4
Absolute maximum air temperatures, °C													
2008 – 2017	16.6	20.8	23.5	29.8	33.4	36.2	37.6	38.8	33.0	25.9	22.5	19.1	38.8
day	11	25	29	29	27	30	8	8	11	7	9	25	8 Aug
year	2016	2008	2012	2012	2008	2012	2011	2013	2011	2009	2015	2009	2013
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	20.0	26.7	30.0	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
2017	10.4	16.4	23.2	25.0	30.4	34.4	36.0	37.6	26.7	23.6	17.6	16.7	37.6
day	13	23	29	10	30	23	10	4	11	19	5	12	4 Aug
Absolute minimum air temperatures, °C													
2008 – 2017	-10.2	-11.6	-3.2	1.4	5.2	8.7	12.2	8.4	7.0	0.3	-3.8	-15.6	-15.6
day	11	9	6	10	4	1	3	31	29	30	21	20	20 Mar
year	2017	2012	2010	2013	2011	2010	2011	2010	2008	2012	2011	2009	2009
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	1	26	1	1	31	18	4	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	1 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.	4 Jan
2017	-10.2	-2.0	1.5	1.4	7.3	11.4	13.2	13.2	8.0	4.5	-1.9	-3.9	-10.2
day	11	15	13	21	10	8	26	22	30	28	28	10	11 Jan

1.5 Monthly and annual meteorological data in the last five 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	Novem- ber	Dece- mber	Year
Monthly and annual precipitation, mm													
2008 – 2017	56.4	63.7	48.4	49.4	80.2	103.7	71.5	71.0	115.8	86.2	90.6	57.5	894.4
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
2017	31.6	42.8	14.7	47.9	35.6	99.9	53.4	53.7	236.1	69.3	112.8	90.7	888.5
Maximum daily precipitation, mm													
2008 – 2017	40,2	55,2	32,2	34,3	44,9	54,3	61,2	43,2	54,4	45,4	37,7	28,0	61,2
dan	15	12	31	30	23	20	18	20	13	22	22	16	18 Jul
godina	2013	2014	2013	2009	2015	2016	2010	2015	2012	2014	2015	2017	2010
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
dan	15	23	31	3	13	7	8	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
dan	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	31.0	19.9	43.2	39.8	33.9	37.7	0.3	44.9
dan	31*	23*	26*	19*	23	24*	26*	20	25*	16*	22	10*	23 May*
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
dan	3	16	4	28	15	20	17	22	6	3	7	29	20 Jun
2017	27.9	17.8	7.5	14.0	9.4	29.2	24.6	17.4	48.6	30.5	32.6	28.0	48.6
dan	14	25	11	29	15	1	26	7	17	23	30	16	17 Sep
Sunshine duration, hours													
2008 – 2017	62.6	82.5	149.3	188.6	236.4	257.7	286.4	286.8	169.5	132.4	77.6	72.1	2 001.9
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
2017	82.6	98.9	207.7	189.7	276.5	296.2	323.7	319.9	115.8	187.1	74.1	103.4	2 275.6

1.6. Number of days with particular meteorological features in the last five 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)	2013	13	9	10	-	-	-	-	-	-	-	2	12	46
	2014	8	6	-	-	-	-	-	-	-	-	-	7	21
	2015	11	10	-	-	-	-	-	-	-	-	-	3	24
	2016	17	-	-	-	-	-	-	-	-	-	4	23	44
	2017	29	4	-	-	-	-	-	-	-	-	2	10	45
Number of days with precipitation (precipitation ≥ 0.1 mm)	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
	2017	7	10	9	13	12	13	11	7	17	9	12	13	133
Number of snow days (precipitation ≥ 1 cm)	2013	18	10	5	-	-	-	-	-	-	-	-	-	33
	2014	7	3	-	-	-	-	-	-	-	-	-	4	14
	2015	5	7	-	-	-	-	-	-	-	-	-	-	12
	2016	8	-	-	-	-	-	-	-	-	-	-	-	8
	2017	24	2	-	-	-	-	-	-	-	-	-	1	27
Number of days with hail	2013	-	-	-	-	-	-	-	-	-	-	-	-	-
	2014	-	-	-	1	1	-	-	-	-	-	-	-	2
	2015	-	-	-	-	-	-	-	-	-	-	-	-	-
	2016	-	-	-	-	-	-	-	-	-	-	-	-	-
	2017	-	-	-	-	-	-	-	-	1	-	-	-	1
Number of days with gale-force wind (number 8 or more on the Beaufort scale)	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
	2017	2	2	2	1	1	3	1	1	-	1	-	-	14

Source: Meteorological and Hydrological Service

1.7 Frequency of acid rains on weather stations in 2017

	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	887.8	98	0	3	4	7.1
Puntijarka – Medvednica	1 291.6	125	0	11	28	31.2

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⁾													
2008 – 2017	328	359	331	383	211	257	112	171	468	416	432	292	468
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
2017	-167	84	35	383	5	-57	-120	-225	356	-8	216	385	385
Average water level (cm)													
2008 – 2017	-164	-116	-131	-148	-164	-183	-224	-235	-173	-176	-96	-104	-160
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
2017	-267	-152	-183	-207	-198	-242	-257	-287	-80	-200	-107	9	-181
Minimum water level (cm)³⁾													
2008 – 2017	-290	-286	-280	-282	-259	-287	-295	-307	-296	-295	-278	-284	-307
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
2017	-290	-280	-253	-273	-250	-287	-295	-307	-296	-291	-266	-200	-307

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⁾												
2008 – 2017	1 921	2 092	2 024	2 165	1 364	1 565	1 012	1 207	2 851	2 435	2 484	2 246	2 851
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
2017	275	925	791	2 165	710	547	386	166	2 008	675	1 339	2 178	2 178
	Average discharge rate (m³/s)												
2008 – 2017	298	429	374	332	286	248	168	155	310	282	478	462	318
2013	307	444	776	696	462	250	110	90,7	194	229	780	268	384
2014	584	1 095	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
2017	109	324	258	248	221	146	126	84	548	219	441	755	290
	Minimum discharge rate (m³/s)³⁾												
2008 – 2017	80.2	69.2	76.2	73.8	104.0	83.9	75.5	56.9	63.8	69.2	78.6	75.0	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
2017	80.7	91.6	125	99.7	129	83.9	75.5	63.9	74.5	79.6	108	207	63.9

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

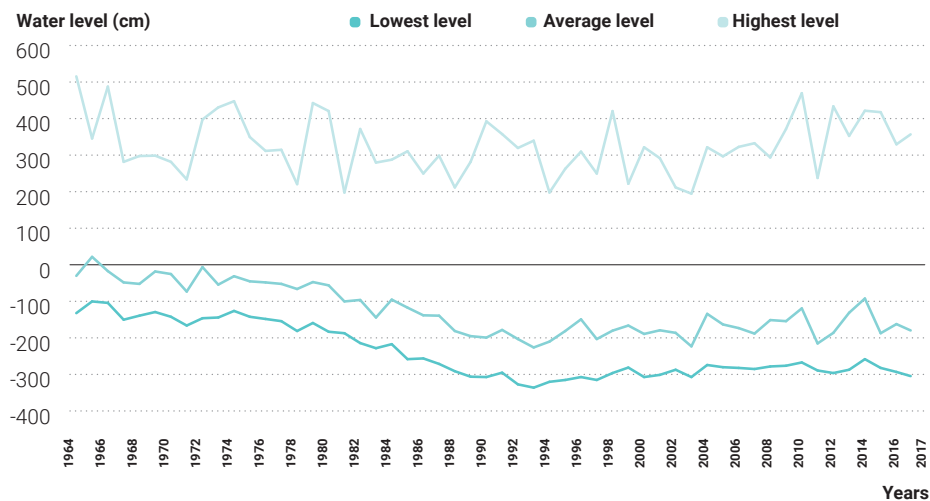
²⁾ Maximum recorded discharge was 126 m (on 26 October 1964).

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 – 2017



1.10 Earthquakes with epicentres near Zagreb¹⁾ that occurred between 1900 and 2017

	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 Jun
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
2017	810	V – VI	Šmarj pri Jelšah	15 January

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	
2017	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 2017)¹⁾

Waterflows	Corresponding surface area, km ²	Length, km	Maintained area, km	Waterflows	Corresponding surface area, km ²	Length, km	Maintained area, km
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 2017)¹⁾

(Continued)

Waterflows	Corresponding surface area, km ²	Length, km	Maintained area, km	Waterflows	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
Dešćevec	...	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 (OG 92/12), 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

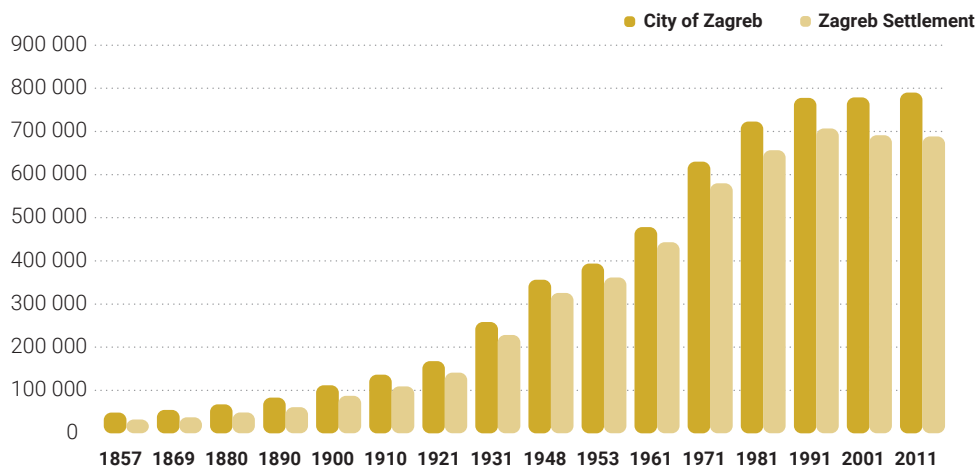
2.2 Population and households according to Censuses¹⁾

	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.

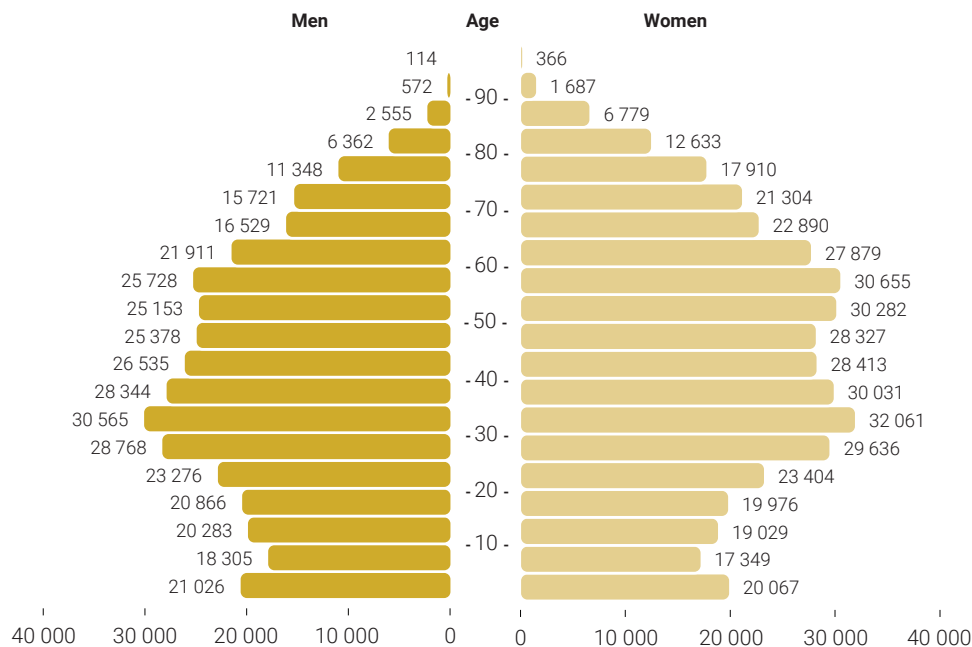
²⁾ End of a series of Censuses, see Notes on Methodology.

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

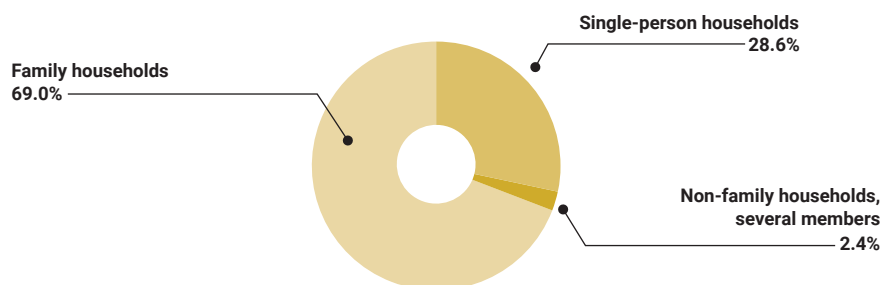
2.3 Population of the City of Zagreb and Zagreb Settlement according to the Censuses carried out between 1857 and 2011¹⁾

	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

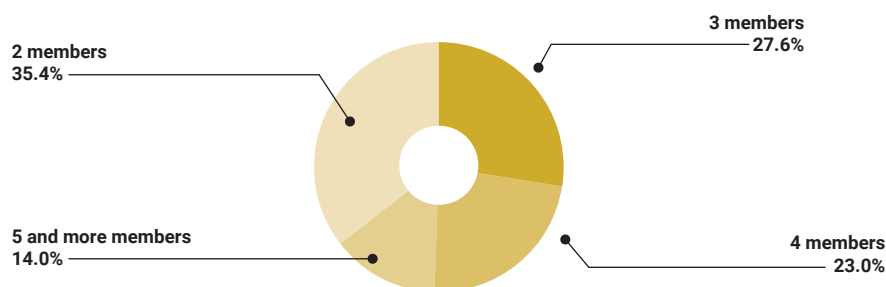
¹⁾ Data from the Censuses is compiled according to the administrative and territorial division pursuant to the Act on the Territories of Counties, Towns and Municipalities in the Republic of Croatia (Official Gazette 10/97).

²⁾ See Notes on Methodology.

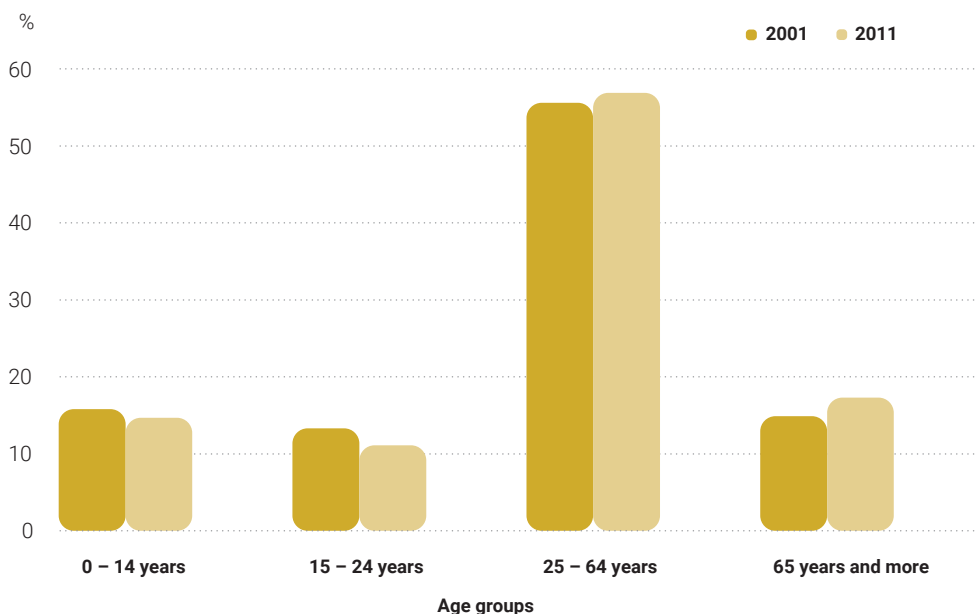
G 2.3 Private households by household structure, 2011 Census



G 2.4 Family households by number of members, 2011 Census

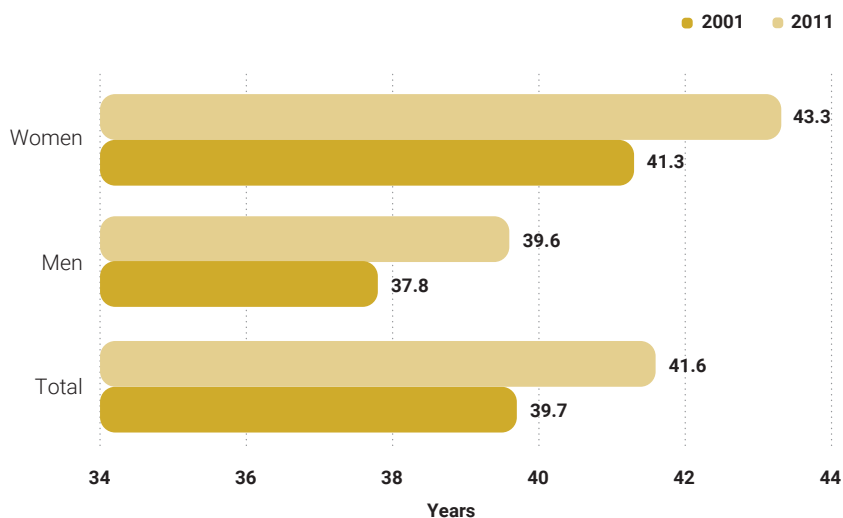


G 2.5 Age structure of citizens of the City of Zagreb according to 2001 and 2011 Censuses



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

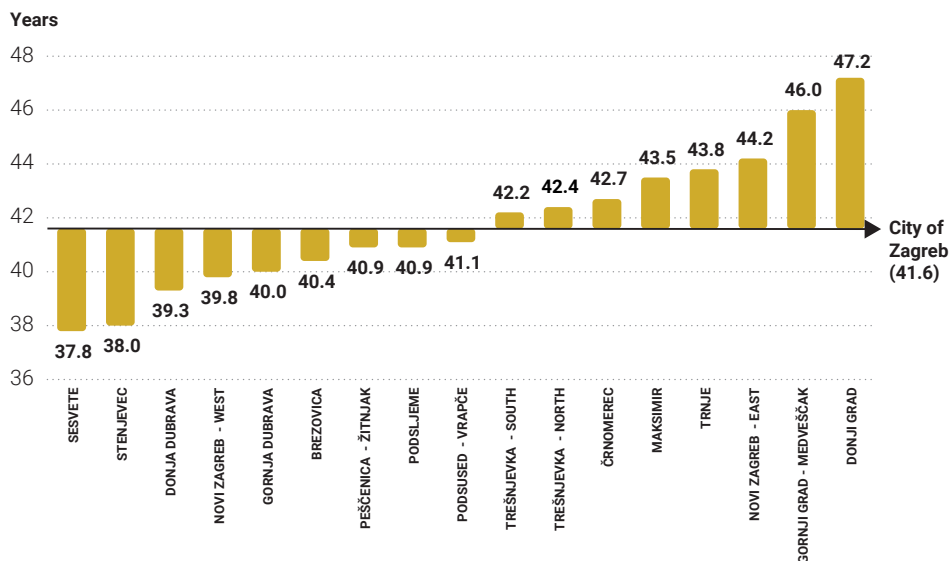


Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

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



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

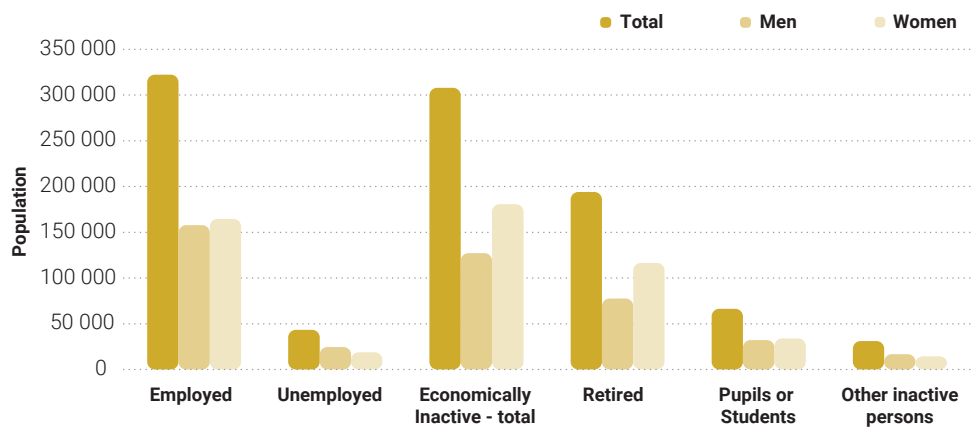
¹⁾ According to the Constitutional Act on Human Rights and Freedoms and the Rights of Ethnic and National Communities or Minorities in the Republic of Croatia (Official Gazette 105/2000).

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



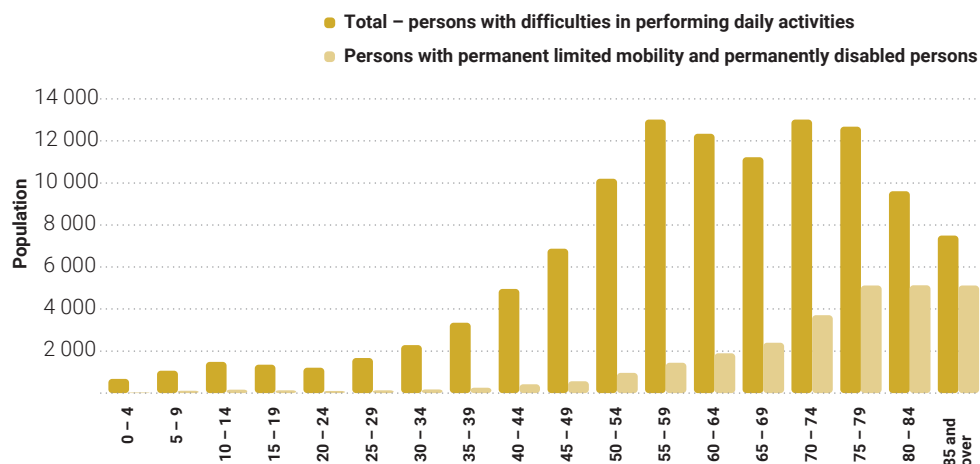
Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

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

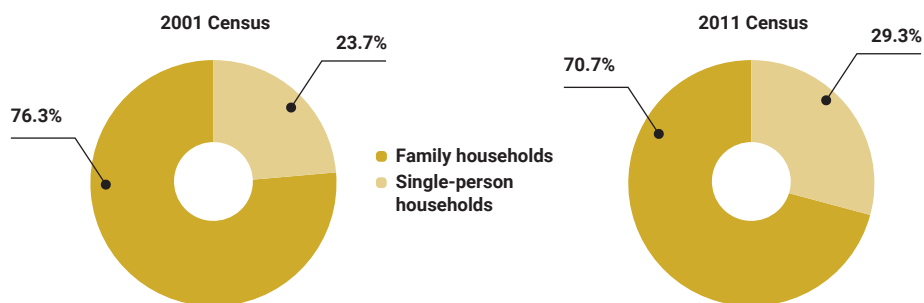
2.14 Family households by number of members, 2011 Census

	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					
		Ownership or co-ownership	Freely determined rent	Users related to the owner or the lessor	Protected 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

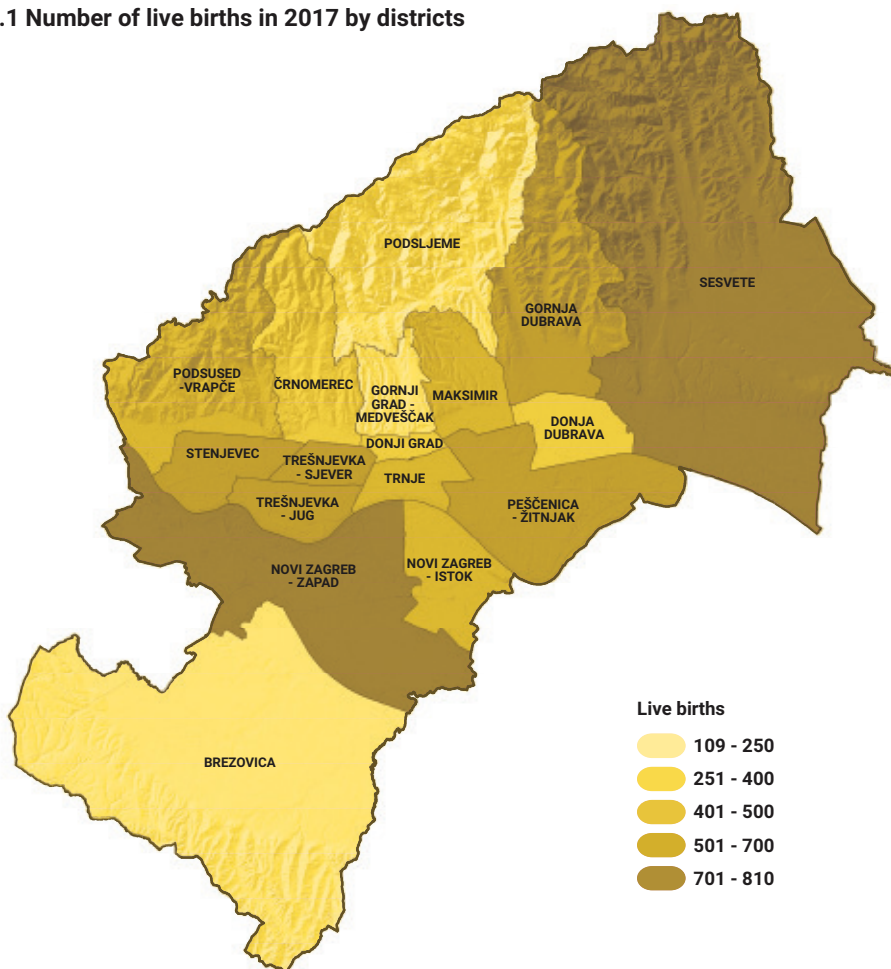
VITAL STATISTICS

2.21 Natural change in population

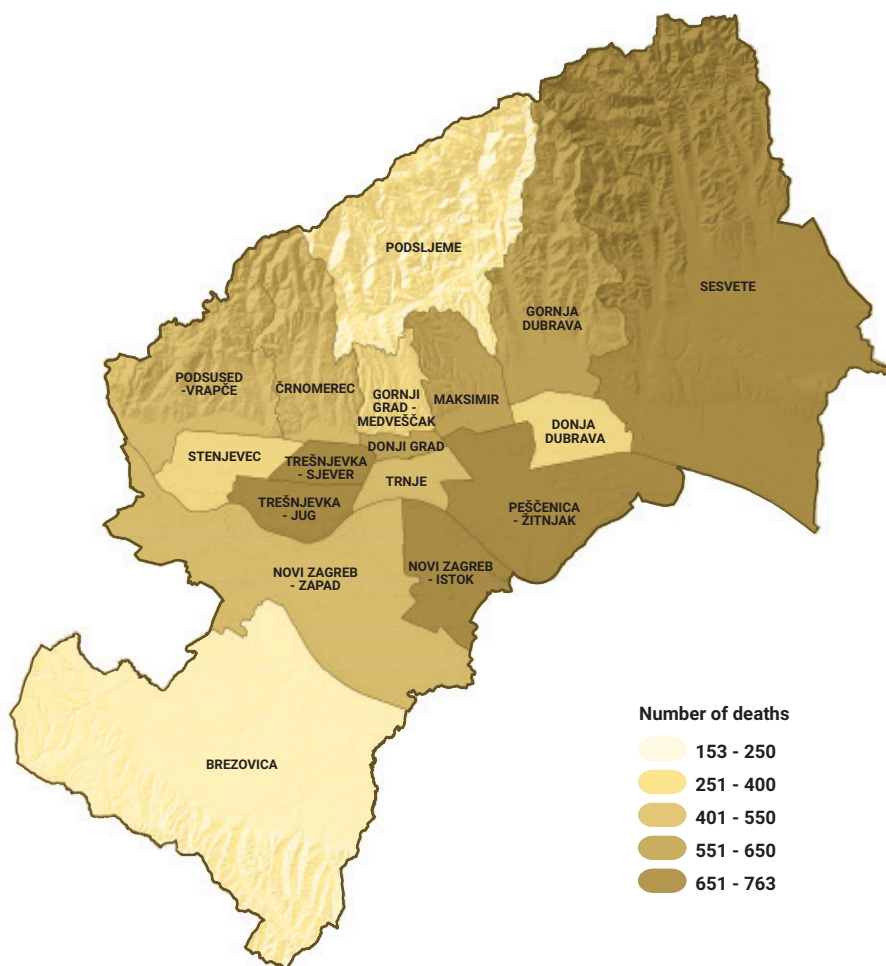
	Live births	Still-births	Stillbirths per 1,000 live births	Number of deaths		Infant mortality per 1,000 live- births	Natural population increase/decrease	Marriages		
				Total	Of which infants			Concluded	Divorces	Divorces per 1,000 concluded marriages
2013	8 254	29	3.5	8 360	28	3.4	-106	3 594	1 282	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
2017	8 076	31	3.8	8 826	30	3.7	-750	3 899	1 298	332.9

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 2017 by districts



K 2.2 Number of deaths in 2017 by districts

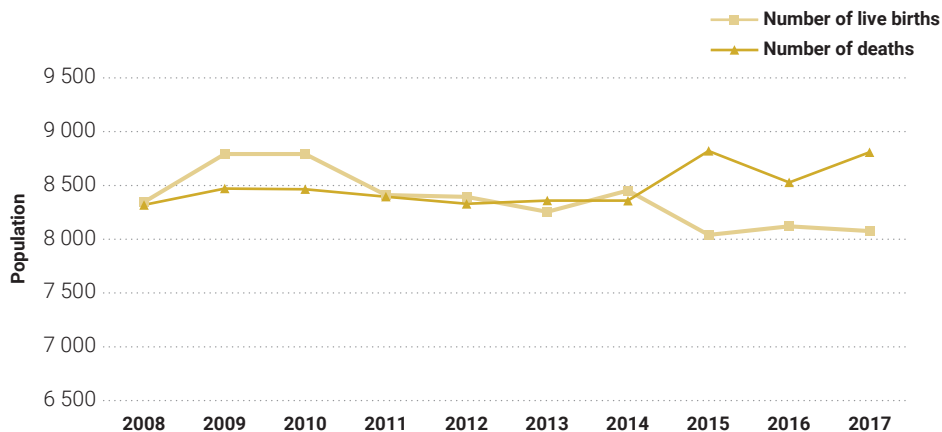


2.22 Rate of natural change in population

	Per 1 000 inhabitants				
	Live births	Deaths	Natural population increase/decrease	Concluded marriages	Divorces
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
2017	10.1	11.0	-0.9	4.9	1.6

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

G 2.11 Natural change in population

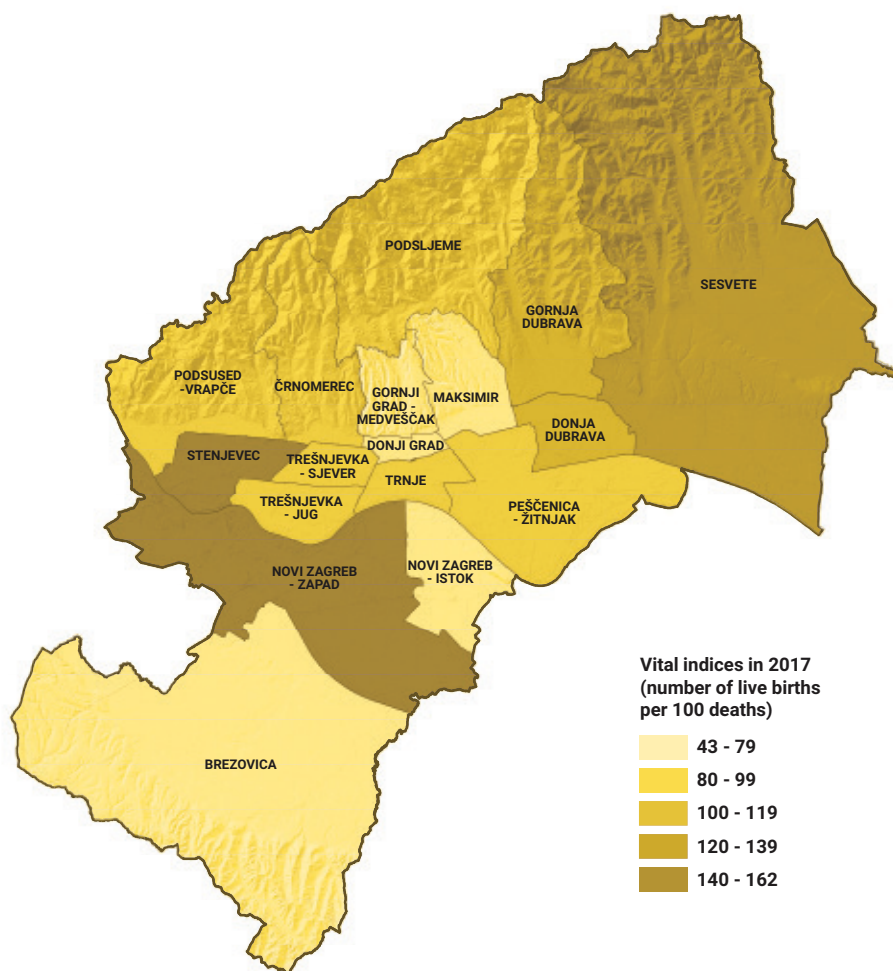


2.23 Live births and stillbirths by sex, marital status of parents, place of birth, and professional assistance

	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								
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
2017	8 076	4 118	3 958	6 560	1 516	8 054	19	3
Stillbirths								
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	-	-
2017	31	16	15	27	4	31	-	-

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

K 2.3 Vital indices in 2017 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													
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
2017	8 076	1	105	2 475	5 085	410	-	3 672	2 813	1 047	259	156	129
Stillbirths													
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
2017	31	-	1	7	20	3	-	13	10	7	-	-	1

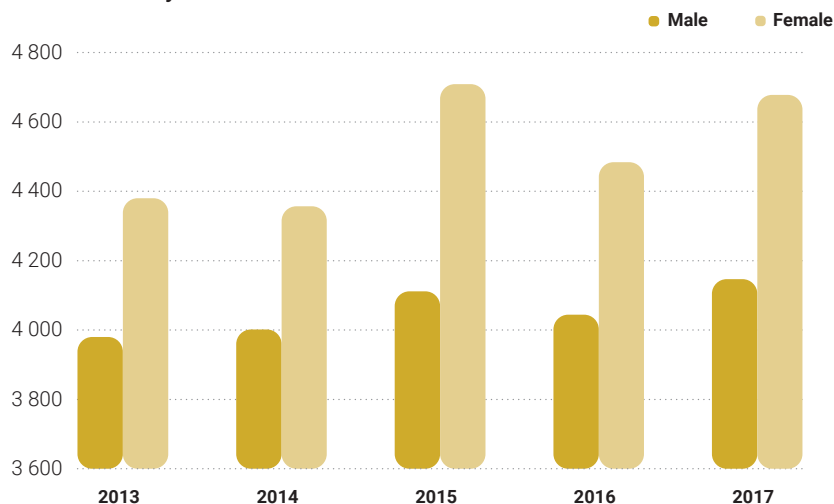
Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

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
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	-
2017	Male	4 147	16	3	4	2	6	25	57	105	343	812	2 774	-
	Female	4 679	14	2	3	1	4	11	30	66	194	487	3 867	-

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
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	-
2017														
Total	8 826	4 645	59	1 786	2 034	302	8 495	247	84	7 186	220	850	568	2
Male	4 147	2 216	30	616	1 085	200	3 926	165	56	3 254	81	526	284	2
Female	4 679	2 429	29	1 170	949	102	4 569	82	28	3 932	139	324	284	-

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

2.27 Deaths by cause of death

	2013	2014	2015	2016	2017
Total	8 360	8 359	8 821	8 528	8 826
Infectious and parasitic diseases	98	78	107	121	164
Neoplasms	2 475	2 540	2 460	2 569	2 520
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	6	1	5	9	10
Endocrine, nutritional and metabolic diseases	227	211	276	325	343
Mental and behavioural disorders	168	185	212	138	136
Diseases of the nervous system	178	166	190	202	220
Diseases of the eye and adnexa	-	-	-	-	-
Diseases of the ear and mastoid process	-	1	1	-	1
Diseases of the circulatory system	3 810	3 807	3 948	3 610	3 681
Diseases of the respiratory system	394	394	491	470	605
Diseases of the digestive system	332	296	346	293	308
Diseases of the skin and subcutaneous tissue	2	3	3	2	1
Diseases of the musculoskeletal system and connective tissue	14	26	26	22	22
Diseases of the genitourinary system	158	190	248	305	324
Pregnancy, childbirth and the puerperium	-	-	-	-	-
Certain conditions originating in the perinatal period	21	17	17	14	14
Congenital malformations, deformations and chromosomal abnormalities	16	18	14	18	16
Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified	84	59	72	43	78
Injury, poisoning and certain other consequences of external causes	377	367	405	387	383

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	Wo-men	Total	Wo-men	Total	Wo-men	Total	Wo-men	Total	Wo-men	Total	Wo-men
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	-
2017	383	161	265	119	10	7	93	32	-	-	15	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

	2013	2014	2015	2016	2017
Total violent deaths	377	367	405	387	383
By age of the deceased					
Less than 1 year	-	-	-	1	1
1 – 4	-	2	1	1	-
5 – 9	-	1	-	-	2
10 – 14	-	-	2	-	-
15 – 19	6	6	6	3	5
20 – 24	10	5	7	8	6
25 – 29	10	6	6	8	7
30 – 34	17	14	18	13	18
35 – 39	22	22	27	16	22
40 – 44	13	18	19	11	17
45 – 49	20	13	25	13	14
50 – 54	16	22	17	23	22
55 – 59	25	26	25	26	30
60 – 64	35	34	19	26	22
65 – 69	27	19	23	27	30
70 – 74	29	18	28	29	24
75 – 79	40	38	39	32	41
80 years and more	107	123	143	150	122
Unknown age	-	-	-	-	-
By month of death					
January	28	26	40	44	25
February	23	21	44	28	26
March	30	34	43	20	30
April	33	29	25	39	26
May	25	34	24	20	34
June	28	29	28	37	29
July	34	37	34	32	30
August	42	31	37	33	42
September	43	36	35	44	35
October	33	45	27	38	40
November	27	17	29	27	32
December	31	28	39	25	34
Share of violent deaths in the total number of deaths, %	4.5	4.4	4.6	4.5	4.3

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

2.30 Suicides by age of the deceased

	2013	2014	2015	2016	2017
Suicides – total	84	95	115	104	93
Age of the deceased					
up to 14 years	-	-	1	-	-
15 – 24	7	8	10	7	2
25 – 39	16	18	24	11	17
40 – 54	20	22	24	19	17
55 – 69	28	24	27	37	29
70 years and more	13	23	29	30	28
Unknown age	-	-	-	-	-
Suicide rate in total number of deaths, %	1.00	1.14	1.30	1.22	1.05
Suicide in the total number of violent deaths, %	22.30	25.90	28.40	26.87	24.28

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

	2013	2014	2015	2016	2017
Total deaths	49	48	30	32	39
Of which women	12	13	10	6	10
Age of the deceased					
0 – 4	-	-	-	-	-
5 – 9	-	1	-	-	1
10 – 14	-	-	1	-	-
15 – 19	2	-	-	1	2
20 – 24	3	2	-	1	3
25 – 29	4	1	-	1	1
30 – 34	6	4	1	4	2
35 – 39	5	3	2	2	4
40 – 44	2	2	4	1	5
45 – 49	1	4	3	1	4
50 – 54	-	2	2	6	1
55 – 59	2	4	4	2	3
60 – 64	4	6	1	2	1
65 – 69	4	2	2	2	2
70 – 74	7	3	1	4	3
75 – 79	5	2	5	1	4
80 years and more	4	12	4	4	3
Unknown age	-	-	-	-	-
Share of deaths in traffic accidents in the total number of the deceased, %	0.59	0.57	0.34	0.38	0.44
Share of deaths in traffic accidents in the total number of violent deaths, %	13.00	13.08	7.41	8.27	10.18

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												
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	-
2017	3 899	59	522	1 451	997	447	165	94	53	52	59	-
Grooms												
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	-
2017	3 899	11	247	1 132	1 222	614	278	118	83	61	133	-

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	Divorced	Un-married	Wi-dower	Divor-ced
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
2017	3 899	3 520	379	3 415	484	3 520	39	340	3 415	41	443

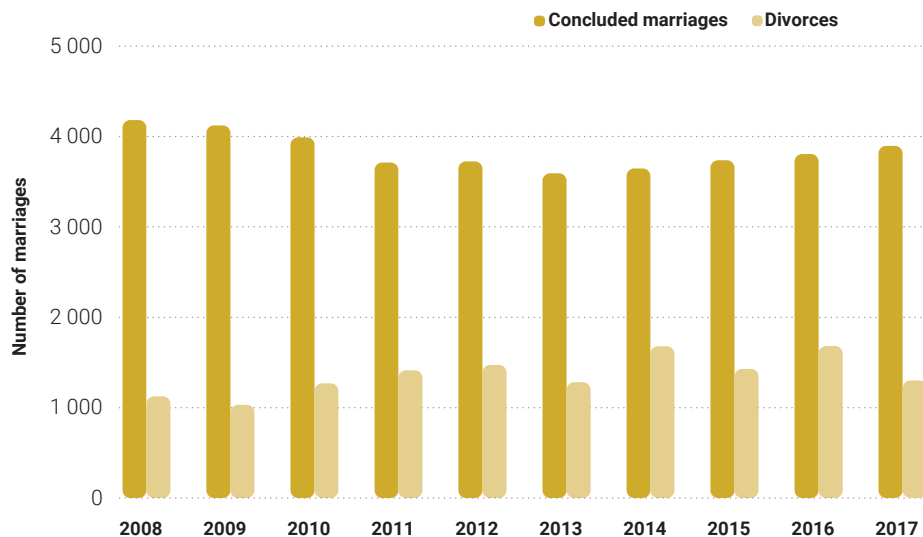
Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

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 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
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
2017	3 899	6	5	55	360	1 312	1 885	276	3	7	35	568	1 455	1 537	294

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

G 2.13 Concluded marriages and divorces



2.35 Divorces

	2013	2014	2015	2016	2017
Divorces – total	1 282	1 680	1 428	1 682	1 298
By husband's age					
up to 19	-	-	-	1	-
20 – 24	11	12	10	14	8
25 – 29	78	94	76	75	46
30 – 39	452	515	464	542	406
40 – 49	442	554	463	611	467
50 – 59	209	341	279	320	257
60 years and more	88	164	136	119	114
unknown	2	-	-	-	-
By wife's age					
do 19	1	1	-	1	2
20 – 24	32	32	27	29	15
25 – 29	133	145	120	136	92
30 – 39	490	585	552	631	505
40 – 49	420	533	443	587	420
50 – 59	141	277	202	220	196
60 years and more	54	103	84	78	68
unknown	11	4	-	-	-
By duration of marriage					
up to 1 year	13	14	11	15	14
1 – 4	214	295	250	245	202
5 – 9	301	356	334	404	313
10 – 14	243	275	249	313	236
15 – 19	206	227	207	254	183
20 years and more	305	513	377	451	350
By number of dependent children born during the divorce procedure					
0	487	760	615	665	508
1	451	522	442	548	426
2	297	338	283	395	298
3 and over	47	60	88	74	66
unknown	-	-	-	-	-
By dependent children born to married parents currently undergoing divorce procedure, in cases of granted child custody					
no dependent children	487	760	615	665	508
custody granted to the husband	67	64	59	77	63
custody granted to the wife	708	822	722	896	691
custody granted to the husband and the wife	16	32	32	43	34
custody granted to other persons, institutions, and other	4	2	-	1	2

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

MIGRATION OF POPULATION

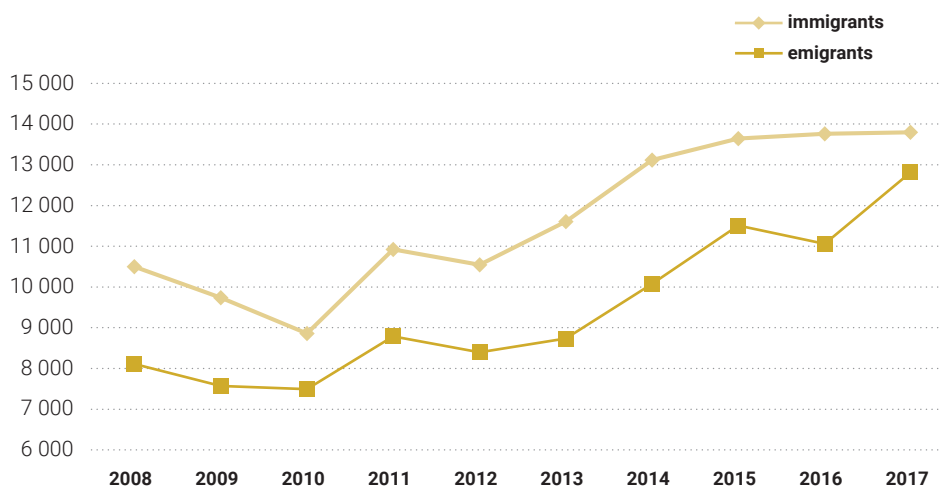
2.36 Immigrants and emigrants

	2013	2014	2015	2016	2017
Immigrants – total	11 606	13 116	13 644	13 765	13 758
From other counties	9 012	10 376	10 886	10 435	10 043
From abroad	2 594	2 740	2 758	3 330	3 715
Emigrants – total	8 735	10 076	11 512	11 059	12 755
To other counties	6 731	6 955	6 466	6 183	5 941
Abroad	2 004	3 121	5 046	4 876	6 814
Net migration rate	2 871	3 040	2 132	2 706	1 003
Net migration between counties	2 281	3 421	4 420	4 252	4 102
Net migration to foreign countries	590	-381	-2 288	-1 546	-3 099
Moved from another settlement ¹⁾	3 109	2 945	2 869	2 727	2 495
Moved to another settlement ¹⁾	3 109	2 945	2 869	2 727	2 495

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

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

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 afore-mentioned, 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.

Specialization is a form of organized acquisition of competencies according to a prescribed program which can be performed only in authorized health institutions, trade companies engaged in health activities, i.e. with licensed medical doctors performing in a private practice, provided they meet the terms and conditions stipulated by the law.

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).

Hospital activities include diagnostics, treatment and medical rehabilitation, medical care and the stay and nutrition of patients in hospitals.

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*		
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
2017	1 122 390	968 391	448 575	273 440	102 065	144 311	151 657	2 342

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

*Since 1 July 2013 children up to the age of 18 acquire the insured person status based on the new insurance regulation instead of being insured as family members of insured persons. (Compulsory Health Insurance Act, Official Gazette of the City of Zagreb, No. 80/13)

Source: Croatian Health Insurance Fund

3.2 Overview of the duration of leave of absence¹⁾

	2013	2014	2015	2016	2017
Cause of incapacity for work					
Total					
Number of days					
In thousands	5 420	5 328	5 834	6 054	6 368
Per one active beneficiary	12.6	12.4	13.5	13.7	14.2
Disease					
Number of days					
In thousands	3 375	3 336	3 809	4 004	4 334
Per one active beneficiary	7.8	7.8	8.8	9.1	9.7
Occupational accidents and diseases					
Number of days					
In thousands	314	323	366	363	330
Per one active beneficiary	0.7	0.7	0.8	0.8	0.7
Family member care, isolation, and escort					
Number of days					
In thousands	251	241	290	284	292
Per one active beneficiary	0.6	0.6	0.7	0.6	0.6
Pregnancy and compulsory maternity leave					
Number of days					
In thousands	854	823	788	808	795
Per one active beneficiary	2.0	1.9	1.8	1.8	1.8
Pregnancy complications					
Number of days					
In thousands	626	605	581	595	617
Per one active beneficiary	1.5	1.4	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

	2013	2014	2015	2016	2017
Institutes of Public Health	2	2	2	2	2
Hospitals – Total	17	17	18	17	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	9	9	10	9	9
Outpatient polyclinics (independent health care institutions)	166	158	168	167	167
Health centres	4	4	4	4	4
Nursing institutions	34	32	34	40	40
Other health institutions	9	9	9	8	8
Companies providing health care services	167	174	185	210	238

Source: Croatian Institute of Public Health

3.4 Health workers and associates

	2015	2016	2017
Total	20 831	21 390	21 663
Medical doctors			
Total	4 636	4 680	4 840
Specialists	3 367	3 328	3 403
Medical doctors	1 269	1 352	1 437
Doctors of dental medicine	1 097	1 089	1 121
Pharmacists	796	816	779
Medical biochemists	202	204	195
Other health workers and associates			
By professional qualifications			
Total	14 100	14 601	14 728
Higher education	748	760	786
Post-secondary education	4 106	4 220	4 395
Secondary education	9 115	9 481	9 394
Primary education	131	140	153

Source: Croatian Institute of Public Health

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

	2015		2016		2017	
	Total	Women	Total	Women	Total	Women
Health workers and associates – total	20 831	16 660	21 390	17 076	21 663	17 275
Higher education	7 479	5 133	7 549	5 197	7 721	5 354
Health workers	7 139	4 854	7 209	4 915	7 383	5 068
Medical doctors – total	4 636	2 832	4 680	2 875	4 840	3 007
Specialists	3 367	1 966	3 328	1 952	3 403	2 025
Medical doctors without specialty	300	228	319	248	317	245
Specialty trainees	762	501	830	538	889	580
Interns	207	137	203	137	231	157
Doctors of dental medicine	1 097	733	1 089	725	1 121	760
Pharmacists	796	739	816	755	779	724
Medical biochemists	202	188	204	189	195	180
Other health workers with higher education degrees ¹⁾	408	362	420	371	448	397
Health associates	340	279	340	282	338	286
Post-secondary education	4 106	3 459	4 220	3 538	4 395	3 669
Health workers	4 082	3 441	4 200	3 523	4 373	3 654
Nurses	2 170	2 010	2 230	2 050	2 343	2 151
Dentists	-	-	-	-	-	-
Medical laboratory technicians	493	449	506	461	531	487
Sanitary technicians	71	54	74	55	77	58
Physiotherapists	735	584	764	612	786	607
Radiology technicians	511	256	513	244	535	263
Pharmaceutical technicians	-	-	-	-	-	-
Dental Technicians	26	21	26	21	25	20
Work Therapists	76	67	87	80	76	68
Health associates	24	18	20	15	22	15
Secondary education	9 115	7 976	9 481	8 242	9 394	8 138
Health workers	9 020	7 898	9 318	8 099	9 307	8 068
Nurses	7 203	6 337	7 502	6 554	7 385	6 423
Laboratory technicians	688	610	705	620	695	615
Sanitary technicians	63	43	59	39	59	40
Physiotherapeutic technicians	170	138	157	125	144	108
Radiology technicians	1	1	-	-	-	-
Pharmaceutical technicians	504	489	523	501	543	515
Dental technicians	381	273	359	250	371	264
Dental assistant	-	-	-	-	98	94
Work therapy technicians	3	2	5	4	5	4
Child care worker	-	-	-	-	-	-
Wellness masseuse	7	5	8	6	7	5
Health associates	95	78	163	143	87	70
Primary education	131	92	140	99	153	114
Health workers	11	4	11	4	31	23
Child caregivers	2	2	1	1	1	1
Paramedics	9	2	10	3	29	21
Dental assistants	-	-	-	-	1	1
Health associates	120	88	129	95	122	91

¹⁾ Graduated nurses, physiotherapists, sanitary technicians.

3.6 Doctors by type of specialty

Type of specialty	2015		2016		2017	
	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾
Total	3 367	762	3 328	830	3 403	889
General medicine	76	-	72	-	66	-
Internal medicine	501	36	494	33	515	5
Cardiology	-	17	2	22	2	25
Pulmonology	-	14	-	18	-	20
Gastroenterology	-	11	-	14	-	19
Nephrology	-	9	-	12	-	20
Haematology	-	13	-	14	-	22
Laboratory Immunology	2	2	2	2	1	2
Endocrinology and diabetology	-	10	-	12	-	15
Internist oncology	-	10	-	12	-	17
Allergology and clinical immunology	-	4	-	4	-	6
Pneumophysiology	27	-	25	-	21	-
Infectiology	40	16	36	16	41	14
Paediatric infectiology	5	4	5	5	3	7
Neurology	121	27	117	29	124	32
Psychiatry	230	40	228	43	233	39
Child and adolescent psychiatry	-	5	-	5	-	6
Neuropsychiatry	8	-	6	-	7	-
Dermatology and venerology	67	13	68	12	71	12
Paediatrics	230	40	231	45	238	60
General surgery	247	16	247	14	231	8
Cardiothoracic surgery	-	4	-	4	-	6
Vascular surgery	-	4	-	4	-	8
Abdominal surgery	-	12	-	19	-	23
Neurosurgery	31	16	35	14	41	12
Child surgery	21	10	20	10	21	8
Maxillofacial surgery	14	1	14	3	13	4
Plastic and reconstructive surgery	1	2	1	3	1	3
Urology	54	14	55	13	54	13
Orthopaedics	47	3	46	3	50	-
Orthopaedics and traumatology	-	13	-	15	13	24
Otorhinolaryngology	88	15	91	17	89	20
Ophthalmology	127	7	124	7	129	1
Ophthalmology and optometry	-	22	1	24	4	27
Obstetrics and gynaecology	218	32	217	29	226	31
Anaesthesiology and reanimation	92	-	86	-	75	-

3.6 Doctors by type of specialty

(Continued)

Type of specialty	2015		2016		2017	
	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾
Transfusiology	44	2	38	6	36	6
Radiology	178	11	171	8	183	-
Clinical radiology	-	29	-	35	-	45
Radiotherapy and oncology	44	17	42	20	44	17
Nuclear medicine	32	10	32	12	32	10
Physical medicine and rehabilitation	92	8	91	8	92	10
Occupational medicine	57	-	51	-	49	-
School medicine	39	1	40	-	40	-
Social medicine with health care organisation	8	-	6	-	5	-
Epidemiology	42	7	44	6	42	10
Medical microbiology and parasitology	73	3	71	3	74	-
Pathological anatomy	58	3	58	2	56	-
Pathology	-	5	-	6	-	12
Medical cytology	19	-	19	-	19	-
Clinical pharmacology	12	-	12	-	10	-
Public health	8	5	9	5	8	7
Family medicine	181	30	182	30	185	47
Clinical cytology	29	7	32	4	36	-
Anaesthesiology, reanimation and intensive care	148	102	147	122	159	126
Clinical pharmacology and toxicology	-	4	-	4	2	3
Occupational and sports medicine	21	12	25	10	27	11
Naval medicine	1	-	1	-	1	-
Emergency medicine	33	39	33	45	34	47
Clinical microbiology	-	3	-	4	-	6
General internal medicine	1	16	1	16	-	15
Rheumatology	-	2	-	3	-	3
School and adolescent medicine	-	4	-	4	-	5

¹⁾ Since 2011, medical doctors begin training according to the new Ordinance on Specialist Training. (OG, No. 100/11, 133/11, 54/12, 49/13, 139/14, 116/15, 62/16, 69/16 and 6/17)

Source: Croatian Institute of Public Health

3.7 General medicine services – primary health care

	2013	2014	2015	2016	2017
Number of health centres	4	4	4	4	4
Number of teams in health institutions – total	440	429	435	439	488
Doctor's offices under contract with the Croatian Health Insurance Fund	257	231	234	227	260
Doctor's offices without an agreement with the Croatian Health Insurance Fund	14	12	11	14	14
Doctor's offices in health centres	169	186	190	198	214
Health workers					
General medicine practitioners	159	196	176	201	251
General medicine specialists and other specialists	281	237	265	244	237
Other health workers	429	423	434	449	437
Visits – total	6 241 954	6 196 050	6 477 841	7 128 280	7 003 886
Of which: at the doctor's office	6 198 801	6 153 782	6 439 160	7 086 701	6 961 031
home visits	43 153	42 338	38 681	41 579	42 855
Exams – total	2 100 284	2 117 938	2 236 625	2 199 923	2 059 944
Of which: at the doctor's office	2 057 425	2 084 804	2 198 066	2 159 787	2 018 710
home visits	42 859	33 134	38 599	40 136	41 234

Source: Andrija Štampar Teaching Institute of Public Health

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

	2013	2014	2015	2016	2017
Primary health care for infants and preschool children					
Teams	60	61	60	60	59
Doctors: specialists and paediatricians	60	61	60	60	59
Other health workers	57	61	60	60	59
Visits – total	591 125	626 867	663 295	547 425	488 884
Of which: at the doctor's office	591 050	626 655	663 235	547 360	488 856
home visits	75	212	60	65	28
Examinations – total	358 757	372 606	317 650	295 615	257 821
Of which: at the doctor's office	358 683	372 395	317 590	295 550	257 793
home visits	74	211	60	65	28
Primary health protection of women					
Teams	58	61	59	63	61
Doctors specialists	58	60	59	63	61
Other health workers	54	59	56	60	58
Preventive examinations	58 890	85 772	110 547	129 320	121 978
Visits and examinations at the doctor's office					
Visits	431 371	332 772	406 961	424 705	421 177
Examinations	98 423	203 292	233 140	243 486	241 452
Pregnant women's visits to counselling centres					
Total	41 953	39 327	63 868	41 549	40 378
Pathological conditions in pregnancy	17 538	15 407	12 529	11 860	11 449

Source: Andrija Štampar Teaching Institute of Public Health

3.9 Counselling centres for family planning – primary health care

	2013	2014	2015	2016	2017
Number of visits – total	16 181	19 420	23 826	25 346	26 412
Number of first-time visits – total	6 189	7 098	9 421	9 874	9 952
Number of prescribed contraceptives	27 538	24 002	22 984	25 030	26 142

Source: Andrija Štampar Teaching Institute of Public Health

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

	2013	2014	2015	2016	2017
Teams	559	541	549	492	532
Health workers					
Dentists	538	534	523	473	515
Dental specialists	21	20	26	19	17
Dental technicians / dental assistants	435	458	470	453	456
Number of examinations – total	1 374 051	1 149 674	871 265	876 480	856 116
Number of full physical examinations	75 612	169 557	252 135	221 175	227 316

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	
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
2017	91 109	79 243	11 866	130 258	126 238	4 020	424

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 2017

	Number of services per day						
	Monday, Wednesday, Friday	Tuesday Thursday	Saturday	Sunday	Holiday (Mon, Wed, Fri.)	Holiday (Tue, Thu)	Average
Number of days	151	100	52	53	5	4	365
Emergency medical care	253.11	245.43	247.49	250.21	255.80	234.50	249.61
Team 1 ¹⁾	193.34	187.01	188.31	190.21	193.60	176.75	190.26
Emergency ward	25.88	23.97	29.33	31.64	32.40	32.50	26.85
Team 2 ¹⁾	33.88	34.45	29.85	28.36	29.80	25.25	32.51
Medical transport	411.42	469.65	313.46	45.56	247.40	304.45	356.87
In the City of Zagreb	395.76	453.24	313.31	45.45	247.40	304.45	345.86
Dialysis	189.34	244.94	247.48	0.00	195.40	244.45	186.05
Other transports	206.42	208.30	65.83	45.45	52.00	60.00	159.81
Outside of the City of Zagreb	15.66	16.41	0.15	0.11	0.00	0.00	11.01

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				
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
2017	6	65	6	52	13	24 303	8 408	347 748

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⁾				
	2013	2014	2015	2016	2017
Internal	454 456	409 836	492 645	481 057	512 255
Surgery	269 095	154 486	493 353	310 513	310 371
Urology	93 367	79 968	106 542	100 962	124 421
Neurology	127 028	99 099	142 976	107 259	142 674
Psychiatry	202 481	172 171	269 712	224 750	263 071
Paediatrics	158 381	151 152	173 158	148 320	190 464
Gynaecology and maternity	211 339	204 344	256 540	214 785	285 422
Dermatovenerology	147 320	153 421	208 495	153 752	206 357
Otorhinolaryngology	166 935	152 000	195 236	182 924	204 707
Ophthalmology	342 058	298 290	381 780	353 983	384 146
Infectiology	52 685	49 525	56 723	52 051	53 726
Orthopaedics	77 454	74 117	95 242	89 206	84 156
Oncology and radiotherapy	48 215	97 540	36 406	21 981	27 422
Physical medicine and rehabilitation	393 943	163 932	519 734	243 941	187 216
Anaesthesiology	33 123	28 910	55 219	49 020	64 139
Maxillofacial surgery	13 580	...	32 106	33 557	15 363
Neurosurgery	26 779	17 174	26 939	25 383	28 180
Nuclear medicine	48 777	26 822	172 427	38 590	86 651
Pulmonology	77 542	69 651	117 307	63 541	106 282
Diabetology	34 868	25 559	22 812	28 804	29 434
Child surgery	56 090	56 834	38 905	33 708	8 229
Cardiology	89 065	88 193	118 666	124 136	170 533

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

Source: Croatian Institute of Public Health

3.15 Persons suffering from infectious diseases

	2013	2014	2015	2016	2017
Typhus abdominalis	-	-	-	-	-
Dysentery	-	1	3	-	1
Enterocolitis	2 426	3 678	3 836	3 583	3 727
Toxicoinfectio allmentaris	28	24	37	35	32
Salmonellosis	237	206	230	183	143
Campylobacter	175	169	171	201	299
Hepatitis virosa	-	-	-	-	2 411
Hepatitis virosa A	2	2	1	2	11
Hepatitis virosa B	22	21	21	35	26
Hepatitis virosa C	43	31	37	53	41
Poliomyelitis	-	-	-	-	-
Pertussis	27	52	14	32	29
Tetanus	-	-	-	-	-
Morbilli	1	9	109	4	4
Rubeola	-	-	-	-	-
Varicellae	5 535	3 963	4 959	4 946	3 728
Herpes zoster	959	945	1 047	979	962
Scarlatina	1 087	897	807	1 309	815
Angina streptococcica	4 880	4 833	3 580	4 977	3 218
Erysipelas	248	223	225	200	199
Parotitis epidemica	4	6	3	3	-
Meningitis epidemica	8	6	1	5	9
Meningitis purulenta	33	5	10	8	4
Meningitis virosa	17	36	13	19	9
Encephalitis	8	8	4	3	3
Mononucleosis infectiosa	376	591	663	660	635
Pneumonia-Bronchopneumonia	2 553	4 887	4 901	2 440	2 238
Enterovirus	-	-	-	-	-
Gonorrhoea	5	4	7	5	15
Syphilis	32	20	8	10	6
Scabies	104	134	163	381	419
Pediculosis	294	380	364	411	417
Malaria	2	-	-	2	5
Dengue fever	3	-	-	3	-
Leptospirosis	1	5	1	-	1
Lyme borel.	137	107	135	141	148
Kala-azar	-	-	-	2	1
Toxoplasmosis	3	1	1	4	-
Legionellosis	16	15	21	13	20
Tularemia	-	-	-	-	2
Trichinellosis	1	-	-	-	1
TBC pulmonum	70	52	57	57	46
Febris haemorrhagica	-	28	2	5	120
Psittacosis-ornithosis	-	-	-	-	-
Chlamidia	97	30	108	33	30
Botulismus	-	-	-	-	-
Echinococcosis	1	1	-	-	1
Q-febris	-	-	1	2	1
HIV Carriers	11	4	4	3	2
AIDS	7	1	-	-	-
Febris West Nile	-	-	-	-	2

Source: Andrija Štampar Teaching Institute of Public Health

3.16 Hospital services

	2013	2014	2015	2016	2017
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⁾	6 674	6 737	6 516	6 410	6 435
Number of patients – total	256 649	255 842	262 220	264 207	261 779
Of which: deceased	5 859	5 803	6 193	6 181	6 315
Inpatient days, thousands	1 998	2 006	1 982	1 948	1 876
Health workers and associates – total	10 238	...	12 969⁴⁾	13 343	13 469
Doctors ²⁾	2 802	...	3 141	3 186	3 235
Other workers by to professional qualifications – total	7 436	...	9 828	10 157	10 234
Higher education ³⁾	514	...	648	637	694
Post-secondary education	2 062	...	3 060	3 183	3 288
Secondary education	4 741	...	5 995	6 204	6 106
Primary education	119	...	125	133	146

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 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 2017

	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	6 435	5 184	1 251	5 599	836
Number of beds per 1 000 inhabitants	8.15	6.56	1.58	7.09	1.06
Number of doctors	2 382	2 334	48	2 271	111
Number of beds per one doctor	2.70	2.22	26.06	2.47	7.53
Number of discharged patients	261 779	250 356	11 423	248 963	12 816
Number of hospital treatment days	1 875 671	1 503 810	371 861	1 651 109	224 562
Average length of treatment	7.17	6.01	32.55	6.63	17.52
Annual bed occupancy	291	290	297	295	269
% of bed use	79.86	79.48	81.44	80.79	73.59
Number of patients per bed	40.68	48.29	9.13	44.47	15.33

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		
	2015	2016	2017	2015	2016	2017
Total	6 516	6 410	6 435	1 982	1 948	1 876
Internal	963	961	928	320	321	316
Pulmonology	183	183	181	60	59	59
Paediatrics	410	408	410	120	134	125
Surgery	733	715	777	213	209	219
Orthopaedics	134	134	135	36	31	29
Urology	136	132	141	43	43	43
Neurosurgery	102	106	105	36	39	39
Oncology	245	232	232	62	58	65
Gynaecology and maternity hospitals	614	618	603	155	166	150
Otorhinolaryngology	176	175	176	52	50	48
Ophthalmology	140	138	139	39	38	34
Neuropsychiatry	-	-	-	-	-	-
Dermatovenerology	66	63	64	16	16	13
Infectious diseases	188	180	180	51	48	46
Jaw surgery	-	-	-	-	-	-
Physical and medical rehabilitation	79	77	76	27	26	25
Nuclear medicine	-	-	-	-	-	-
Plastic surgery ³⁾	53	53	-	12	12	-
Psychiatry ²⁾	461	364	374	114	114	123
Maxillofacial surgery ²⁾	48	48	60	15	13	13
Neurology ²⁾	232	229	242	78	73	69
Child surgery ²⁾	120	119	122	26	23	21
Anaesthesiology, reanimation and intensive care ²⁾	254	252	239	69	71	68
Long-term treatment ²⁾	4	-	-	-	1	-
Chronic mental illness ²⁾	1 029	1 081	1 081	402	371	341
Chronic paediatric diseases ²⁾	40	40	40	16	5	5
Chronic pulmonary diseases ²⁾	80	80	100	19	20	17
Palliative care ²⁾	26	22	30	-	7	8

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.

³⁾ Since 2017 the beds have been presented in the surgery.

Source: Croatian Institute of Public Health

3.19 Hospital services in 2017

Hospitals – by location	Number of hospitals	Number of beds ¹⁾	Number of patients		In-patient days, thousands	Health workers and associates					
			Total	Deceased		Do-ctor ²⁾	Other workers by professional qualifications				
							Higher education ³⁾	Post-secondary education	Secondary education	Primary education	Total
Total	14 ⁴⁾	6 435	261 779	6 315	1 876	3 237	694	3 288	6 106	146	13 469
University Hospital Centre	2	2 944	146 013	2 951	876	1 807	363	1 872	3 261	58	7 359
University Hospital Centre Zagreb		1 795	89 903	1 654	511	1 072	245	972	2 107	44	4 440
Clinical Hospital Centre Sestre Milosrdnice		1 149	56 110	1 297	365	735	118	900	1 154	14	2 919
Clinical hospitals	3	1 487	70 001	2 365	421	963	138	818	1 678	74	3 671
Clinical Hospital Dubrava		622	27 551	1 213	184	432	61	340	744	54	1 631
Clinical Hospital Sveti Duh		484	21 562	862	143	280	50	236	565	-	1 131
Clinical Hospital Merkur ⁵⁾		381	20 888	290	94	251	27	242	369	20	909
Clinics	3	1 168	32 949	610	354	283	114	353	768	6	1 524
"Dr. Fran Mihaljević" Clinic		214	5 627	294	57	80	33	110	240	6	469
Psychiatric Clinic Vrapče		755	14 898	289	243	79	41	77	285	-	482
Clinic for Paediatric Disease		199	12 424	27	54	124	40	166	243	-	573
Special hospitals	6 ⁴⁾	836	12 816	389	225	184	79	245	399	8	915
Special Hospital for Pulmonary Diseases		100	773	248	18	20	2	26	61	6	115
Specialized Hospital for the Protection of Children with Neurological Development Impairment		60	2 512	-	16	11	25	76	50	1	163
Children's Hospital Srebrnjak		75	2 756	-	7	43	16	53	51	1	164
Psychiatric Hospital "Sveti Ivan"		551	5 735	141	173	54	26	49	147	-	276
Special Hospital for Children and Youth Psychiatry		37	588	-	9	19	9	12	28	-	68
Special Hospital Svjetlost ⁶⁾		20	-	2	18	-	40
Special Hospital Aksis ⁶⁾		4	-	3	5	-	12
Special Hospital Podobnik		13	452	-	2	5	1	2	18	-	26
Special Hospital "Arithera" ⁶⁾		8	-	22	21	-	51

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

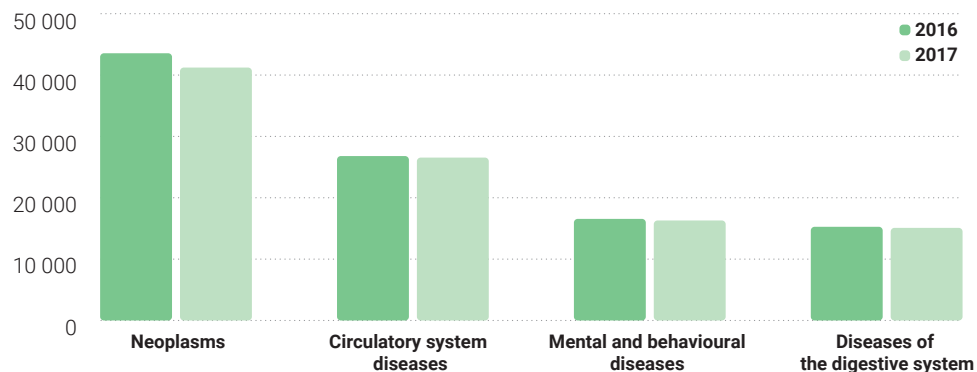
3.20 Hospitalisation of patients by disease groups

Disease group ¹⁾	Total number of admissions			Admissions of persons over the age of 65		
	Number of admissions		Share, %	Number of admissions		Share, %
	2016	2017	2017	2016	2017	2017
Total	216 965	230 562	100.0	74 902	76 210	100.00
Infectious and parasitic diseases	4 478	4 653	2.0	2 212	2 352	3.09
Neoplasms	43 553	41 275	17.9	17 628	16 876	22.14
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1 675	1 714	0.7	618	713	0.94
Endocrine, nutritional and metabolic diseases	7 506	7 841	3.4	2 470	2 797	3.67
Mental and behavioural disorders	16 557	16 287	7.1	2 575	2 595	3.41
Diseases of the nervous system	6 317	5 826	2.5	1 550	1 445	1.90
Diseases of the eye and adnexa	14 462	12 850	5.6	9 209	8 461	11.10
Diseases of the ear and mastoid process	1 330	1 310	0.6	214	161	0.21
Diseases of the circulatory system	26 797	26 641	11.6	15 296	15 390	20.19
Diseases of the respiratory system	12 984	12 868	5.6	3 918	4 219	5.54
Diseases of the digestive system	15 269	15 059	6.5	5 208	5 207	6.83
Diseases of the skin and subcutaneous tissue	2 560	2 621	1.1	628	735	0.96
Diseases of the musculoskeletal system and connective tissue	7 829	9 173	4.0	2 005	2 641	3.47
Diseases of the genitourinary system	11 914	12 564	5.4	3 921	4 159	5.46
Pregnancy, childbirth and the puerperium	4 802	12 960	5.6	-	-	-
Certain conditions originating in the perinatal period	2 386	3 355	1.5	-	-	-
Congenital malformations, deformations and chromosomal abnormalities	3 579	3 438	1.5	29	58	0.08
Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified	6 392	6 162	2.7	1 462	1 506	1.98
Injury, poisoning and certain other consequences of external causes	12 874	12 830	5.6	4 222	4 316	5.66
Factors influencing health status and contact with health services	13 701	21 135	9.2	1 737	2 579	3.38

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



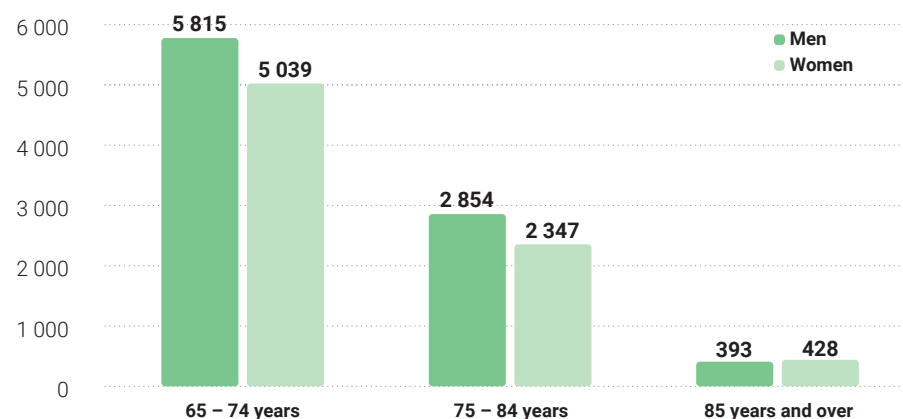
Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health

3.21 Hospitalisation of patients due to neoplasms

	Number of admissions			Indices	
	2015	2016	2017	$\frac{2016}{2015}$	$\frac{2017}{2016}$
Total	40 497	43 553	41 275	107.5	94.8
Age of patients					
0 – 64 years	24 852	25 925	24 399	104.3	94.1
65 and over	15 645	17 628	16 876	112.7	95.7

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 2017



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	
	2015	2016	2017	$\frac{2016}{2015}$	$\frac{2017}{2016}$
Total	25 287	26 797	26 641	106.0	99.4
Age of patients					
0 – 64 years	11 054	11 501	11 251	104.0	97.8
65 and over	14 233	15 296	15 390	107.5	100.6

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	
	2015	2016	2017	$\frac{2016}{2015}$	$\frac{2017}{2016}$
Total	17 328	16 557	16 287	95.6	98.4
Age of patients					
0 – 64 years	14 380	13 982	13 692	97.2	97.9
65 and over	2 948	2 575	2 595	87.3	100.8

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	
	2015	2016	2017	$\frac{2016}{2015}$	$\frac{2017}{2016}$
Total	14 643	15 269	15 059	104.3	98.6
Age of patients					
0 – 64 years	9 785	10 061	9 852	102.8	97.9
65 and over	4 858	5 208	5 207	107.2	100.0

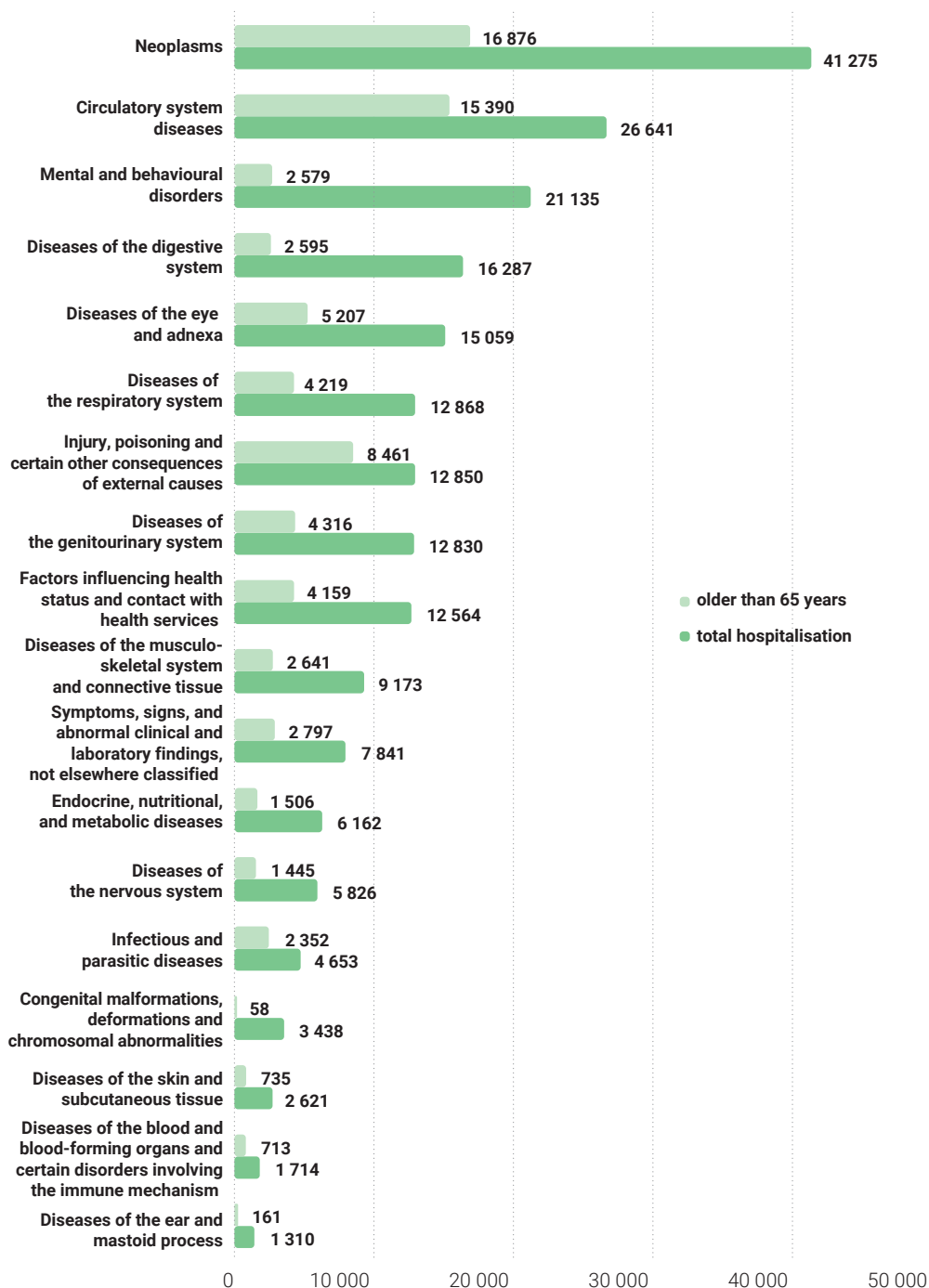
Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health; processing: City Office for the Strategic Planning and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

3.25 Main causes of hospitalisation of patients over the age of 65 by diagnoses in 2017

	Number of admissions			Share, %		
	Total	Men	Women	Total	Men	Women
Total	76 210	37 048	39 162	100.00	48.62	51.39
Diagnosis						
Senile cataract and other disorders of lens in diseases classified elsewhere	4 044	1 573	2 471	5.31	2.06	3.24
Cerebral infarction	1 863	824	1 039	2.44	1.08	1.36
Angina pectoris	1 704	1 018	686	2.24	1.34	0.90
Other types of sepsis	1 478	654	824	1.94	0.86	1.08
Acute myocardial infarction	1 369	727	669	1.80	0.95	0.88

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 3.3 Hospitalisation frequency ranking by disease groups in 2017



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, 130/17).

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.

Centers of gerontology in the City of Zagreb as part of their projects and activities have programs and activities for elderly persons who are not included in the institutional health care system.

The City of Zagreb is in charge of eleven homes for the elderly. The scope and intensity of accommodation services for adults provided by such homes are in line with the Ordinance on Minimum Requirements for the Provision of Social Services (Official Gazette 40/14 and 66/15). Pursuant to the Ordinance, social services are divided into four intensity levels of accommodation of elderly persons as follows:

- the first-level service is provided to a functionally independent beneficiary who can meet his/her needs independently and whose health condition does not call for engagement of others
- the second-level service is provided to a partially dependent beneficiary who needs assistance of others to meet his/her needs fully
- the third-level service is provided to a functionally dependent beneficiary who needs assistance of others to meet his/her needs fully
- the fourth-level service is provided to a beneficiary who needs assistance and supervision of others to meet his/her needs fully due to Alzheimer's or other types of dementia (moderate/moderately severe stage).

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.

Cash assistance for a newborn child is a one-time cash assistance and may be used by all persons who have health insurance, under the conditions set out in the Maternity and Parental Assistance Act.

Cash assistance for the equipment of a newborn child is provided by the City of Zagreb within the City's pronatalist policy and based on the Decision on cash assistance for the equipment of a newborn child, which determines the conditions, the amount of cash assistance, and the way of exercising the right to cash assistance for a newborn child.

4.1 Social benefits and services of the City of Zagreb

Type of benefit	Number of beneficiaries				
	2013	2014	2015	2016	2017
Allowance					
For Social Protection and People with Disabilities	12 832	12 590	12 223	11 766	11 731
For supplementary health insurance premium (measure from 2016)	-	-	-	3 116	3 351
For beneficiaries of basic needs allowance and for beneficiaries of disability allowance	9 137	10 186	10 426	10 826	11 405
For personal needs (personal allowance) for beneficiaries of homes for the elderly and the disabled	334	355	363	350	320
For persons with recognised status of parent caregiver, or the status of caregiver (measure from 2015)	-	-	32	46	61
Allowance for housing costs	2 149	2 564	2 765	2 960	2 783
For heating costs	914	1 426	2 020	2 327	2 161
Other benefits and services					
Provision of dairy products for children	139	107	111	82	50
Provision of "family packages" containing groceries and household supplies	805	878	446	355	308
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	1 187	1 185	1 070
Meals in soup kitchens	4 777	4 837	4 529	3 987	3 154
Entitlement to free transit pass by ZET	85 188	85 986	86 406	81 637	82 898
House help	464	472	478	504	501
Coverage of funeral expenses	24	16	25	44	35
Health care for persons without health insurance	3 185	2 865	3 036	2 725	2 709

Source: City Office for Social Protection and People with Disabilities

4.2 Protection of persons with disabilities

Type of benefit	Number of uses				
	2013	2014	2015	2016	2017
Recreational and therapeutic vacation programmes for people with disabilities and children with developmental difficulties	280	280	400	382	396
Entitlement to free transit pass by ZET – people with disabilities	11 634	12 315	12 237	12 306	12 250
Entitlement to free transportation of persons with disabilities and children with developmental difficulties	700	1 000	1 100	1 300	1 402
Dental health care for children and adults with disabilities	1 387	1 498	1 085	1 323	1 250
Day Care Centre for Rehabilitation of Children and Young Adults "Mali Dom"	285	408	370	261	390
Rehabilitation Centre "Silver"	122	264	272	345	467

Source: City Office for Social Protection and People with Disabilities

4.3. Centers of gerontology of the City of Zagreb

Type of benefit	Number of beneficiaries			
	2014	2015	2016	2017
In-home assistance	...	...	110	146
Individual and group counselling	1 073	926	1 132	841
Sports and recreation groups	1 821	1 904	2 045	1 751
Cultural/entertainment and working/creative groups	2 382	2 060	1 641	1 748
Public discussions and lectures	1 915	2 002	2 040	1 945
Various activities and manifestations	9 555	5 403	5 552	5 267

Source: CO for Social Protection and People with Disabilities

4.4. Beneficiaries of homes for the elderly

Status as of 31 December

Homes for the elderly	Total			First-level service			Second-level service			Third-level service			Fourth-level service		
	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017
Total	3 720	3 687	3 945	1 421	1 504	1 617	1 043	923	913	1 244	1 248	1 396	12	12	19
Centar	350	352	350	137	140	144	54	70	59	159	142	147	-	-	-
Dubrava	126	126	124	40	55	42	43	38	36	43	33	46	-	-	-
Ksaver	248	241	252	111	127	133	33	22	34	104	92	85	-	-	-
Maksimir	420	415	553	44	87	226	226	120	119	150	208	208	-	-	-
Medveščak	372	372	358	235	235	236	40	42	26	85	83	84	12	12	12
Park	176	173	301	61	60	116	66	63	64	49	50	114	-	-	7
Peščenica	331	334	334	135	134	132	53	61	66	143	139	136	-	-	-
Sveta Ana	306	309	310	106	106	131	149	149	107	51	54	72	-	-	-
Sveti Josip	379	353	353	169	155	153	150	144	133	60	54	67	-	-	-
Trešnjevka	622	622	620	208	224	130	125	123	153	289	275	337	-	-	-
Trnje	390	390	390	175	181	174	104	91	116	111	118	100	-	-	-

Source: CO for Social Protection and People with Disabilities

4.5. Governmental benefits for children

	Children's allowance				Number of paid baby bonuses ¹⁾
	Number of beneficiaries	Number of children	Paid children's allowance, thousands of HRK	Average annual allowance per child, HRK	
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	10 993
2017	19 049	36 081	180 082	4 991	10 783

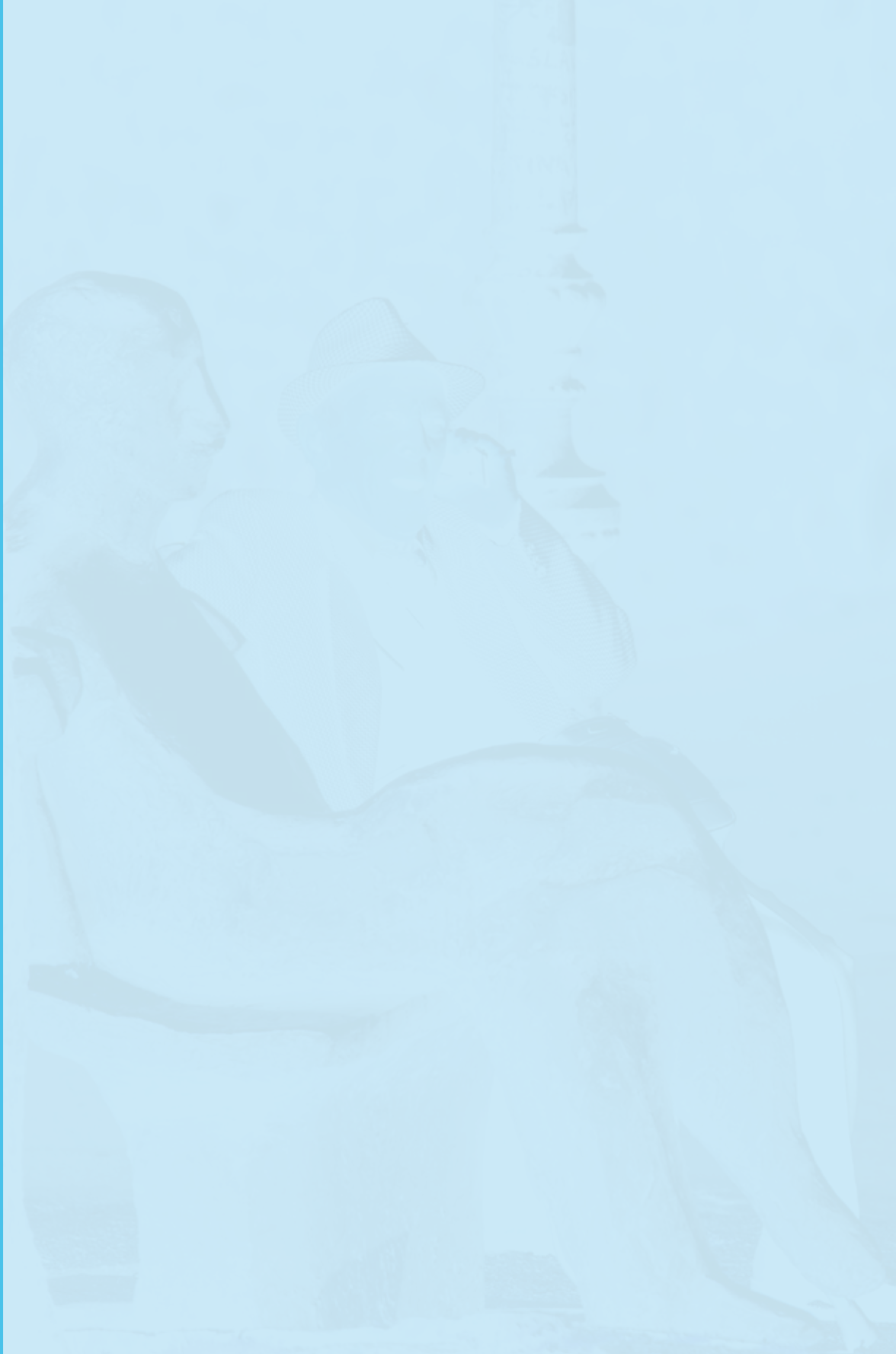
¹⁾ See Notes on Methodology.

Source: Croatian Pension Insurance Institute and Croatian Health Insurance Fund

4.6. Baby bonuses

	Number of paid baby bonuses to entitled beneficiaries	Sex, %	
		Male	Female
2013	24 961	43	57
2014	23 774	42	58
2015	22 414	42	58
2016	22 012	43	57
2017	22 030	43	57

Source: CO for Social Protection and People with Disabilities



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

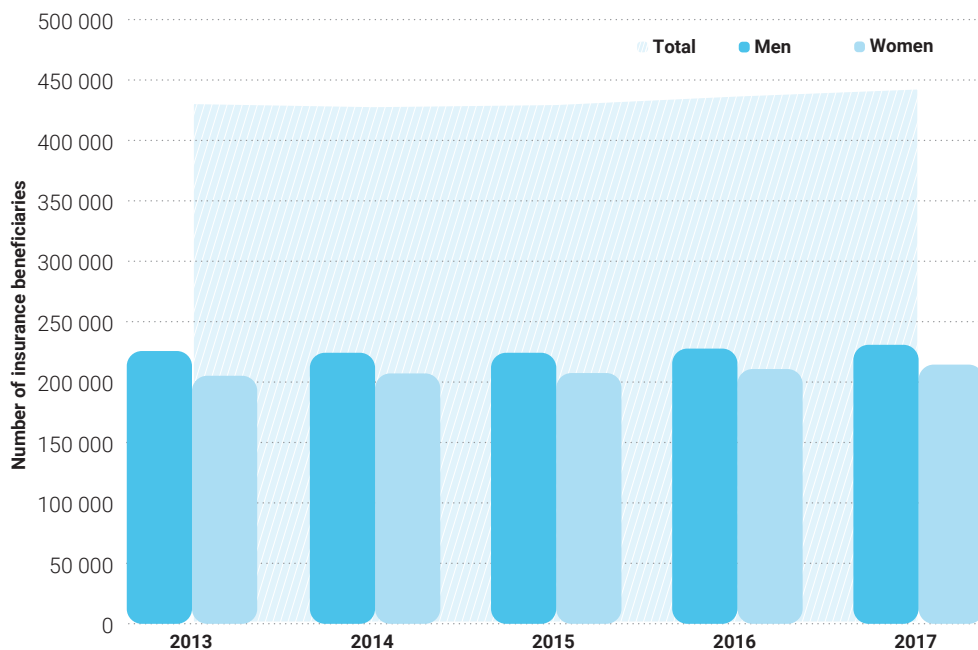
Status as of 31 December

	Number of insurance beneficiaries					
	2016			2017		
	Total	Men	Women	Total	Men	Women
Total	437 060	226 870	210 190	442 926	229 563	213 363
Employed persons and persons of equal status	422 244	218 128	204 116	427 603	220 545	207 058
Craftsmen and professional services	14 316	8 429	5 887	14 802	8 688	6 114
Farmers	500	313	187	521	330	191

Source: Croatian Pension Insurance Institute

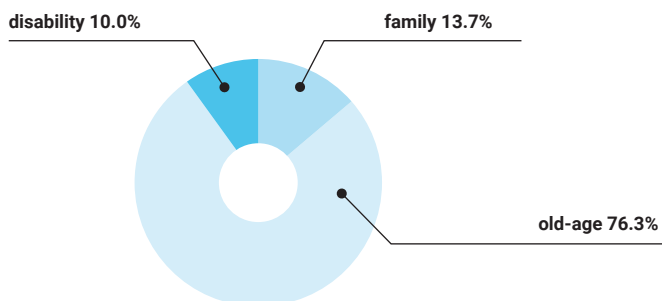
G 5.1 Insurance beneficiaries by sex

Status as of 31 December



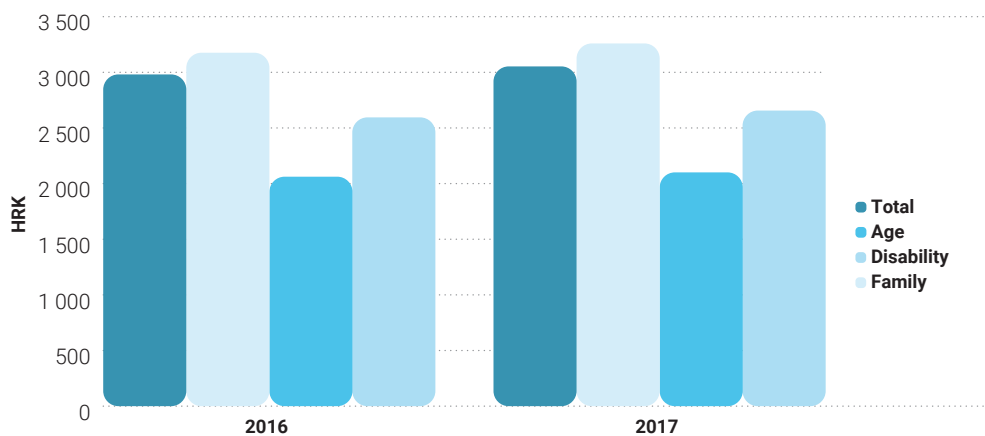
G 5.2 Pension beneficiaries by type of pension

Status as of 31 December 2017

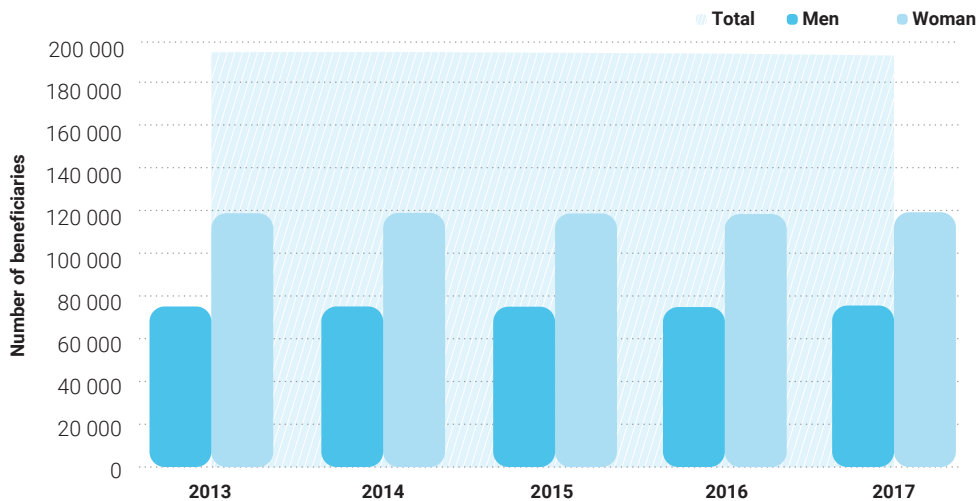


G 5.3 Average pension by type of pension

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

	2016 ³⁾			2017 ³⁾		
	Total	Men	Women	Total	Men	Women
Total						
Number of beneficiaries	195 943	75 904	120 039	195 059	75 551	119 508
Average length of service	32	34	31	32	34	31
Average monthly pension in HRK ¹⁾	2 981	3 289	2 786	3 066	3 381	2 866
Old-age pension						
Number of beneficiaries	148 458	61 706	86 752	148 852	61 744	87 108
Average length of service	34	36	32	34	36	32
Average monthly pension in HRK ¹⁾	3 176	3 545	2 914	3 262	3 637	2 996
Disability pension						
Number of beneficiaries	20 219	11 642	8 577	19 436	11 213	8 223
Average length of service	22	23	22	22	23	21
Average monthly pension in HRK ¹⁾	2 062	2 195	1 881	2 108	2 248	1 917
Family pension²⁾						
Number of beneficiaries	27 266	2 556	24 710	26 771	2 594	24 177
Average length of service	31	25	32	31	25	32
Average monthly pension in HRK ¹⁾	2 595	2 086	2 648	2 668	2 168	2 722

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).

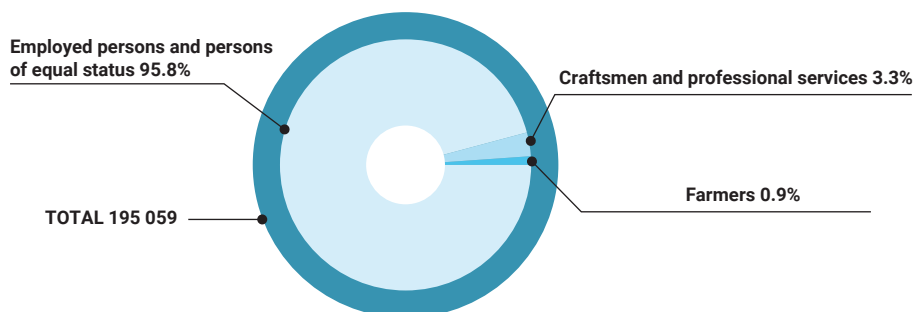
²⁾ Regarding family pensions, sex refers to the person (heir) to whom the pension is paid, while length of service refers to beneficiaries from whom the pension rights have been inherited.

³⁾ See Notes on Methodology.

Source: Croatian Pension Insurance Institute

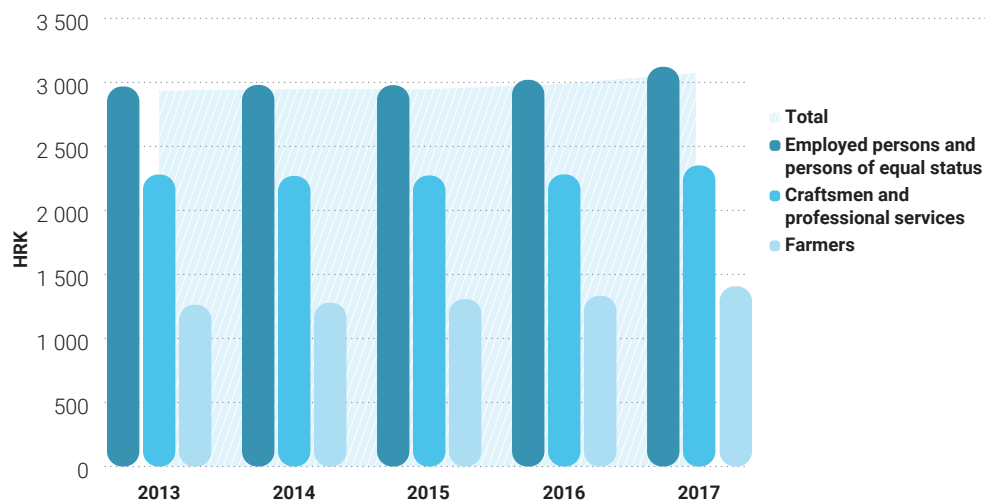
G 5.5 Pension beneficiaries by insurance eligibility criteria

Status as of 31 December 2017



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

	2016 ³⁾			2017 ³⁾		
	Total	Men	Women	Total	Men	Women
Employed persons and persons of equal status						
Total						
Number of beneficiaries	187 835	71 626	116 209	186 987	71 287	115 700
Average length of service	32	34	31	32	34	31
Average monthly pension in HRK ¹⁾	3 020	3 345	2 819	3 106	3 439	2 900
Age pension						
Number of beneficiaries	142 559	58 422	84 137	142 910	58 419	84 491
Average length of service	34	36	32	34	36	32
Average monthly pension in HRK ¹⁾	3 218	3 605	2 950	3 305	3 700	3 031
Disability pension						
Number of beneficiaries	18 974	10 753	8 221	18 260	10 372	7 888
Average length of service	22	23	22	22	23	21
Average monthly pension in HRK ¹⁾	2 075	2 215	1 892	2 122	2 269	1 927
Family pension²⁾						
Number of beneficiaries	26 302	2 451	23 851	25 817	2 496	23 321
Average length of service	31	25	32	31	25	32
Average monthly pension in HRK ¹⁾	2 626	2 114	2 678	2 700	2 195	2 754

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

(Continued)

Status as of 31 December

	2016 ³⁾			2017 ³⁾		
	Total	Men	Women	Total	Men	Women
Craftsmen						
Total						
Number of beneficiaries	6 348	3 797	2 551	6 389	3 804	2 585
Average length of service	30	31	28	30	31	28
Average monthly pension in HRK ¹⁾	2 281	2 447	2 033	2 333	2 503	2 083
Old-age pension						
Number of beneficiaries	4 437	2 892	1 545	4 539	2 950	1 589
Average length of service	32	34	29	32	34	30
Average monthly pension in HRK ¹⁾	2 453	2 617	2 146	2 503	2 667	2 199
Disability pension						
Number of beneficiaries	1 103	811	292	1 044	766	278
Average length of service	23	23	21	22	23	21
Average monthly pension in HRK ¹⁾	1 870	1 954	1 637	1 899	1 983	1 666
Family pension²⁾						
Number of beneficiaries	808	94	714	806	88	718
Average length of service	27	19	28	27	18	28
Average monthly pension in HRK ¹⁾	1 895	1 483	1 949	1 937	1 526	1 988
Farmers						
Total						
Number of beneficiaries	1 760	481	1 279	1 683	460	1 223
Average length of service	21	24	20	22	25	20
Average monthly pension in HRK ¹⁾	1 333	1 537	1 256	1 396	1 627	1 309
Old-age pension						
Number of beneficiaries	1 462	392	1 070	1 403	375	1 028
Average length of service	22	25	21	22	25	21
Average monthly pension in HRK ¹⁾	1 318	1 469	1 263	1 381	1 562	1 315
Disability pension						
Number of beneficiaries	142	78	64	132	75	57
Average length of service	21	23	20	21	23	19
Average monthly pension in HRK ¹⁾	1 813	1 953	1 642	1 895	2 033	1 713
Family pension²⁾						
Number of beneficiaries	156	11	145	148	10	138
Average length of service	15	19	15	16	18	16
Average monthly pension in HRK ¹⁾	1 030	987	1 033	1 092	1 031	1 096

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

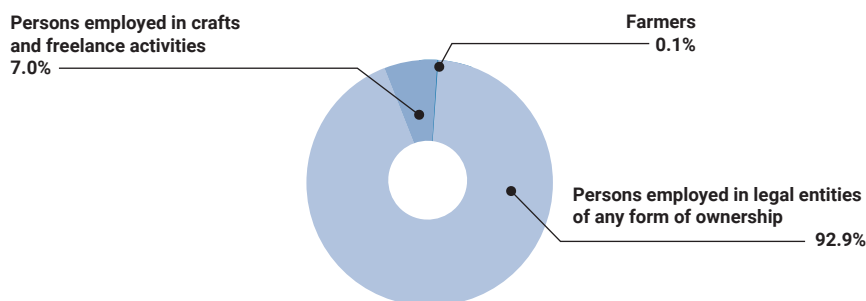
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	421 585	424 263	408 864	397 365	398 890	390 469	383 967	389 888	401 639	412 992
Persons employed in legal entities of any form of ownership ¹⁾	374 108	378 938	367 764	359 430	362 889	356 065	351 919	359 288	371 631	383 469
Persons employed in crafts and freelance activities	46 725	44 635	40 479	37 348	35 426	33 864	31 521	30 082	29 502	29 008
Farmers	752	690	621	587	575	540	527	518	506	515
Women	350	318	283	249	228	214	198	208	197	188

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

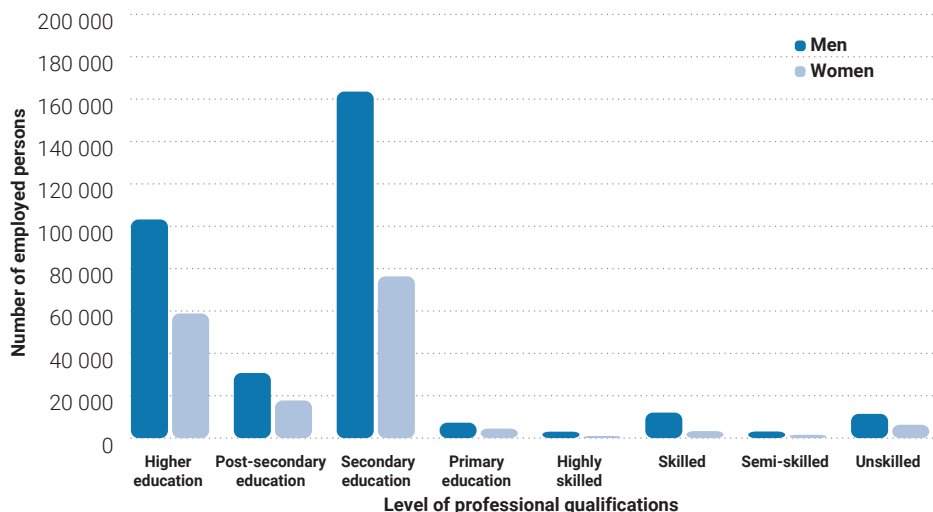
G 6.1 Employed persons,

Status as of 31 March 2017



G 6.2 Employed persons by level of professional qualifications and sex,

Status as of 31 March 2017



6.2 Employed persons¹⁾ by National Classification of Activities (NCA) 2007 sections and sex

Status as of 31 March

		2013		2014		2015		2016		2017	
		Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL		390 469	191 228	383 967	186 826	389 888	194 630	401 639	198 319	412 992	202 319
A	Agriculture, forestry, and fishing	1 746	455	1 786	658	1 719	649	1 723	701	1 782	686
B	Mining and quarrying	1 365	305	1 433	291	1 163	281	992	274	874	236
C	Manufacturing	44 403	15 879	41 393	14 428	41 081	14 881	42 966	15 191	44 037	15 166
D	Electricity, gas, steam, and air conditioning supply	3 366	926	3 390	954	3 411	997	3 276	1 024	3 427	1 072
E	Water supply; sewerage, waste management, and remediation activities	3 890	603	3 734	541	3 459	502	3 666	521	3 984	641
F	Construction	23 878	3 273	23 718	2 789	21 670	2 605	22 486	2 641	22 919	2 640
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	70 193	35 446	71 338	35 778	69 636	35 582	72 378	37 512	74 028	37 593
H	Transportation and storage	21 070	5 469	19 451	5 094	19 358	4 988	20 038	5 287	20 761	5 066
I	Accommodation and food service activities	14 488	6 899	14 786	7 203	14 764	7 059	16 174	7 263	17 937	8 365
J	Information and communication	21 346	8 663	22 368	8 969	22 174	8 937	23 161	8 989	23 320	9 038
K	Financial and insurance activities	20 340	13 478	19 422	12 933	20 040	13 349	19 966	13 361	20 261	13 498
L	Real estate activities	3 996	2 181	4 075	2 346	3 501	1 883	4 155	1 926	4 495	2 185
M	Professional, scientific, and technical activities	31 482	16 002	32 326	16 059	34 044	17 602	34 162	17 140	35 723	17 733
N	Administrative and support service activities	16 965	7 365	17 576	7 720	20 822	9 244	22 151	9 784	23 950	10 940
O	Public administration and defence; compulsory social security	34 822	18 224	33 872	17 772	33 924	17 988	34 507	18 524	34 429	18 321
P	Education	28 315	21 245	27 717	20 824	28 769	21 649	29 329	22 110	28 914	21 844
Q	Human health and social work activities	28 588	22 492	27 460	21 562	29 668	23 778	29 759	23 140	31 161	24 156
R	Arts, entertainment, and recreation	9 433	5 031	8 795	4 726	9 522	5 126	9 323	4 968	9 677	5 131
S	Other service activities	10 048	6 652	8 665	5 606	10 614	7 073	11 014	7 623	10 990	7 754
T	Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	712	629	644	564	524	443	396	328	309	246
	Persons unclassified by activities	23	11	18	9	25	14	17	12	14	8

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).

6.3 Persons employed¹⁾ in legal entities by NCA 2007 sections and sex

Status as of 31 March

		2013		2014		2015		2016		2017	
		Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL		356 065	174 894	351 919	171 444	359 288	179 832	371 631	183 699	383 469	187 986
A	Agriculture, forestry, and fishing	1 059	401	1 099	396	1 050	388	1 100	438	1 139	441
B	Mining and quarrying	1 356	304	1 428	290	1 158	280	987	273	869	235
C	Manufacturing	39 354	13 593	36 915	12 501	36 897	13 042	38 942	13 417	40 205	13 486
D	Electricity, gas, steam, and air conditioning supply	3 366	926	3 390	954	3 411	997	3 276	1 024	3 427	1 072
E	Water supply; sewerage, waste management, and remediation activities	3 877	601	3 721	538	3 447	499	3 654	518	3 973	639
F	Construction	21 340	3 060	21 452	2 603	19 645	2 439	20 488	2 490	20 941	2 499
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	65 709	33 417	67 228	33 931	65 831	33 897	68 739	35 871	70 643	36 087
H	Transportation and storage	18 988	5 374	17 363	4 996	17 294	4 898	17 959	5 203	18 673	4 978
I	Accommodation and food service activities	9 799	4 704	10 690	5 294	10 975	5 311	12 535	5 575	14 478	6 707
J	Information and communication	20 911	8 558	21 947	8 865	21 754	8 830	22 720	8 873	22 808	8 906
K	Financial and insurance activities	20 267	13 445	19 365	12 908	19 983	13 324	19 872	13 316	20 140	13 436
L	Real estate activities	3 902	2 133	3 995	2 307	3 416	1 844	4 079	1 886	4 413	2 141
M	Professional, scientific, and technical activities	26 889	13 374	27 871	13 470	29 668	15 100	29 804	14 642	31 287	15 203
N	Administrative and support service activities	16 257	6 996	16 908	7 372	20 086	8 824	21 355	9 316	23 170	10 498
O	Public administration and defence; compulsory social security	34 279	17 992	33 369	17 540	33 445	17 766	34 073	18 347	34 007	18 164
P	Education	28 216	21 213	27 604	20 784	28 630	21 597	29 166	22 035	28 723	21 747
Q	Human health and social work activities	26 055	20 479	25 070	19 666	27 321	21 906	27 393	21 252	28 758	22 235
R	Arts, entertainment, and recreation	8 004	4 516	7 329	4 209	8 122	4 624	7 981	4 486	8 353	4 639
S	Other service activities	6 437	3 808	5 175	2 820	7 155	4 266	7 508	4 736	7 462	4 873

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

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

Status as of 31 March

		2013		2014		2015		2016		2017	
		Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL		33 864	16 334	31 521	15 184	30 082	14 590	29 502	14 412	29 008	14 145
A	Agriculture, forestry, and fishing	147	54	160	64	151	53	117	55	128	57
B	Mining and quarrying	9	1	5	1	5	1	5	1	5	1
C	Manufacturing	5 049	2 286	4 478	1 927	4 184	1 839	4 024	1 774	3 832	1 680
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management and, remediation activities	13	2	13	3	12	3	12	2	11	2
F	Construction	2 538	213	2 266	186	2 025	166	1 998	151	1 978	141
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	4 484	2 029	4 110	1 847	3 805	1 685	3 639	1 641	3 385	1 506
H	Transportation and storage	2 082	95	2 088	98	2 064	90	2 079	84	2 088	88
I	Accommodation and food service activities	4 689	2 195	4 096	1 909	3 789	1 748	3 639	1 688	3 459	1 658
J	Information and communication	435	105	421	104	420	107	441	116	512	132
K	Financial and insurance activities	73	33	57	25	57	25	94	45	121	62
L	Real estate activities	94	48	80	39	85	39	76	40	82	44
M	Professional, scientific, and technical activities	4 593	2 628	4 455	2 589	4 376	2 502	4 358	2 498	4 436	2 530
N	Administrative and support service activities	708	369	668	348	736	420	796	468	780	442
O	Public administration and defence; compulsory social security	543	232	503	232	479	222	434	177	422	157
P	Education	99	32	113	40	139	52	163	75	191	97
Q	Human health and social work activities	2 533	2 013	2 390	1 896	2 347	1 872	2 366	1 888	2 403	1 921
R	Arts, entertainment, and recreation	1 429	515	1 466	517	1 400	502	1 342	482	1 324	492
S	Other service activities	3 611	2 844	3 490	2 786	3 459	2 807	3 506	2 887	3 528	2 881
T	Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	712	629	644	564	524	443	396	328	309	246
	Persons unclassified by activities	23	11	18	9	25	14	17	12	14	8

Source: CBS; processing: 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

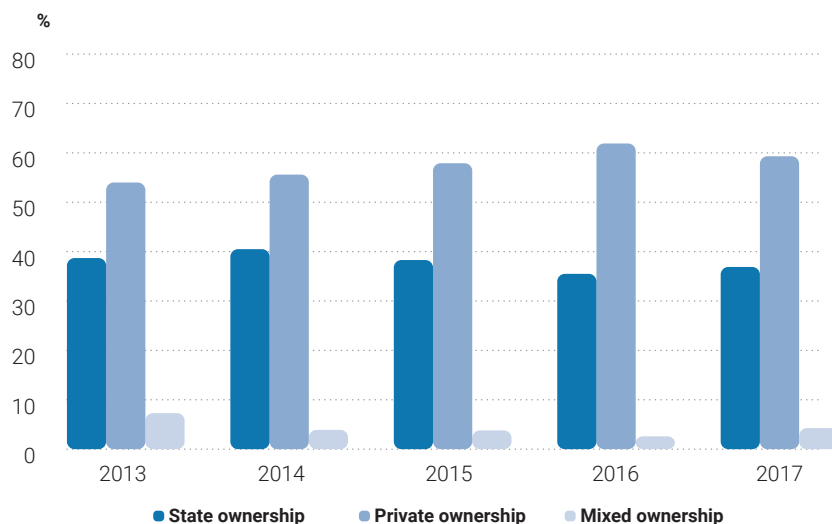
Status as of 31 March

	2013	2014	2015	2016	2017
	Number of employed persons				
Total	321 406	312 922	318 472	342 042	335 870
State ownership	124 435	126 786	122 063	121 538	123 685
Private ownership	173 593	173 771	184 431	211 718	198 329
Co-operative ownership	73	48	47	61	33
Mixed ownership	23 305	12 317	11 931	8 725	13 823
	Share of employed persons, %				
Total	100.0	100.0	100.0	100.0	100.0
State ownership	38.7	40.5	38.3	35.5	36.8
Private ownership	54.0	55.6	57.9	61.9	59.1
Co-operative ownership	0.0	0.0	0.0	0.0	0.0
Mixed ownership	7.3	3.9	3.8	2.6	4.1

Source: CBS; processing: 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

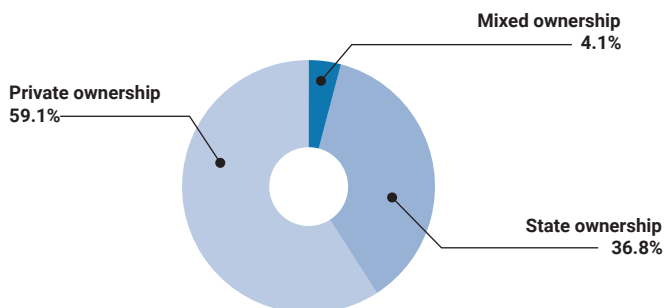
Status as of 31 March 2017

		Total	Ownership type			
			State	Private	Co-operative	Mixed
Total		335 870	123 685	198 329	33	13 823
A	Agriculture, forestry, and fishing	874	277	597	-	-
B	Mining and quarrying	840	-	93	-	747
C	Manufacturing	35 539	2702	29 430	2	3 405
D	Electricity, gas, steam, and air conditioning supply	3 306	3 007	148	-	151
E	Water supply; sewerage, waste management, and remediation activities	3 858	2 698	1 160	-	-
F	Construction	16 602	2 474	13 719	-	409
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	60 055	801	58 180	19	1 055
H	Transportation and storage	17 259	6 770	6 110	-	4 379
I	Accommodation and food service activities	9 730	2 287	7 256	-	187
J	Information and communication	19 305	3 500	15 664	-	141
K	Financial and insurance activities	19 449	3 043	15 669	-	737
L	Real estate activities	3 465	752	2 713	-	-
M	Professional, scientific, and technical activities	22 816	4 316	17 967	-	533
N	Administrative and support service activities	21 031	2 138	18 893	-	-
O	Public administration and defence; compulsory social security	33 977	33 574	83	-	320
P	Education	27 960	25 472	2 119	-	369
Q	Human health and social work activities	27 958	24 213	3 184	4	557
R	Arts, entertainment, and recreation	7 211	4 539	2 318	-	354
S	Other service activities	4 635	1 122	3 026	8	479

Source: CBS; processing: 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 2017



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

Status as of 31 March

	2013	2014	2015	2016	2017
Total	321 273	312 435	318 472	342 042	335 870
Higher education	92 879	92 502	97 340	105 111	103 563
Doctors of Science	5 948	5 983	6 447	7 270	6 533
Masters of Science	4 316	4 310	4 731	4 799	3 894
Other	82 615	82 209	86 162	93 042	93 136
Post-secondary education	27 907	27 349	28 148	30 396	30 650
Secondary education	154 919	150 579	153 815	167 859	164 050
Primary education	8 151	7 364	7 641	7 273	7 676
Highly skilled	4 352	4 178	3 576	3 288	3 099
Skilled	16 145	14 500	13 358	13 274	12 264
Semi-skilled	4 149	4 073	3 249	2 850	2 946
Unskilled	12 771	11 890	11 345	11 991	11 622
Women	161 230	156 693	161 099	172 529	170 212
Higher education	52 302	52 256	55 184	59 691	59 209
Doctors of Science	2 859	2 904	3 140	3 554	3 242
Masters of Science	2 293	2 312	2 590	2 600	2 165
Other	47 150	47 040	49 454	53 537	53 802
Post-secondary education	16 327	16 276	16 773	18 122	18 115
Secondary education	74 029	71 009	72 922	78 257	76 406
Primary education	4 969	4 588	4 662	4 647	4 771
Highly skilled	576	543	496	546	605
Skilled	4 310	3 898	3 577	3 544	3 362
Semi-skilled	1 930	1 839	1 333	1 117	1 000
Unskilled	6 787	6 284	6 152	6 605	6 744
Total	100.0	100.0	100.0	100.0	100.0
Higher education	28.9	29.6	30.6	30.7	30.8
Doctors of Science	1.9	1.9	2.0	2.1	1.9
Masters of Science	1.3	1.4	1.5	1.4	1.2
Other	25.7	26.3	27.1	27.2	27.7
Post-secondary education	8.7	8.8	8.8	8.9	9.1
Secondary education	48.2	48.2	48.3	49.1	48.8
Primary education	2.5	2.4	2.4	2.1	2.3
Highly skilled	1.4	1.3	1.1	1.0	0.9
Skilled	5.0	4.6	4.2	3.9	3.7
Semi-skilled	1.3	1.3	1.0	0.8	0.9
Unskilled	4.0	3.8	3.6	3.5	3.5

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

(Continued)

Status as of 31 March

	2013	2014	2015	2016	2017
Women	50.2	50.2	50.6	50.4	50.7
Higher education	16.3	16.7	17.3	17.5	17.6
Doctors of Science	0.9	0.9	1.0	1.0	1.0
Masters of Science	0.7	0.7	0.8	0.8	0.6
Other	14.7	15.1	15.5	15.7	16.0
Post-secondary education	5.1	5.2	5.3	5.3	5.4
Secondary education	23.0	22.7	22.9	22.9	22.8
Primary education	1.6	1.5	1.5	1.4	1.4
Highly skilled	0.2	0.2	0.2	0.2	0.2
Skilled	1.3	1.3	1.1	1.0	1.0
Semi-skilled	0.6	0.6	0.4	0.3	0.3
Unskilled	2.1	2.0	1.9	1.9	2.0

Source: CBS; processing: 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 2017

		Total	Level of professional qualifications										
			Higher education				Post-secon- dary education	Secondary education	Primary edu- cation	Highly skilled	Skilled	Semi-skilled	Unskilled
			Total	Doctors of Science	Masters of Science	Other							
Total		335 870	103 563	6 533	3 894	93 136	30 650	164 050	7 676	3 099	12 264	2 946	11 622
A	Agriculture, forestry, and fishing	874	320	7	23	290	38	280	63	9	39	22	103
B	Mining and quarrying	840	410	6	26	378	57	301	4	26	38	-	4
C	Manufacturing	35 539	7 508	120	423	6 965	2 076	19 153	1 195	659	2 445	561	1 942
D	Electricity, gas, steam, and air conditioning supply	3 306	1 172	16	98	1 058	304	1 242	33	356	115	21	63
E	Water supply; sewerage, waste management, and remediation activities	3 858	289	2	24	263	169	1 848	154	207	445	527	219
F	Construction	16 602	1 890	14	28	1 848	996	8 491	449	234	2 445	639	1 458
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	60 055	10 704	37	246	10 421	3 780	40 855	942	310	1 861	162	1 441

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

(Continued)

Status as of 31 March 2017

		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							
H	Transportation and storage	17 259	2 473	46	56	2 371	1 236	11 335	590	270	1 047	109	199
I	Accommodation and food service activities	9 730	679	-	16	663	278	6 808	333	148	576	222	686
J	Information and communication	19 305	9 545	34	189	9 322	2 181	7 243	77	95	85	16	63
K	Financial and insurance activities	19 449	9 517	38	372	9 107	2 377	7 367	91	16	53	4	24
L	Real estate activities	3 465	617	-	15	602	295	1 829	127	22	178	56	341
M	Professional, scientific, and technical activities	22 816	12 929	1 259	413	11 257	1 913	7 185	179	144	240	27	199
N	Administrative and support service activities	21 031	2 092	4	27	2 061	1 073	13 833	773	123	599	93	2 445
O	Public administration and defence; compulsory social security	33 977	15 642	307	757	14 578	3 073	13 891	286	123	688	82	192
P	Education	27 960	15 866	3 164	431	12 271	5 354	4 141	600	189	604	66	1 140
Q	Human health and social work activities	27 958	8 007	1 367	537	6 103	4 615	12 168	1 438	134	521	204	871
R	Arts, entertainment, and recreation	7 211	2 352	85	112	2 155	467	3 853	256	24	109	23	127
S	Other service activities	4 635	1 551	27	101	1 423	368	2 227	86	10	176	112	105

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 2017

Status as of 01 March 2014

		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		170 212	59 209	3 242	2 165	53 802	18 115	76 406	4 771	605	3 362	1 000	6 744
A	Agriculture, forestry, and fishing	401	110	2	9	99	21	139	37	-	11	17	66
B	Mining and quarrying	223	153	3	15	135	17	48	2	-	2	-	1
C	Manufacturing	12 755	3 382	59	210	3 113	650	6 437	617	88	521	232	828
D	Electricity, gas, steam, and air conditioning supply	1 048	490	3	43	444	121	373	23	1	7	3	30
E	Water supply; sewerage, waste management, and remediation activities	628	124	-	12	112	58	321	34	-	23	27	41
F	Construction	2 061	596	4	10	582	257	984	57	5	45	19	98
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	32 233	5 969	21	146	5 802	1 846	22 127	472	170	897	70	682
H	Transportation and storage	4 731	1 141	23	15	1 103	528	2 793	159	8	44	22	36
I	Accommodation and food service activities	5 310	360	-	6	354	153	3 444	252	68	302	179	552
J	Information and communication	7 561	4 158	12	83	4 063	723	2 593	31	6	23	6	21
K	Financial and insurance activities	13 070	6 112	15	232	5 865	1 522	5 314	71	2	28	4	17
L	Real estate activities	1 610	325	-	7	318	148	753	84	7	67	33	193

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

(Continued)

Status as of 31 March 2017

		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	11 121	6 563	702	180	5 681	834	3 434	109	30	54	1	96
N	Administrative and support service activities	9 161	1 184	2	16	1 166	491	4 708	521	39	213	41	1 964
O	Public administration and defence; compulsory social security	18 108	9 379	151	414	8 814	1 525	6 557	255	39	207	40	106
P	Education	21 495	11 246	1 469	282	9 495	4 941	3 106	574	70	408	59	1 091
Q	Human health and social work activities	21 756	5 559	713	355	4 491	3 861	9 772	1 218	62	325	195	764
R	Arts, entertainment, and recreation	4 182	1 402	55	78	1 269	227	2 204	190	9	57	12	81
S	Other service activities	2 758	956	8	52	896	192	1 299	65	1	128	40	77

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

	2010	2011	2012	2013	2014	2015	2016	2017
	Number of employed persons							
Total	343 194	327 988	329 635	321 273	312 556	318 472	342 042	335 870
up to 18 years of age	124	109	115	95	93	140	294	263
19 – 24	17 242	14 438	13 114	11 272	10 450	11 403	13 979	14 651
25 – 29	47 652	42 459	40 938	37 068	33 562	34 236	37 207	36 381
30 – 34	55 535	53 683	53 639	52 319	49 950	50 235	52 635	50 075
35 – 39	51 756	50 417	51 330	51 133	49 864	51 072	55 548	53 777
40 – 44	46 145	44 621	45 189	45 130	44 929	46 456	49 953	48 658
45 – 49	43 432	42 340	42 715	41 934	41 631	41 835	43 601	42 466
50 – 54	40 132	38 912	39 066	38 396	37 771	37 925	39 926	39 625
55 – 59	28 230	27 853	28 820	28 880	29 185	29 925	31 955	32 564
60 – 64	11 661	11 881	13 275	13 621	13 701	13 763	15 249	15 710
65 years and more	1 285	1 275	1 434	1 425	1 420	1 482	1 695	1 700

6.10 Persons employed in legal entities by age and sex

(Continued)

Status as of 31 March

	2010	2011	2012	2013	2014	2015	2016	2017
Number of employed persons								
Women	167 598	161 851	164 150	161 230	156 693	161 099	172 529	170 212
up to 18 years of age	60	58	57	23	32	52	109	101
19 – 24	7 589	6 436	5 711	4 922	4 232	4 734	5 763	6 141
25 – 29	22 956	20 748	20 098	18 348	16 306	16 983	18 324	18 008
30 – 34	27 272	26 528	26 674	25 940	24 802	25 357	26 364	24 899
35 – 39	25 508	24 957	25 699	25 621	25 097	25 786	27 885	27 106
40 – 44	23 495	22 839	23 123	23 231	22 973	23 594	25 427	25 028
45 – 49	22 626	22 198	22 576	22 214	22 014	22 188	23 095	22 663
50 – 54	21 097	20 845	21 185	20 975	20 509	20 661	21 664	21 601
55 – 59	12 094	12 168	13 245	13 800	14 247	15 141	16 547	16 889
60 – 64	4 533	4 674	5 324	5 689	5 995	6 106	6 793	7 195
65 years and more	368	400	458	467	486	497	558	581
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	5.1	4.4	4.0	3.5	3.4	3.6	4.2	4.4
25 – 29	13.9	13.0	12.4	11.5	10.7	10.8	10.9	10.8
30 – 34	16.2	16.4	16.3	16.3	16.0	15.8	15.4	14.9
35 – 39	15.1	15.4	15.6	15.9	16.0	16.0	16.2	16.1
40 – 44	13.5	13.6	13.7	14.1	14.4	14.6	14.6	14.5
45 – 49	12.7	12.9	13.0	13.1	13.3	13.1	12.8	12.6
50 – 54	11.7	11.9	11.9	12.0	12.1	11.9	11.7	11.8
55 – 59	8.2	8.5	8.7	9.0	9.3	9.4	9.3	9.7
60 – 64	3.4	3.6	4.0	4.2	4.4	4.3	4.5	4.7
65 years and more	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Women	48.8	49.4	49.8	50.2	50.1	50.6	50.4	50.7
up to 24 years	2.2	2.0	1.8	1.5	1.4	1.5	1.7	1.9
25 – 29	6.7	6.3	6.1	5.7	5.2	5.3	5.4	5.4
30 – 34	8.0	8.1	8.1	8.1	7.9	8.0	7.7	7.4
35 – 39	7.4	7.6	7.8	8.0	8.0	8.1	8.2	8.1
40 – 44	6.9	7.0	7.0	7.2	7.4	7.4	7.4	7.5
45 – 49	6.6	6.8	6.9	6.9	7.0	7.0	6.8	6.7
50 – 54	6.2	6.4	6.4	6.5	6.6	6.5	6.3	6.4
55 – 59	3.5	3.7	4.0	4.3	4.6	4.8	4.8	5.0
60 – 64	1.3	1.4	1.6	1.8	1.9	1.9	2.0	2.1
65 years and more	0.1	0.1	0.1	0.2	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

(Continued)

Status as of 31 March 2017

		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
N	Administrative and support service activities	21 031	32	1 741	3 439	3 393	3 033	2 428	2 239	2 230	1 741	671	84
O	Public administration and defence; compulsory social security	33 977	-	408	1 967	3 636	5 229	5 704	5 629	4 783	4 249	2 161	211
P	Education	27 960	11	292	2 455	3 830	3 895	3 669	3 714	4 086	3 460	2 259	289
Q	Human health and social work activities	27 958	3	1 487	3 001	3 702	3 579	3 263	3 373	3 879	3 564	1 929	178
R	Arts, entertainment, and recreation	7 211	2	403	725	995	1 110	935	879	832	760	540	30
S	Other service activities	4 635	5	202	552	717	727	716	535	494	433	226	28

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 2017

Status as of 01 March 2017

		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
Total		170 212	101	6 141	18 008	24 899	27 106	25 028	22 663	21 601	16 889	7 195	581
A	Agriculture, forestry, and fishing	401	1	3	22	35	66	66	52	88	56	12	-
B	Mining and quarrying	223	-	-	17	29	41	36	36	34	27	3	-
C	Manufacturing	12 755	11	463	1 153	1 640	1 965	1 881	1 761	2 023	1 462	376	20
D	Electricity, gas steam, and air conditioning supply	1 048	-	14	84	151	172	145	128	153	151	50	-
E	Water supply; sewerage, waste management, and remediation activities	628	4	12	32	74	75	94	102	110	93	31	1
F	Construction	2 061	-	34	140	264	337	290	267	320	292	106	11

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

(Continued)

Status as of 31 March 2017

		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
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	32 233	46	2 044	4 470	5 615	5 905	4 778	3 937	3 000	1 854	524	60
H	Transportation and storage	4 731	-	116	271	479	636	903	857	799	539	128	3
I	Accommodation and food service activities	5 310	5	507	667	659	637	637	756	763	508	166	5
J	Information and communication	7 561	-	126	945	1 382	1 460	1 374	997	686	421	162	8
K	Financial and insurance activities	13 070	-	155	1 167	2 446	2 614	2 367	1 707	1 202	1 093	306	13
L	Real estate activities	1 610	-	39	136	210	234	233	241	276	172	67	2
M	Professional, scientific, and technical activities	11 121	3	262	1 654	1 973	2 041	1 619	1 236	1 053	801	402	77
N	Administrative and support service activities	9 161	12	489	1 500	1 328	1 229	1 184	1 196	1 211	774	209	29
O	Public administration and defence; compulsory social security	18 108	-	115	824	1 904	2 985	3 051	2 823	2 648	2 410	1 236	112
P	Education	21 495	11	221	1 882	2 942	2 943	2 870	2 980	3 301	2 679	1 549	117
Q	Human health and social work activities	21 756	2	1 115	2 222	2 769	2 755	2 572	2 768	3 121	2 869	1 464	99
R	Arts, entertainment, and recreation	4 182	1	286	469	576	598	503	482	500	456	299	12
S	Other service activities	2 758	5	140	353	423	413	425	337	313	232	105	12

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

	2010	2011	2012	2013	2014	2015	2016	2017
Total	343 194	327 988	329 635	321 273	312 556	318 472	342 042	335 870
of which: women	167 598	161 851	164 150	161 230	156 693	161 099	172 529	170 212
Full-time employees	306 187	292 135	290 266	280 912	270 880	272 726	286 989	278 889
of which: women	148 246	142 918	143 499	140 862	137 112	138 512	145 142	141 749

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

(Continued)

Status as of 31 March

	2010	2011	2012	2013	2014	2015	2016	2017
Part-time employees	34 618	33 464	36 967	38 210	39 789	43 981	53 370	55 713
of which: women	17 925	17 517	19 256	19 162	18 606	21 532	26 393	27 719
Trainees	2 389	2 389	2 402	2 151	1 887	1 765	1 683	1 268
of which: women	1 427	1 416	1 395	1 206	975	1 055	994	744

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 2017

		Total	Women	Full-time employees		Part-time employees		Trainees	
				Total	Women	Total	Women	Total	Women
Total		335 870	170 212	278 889	141 749	55 713	27 719	1 268	744
A	Agriculture, forestry, and fishing	874	401	682	323	188	77	4	1
B	Mining and quarrying	840	223	805	218	31	5	4	-
C	Manufacturing	35 539	12 755	29 028	10 636	6 381	2 058	130	61
D	Electricity, gas, steam, and air conditioning supply	3 306	1 048	3 180	1 003	94	32	32	13
E	Water supply; sewerage, waste management, and remediation activities	3 858	628	3 472	565	386	63	-	-
F	Construction	16 602	2 061	13 400	1 851	3 181	202	21	8
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	60 055	32 233	47 716	24 896	12 267	7 300	72	37
H	Transportation and storage	17 259	4 731	14 823	4 310	2 426	415	10	6
I	Accommodation and food service activities	9 730	5 310	7 101	3 917	2 623	1 390	6	3
J	Information and communication	19 305	7 561	17 697	6 874	1 558	667	50	20
K	Financial and insurance activities	19 449	13 070	17 882	12 091	1 477	926	90	53
L	Real estate activities	3 465	1 610	2 830	1 309	631	301	4	-
M	Professional, scientific, and technical activities	22 816	11 121	19 756	9 600	2 915	1 437	145	84
N	Administrative and support service activities	21 031	9 161	10 557	3 526	10 465	5 629	9	6
O	Public administration and defence; compulsory social security	33 977	18 108	31 441	16 908	2 392	1 130	144	70
P	Education	27 960	21 495	23 789	18 552	3 765	2 643	406	300
Q	Human health and social work activities	27 958	21 756	24 960	19 482	2 887	2 207	111	67
R	Arts, entertainment, and recreation	7 211	4 182	5 830	3 390	1 367	786	14	6
S	Other service activities	4 635	2 758	3 940	2 298	679	451	16	9

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
2013	46 588	23 857	9 863	1 280	7 439	11 759	12 738	2 930	3 680	6 762
2014	41 134	21 387	8 095	1 198	6 780	10 289	10 979	2 426	3 319	6 143
2015	37 463	19 804	7 880	1 172	6 196	8 958	9 814	2 347	3 166	5 810
2016	30 307	16 548	5 813	1 154	4 833	6 891	7 630	1 730	2 732	5 337
2017	22 453	11 961	3 933	1 162	3 548	4 986	5 320	1 237	2 100	4 100
Share, %										
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
2017	100.0	53.3	17.5	5.2	15.8	22.2	23.7	5.5	9.3	18.3

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
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
2017	22 453	3 933	1 870	1 958	1 120	1 557	2 716	4 413	3 397	1 489
Share, %										
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
2017	100.0	17.5	8.3	8.7	5.0	7.0	12.1	19.7	15.1	6.6

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
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
2017	22 453	2 005	4 415	2 822	1 432	1 203	2 484	1 470	6 622
Share, %									
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
2017	100.0	8.9	19.7	12.6	6.4	5.3	11.1	6.5	29.5

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
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
2017	22 453	528	1 786	2 680	2 161	2 291	2 151	2 341	2 775	3 273	2 467
Share, %											
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
2017	100.0	2.3	8.0	11.9	9.6	10.2	9.6	10.4	12.4	14.6	11.0

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 have been obtained upon processing data referred to in the Report on Income, Income Tax and Surtax, and Contributions for Mandatory Insurances (JOPPD form).

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 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.

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.

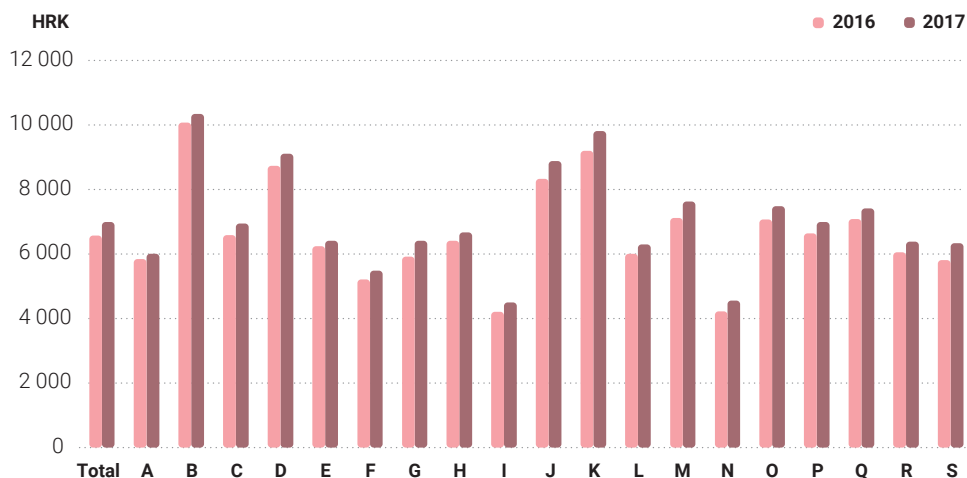
In data on average monthly earnings according to the level of professional qualifications, the term "professional qualifications" implies general and professional knowledge and skills of an employed person, which result from the range and complexity of tasks for a certain job position, as defined by regulations established by the employer. The 2015 and 2016 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
		2016	2017	<u>2017</u> <u>2016</u>
Total		6 575	6 962	105.9
A	Agriculture, forestry and fishing	5 844	6 006	102.8
B	Mining and quarrying	10 077	10 320	102.4
C	Manufacturing	6 588	6 938	105.3
D	Electricity, gas, steam and air conditioning supply	8 734	9 096	104.1
E	Water supply; sewerage, waste management and remediation activities	6 239	6 391	102.4
F	Construction	5 210	5 490	105.4
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	5 920	6 391	108.0
H	Transportation and storage	6 411	6 622	103.3
I	Accommodation and food service activities	4 206	4 466	106.2
J	Information and communication	8 331	8 850	106.2
K	Financial and insurance activities	9 201	9 805	106.6
L	Real estate activities	6 007	6 273	104.4
M	Professional, scientific and technical activities	7 118	7 606	106.9
N	Administrative and support service activities	4 219	4 545	107.7
O	Public administration and defence; compulsory social security	7 072	7 430	105.1
P	Education	6 636	6 955	104.8
Q	Human health and social work activities	7 083	7 365	104.0
R	Arts, entertainment and recreation	6 052	6 351	104.9
S	Other service activities	5 808	6 328	109.0

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 2016 and 2017

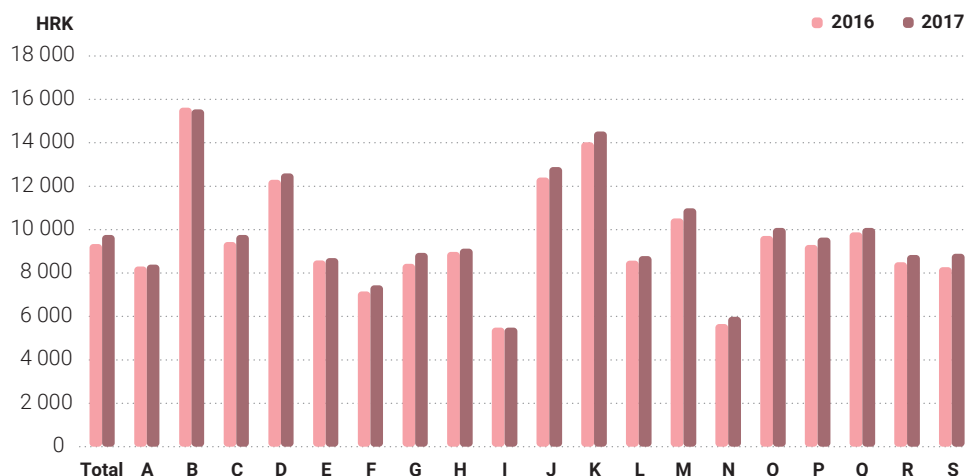


7.2 Average monthly gross earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections

		Average monthly gross earnings per employed person in HRK		Nominal indices
		2016	2017	$\frac{2017}{2016}$
Total		9 339	9 730	104.2
A	Agriculture, forestry and fishing	8 302	8 348	100.6
B	Mining and quarrying	15 620	15 528	99.4
C	Manufacturing	9 429	9 729	103.2
D	Electricity, gas, steam and air conditioning supply	12 296	12 586	102.4
E	Water supply; sewerage, waste management and remediation activities	8 577	8 690	101.3
F	Construction	7 154	7 458	104.2
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	8 425	8 947	106.2
H	Transportation and storage	8 974	9 137	101.8
I	Accommodation and food service activities	5 482	5 757	105.0
J	Information and communication	12 398	12 915	104.2
K	Financial and insurance activities	14 024	14 557	103.8
L	Real estate activities	8 574	8 785	102.5
M	Professional, scientific and technical activities	10 519	11 007	104.6
N	Administrative and support service activities	5 649	6 016	106.5
O	Public administration and defence; compulsory social security	9 707	10 097	104.0
P	Education	9 293	9 634	103.7
Q	Human health and social work activities	9 873	10 121	102.5
R	Arts, entertainment and recreation	8 503	8 830	103.8
S	Other service activities	8 270	8 874	107.3

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 2016 and 2017



7.3 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 educa-tion	Sec-on-dary educa-tion	Pri-mary edu-cation	Highly skilled	Skilled	Semi-skilled	Unskil-led
Net earnings in HRK											
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
2016 ¹⁾	6 740	7 238	6 243	9 598	7 020	5 327	3 989	6 227	4 700	4 654	4 030
Gross earnings in HRK											
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
2016 ¹⁾	9 896	10 681	9 115	14 979	10 163	7 391	5 256	8 695	6 327	6 187	5 406

¹⁾ See Notes on Methodology.

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

7.4 Average monthly net earnings per person employed in legal entities by sex and level of professional qualifications for 2016 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		6 740	7 238	6 243	9 598	7 020	5 327	3 989	6 227	4 700	4 654	4 030
A	Agriculture, forestry and fishing	6 264	7 151	5 241	9 731	5 376	4 828	3 618	4 509	3 326	3 391	2 896
B	Mining and quarrying	8 738	8 787	8 612	9 902	8 517	5 121	4 284	8 279	4 665	6 492	3 230
C	Manufacturing	7 021	7 258	6 592	12 616	7 949	5 431	4 235	5 904	5 116	4 636	3 943
D	Electricity, gas, steam and air conditioning supply	7 995	7 924	8 183	10 311	7 718	6 711	5 061	6 917	5 206	4 727	5 413
E	Water supply; sewerage, waste management and remediation activities	6 080	6 119	5 865	9 116	6 988	5 868	5 193	7 324	5 898	5 306	6 002
F	Construction	5 588	5 476	6 287	9 817	6 967	5 032	3 668	5 754	4 355	4 526	3 876
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	6 357	7 164	5 620	11 811	7 831	5 068	3 759	5 066	4 331	3 545	4 756
H	Transportation and storage	6 763	6 935	6 348	9 376	8 647	6 034	4 855	7 431	4 591	5 770	7 098
I	Accommodation and food service activities	4 665	5 058	4 361	8 102	7 603	4 368	3 557	5 177	4 714	4 281	3 301
J	Information and communication	8 539	9 046	7 742	10 179	7 864	6 548	4 852	6 611	5 814	4 735	5 781
K	Financial and insurance activities	9 208	10 740	8 403	11 618	7 802	6 744	6 243	4 977	5 825	5 488	5 149
L	Real estate activities	6 033	6 583	5 388	10 018	7 363	5 555	4 766	4 960	3 869	2 997	3 729
M	Professional, scientific and technical activities	7 816	8 223	7 357	9 229	7 453	5 555	3 619	7 036	4 903	4 299	3 864
N	Administrative and support service activities	4 051	4 288	3 698	7 189	5 535	3 770	3 402	4 152	4 462	4 109	2 459

7.4 Average monthly net earnings per person employed in legal entities by sex and level of professional qualifications for 2016 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
O	Public administration and defence; compulsory social security	6 812	7 442	6 250	8 316	6 414	5 479	3 316	5 153	5 688	6 431	3 750
P	Education	6 330	7 479	5 953	7 211	6 234	4 700	3 953	6 691	4 437	4 050	3 400
Q	Human health and social work activities	6 472	7 948	6 045	9 860	6 081	5 241	3 493	4 988	4 152	4 035	3 405
R	Arts, entertainment and recreation	6 181	6 710	5 779	7 811	6 697	5 235	4 613	6 819	5 299	5 178	4 459
S	Other service activities	6 249	6 940	5 713	8 614	6 958	5 076	4 145	6 653	3 702	4 941	3 762

¹⁾ See Notes on Methodology.

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

7.5 Average monthly gross earnings per person employed in legal entities by sex and level of professional qualifications for 2016 by NCA 2007 sections¹⁾

HRK

		Total	Sex		Level of professional qualifications							
			Men	Wo-men	Hig-her edu-cation	Post-se-con-dary edu-cation	Se-con-dary edu-cation	Pri-mary edu-cation	Hig-hly skil-led	Skil-led	Semi-skil-led	Un-skil-led
Total		9 896	10 681	9 115	14 979	10 163	7 391	5 256	8 695	6 327	6 187	5 406
A	Agriculture, forestry and fishing	9 048	10 458	7 423	14 695	7 422	6 683	4 762	6 006	4 229	4 362	3 707
B	Mining and quarrying	13 071	13 090	13 022	15 149	12 429	7 256	5 879	11 882	6 147	8 770	4 360
C	Manufacturing	10 496	10 838	9 876	20 729	11 931	7 571	5 649	8 227	6 984	6 249	5 240
D	Electricity, gas, steam and air conditioning supply	11 769	11 591	12 243	15 890	11 155	9 441	6 754	9 875	7 303	6 342	7 471
E	Water supply; sewerage, waste management and remediation activities	8 384	8 434	8 113	13 666	10 073	8 053	6 927	10 328	8 010	7 024	8 161
F	Construction	7 855	7 649	9 139	15 181	10 074	6 850	4 764	7 757	5 832	6 041	5 110
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	9 438	10 743	8 247	19 438	11 846	7 081	4 946	7 067	5 837	4 605	6 645
H	Transportation and storage	9 677	9 864	9 224	14 319	13 053	8 384	6 481	10 491	6 089	7 905	10 037

7.5 Average monthly gross earnings per person employed in legal entities by sex and level of professional qualifications for 2016 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
I	Accommodation and food service activities	6 395	7 020	5 911	12 381	11 270	5 879	4 703	7 144	6 333	5 651	4 233
J	Information and communication	13 013	13 837	11 717	15 987	11 673	9 434	6 660	9 127	8 015	6 461	8 349
K	Financial and insurance activities	14 297	17 023	12 865	18 750	11 623	9 755	8 944	6 963	8 328	7 389	7 269
L	Real estate activities	8 737	9 562	7 769	15 926	10 651	7 791	6 514	6 846	5 196	3 932	4 902
M	Professional, scientific and technical activities	11 873	12 492	11 176	14 423	11 066	7 832	4 748	9 918	6 580	5 638	5 098
N	Administrative and support service activities	5 505	5 818	5 038	10 682	7 944	5 015	4 469	5 558	5 947	5 385	3 164
O	Public administration and defence; compulsory social security	9 711	10 549	8 962	12 316	8 913	7 404	4 262	6 905	7 609	8 756	4 811
P	Education	9 033	11 063	8 366	10 607	8 513	6 306	5 075	9 622	5 791	5 162	4 386
Q	Human health and social work activities	9 404	11 970	8 662	15 461	8 525	7 159	4 522	6 788	5 464	5 254	4 392
R	Arts, entertainment and recreation	8 820	9 641	8 194	11 544	9 742	7 236	6 145	9 657	7 223	7 004	6 087
S	Other service activities	9 056	10 130	8 224	13 108	10 192	7 051	5 489	9 664	4 869	6 567	4 971

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.

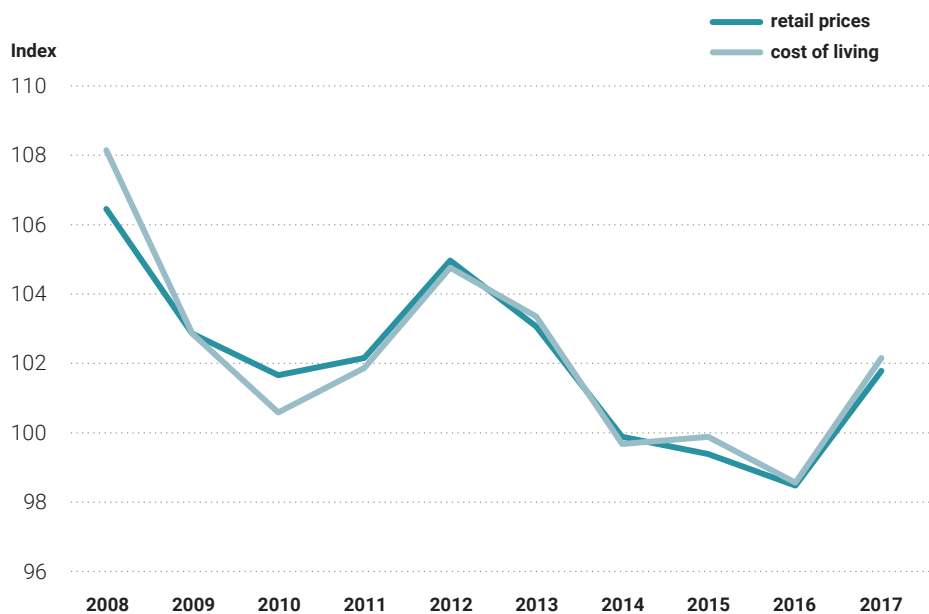
Index lists are the lists of products and services whose individual prices and the relevant weighting system are used to calculate the price index of a specific group. A separate, specific list exists for each price category. Elements of an index list, consisting of the above-mentioned goods and services, 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.

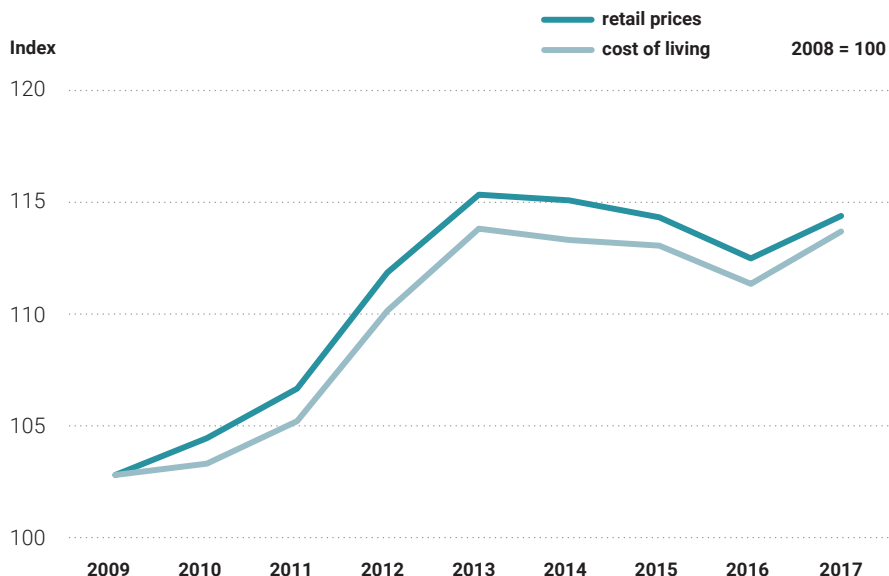
8.1 Chain indices of retail prices by product groups

	2008 2007	2009 2008	2010 2009	2011 2010	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015	2017 2016
Retail prices – total	106.4	102.8	101.6	102.1	104.9	103.0	99.8	99.3	98.4	101.7
Goods	106.1	102.5	101.5	102.3	104.4	103.3	100.1	99.1	98.0	102.0
Agricultural food products	110.9	96.7	97.9	99.6	106.4	107.9	95.2	103.9	96.9	108.3
Industrial products – total	105.9	102.8	101.5	102.3	104.3	103.3	100.3	98.9	97.9	101.7
Food products	109.9	101.0	97.3	103.5	101.5	102.4	97.4	99.3	99.4	102.6
Non-food products	104.7	101.5	103.1	101.9	105.8	102.3	99.9	97.9	96.9	101.4
Beverages	103.1	103.9	97.3	100.4	97.4	101.5	101.5	100.7	100.7	100.4
Tobacco	106.8	120.0	103.4	105.9	105.2	113.4	108.3	102.0	100.1	102.8
Food products – total	110.1	100.5	97.3	102.9	102.2	103.2	97.3	99.9	99.0	103.4
Services	108.4	104.6	102.5	100.9	106.5	102.3	98.7	100.4	100.1	100.2

G 8.1 Changes in chain indices of retail prices and cost of living from 2008 to 2017



G 8.2 Changes in indices of retail prices and cost of living from 2009 to 2017



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

	2008 2007	2009 2008	2010 2009	2011 2010	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015	2017 2016
Cost of living – total	108.1	102.8	100.5	101.8	104.7	103.3	99.6	99.8	98.5	102.1
Purpose of expenditure										
Food	110.2	100.5	96.1	102.3	103.7	104.4	97.1	99.5	97.8	104.6
Beverage	102.8	103.5	97.6	100.3	97.4	101.3	100.9	101.0	101.7	100.3
Tobacco	106.9	119.9	103.4	106.0	105.2	113.4	108.3	102.0	100.1	102.8
Clothing, footwear, and services	104.0	99.7	100.5	97.5	96.5	99.1	98.8	100.5	102.7	102.8
Housing and services	111.3	100.4	100.8	101.5	107.1	104.4	105.3	102.4	99.9	100.4
Heating, lighting, and services	107.1	109.6	109.3	101.6	116.4	105.7	99.9	99.1	91.8	95.2
Household equipment and services	105.0	104.1	101.5	102.4	101.8	100.7	98.9	97.0	97.6	100.1
Hygiene, health care, and services	108.2	111.5	101.3	101.8	101.8	103.2	101.3	101.6	102.2	101.5
Education, culture, leisure, and services	105.5	106.3	101.5	100.2	100.0	101.4	100.5	100.2	100.7	102.7
Means of transport, services, and post and telecommunication services	108.9	96.5	104.4	104.1	108.9	100.6	97.2	96.8	97.6	102.4
Administrative and other services	100.0	100.2	120.8	100.0	100.7	100.2	100.0	99.1	101.0	95.3
Goods	107.8	101.9	100.1	102.2	104.1	103.8	99.6	99.4	98.2	102.6
Services	109.3	105.1	102.5	100.9	106.0	102.6	100.1	100.9	99.4	100.2

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⁾

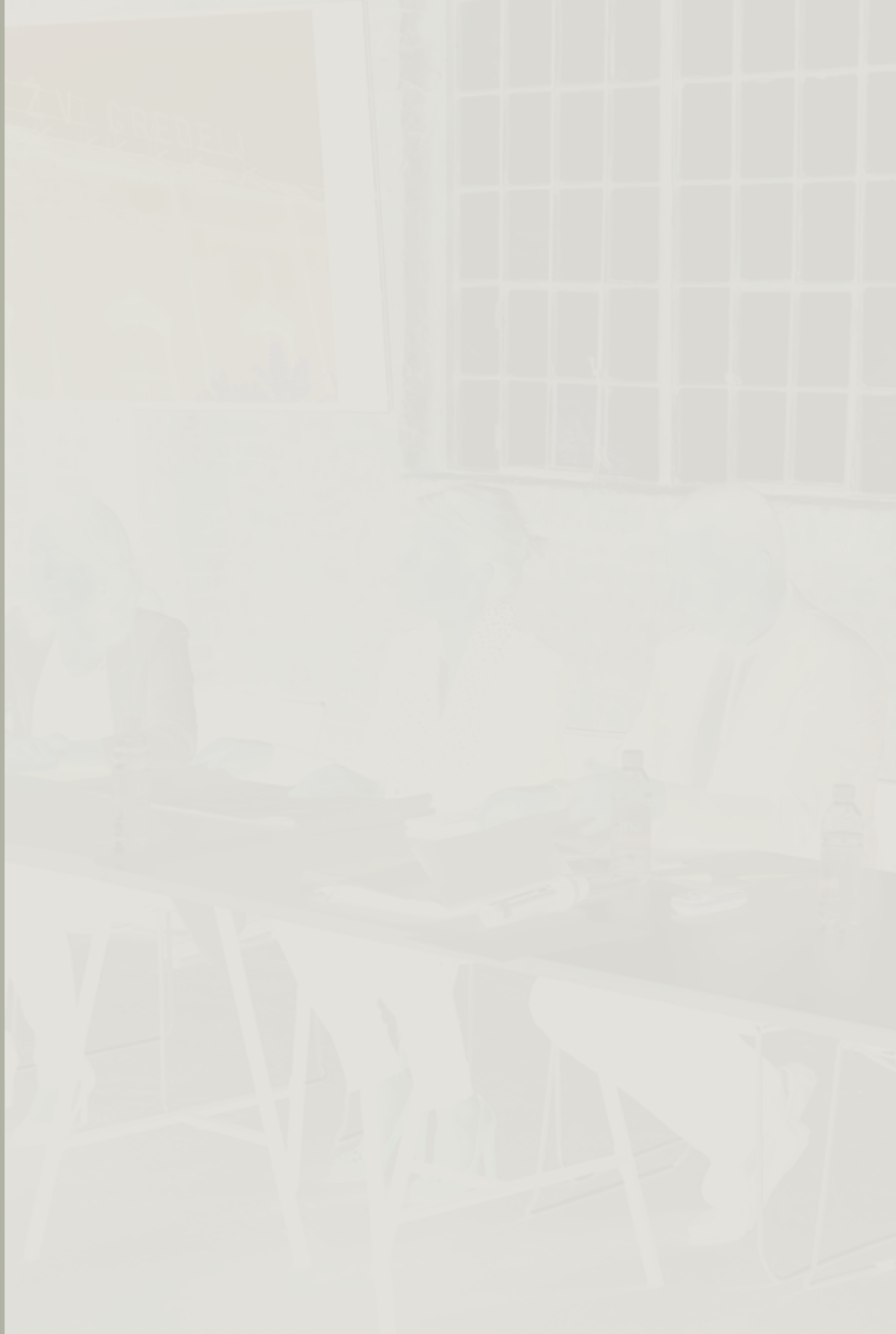
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
100.0	102.8	104.4	106.6	111.8	115.2	115.0	114.2	112.4	114.3
97.3	100.0	101.6	103.7	108.8	112.1	111.9	111.1	109.3	111.2
95.8	98.4	100.0	102.1	107.1	110.3	110.1	109.3	107.6	109.4
93.8	96.4	97.9	100.0	104.9	108.0	107.8	107.0	105.3	107.1
89.4	91.9	93.3	95.3	100.0	103.0	102.8	102.1	100.5	102.2
86.8	89.2	90.6	92.5	97.1	100.0	99.8	99.1	97.5	99.2
87.0	89.4	90.8	92.7	97.3	100.2	100.0	99.3	97.7	99.4
87.6	90.0	91.4	93.4	98.0	100.9	100.7	100.0	98.4	100.1
89.0	91.5	92.9	94.9	99.6	102.5	102.3	101.6	100.0	101.7
87.5	90.0	91.3	93.3	97.9	100.8	100.6	99.9	98.3	100.0

¹⁾ Data is to be read only horizontally.

8.5 Indices of cost of living¹⁾

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
100.0	102.8	103.3	105.2	110.1	113.7	113.2	113.0	111.3	113.6
97.3	100.0	100.5	102.3	107.1	110.6	110.2	110.0	108.4	110.7
96.8	99.5	100.0	101.8	106.6	110.1	109.7	109.5	107.9	110.2
95.1	97.7	98.2	100.0	104.7	108.2	107.8	107.6	106.0	108.2
90.8	93.3	93.8	95.5	100.0	103.3	102.9	102.7	101.2	103.3
87.9	90.3	90.8	92.4	96.8	100.0	99.6	99.4	97.9	100.0
88.3	90.7	91.2	92.8	97.2	100.4	100.0	99.8	98.3	100.4
88.5	90.9	91.4	93.0	97.4	100.6	100.2	100.0	98.5	100.6
89.8	92.3	92.8	94.4	98.9	102.1	101.7	101.5	100.0	102.1
88.0	90.4	90.9	92.5	96.9	100.0	99.6	99.4	97.9	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 2014 the reporting units selected by means of judgemental sampling were legal entities, large and medium-sized enterprises, financial and insurance institutions, budget beneficiaries small enterprises selected by the judgemental sample method on the basis of the value of fixed assets and non-profit organizations – major investors.

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

Sources of financing/acquisitions of investment in fixed assets include all amounts for investment in new and existing fixed assets for the reporting year, that is, the means of acquiring fixed assets regardless of whether they have been paid for or not.

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 Gross investment in fixed assets

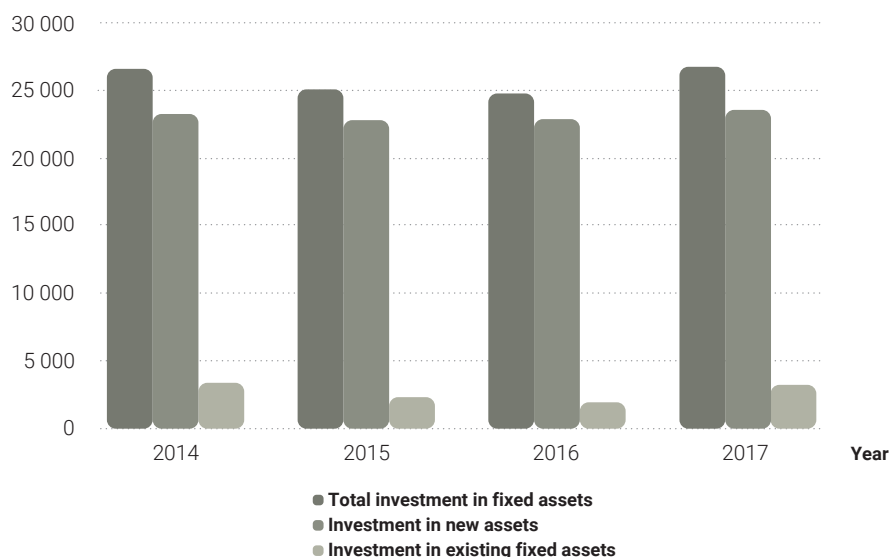
Thousands of HRK

	2014	2015	2016	2017
Total	26 625 502	25 078 833	24 830 422	26 758 964
Investments in new fixed assets	23 291 397	22 828 609	22 924 846	23 586 374
In existing fixed assets	3 334 105	2 250 224	1 905 576	3 172 590

Source: CBS

G 9.1 Gross investment in fixed assets

mil. of HRK



9.2 Sources of financing/acquisition of investment in fixed assets

Thousands of HRK

Investor's activity by NCA 2007		Total	From own financial assets	Joint assets (domestic and foreign)	From financial credits and leasing	From EU funds	From funds and budgetary assets	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		24 830 422	13 588 227	299 240	5 291 020	1 154 965	3 067 676	1 429 294
2017 Total		26 758 964	14 570 642	207 838	7 288 482	890 355	2 484 131	1 317 516
A	Agriculture, forestry, and fishing	656 453	296 999	-	96 441	9 643	-	253 370
B	Mining and quarrying	61 248	61 248	-	-	-	-	-
C	Manufacturing	2 743 055	2 542 342	3 607	148 085	24 220	4 474	20 327
D	Electricity, gas, steam, and air conditioning supply	3 021 733	1 760 953	43 582	897 655	1 445	-	318 098

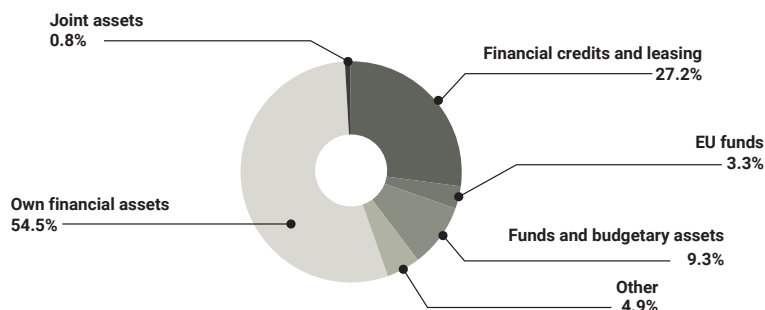
9.2 Sources of financing/acquisition of investment in fixed assets

(Continued)

Thousands of HRK

Investor's activity by NCA 2007		Total	From own financial assets	Joint assets (domestic and foreign)	From financial credits and leasing	From EU funds	From funds and budgetary assets	Other
E	Water supply; sewerage, waste management, and remediation activities	885 368	74 025	86 638	637 475	26 907	13 811	46 512
F	Construction	1 578 709	331 133	-	319 060	136 348	788 037	4 131
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	2 808 055	2 482 540	9 832	309 406	-	-	6 277
H	Transportation and storage	1 756 371	1 136 122	17 608	228 178	296 585	71 778	6 100
I	Accommodation and food service activities	708 058	209 673	-	495 977	90	1 521	797
J	Information and communication	3 090 748	2 823 579	-	43 444	87 403	31 307	105 015
K	Financial and insurance activities	3 058 573	1 303 804	-	1 723 868	-	-	30 901
L	Real estate activities	969 154	570 639	42 621	255 038	-	54 242	46 614
M	Professional, scientific, and technical activities	676 694	276 513	-	345 109	9 197	24 232	21 643
N	Administrative and support service activities	1 596 331	153 700	-	1 386 362	-	-	56 269
O	Public administration and defence; compulsory social security	2 455 207	145 681	189	313 544	277 469	1 390 890	327 434
P	Education	108 443	49 074	106	7 349	4 172	24 721	23 021
Q	Human health and social work activities	179 438	92 180	130	5 808	15 411	55 036	10 873
R	Arts, entertainment, and recreation	343 281	239 015	3 525	75 593	858	20 859	3 431
S	Other service activities	62 045	21 422	-	90	607	3 223	36 703

G 9.2 Sources of financing/acquisition of investment in fixed assets in 2017



9.3. Gross investment in fixed assets by types of assets, by the location and investment activity

Thousands of HRK

Investor's activity by NCA 2007		Total	Buildings, spaces and structures	Machinery and equipment with fitting	Transport equipmen	Intellectual property products	Others
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		24 830 422*	8 928 996*	7 737 127*	4 592 512*	1 738 920*	1 832 867*
2017 Total		26 758 964	9 389 612	8 638 114	4 640 210	1 908 940	2 182 088
A	Agriculture, forestry, and fishing	656 453	78 928	81 163	53 082	235	443 045
B	Mining and quarrying	61 248	2 621	45 607	2 680	10 167	173
C	Manufacturing	2 743 055	782 772	1 687 141	53 447	110 987	108 708
D	Electricity, gas, steam, and air conditioning supply	3 021 733	830 519	1 964 997	64 808	58 360	103 049
E	Water supply; sewerage, waste management, and remediation activities	885 368	525 252	66 002	83 637	1 601	208 876
F	Construction	1 578 709	1 199 987	92 531	59 666	13 496	213 029
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	2 808 055	1 123 468	970 964	212 312	60 423	440 888
H	Transportation and storage	1 756 371	846 759	352 726	481 457	53 313	22 116
I	Accommodation and food service activities	708 058	521 446	127 010	8 660	1 798	49 144
J	Information and communication	3 090 748	484 430	1 429 601	6 786	1 040 336	129 595
K	Financial and insurance activities	3 058 573	374 444	310 667	1 965 694	335 837	71 931
L	Real estate activities	969 154	796 801	50 187	3 003	547	118 616
M	Professional, scientific, and technical activities	676 694	427 148	106 614	25 053	48 127	69 752
N	Administrative and support service activities	1 596 331	24 866	111 087	1 402 028	24 002	34 348
O	Public administration and defence; compulsory social security	2 455 207	1 193 244	813 784	193 846	121 658	132 675
P	Education	108 443	25 518	74 774	3 634	2 943	1 574
Q	Human health and social work activities	179 438	45 381	117 007	7 936	6 445	2 669
R	Arts, entertainment, and recreation	343 281	91 846	212 965	7 978	17 926	12 566
S	Other service activities	62 045	14 182	23 287	4 503	739	19 334

9.4 Gross investment in new fixed assets by investment activity from Croatia and purpose activity by NCA 2007 in 2017

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		23 586 374	647 046	733 421	2 090 821	3 018 936	779 440	1 467 691
A	Agriculture, forestry, and fishing	644 389	642 184	-	-	-	-	-
B	Mining and quarrying	61 128	-	60 496	-	-	-	135
C	Manufacturing	2 563 979	-	644 167	1 814 728	96	-	1 582
D	Electricity, gas, steam, and air conditioning supply	3 017 172	-	-	-	3 017 172	-	-
E	Water supply; sewerage, waste management, and remediation activities	687 338	110	-	-	-	518 190	4 119
F	Construction	1 280 367	1 909	-	661	-	-	1 251 780
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	2 145 880	77	-	273 043	-	1 131	1 624
H	Transportation and storage	1 713 881	-	28 758	-	-	-	15 284
I	Accommodation and food service activities	196 220	-	-	-	-	-	-
J	Information and communication	3 069 984	-	-	-	-	-	-
K	Financial and insurance activities	2 550 275	-	-	-	-	-	-
L	Real estate activities	715 632	2 766	-	-	665	-	28 093
M	Professional, scientific, and technical activities	380 982	-	-	2 389	-	6 429	49 458
N	Administrative and support service activities	1 528 104	-	-	-	-	-	-
O	Public administration and defence; compulsory social security	2 392 692	-	-	-	1 003	253 690	115 616
P	Education	102 921	-	-	-	-	-	-
Q	Human health and social work activities	177 529	-	-	-	-	-	-
R	Arts, entertainment, and recreation	315 302	-	-	-	-	-	-
S	Other service activities	42 599	-	-	-	-	-	-

9.4 Gross investment in new fixed assets by investment activity from Croatia and purpose activity by NCA 2007 in 2017

(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		1 983 938	1 810 004	247 178	2 989 493	2 528 916	796 207	337 727
A	Agriculture, forestry, and fishing	-	2 205	-	-	-	-	-
B	Mining and quarrying	-	-	-	-	-	-	-
C	Manufacturing	98 960	-	-	1 919	-	-	1 600
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management, and remediation activities	-	123 606	854	112	-	4 653	-
F	Construction	-	-	6 713	-	-	13 076	1 618
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	1 837 471	9 821	1 949	6 653	-	2 582	750
H	Transportation and storage	55	1 669 780	-	-	-	-	4
I	Accommodation and food service activities	-	-	195 063	-	-	403	568
J	Information and communication	16 442	-	14 453	2 952 775	-	-	-
K	Financial and insurance activities	1	-	5 390	21 243	2 521 904	17	16
L	Real estate activities	29 346	4 492	18 535	-	-	620 445	447
M	Professional, scientific, and technical activities	989	53	3 664	-	-	3 027	310 372
N	Administrative and support service activities	674	-	64	-	3 291	-	21 884
O	Public administration and defence; compulsory social security	-	47	-	6 761	3 721	152 004	468
P	Education	-	-	-	-	-	-	-
Q	Human health and social work activities	-	-	-	-	-	-	-
R	Arts, entertainment, and recreation	-	-	-	-	-	-	-
S	Other service activities	-	-	493	30	-	-	-

9.4 Gross investment in new fixed assets by investment activity from Croatia and purpose activity by NCA 2007 in 2017

(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 households as employers; undifferentiated goods – producing and services – producing activities of households for own use
		N	O	P	Q	R	S	T
Total		1 722 015	1 190 079	315 581	520 587	342 828	64 466	-
A	Agriculture, forestry, and fishing	-	-	-	-	-	-	-
B	Mining and quarrying	497	-	-	-	-	-	-
C	Manufacturing	-	-	-	-	927	-	-
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-
E	Water supply, sewerage, waste management, and remediation activities	34 501	119	-	-	-	1 074	-
F	Construction	-	-	-	-	4 610	-	-
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	10 779	-	-	-	-	-	-
H	Transportation and storage	-	-	-	-	-	-	-
I	Accommodation and food service activities	-	-	186	-	-	-	-
J	Information and communication	-	-	86 246	-	-	68	-
K	Financial and insurance activities	1 672	-	-	-	32	-	-
L	Real estate activities	10 110	-	-	-	733	-	-
M	Professional, scientific, and technical activities	-	-	-	4 224	377	-	-
N	Administrative and support service activities	1 499 028	-	-	-	-	3 163	-
O	Public administration and defence; compulsory social security	154 801	1 189 141	126 766	339 219	31 755	17 700	-
P	Education	-	819	102 098	-	4	-	-
Q	Human health and social work activities	-	-	-	177 144	-	385	-
R	Arts, entertainment, and recreation	10 627	-	285	-	304 390	-	-
S	Other service activities	-	-	-	-	-	42 076	-

Source: CBS



10

Budget of the City of Zagreb



NOTES ON METHODOLOGY

Source and method of data collection

Data on administrative bodies, branch offices of administrative bodies and the districts of the City of Zagreb have been taken from valid legal documents that regulate their constitution and work on the territory of the City of Zagreb.

Information on presidents and vice-presidents as well as on the number of members of City District Councils was obtained from the City Office for Local Self-Government, while information on the number of employees in administrative bodies of the City was obtained from the Professional service of the Mayor.

Data on the City budget were obtained from the City Office for Financing, which are announced in the Official Bulletin of the City of Zagreb, and since 2015 have also been available on the official web site of the City of Zagreb – Guide to the City of Zagreb Budget.

Data source on the Zagreb Holding Group d. o. o. structure, employees and financial report of the Group is the Annual Report of Zagreb Holding Group.

Definitions and explanations

City administrative bodies, which constitute the City Administration in a specific way, in line with the provisions of Article 13 of the City of Zagreb Act (Official Gazette 62/01, 125/08, 36/09 and 119/14), are established for performing tasks within the scope of the City of Zagreb, and the official decision on their constitution and scope is made by the City Assembly of the City of Zagreb.

Branch offices of the City Administration are constituted for the area of one or more districts as branch units of the City Administration aimed at performing administrative work, work of local self-government and other work pertaining to implementing the rights and interests of citizens.

City Districts, as forms of local self-government, recognize the interests of the City as a whole in performing their work.

District councils are elected by citizens of every district, while council members select the president of the council among themselves.

City budget is the basic legal and financial document for the assessment of revenues and receipts and determination of expenses and costs of the City for the budget year (from 1 January until 31 December). The budget is adopted by the City Assembly at the

proposal of the Mayor. Beneficiaries of the budget funds are the administrative bodies of the City (offices, bureaus and services) as well as other beneficiaries established and mostly financed by the City and which are recorded in the Register of Budgetary and Extra-Budgetary Users to which funds are allocated 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 (OG 87/08, 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.

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.

The company Zagreb Holding d. o. o. was founded in 2006 in line with the Companies Act as the City Housing and Municipal Services Company d. o. o. In January 2007, the Company changed its name to Zagreb Holding d. o. o. in 100% ownership of the City of Zagreb. Its activities are grouped in four business areas: municipal, traffic, trade and energy. The activity of City Pharmacies Zagreb can be classified as a contractual health institution of the Croatian Institute for Health Insurance, which is regulated by special laws. By implementing centralized business functions, the Group manages investment funds aimed at the development and advancement of activities, city infrastructure as well as municipal and service activities that are of interest to all citizens.

10.1 Administrative bodies of the City of Zagreb¹⁾²⁾

1.	Profesional service of the Mayor
2.	The Mayor's Office
3.	City Control Office
4.	City Office for the Strategic Planning and Development of the City
5.	City Office for General Administration
6.	City Office for Economy, Energetics and Environment protection
7.	City Office for Education
8.	City Office for Health
9.	City Office for social protection and people with disabilities
10.	City Office for Agriculture and Forestry
11.	City Office for Physical Planning, Construction of the City, Utility Services and Transport
12.	City Office for Legal – Property Relations and the City's assets
13.	City Office for Cadastre and Geodetic activities
14.	City Office of emergency management
15.	City Institute for the Conservation of Cultural and Natural Heritage
16.	City Office for Demography
17.	City Office for Sport and Youth
18.	City Office for culture
19.	Office of international relations and human rights
20.	City Office for the Local Self - Administration
21.	City Office for Financing
22.	City Office for War Veterans
23.	Public Procurement Office
24.	Office for EU programs and projects

¹⁾ City administrative bodies: sectors, authorities and offices are established pursuant to the Decision on the Organization and Scope of City Administrative Bodies (Official Gazette of the City of Zagreb, Nos 16/09, 22/09, 9/12, 4/13, 6/13, 17/13, 24/13, 21/14, 26/14, 5/15 – consolidated text, 4/16, 23/16, 9/17, 17/17 and 19/17).

²⁾ Data status as of 30 September 2018

10.2 Branch offices of the City Administration¹⁾

Branch offices are established on the area of one or more city districts established in the City of Zagreb as branch units of the City Administration:

	Branch offices of the City Administration	City District
1.	Branch office Centar	City District Centar City District Podsljeme
2.	Branch office Čnomerec	City District Čnomerec
3.	Branch office Dubrava	City District Gornja Dubrava City District Donja Dubrava
4.	Branch office Maksimir	City District Maksimir
5.	Branch office Medveščak	City District Gornji grad - Medveščak
6.	Branch office Novi Zagreb	City District Novi Zagreb - istok City District Novi Zagreb - zapad City District Brezovica
7.	Branch office Peščenica	City District Peščenica – Žitnjak

10.2 Branch offices of the City Administration¹⁾

(Continued)

	Branch offices of the City Administration	City District
8.	Branch office Susedgrad	City District Stenjevec City District Podsused – Vrapče
9.	Branch office Sesvete	City District Sesvete
10.	Branch office Trešnjevka	City District Trešnjevka - sjever City District Trešnjevka - jug
11.	Branch office Trnje	City District Trnje

¹⁾ Branch Offices of the City Administration are established on the basis of Article 23 of the Decision on the Arrangement and Scope of Municipal Administrative Bodies (Official Gazette of the City of Zagreb, Nos 11/05 and 16/09).

10.3 City districts of Zagreb¹⁾²⁾

	City district	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
		Danijel Samaržija ³⁾	Vice-President of the City District Council	
10.	Črnomerec	Martin Postružin ⁴⁾	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	

10.3 City districts of Zagreb¹⁾²⁾

(Continued)

	City district	Presidents and Vice Presidents of the City District Council		Number of members 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. 19/19) and the boundaries are determined by the Decision on the boundaries of the areas and headquarters of the city districts (OG, No. 7/09)

²⁾ Data with status as of 30 September 2018

³⁾ On the 15th Session held on 17th of July 2018, the Council relieved of duty the resigned vice president Darko Mrzlečki and elected Danijel Samadžija as a new vice president.

⁴⁾ On the 15th Session held on 10th of July 2018, the Council relieved of duty the resigned president Josip Jelić and elected Martin Postružin as a new president.

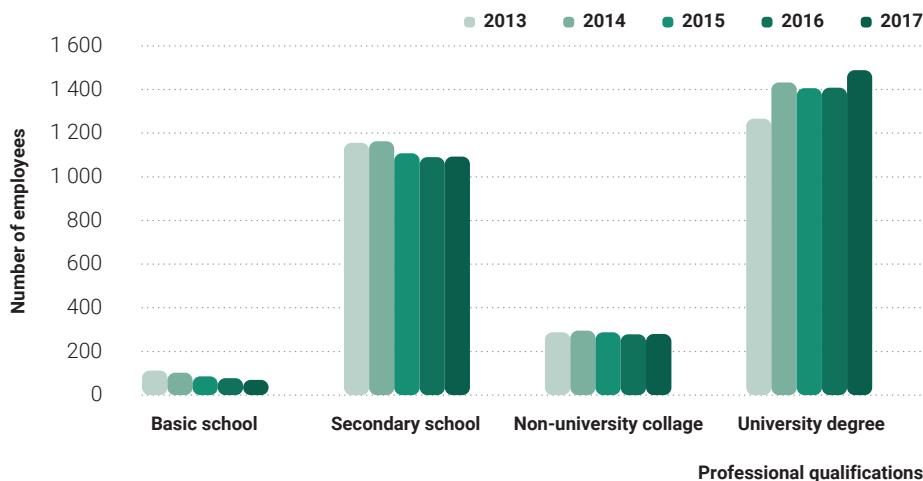
10.4 Employees in administrative bodies of the City of Zagreb by professional attainment and sex

Status as of 31 December

	Total	Professional attainment level				Sex	
		Basic school	Secondary school	Non-university college	University degree	Women	Men
2013	2 826	111	1 160	286	1 269	1 825	1 001
2014	2 997	102	1 166	293	1 436	1 957	1 040
2015	2 893	85	1 110	288	1 410	1 885	1 008
2016	2 860	76	1 094	278	1 412	1 866	994
2017	2 935	68	1 095	280	1 492	1 903	1 032

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

G 10.1 Employees in administrative bodies of the City of Zagreb professional attainment, 2013–2017



10.5 Employees in administrative bodies of the City of Zagreb by name of administrative body

Status as of 31 December

Name of administrative body	2013	2014	2015	2016	2017
Total	2 826	2 997	2 893	2 860	2 935
City Assembly Professional Service	42	45	47	46	45
Profesional service of the Mayor	119	128	126	129	146
The Mayor's Office	340	340	344	359	364
Office for EU programs and projects	9	13	18	16	20
Public Procurement Office	51	74	73	73	79
City Control Office	18	22	27	27	24
City Office for the Strategic Planning and Development of the City	66	63	64	73	82
City Office for General Administration	329	329	308	304	301
City Office for Financing	142	138	116	118	119
City Office for Economy, Business and Entrepreneurship	107	96	95	95	94
City Office for Energetics, Environment protection and Sustainable development	36	47	48	46	47
City Office for Education, Culture and Sport	135	129	122	126	123
City Office for Health	55	43	41	39	36
City Office for War Veterans	52	52	50	48	51
City Office for social protection and people with disabilities	58	74	70	69	83
City Office for Agriculture and Forestry	50	49	49	51	52
City Office for Physical Planning, Construction of the City, Utility Services and Transport	615	762	717	652	661
City Office for Legal-Property Relations and the City's assets	237	237	228	238	242
City Office of emergency management	20	20	22	23	24
City Office for Cadastre and Geodetic activities	180	174	167	166	163
City Institute for the Conservation of Cultural and Natural Meritage	31	32	33	34	33
City Office for the Local Self-Administration ¹⁾	134	130	128	128	146

¹⁾ Since 1 January 2017, the Department for the Local Self-Administration has changed his name to the City Office for the Local Self-Administration (Official Gazette of the City of Zagreb, No. 23/16)

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

10.6 Employees in administrative bodies of the City of Zagreb by professional attainment

Status as of 31 December

Name of administrative body	2016					2017				
	Total	Professional attainment				Total	Professional attainment			
		Basic school	Secondary school	Non-university college	University degree		Basic school	Secondary school	Non-university college	University degree
Total	2 860	76	1 094	278	1 412	2 935	68	1 095	280	1 492
City Assembly Professional Service	46	-	19	-	27	45	-	19	-	26
Professional service of the Mayor	129	2	40	19	68	146	2	39	23	82
The Mayor's Office	359	11	211	16	121	364	7	208	16	133
Office for EU programs and projects	16	-	3	-	13	20	-	3	1	16
Public Procurement Office	73	-	19	3	51	79	-	22	2	55
City Control Office	27	-	2	1	24	24	-	2	1	21
City Office for the Strategic Planning and Development of the City	73	-	21	12	40	82	-	22	12	48
City Office for General Administration	304	50	199	16	39	301	47	195	15	44
City Office for Financing	118	-	56	23	39	119	-	55	23	41
City Office for Economy, Business and Entrepreneurship	95	-	26	13	56	94	-	25	13	56
City Office for Energetics, Environment protection and Sustainable development	46	-	8	3	35	47	-	7	3	37
City Office for Education, Culture and Sport	126	1	21	17	87	123	1	20	15	87
City Office for Health	39	1	5	6	27	36	-	4	6	26
City Office for War Veterans	48	-	17	6	25	51	-	16	6	29
City Office for social protection and people with disabilities	69	-	13	6	50	83	-	17	10	56
City Office for Agriculture and Forestry	51	-	6	1	44	52	-	6	2	44
City Office for Physical Planning, Construction of the City, Utility Services and Transport	652	4	158	87	403	661	4	165	79	413
City Office for Legal-Property Relations and the City's assets	238	2	93	19	124	242	2	94	22	124
City Office of emergency management	23	-	5	3	15	24	-	7	3	14
City Office for Cadastre and Geodetic activities	166	5	98	11	52	163	5	89	12	57
City Institute for the Conservation of Cultural and Natural Meritage	34	-	5	1	28	33	-	5	1	27
City Office for the Local Self-Administration ¹⁾	128	-	69	15	44	146	-	75	15	56

¹⁾ Since 1 January 2017, the Department for the Local Self-Administration has changed its name to the City Office for the Local Self-Administration (Official Gazette of the City of Zagreb, No. 23/16)

10.7 Employees in administrative bodies of the City of Zagreb by sex

Status as of 31 December

Name of administrative body	2016			2017		
	Total	Women	Men	Total	Women	Men
Total	2 860	1 866	994	2 935	1 903	1 032
City Assembly Professional Service	46	36	10	45	36	9
Professional service of the Mayor	129	91	38	146	104	42
The Mayor's Office	359	128	231	364	134	230
Office for EU programs and projects	16	9	7	20	12	8
Public Procurement Office	73	56	17	79	60	19
City Control Office	27	18	9	24	17	7
City Office for the Strategic Planning and Development of the City	73	55	18	82	61	21
City Office for General Administration	304	248	56	301	242	59
City Office for Financing	118	105	13	119	106	13
City Office for Economy, Business and Entrepreneurship	95	78	17	94	75	19
City Office for Energetics, Environment protection and Sustainable development	46	31	15	47	31	16
City Office for Education, Culture and Sport	126	91	35	123	90	33
City Office for Health	39	30	9	36	27	9
City Office for War Veterans	48	41	7	51	43	8
City Office for social protection and people with disabilities	69	63	6	83	72	11
City Office for Agriculture and Forestry	51	28	23	52	29	23
City Office for Physical Planning, Construction of the City, Utility Services and Transport	652	366	286	661	362	299
City Office for Legal-Property Relations and the City's assets	238	176	62	242	178	64
City Office of emergency management	23	9	14	24	10	14
City Office for Cadastre and Geodetic activities	166	100	66	163	98	65
City Institute for the Conservation of Cultural and Natural Meritage	34	28	6	33	27	6
City Office for the Local Self-Administration ¹⁾	128	79	49	146	89	57

¹⁾ Since 1 January 2017, the Department for the Local Self-Administration has changed its name to the City Office for the Local Self-Administration (Official Gazette of the City of Zagreb, No. 23/16)

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

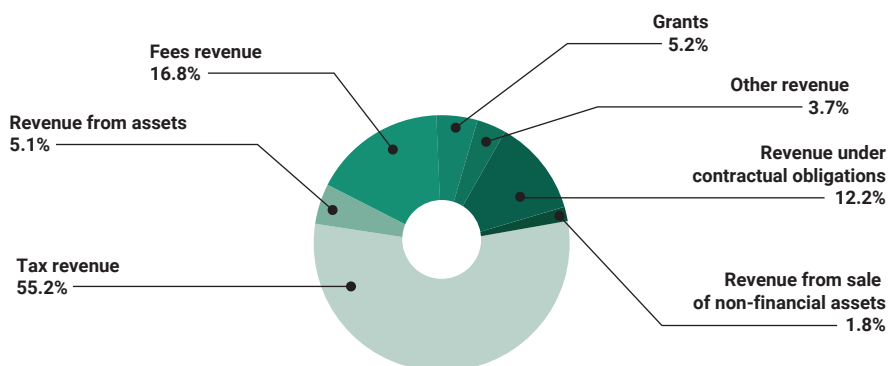
10.8 City of Zagreb Budget revenues

	Thousands of HRK				
	2015	2016	2017	Indices	
				2016 2015	2017 2016
Total revenues	6 204 867	8 169 749	8 322 285	131.7	101.9
Operating revenues	6 159 817	8 118 020	8 169 848	131.8	100.6
Tax revenues	4 543 313	4 825 406	4 592 510	106.2	95.2
Personal income tax and surtax	4 281 412	4 528 495	4 299 628	105.8	94.9
Property taxes	135 722	171 229	193 781	126.2	113.2
Taxes on goods and services	126 179	125 682	99 101	99.6	78.9
Aid (grants)	150 593	175 677	433 788	116.7	246.9
Revenues from assets	410 257	415 291	420 079	101.2	101.2
Revenues from financial assets	8 167	7 058	1 828	86.4	25.9
Revenues from non-financial assets	401 322	407 975	418 052	101.7	102.5
Revenues from interest on loans extended	768	258	199	33.6	77.1
Revenues from administrative fees, fees from special regulations	970 817	1 381 003*	1 396 462	142.3	101.1
Administrative fees	47 104	49 597	46 968	105.3	94.7
Revenues generated as per special regulations	101 013	499 843	514 578	494.8	102.9
Communal contributions and fees	822 700	831 563	834 916	101.1	100.4
Revenue from applicable budget under contractual obligations	-	1 016 888	1 017 487	-	100.1
Other revenues	84 837	303 755	309 522	358.0	101.9
Revenues from sale of non-financial assets	45 050	51 729	152 437	114.8	294.7
Revenues from sale of non-produced fixed assets	17 549	22 294	120 804	127.0	541.9
Revenues from sale of tangible assets – natural resources	17 085	21 345	118 455	124.9	555.0
Revenues from sale of non-tangible assets	464	949	2 349	204.5	247.5
Revenues from sale of produced fixed assets	27 501	29 435	31 633	107.0	107.5
Revenues from sale of buildings	27 496	28 830	30 972	104.9	107.4
Other revenues from the sale of plants and equipment	5	312	477	- ¹⁾	152.9
Revenue from sale of means of transport	-	293	184	-	62.8

¹⁾ The index exceeds 999.9.

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

G 10.2 Structure of City budget revenue in 2017



10.9 City of Zagreb Budget expenditures

	2015	2016	2017	Indices	
				2016 2015	2017 2016
Total expenditures	6 085 616	8 168 401	8 762 208	134.2	107.3
Business expenditures	5 756 652	7 582 700	8 078 017	131.7	106.5
Employee expenses	1 511 640	2 542 695	2 701 594	168.2	106.2
Material expenditures	2 264 751	3 021 186	3 120 156	133.4	103.3
Financial expenses	117 371	106 907	95 175	91.1	89.0
Subsidies	632 563	650 627	694 527	102.9	106.7
Grants	56 116	78 665	55 570	140.2	70.6
Compensation to citizens and households based on insurance and other compensations	474 031	441 657	645 820	93.2	146.2
Other expenses	700 180	740 963	765 175	105.8	103.3
Expenses for acquisition of non-financial assets	328 964	585 701	684 191	178.0	116.8
Expenses for acquisition of non-produced assets	18 468	21 410	30 160	115.9	140.9
Expenses for acquisition of produced fixed assets	280 263	498 856	574 977	178.0	115.3
Expenses for purchase of precious metals and other valuables	-	76	178	-	234.2
Expenses for additional investments in nonfinancial assets	30 233	65 359	78 876	216.2	120.7

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

10.10 City of Zagreb financing account

	2015	2016	2017	Thousands of HRK	
				Indices	
				2016 2015	2017 2016
Receipts from financial assets and borrowing	194 401	221 302	394 824	113.8	178.4
Extended loans principles repayment receipts (returns)	1 110	4 435	25 981	399.5	585.8
Receipts from sale of shares and stakes	733	358	106	48.8	29.6
Receipts from sale of shares and stakes	192 558	216 509	368 737	112.4	170.3
Financial assets and loan repayment expenses	272 810	282 824	404 006	103.7	142.8
Expenses for extended loans and deposits	-	23 371	25 597	-	109.5
Expenses for investments in securities	2 070	-	-	-	-
Expenses for principal repayment of loans received	238 882	259 410	-	108.6	-
Expenses for shares and stakes	31 858	43	378 409	0.1	- ¹⁾
Net lending/borrowing	-78 409	-61 522	-9 182	78.5	14.9

¹⁾ The index exceeds 999.9.

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

10.11 Companies, organization forms and activities of the Zagreb Holding Group

Status as of 31 December 2017

Branches, companies and institutions	Main activity
Branches of the Zagreb Holding Group d. o. o.	
1. Arena Zagreb	Management and maintenance of sports facilities
2. Zagreb Bus Terminal	Bus terminal services
3. City Waste Disposal	Cleaning, waste disposal
4. City Cemeteries	Funerary and similar activities
5. Zagreb Freight Station	Goods storage
6. Zagreb Markets	Wholesale and retail markets, storage
7. Real Estate Management	Real estate property services
8. Project Management	Construction and sale of apartments
9. Vladimir Nazor	Organized vacations for young people and travel agency
10. Zagreb Roads	Management, maintenance and construction of regional and local roads
11. Zagreb Digital City	Telecommunication ducts and network leasing
12. Zagreb Electric Tram	Public transport of passengers
13. Zagreb Fair	Organization of fairs, conferences, consulting
14. Zagrebparking	Services at public parking lots and garages
15. ZGOS Landfill Management	Waste collection and disposal
16. Zrinjevac	Landscaping and maintenance of green spaces

10.11 Companies, organization forms and activities of the Zagreb Holding Group

(Continued)

Status as of 31 December 2017

Branches, companies and institutions		Main activity
Companies and institutions in 100% ownership of the Group		
1.	AGM d. o. o.	Publishing services
2.	Centre d. o. o.	Organizing summer sports vacations for young people
3.	City Pharmacies Zagreb	Pharmacy services
4.	Zagreb City Gasworks-Supply d. o. o.	Gas supply
5.	Zagreb City Gasworks d. o. o.	Gas distribution
6.	City Housing and Municipal Services Company d. o. o. - GSKG d. o. o.	Building management
7.	Water Supply and Drainage d. o. o.	Water collection, treatment and distribution
8.	Zagreb Housing Construction d. o. o.	Construction and sale of apartments
Company in 51% ownership of the Group		
1.	Zagreb Plakat d. o. o.	Advertising space leasing

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

10. 12 Employees in the Zagreb Holding Group

Status as on 31 December

	2016	2017
Employees - total	10 394	11 286
Women		
In the total number of employees, %	23	23
In management positions, %	57	54

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

10.13 Employees of the Zagreb Holding Group, by age groups

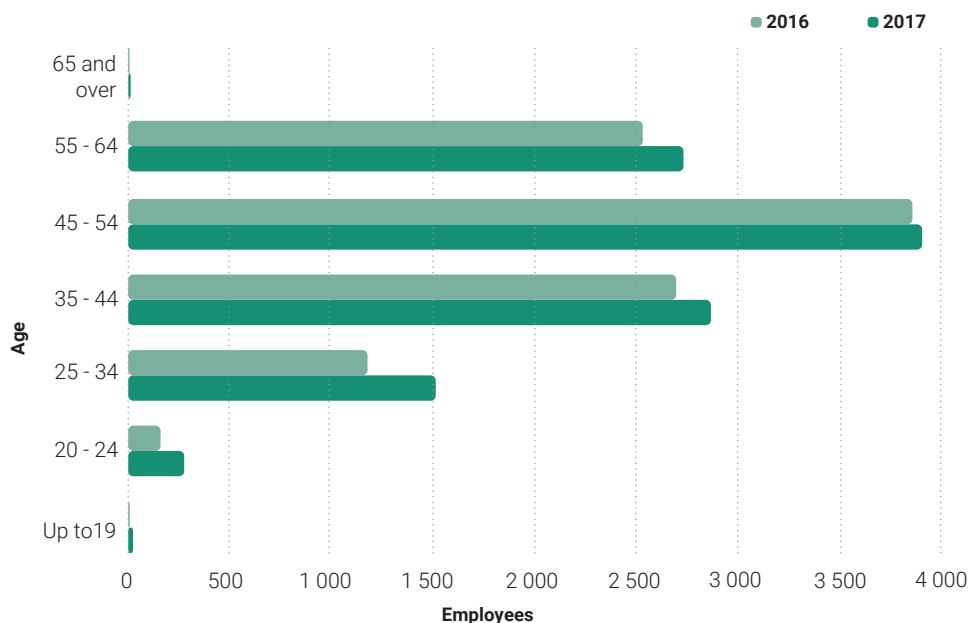
Status as on 31 December

Age groups	Number of employees		Employment structure, %		Indices
	2016	2017	2016	2017	2017 2016
Total	10 394	11 286	100.0	100.0	108.6
Up to 19	1	20	0.0	0.2	- ¹⁾
20-24	155	272	1.5	2.4	175.5
25-34	1 173	1 508	11.3	13.4	128.6
35-44	2 689	2 859	25.9	25.3	106.3
45-54	3 849	3 898	37.0	34.5	101.3
55-64	2 525	2 724	24.3	24.1	107.9
65 and over	2	5	0.0	0.1	250.0

¹⁾ Index exceeds 999.9.

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

G 10.3 Group's employees by age, 2016 and 2017



10.14 Profit and loss account of the Zagreb Holding Group

Thousands of HRK

	2016	2017	Indices
			2017 2016
Total income	5 282 222	5 428 744	102.8
Operating income	5 045 106	5 221 257	103.5
Sales income	3 842 428	3 793 578	98.7
Other operating income	1 202 678	1 427 679	118.7
Financial income	237 116	207 487	87.5
Total expenses	5 171 912	5 413 318	104.7
Operating expenses	4 841 253	5 118 880	105.7
Cost of material and services	2 263 344	2 244 894	99.2
Staff costs	1 609 351	1 678 606	104.3
Depreciation	548 140	529 667	96.6
Value adjustment of assets	167 283	423 624	253.2
Provisioning	107 998	106 342	98.5
Other operating expenses	145 137	135 747	93.5
Financial expenses	330 659	294 438	89.0

10.14 Profit and loss account of the Zagreb Holding Group

(Continued)

Thousands of HRK

	2016	2017	Indices
			$\frac{2017}{2016}$
Profit before tax	110 310	15 426	14.0
Tax (expense)	-35 378	-13 722	38.8
Profit in the year	74 932	1 704	2.3
Other comprehensive profit			
Profit from revaluation of real estate properties (net)	86 675	-	-
Profit from valuation of available-for-sale financial assets	4 610	-2 606	-
Other changes in comprehensive profit	-37 137	-	-
Total comprehensive profit in the year	129 080	-902	-

Source: ZH; 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

	2015		2016		2017	
	Plots		Plots		Plots	
	Area, ha	Number	Area, ha	Number	Area, ha	Number
Total	7 235	17 064	7 336	17 230	7 541	17 696
Arable land	5 040	10 011	5 108	10 189	5 293	10 488
Greenhouses	42	365	39	390	39	398
Meadows	1 693	4 081	1 713	3 982	1 697	4 030
Grazing land	70	94	82	130	57	108
Vineyards	108	1 074	101	1 015	100	1 003
Orchards	245	1 298	258	1 384	288	1 533
Plant nurseries	8	2	11	9	14	13
Permanent cropland, mixed crops	14	92	12	82	12	76
Other types of land	15	47	12	49	41	47

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

11.2 Number of domestic animals

	2015	2016	2017
Cattle			
Number of heads	3 336	3 030	3 145
Number of farms	501	479	448
Average number of livestock per farm	6.7	6.3	7.1
Pigs			
Number of heads	9 680	9 522	9 073
Number of farms	1 081	1 064	1 037
Average number of livestock per farm	9.0	8.9	8.8
Sheep			
Number of heads	1 713	2 461	2 345
Number of farms	55	68	74
Average number of livestock per farm	31.1	36.2	31.7
Goats			
Number of heads	387	473	506
Number of farms	52	62	69
Average number of livestock per farm	7.4	7.6	7.3
Horses			
Number of heads	615	559	588
Number of farms	99	101	102
Average number of livestock per farm	6.2	5.5	5.8

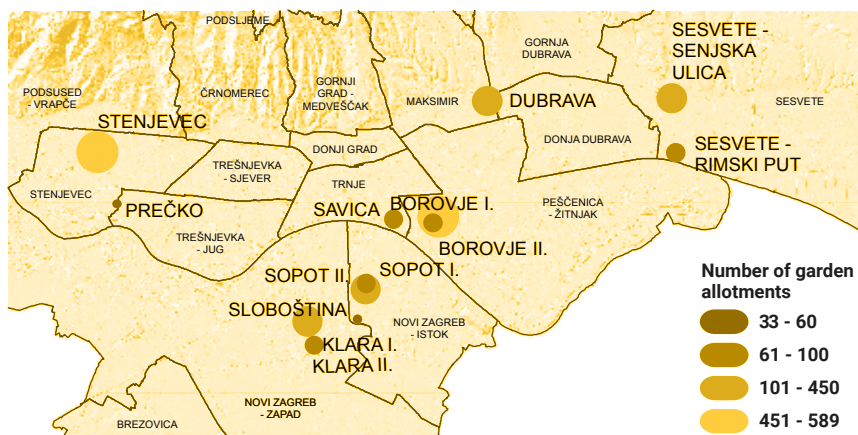
Source: Croatian Agricultural Agency

11.3 Allotment gardens

City garden name	City district	2015		2016		2017		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	2 017	1 686	2 081	1 780	2 083	1 772	222 098
Savica	Trnje	62	62	62	62	64	64	20 000
Dubrava	Maksimir	129	118	129	129	129	129	11 500
Borovje I.	Peščenica – Žitnjak	90	90	90	90	90	90	14 264
Borovje II.	Peščenica – Žitnjak	589	269	589	288	589	278	48 719
Sopot I.	Novi Zagreb – east	227	227	227	227	227	227	24 865
Sopot II.	Novi Zagreb – east	65	65	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	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	65	65	65	65	65	65	5 970

Source: City Office for Agriculture and Forestry

K 11.1 Allotment gardens



11.4 Ecological agriculture

	2016	2017
Organic holdings – total	184	229
Agricultural producers	153	194
Agricultural processors	31	35
Area of ecologically used agricultural land by categories – total, ha	1 660	1 846
Arable land and gardens	1 311	1 398
Permanent grassland	156	95
Permanent cropland (no strawberries)	193	353
Ecological production of used agricultural land, t		
Grains	1 599	1 418
Industrial plants	639	555
Silage	1 276	1 229
Vineyards	168	21
Number of ecologically bred livestock by species		
Cattle	234	209
Pigs	...	...
Sheep	58	165
Goats	52	57

Source: Ministry of Agriculture and CBS

11.5 Area of forest land

ha

	Forest land by ownership, status as of 31 December								
	2015			2016			2017		
	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	20 168	10 241	9 927
Forests – total	19 515	9 838	9 677	19 515	9 838	9 677	19 732	9 838	9 894
Non-coniferous wood	16 257	8 354	7 903	16 257	8 354	7 903	18 177	8 354	9 823
Common beech	3 426	2 642	784	3 426	2 642	784	5 522	2 642	2 880
Common oak	3 153	2 525	628	3 153	2 525	628	3 615	2 525	1 090
Sessile oak	3 831	2 274	1 557	3 831	2 274	1 557	5 322	2 274	3 048
Downy oak	-	-	-	-	-	-	48	-	48
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								
	2015			2016			2017		
	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	70	42	28
Common hornbeam	279	183	96	279	183	96	1 301	183	1 118
Other hardwood	5 070	338	4 732	5 070	338	4 732	1 816	338	1 478
Black alder	124	105	19	124	105	19	228	105	123
Poplar and willow plantations	253	243	10	253	243	10	243	243	-
Other non-coniferous softwood	49	1	48	49	1	48	11	1	10
Coniferous wood	3 194	1 442	1 752	3 194	1 442	1 752	1 455	1 442	13
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	146	146	-
Degraded forest stands	64	42	22	64	42	22	100	42	58
Other forest land – total	267	267	-	267	267	-	298	267	31
Bare land:									
Production (clearings, rocky terrain, etc.)	119	119	-	119	119	-	142	119	23
Non-production (clearcuts, sods, plan, etc.)	148	148	-	148	148	-	156	148	8
Barren land – total (forest roads, waterways, canals etc.)	136	136	-	136	136	-	138	136	2

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	2017	2013	2017	2013	2017
Forests – total	18 350	19 732	8 745	9 838	9 605	9 894
For economic purposes	11 014	10 968	3 819	4 095	7 195	6 873
Protection forests	-	91	-	91	-	-
Special-purpose forests	7 336	8 673	4 926	5 652	2 410	3 021
Forests and parts of forests intended for production of forest seed	-	-	-	-	-	-
Protected areas	7 336	7 641	4 926	4 620	2 410	3 021
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

	2014	2015	2016	2017
Total	87 686	73 910	68 202	81 353
Hardwood	78 158	65 148	56 692	68 545
Oak	33 426	25 099	23 749	22 500
Beech	32 406	25 855	23 287	31 512
Poplar	25	2	-	66
Other softwood	12 301	14 192	9 656	14 467
Softwood	9 528	8 762	11 510	12 808
Fir, spruce, and Douglas fir	6 307	6 178	7 628	5 098
Pine and larch	2 892	1 384	2 470	6 320
Other softwood	329	1 200	1 412	1 390

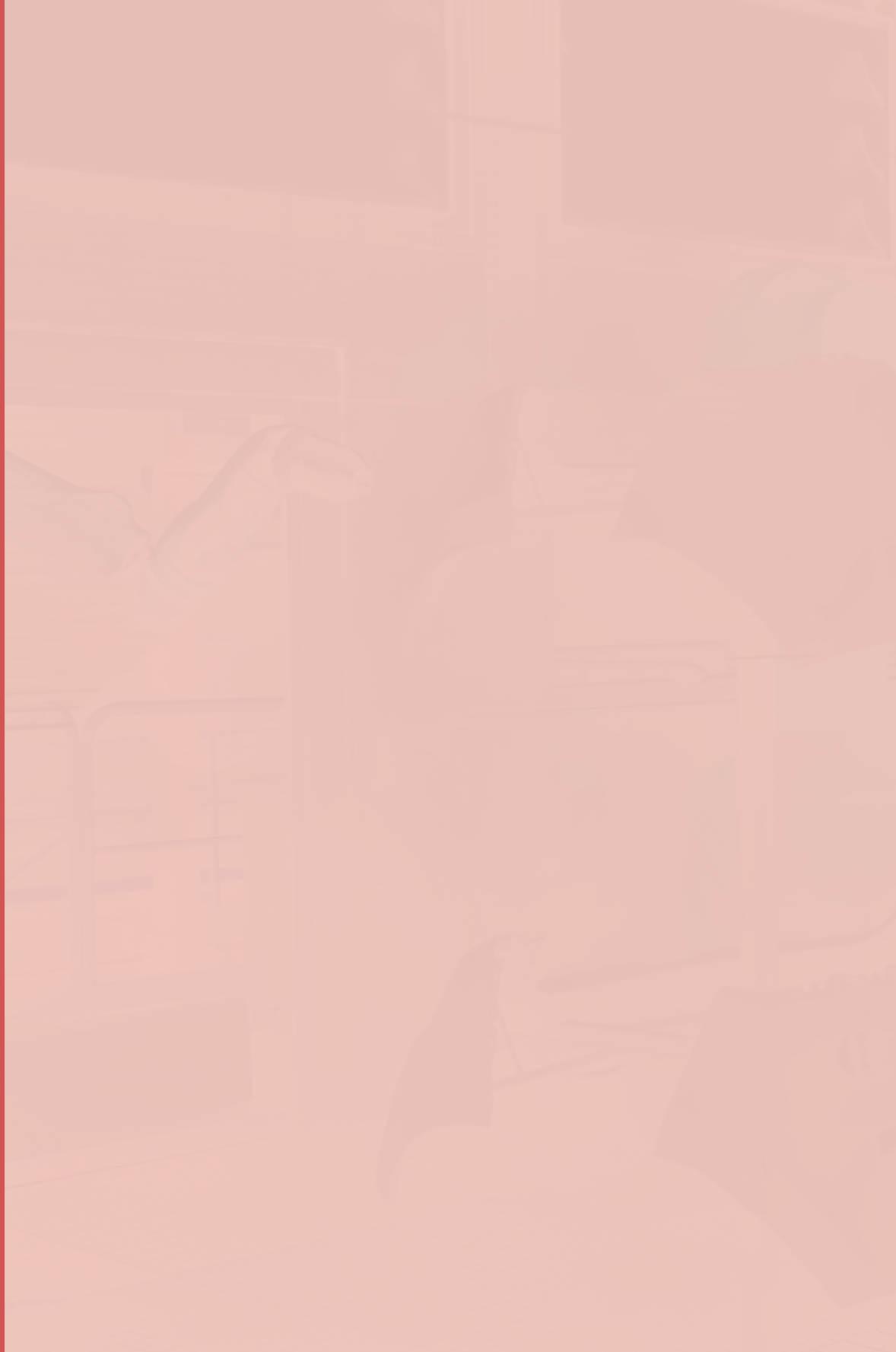
Source: Croatian Forest Management Company, Forest Administration, subsidiary Zagreb; Faculty of Forestry – Department of Training and Forest Research Centres and Croatian Advisory Service; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

11.8 Production of forest products by ownership¹⁾m³

	2016			2017			Indices 2017/2016		
	Total	State forests	Private forests	Total	State forests	Private forests	Total	State forests	Private forests
Total amount of harvested wood	57 184	54 511	2 673	68 084	61 997	6 087	119.1	113.7	227.7
Coniferous wood	9 865	9 865	-	11 102	11 102	-	112.5	112.5	-
Non-coniferous wood	47 319	44 646	2 673	56 982	50 895	6 087	120.4	114.0	227.7
Firewood	27 140	26 632	508	34 186	31 751	2 435	126.0	119.2	479.3
Coniferous wood	2 423	2 423	-	3 918	3 918	-	161.7	161.7	-
Non-coniferous wood	24 717	24 209	508	30 268	27 833	2 435	122.5	115.0	479.3
Industrial wood	30 044	27 879	2 165	33 898	30 246	3 652	112.8	108.5	168.7
Coniferous wood	7 442	7 442	-	7 184	7 184	-	96.5	96.5	-
Non-coniferous wood	22 602	20 437	2 165	26 714	23 062	3 652	118.2	112.8	168.7
Logs (sawlog and veneer)	28 425	26 260	2 165	32 721	29 069	3 652	115.1	110.7	168.7
Coniferous wood	6 847	6 847	-	6 553	6 553	-	95.7	95.7	-
Non-coniferous wood	21 578	19 413	2 165	26 168	22 516	3 652	121.3	116.0	168.7
Pulpwood	-	-	-	631	631	-	-	-	-
Coniferous wood	-	-	-	631	631	-	-	-	-
Non-coniferous wood	-	-	-	-	-	-	-	-	-
Other industrial wood	1 619	1 619	-	546	546	-	33.7	33.7	-
Coniferous wood	595	595	-	-	-	-	-	-	-
Non-coniferous wood	1 024	1 024	-	546	546	-	53.3	53.3	-

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					
			2015		2016		2017 ¹⁾	
			Total	of which abroad	Total	of which abroad	Total	of which abroad
Total			26 952 646	10 365 245	26 739 767 *	11 172 525 *	33 707 484	12 110 781
B	Mining and quarrying		184 848	38 679	118 362	3 704	53 699	343
	08	Other mining and quarrying	10 940	-	4 518	-	2 505	-
	09	Mining support service activities	173 908	38 679	113 844	3 704	51 194	343
C	Manufacturing		21 431 030	9 677 428	21 604 150 *	10 435 741 *	22 254 737	10 962 717
	10	Manufacture of food products	4 534 039	892 349	4 413 173	861 759	4 812 033	942 689
	11	Manufacture of beverages	1 867 400	218 816	1 957 104	257 162	2 117 834	286 744
	13	Manufacture of textiles	61 757	21 218	70 846	23 840	63 533	22 571
	14	Manufacture of apparel	146 311	25 046	127 084	18 661	149 875	24 310
	15	Manufacture of leather and related products	33 943	6 467	13 697	3 026	28 559	6 524
	16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	230 318	108 235	283 255	145 305	326 840	134 155
	17	Manufacture of paper and paper products	817 649	291 325	799 577	266 815	772 238	257 160
	18	Printing and reproduction of recorded media	840 166	68 399	846 032	99 215	710 123	85 845
	19	Manufacture of coke and refined petroleum products	181 141	40 823	178 876	42 799	167 934	36 595
	20	Manufacture of chemicals and chemical products	492 561	206 288	484 245	200 154	489 335	224 685
	21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	2 940 970	2 731 848	2 948 919	2 712 469	3 375 157	3 139 955
	22	Manufacture of rubber and plastic products	472 752	279 913	478 671	271 493	532 519	306 641

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					
			2015		2016		2017 ¹⁾	
			Total	of which abroad	Total	of which abroad	Total	of which abroad
	23	Manufacture of other non-metallic mineral products	291 973	88 234	329 132	122 728	399 667	164 557
	24	Manufacture of basic metals	37 001	8 624	31 866	10 071	31 066	10 807
	25	Manufacture of fabricated metal products, except machinery and equipment	668 645	347 454	601 009	297 559	664 520	368 117
	26	Manufacture of computer, electronic, and optical products	859 358	435 343	818 077	452 256	879 189	454 861
	27	Manufacture of electrical equipment	3 436 076	2 368 230	3 863 367	2 977 515	3 815 216	2 943 086
	28	Manufacture of machinery and equipment n. e. c.	284 645	192 987	380 699	264 914	272 430	163 282
	29	Manufacture of motor vehicles, trailers, and semi- trailers	314 628	280 950	341 560	327 883	324 034	317 486
	30	Manufacture of other transport equipment	684 348	18 727	259 535 *	24 478 *	99 562	27 201
	31	Manufacture of furniture	273 751	149 008	212 819	109 161	238 544	123 379
	32	Other manufacturing	126 575	8 136	147 760	7 688	150 925	4 678
	33	Repair and installation of machinery and equipment	1 835 023	889 008	2 016 847 *	938 790 *	1 833 604	917 389
D		Electricity, gas, steam and air conditioning supply	5 102 301	649 138	4 775 702	733 080	11 141 897	1 147 721
	35	Electricity, gas, steam, and air conditioning supply	5 102 301	649 138	4 775 702	733 080	11 141 897	1 147 721
E		Water supply; sewerage, waste management, and remediation activities	234 467	-	241 553	-	257 151	-
	36	Water collection, treatment, and supply	234 467	-	241 553	-	257 151	-

¹⁾ Provisional data.

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⁾

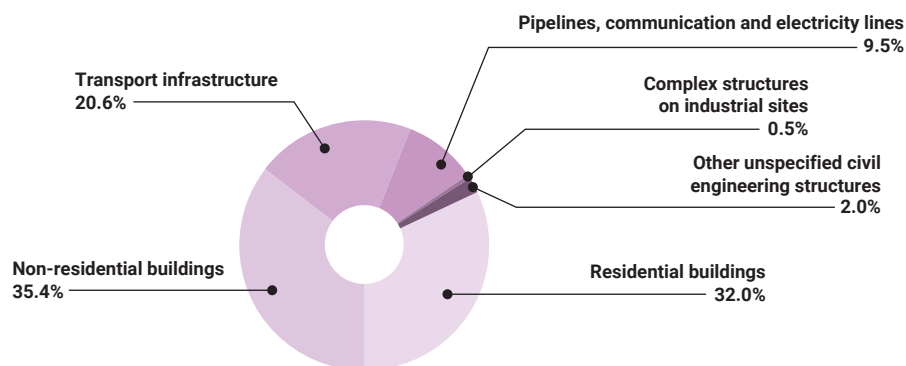
Thousands of HRK

	2013	2014	2015	2016	2017
Value of completed construction work by type of building – total	2 856 253	2 400 008	2 314 290	2 331 291	2 643 798
On buildings	1 714 919	1 364 976	1 347 905	1 497 560	1 781 689
Residential	644 833	478 762	607 887	551 469	846 610
Non-residential	1 070 086	886 214	740 018	946 091	935 079
On other structures	1 141 334	1 035 032	966 385	833 731	862 109
Transport infrastructure	778 920	810 564	713 807	538 191	546 083
Pipelines, communication, and electricity lines	309 592	162 468	190 697	249 307	250 730
Complex structures on industrial sites	26 596	26 225	29 622	19 242	13 713
Other unspecified civil engineering structures	26 226	35 775	32 259	26 991	51 583

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 2017

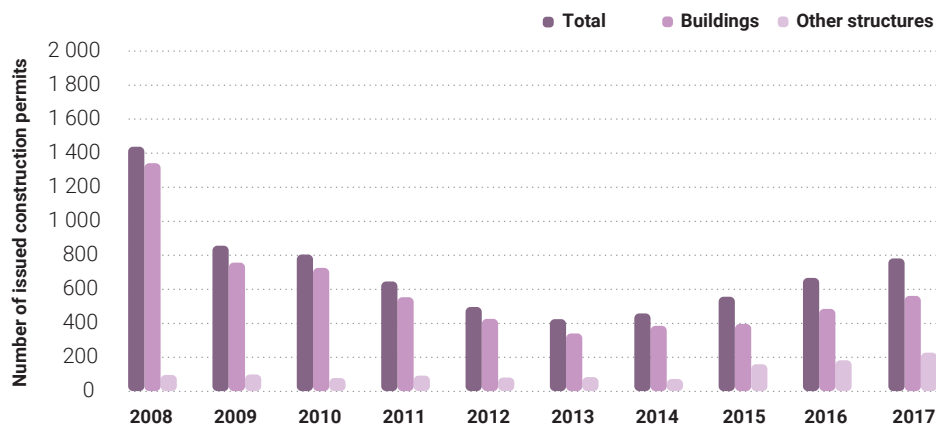


13.6 Issued construction permits by type of structure

	2013	2014	2015	2016	2017
Number of issued construction permits	424	458	556	667	774
Buildings	340	385	397	485	558
Other structures	84	73	159	182	216
Estimated value of construction work – total, thousands HRK	1 745 233	2 070 815	1 718 076	2 965 810	3 573 377
Buildings	1 457 075	1 765 876	1 304 364	2 488 414	3 007 870
Other structures	288 158	304 939	413 712	477 396	565 507
Dwellings					
Number	1 163	1 292	995	2 016	3 170
Available surface area, m ²	83 984	103 421	82 517	154 915	233 861

Source: CBS

G 13.2 Issued construction permits by type of structure

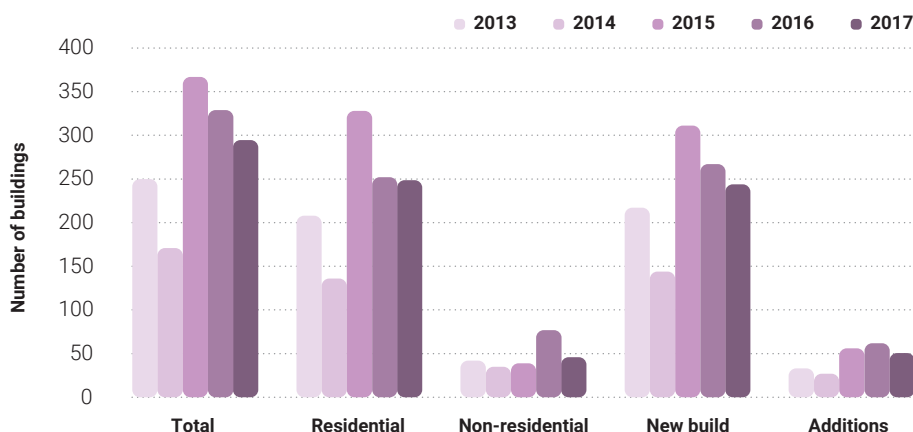


13.7 Issued construction permits for buildings by purpose, size and type of construction

	2013	2014	2015	2016	2017
Construction permits – total	340	385	397	485	558
Permits for residential buildings – total	261	276	327	372	451
By size					
With 1 apartment	90	97	103	115	134
With 2 apartments	31	27	25	37	16
With 3 and more apartments	56	75	80	105	151
Residential buildings for communities	1	-	2	1	1
By type of construction					
New build					
Number of permits	178	199	210	258	302
Surface area, m ²	118 039	146 447	103 174	214 742	349 480
Volume, m ³	365 698	444 627	316 649	676 568	1 119 312
Additions					
Number of permits	42	34	41	38	40
Surface area, m ²	8 504	5 968	9 478	6 812	6 234
Volume, m ³	24 282	17 329	28 652	20 813	18 246
Conversions and other reconstructions					
Number of permits	41	43	76	76	109
Permits for non-residential buildings – total	79	109	70	113	107
By type of construction					
New build					
Number of permits	38	48	25	58	45
Surface area, m ²	132 305	110 700	50 505	234 221	148 596
Volume, m ³	541 931	589 702	177 175	956 520*	533 742
Additions					
Number of permits	15	20	9	24	27
Surface area, m ²	9 752	12 923	29 559	20 572	47 797
Volume, m ³	35 612	48 311	115 243	71 874	184 566
Conversions and other reconstructions					
Number of construction permits	26	41	36	31	35

Source: CBS

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

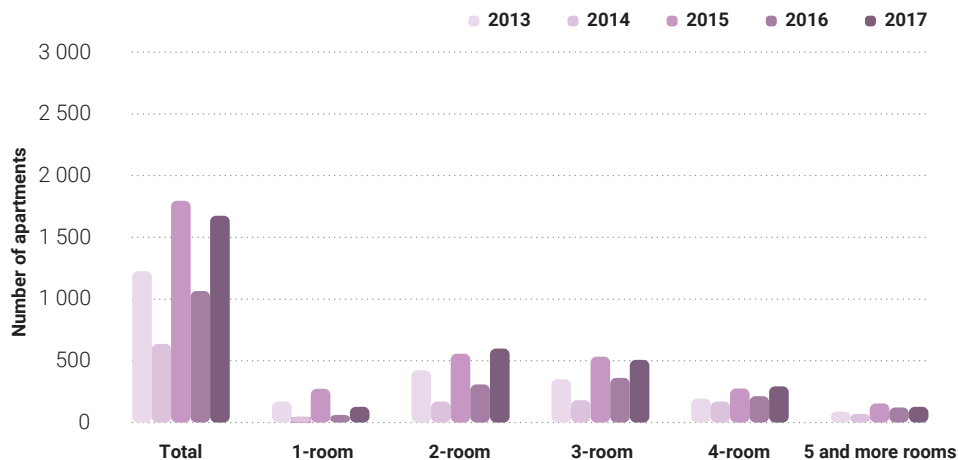


13.8 Completed buildings and apartments by number of rooms

	Completed buildings and apartments					Indices				
	2013	2014	2015	2016	2017	<u>2013</u> 2012	<u>2014</u> 2013	<u>2015</u> 2014	<u>2016</u> 2015	<u>2017</u> 2016
Completed buildings – total	250	171	367	329	295	69.6	68.4	214.6	89.6	89.7
Residential	208	136	328	252	249	68.6	65.4	241.2	76.8	98.8
With 1 apartment	99	72	190	125	117	73.3	72.7	263.9	65.8	93.6
With 2 apartments	28	27	37	37	36	62.2	96.4	137.0	100.0	97.3
With 3 and more apartments	81	36	101	90	96	65.9	44.4	280.6	89.1	106.7
Residential buildings for communities	-	1	-	-	-	-	-	-	-	-
Non-residential	42	35	39	77	46	75.0	83.3	111.4	197.4	59.7
Completed apartments – total	1 227	638	1 798	1 065	1 672	45.0	52.0	281.8	59.2	157.0
By number of rooms										
1-room	167	48	273	62	137	23.9	28.7	568.8	22.7	221.0
2-room	423	169	560	308	599	39.6	40.0	331.4	55.0	194.5
3-room	351	181	534	362	504	62.7	51.6	295.0	67.8	139.2
4-room	196	170	275	214	299	69.0	86.7	161.8	77.8	139.7
5 and more rooms	90	70	156	119	133	76.3	77.8	222.9	76.3	111.8

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 buildings		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of apartments	Available surface area, m ²	Average available surface area, m ²
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
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
Additions	62	32 504	117 468	56	5 820	103.9
Conversion of non-residential structures into residential structures	-	-	-	2	98	49.0

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

(Continued)

	Completed buildings			Completed buildings		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of apartments	Available surface area, m ²	Average available surface area, m ²
2017 Total	295	240 992	806 588	1 672	123 039	73.6
By type of building						
Residential buildings	249	168 243	522 509	1 639	120 080	73.3
Non-residential buildings	46	72 749	284 079	33	2 959	89.7
By type of construction work						
New build	244	226 832	758 136	1 617	117 765	72.8
Additions	51	14 160	48 452	48	4 599	95.8
Conversion of non-residential structures into residential structures	-	-	-	7	675	96.4

Source: CBS

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

	2015			2016			2017		
	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	367	312 967	1 044 528	329	253 840	1 011 451	295	240 992	806 588
By type of building									
Residential	328	191 641	602 678	252	119 641	376 527	249	168 243	522 509
With 1 apartment	190	40 510	124 345	125	27 861	87 062	117	25 064	77 682
With 2 apartments	37	11 015	32 537	37	9 751	30 377	36	10 293	31 392
With 3 and more apartments	101	140 116	445 796	90	82 029	259 088	96	132 886	413 435
Residential buildings for communities	-	-	-	-	-	-	-	-	-
Non-residential	39	121 326	441 850	77	134 199	634 924	46	72 749	284 079
Hotels and similar buildings	1	171	494	2	1 859	5 348	1	1 436	4 715
Restaurants, bars, and other similar facilities	-	-	-	3	1 617	5 926	1	20	48
Office buildings	11	70 336	219 741	12	43 936	142 619	12	32 160	101 423
Wholesale and retail trade buildings	9	32 929	123 916	15	53 467	320 678	8	6 091	22 325

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

(Continued)

	2015			2016			2017		
	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	6	5 494	46 801	9	658	2 079	6	5 772	17 178
Industrial buildings	3	1 054	5 126	13	15 821	75 305	8	19 945	110 303
Reservoirs and silos	-	-	-	1	-	775	-	-	-
Closed warehouses	4	2 667	19 467	2	5 071	38 619	4	1 371	7 328
Covered warehouses	-	-	-	1	197	473	1	880	4 662
Buildings for performing art and culture activities	-	-	-	1	523	2 217	-	-	-
Kindergartens and primary schools	-	-	-	5	5 609	19 861	-	-	-
Higher education buildings (faculties and other)	-	-	-	-	-	-	-	-	-
Scientific research facilities	1	8 026	24 322	1	159	1 104	-	-	-
Hospitals and clinics	-	-	-	-	-	-	-	-	-
Other health care facilities	-	-	-	-	-	-	-	-	-
Sports venues	-	-	-	2	1 706	6 880	-	-	-
Buildings for breeding and housing livestock and poultry, and storing agricultural products	-	-	-	3	671	2 807	1	4 135	12 585
Other agricultural facilities	1	20	75	3	194	673	1	367	1 830
Buildings for performing religious ceremonies	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)

	2015			2016			2017		
	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	-	-	-	-	-	-	-	-	-
Other unclassified buildings	2	562	1 707	1	28	89	3	572	1 682
By type of construction work									
New build	311	285 519	965 481	267	221 336	893 983	244	226 832	758 136
Residential buildings	283	183 083	576 809	211	111 822	352 892	217	162 399	505 188
Non-residential buildings	28	102 436	388 672	56	109 514	541 091	27	64 433	252 948
Additions	56	27 448	79 047	62	32 504	117 468	51	14 160	48 452
Residential buildings	45	8 558	25 869	41	7 819	23 635	32	5 844	17 321
Non-residential buildings	11	18 890	53 178	21	24 685	93 833	19	8 316	31 131

Source: CBS

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

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

(Continued)

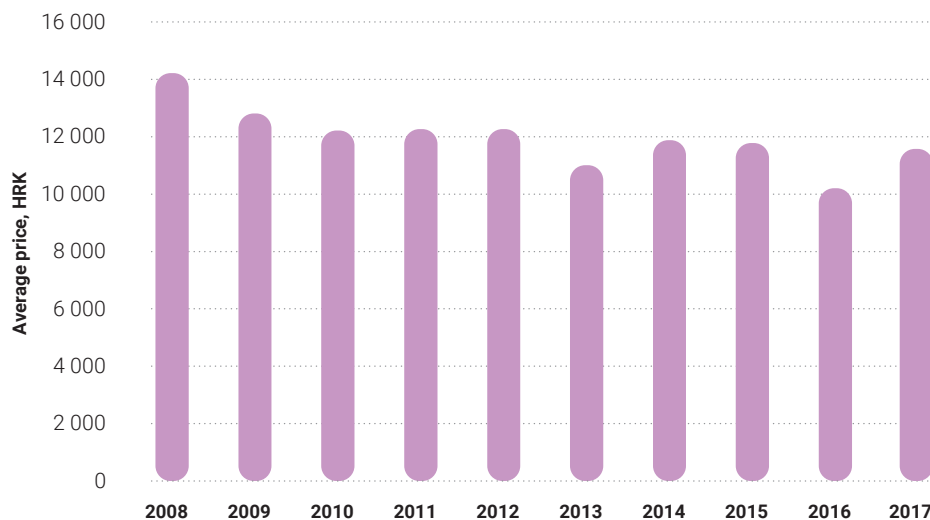
	Number of apartments	Available surface area, m ²	Apartments by number of rooms							
			1 – room	2 – room	3 – room	4 – room	5 – room	6 – room	7 – room	8- and more rooms
Total number of apartments in 2015	1 798	140 704	273	560	534	275	84	50	15	7
Apartments in new buildings	1 733	133 753	269	553	510	263	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	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	-	-
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	-	-	-	-	-
Total number of apartments in 2017	1 672	123 039	137	599	504	299	85	35	8	5
Apartments in new buildings	1 617	117 765	136	588	484	279	84	34	7	5
Residential buildings	1 584	114 806	136	581	476	266	80	33	7	5
With 1 apartment	95	16 307	-	4	8	20	27	24	7	5
With 2 apartments	64	7 238	-	7	17	25	11	4	-	-
With 3 and more apartments	1 425	91 261	136	570	451	221	42	5	-	-
Non-residential buildings ¹⁾	33	2 959	-	7	8	13	4	1	-	-
Apartments built by additions	48	4 599	1	10	15	20	-	1	1	-
Apartments built by converting non-residential structures into residential structures	7	675	-	1	5	-	1	-	-	-

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

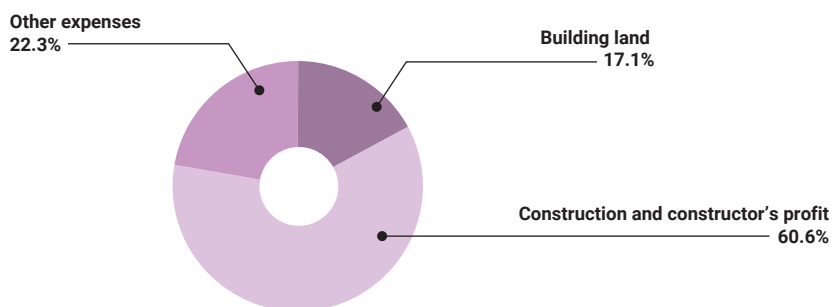
13.12 Average prices of sold new apartments

	2009	2010	2011	2012	2013	2014	2015	2016	2017
Sold apartments									
Number of apartments – total	1 816	1 247	1 389	1 501	1 213	1 153	843	1 570	1 225
Surface area, m ²	113 515	73 044	79 782	91 500	74 276	74 487	57 110	103 793	79 609
Average surface area, m ²	62.5	58.6	57.4	61.0	61.2	64.6	67.7	66.1	65.0
Average price per m², HRK									
Total	12 809	12 218	12 265	12 268	11 008	11 882	11 779	10 206	11 520
Building land	2 117	2 154	2 487	2 563	2 176	2 383	2 028	1 831	1 971
Construction and contractor's profit	7 723	6 932	7 276	7 281	6 885	7 141	7 313	6 374	6 980
Other costs	2 969	3 132	2 502	2 424	1 947	2 358	2 438	2 001	2 569

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 2017





14

Transport and communications



NOTES ON METHODOLOGY

Source and method of data collection

Data on registered motor vehicles, road traffic accidents and on persons killed in road traffic accidents 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

Data on motor vehicles and trailers include those motor vehicles and trailers which are allowed to participate in road traffic, are registered and have a valid vehicle traffic licence, i.e. those which are insured and bear provisional or transferable licence plates. The registered vehicle is issued a vehicle traffic licence and licence plates.

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 arriving and departing passengers, 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 is 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.

Number of rail transport lines means the number of rails that participate on average on working days in urban railway transport on the territory of the City of Zagreb.

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

Railway halt is an official stop-off point on the railway line at which passenger trains stop according to a timetable only for entry and departure of passengers, and at which a passenger train may start or finish its journey.

Station service includes information services, operation of traffic office, use of a waiting area, departure platforms, maintenance, lighting, cleaning of the station, and is charged with every purchased ticket. The service is based on the General Terms and Conditions for Performing Coach Terminal Activities and the service price list.

Number of bus departures (departing buses) means the number of buses that departed the Zagreb Bus Station within public line transport (national and international).

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 air traffic carried out by domestic carriers also includes passengers on international lines if transported by airplanes within the country, between two domestic airports.

International air traffic refers to international lines on which domestic air carriers perform traffic between domestic and foreign airports.

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 killed at the scene or any person 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 and valuable item mail, articles for the blind, direct mail, printed matter and prepaid business reply service (IBRS/CCRI).

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.

EMS is a special express consignment within inbound international postal traffic which provides the fastest delivery and requires the recipient's direct signature.

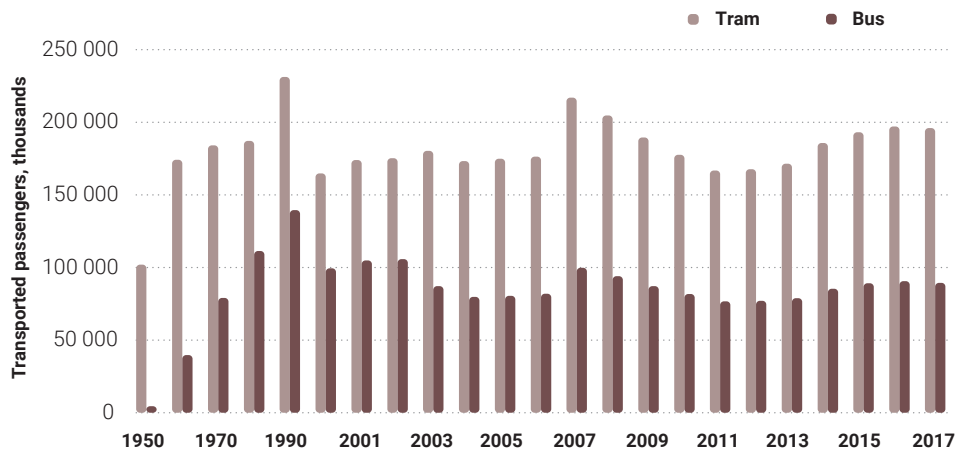
HP Express service provides collecting, directing, transport and delivery of hpekspres consignments, business packages and e-parcels. Such consignments may contain printed documents, goods, money and other items. The sender receives the corresponding delivery receipt, while the recipient signs for the consignment and the delivery time is documented, which confirms receipt of the consignment at the scheduled time.

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
2017	370 505	274 059	274	58	197 078	413	90 634

Source: Ministry of the Interior and ZET d. o. o.

G 14.1 Number of passengers transported in city transport from 1950 to 2017



14.2 Registered vehicles, status as of 31 December

	Total	Mopeds	Motorcycles	Personal vehicles	Buses	Goods vehicles and work vehicles	Other vehicles
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
2017							
Total	370 505	8 122	9 045	308 125	941	35 402	8 870
Natural persons	274 059	6 673	8 183	251 224	10	4 515	3 454
Legal entities	96 446	1 449	862	56 901	931	30 887	5 416

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
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
2017	14 397	12 320	2 077	2 305 181	902 287	1 402 894

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
2017	94	575	1 150

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
2017	415	270	145

Source: City of Zagreb, ZG Cycle

14.6 Tram transport¹⁾

	Number of routes			Route length, km	Number of seats on the tram	Distance covered, thousands of km	Number of transported passengers, thousands
	Total	Daily	Night				
2013	19	15	4	210	54 281	13 294	171 426
2014	19	15	4	210	54 281	14 300	185 606
2015	19	15	4	210	53 402	13 550	193 152
2016	19	15	4	210	53 402	13 302	197 088
2017	19	15	4	210	53 402	13 250	197 078

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: ZET d. o. o.

14.7 City bus transport¹⁾

	Number of routes				Route length, km	Number of seats on the bus	Distance covered, thousands of km	Number of transported passengers, thousands
	Total	Daily	Night	Special				
2013	140	132	4	4	1 366	44 149	27 499	78 848
2014	140	133	4	3	1 371	40 987	27 464	85 365
2015	145	138	4	3	1 438	41 234	27 466	89 172
2016	145	138	4	3	1 378	40 437	27 774	90 648
2017	149	143	4	2	1 455	41 332	28 523	90 634

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

Source: ZET d. o. o.

14.8 Transport by the funicular¹⁾

	Route length, m	Number of seats	Operating hours	Number of transported passengers, thousand
2013	60	56	613	606
2014	60	56	621	687
2015	60	56	648	741
2016	60	56	709	715
2017	60	56	799	759

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

Source: ZET d. o. o.

14.9 Rail transport¹⁾

	Railway length, km	Train routes length	Number of transported passengers, thousands
2013	58	236	8 203*
2014	58	236	7 768*
2015	58	240	7 839*
2016	58	238	8 129*
2017	58	231	8 374

¹⁾ See Notes on Methodology.

Source: HŽ Passenger Transport Limited Liability Company

14.10 Passengers on halts on the territory of the City of Zagreb¹⁾

Direction	Entry/exit of passengers ²⁾		
	2015	2016	2017
1. Savski Marof - Zagreb GK and Zagreb GK - Dugo Selo			
Railway halt:			
Sesvetski Kraljevec	327 859	364 532	362 480
Sesvete	1 226 819	1 235 696	1 260 698
Čulinec	422 882	429 976	457 599
Trnava	445 214	448 978	464 517
Maksimir	652 316	672 780	695 841
Zagreb GK	7 106 006	7 163 790	7 240 390
Zagreb Zapadni kolodvor	940 954	932 291	983 954
Kustošija	509 029	508 623	518 863
Vrapče	756 226	775 759	751 410
Gajnice	654 041	644 172	645 103
Podsused	459 113	443 412	450 208
2. Zagreb GK - Rijeka			
Railway halt:			
Zagreb GK	891 085	943 875	871 915
Remetinec	94 888	97 464	90 972
Hrvatski Leskovac	66 922	59 234	57 204
Horvati	45 107	41 291	40 824
Mavračići	11 934	10 677	11 340
3. Zagreb GK - Sisak - Novska			
Railway halt:			
Zagreb GK	779 647	943 643	990 979
Zagreb Klara	39 507	42 957	46 273
Buzin	35 000	39 695	49 967
Odra	50 653	47 029	43 383

¹⁾ See Notes of Methodology.

²⁾ Estimate of entry/exit of passengers.

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

14.11 Services of the Zagreb Bus Station

Type of service	Unit of measure for service	2013	2014	2015	2016	2017
Tickets	number	1 354 496	1 402 363	1 503 566	1 494 890	1 448 296
Station services	HRK	1 356 375	1 415 363	1 506 578	1 503 245	1 449 925
Departing buses	number	161 562	165 339	179 570	185 993	176 842
Luggage storage	HRK	36 499	39 001	43 042	46 548	50 946

Source: Zagreb Bus Station

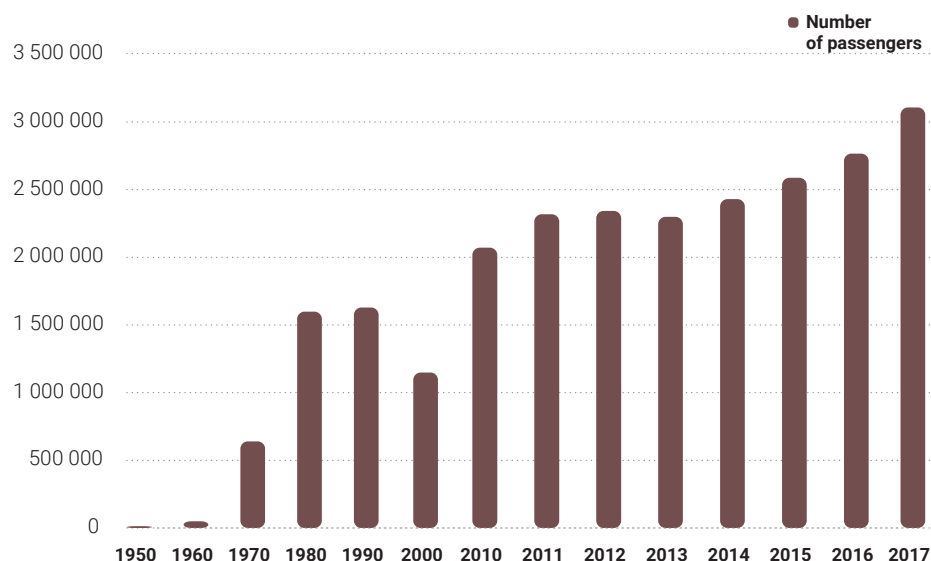
14.12 Traffic at the airport of Zagreb¹⁾

	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
2017	41 585	3 092 047	9 801

¹⁾ The new terminal of "Franjo Tuđman" International Airport opened on March 21, 2017

Source: MZLZ "Franjo Tuđman"

G 14.2 Passengers transported by air traffic from 1950 to 2017



14.13 Domestic and international traffic at the Airport of Zagreb

	Air traffic			Number of passengers transported by planes			Transport of goods and mail, tonnes
	Total	Domestic	Foreign	Total	Domestic airplanes	Foreign airplanes	
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
2017							
Total	41 585	22 696	18 889	3 092 047	1 641 395	1 450 652	9 801
Domestic traffic	8 073	8 073	-	524 140	524 140	-	476
International traffic	33 512	14 623	18 889	2 567 907	1 117 255	1 450 652	9 325

Source: MZLZ "Franjo Tuđman"

14.14 Air traffic at the Airport of Zagreb by airline

	Air traffic	Number of transported passengers						
		Total	Domestic airlines			Foreign airlines		
			Arrival	Departure	Transit	Arrival	Departure	Transit
2013								
Total	38 894	2 300 231	692 732	688 469	584	452 146	455 232	1 283
Regular flights	29 948	2 248 787	685 021	680 265	516	439 975	442 543	467
Special flights	390	41 659	7 711	8 204	68	12 171	12 689	816
Other non-commercial flights	8 556	9 785	...	...	...	...	...	...
2014								
Total	38 348	2 430 971	712 564	694 075	1 464	504 548	510 969	273
Regular flights	31 602	2 377 317	705 569	687 628	1 336	488 008	494 707	69
Special flights	430	46 576	6 995	6 447	128	16 540	16 262	204
Other non-commercial flights	6 316	7 078	...	...	...	...	...	...
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	2 766 087*	757 550	735 662	1 030	625 011	635 929	458
Regular flights	35 380	2 722 700*	753 541	731 253	1 030	613 036	623 840	-
Special flights	364	32 940*	4 009	4 409	-	11 975	12 089	458
Other non-commercial flights	5 052	10 447*	...	...	...	...	...	...
2017								
Total	41 585	3 092 047	832 836	806 709	185	713 376	728 425	448
Regular flights	36 609	3 056 806	827 499	801 203	185	707 439	720 480	-
Special flights	355	25 173	5 337	5 506	-	5 937	7 945	448
Other non-commercial flights	4 621	10 068	...	...	...	...	...	...

Source: MZLZ "Franjo Tuđman"

14.15 Traffic assets of the Airport of Zagreb

	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	Airlifts
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
2017	3 259	45	9	3	19	10	23	160	5	10	10	13	8

Source: MZLZ "Franjo Tudman"

14.16 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
2017	6 255	4 482	1 773	2 220	27	2 193

Source: Ministry of the Interior

14.17 Electronic communication services

	2013	2014	2015	2016	2017
Number of fixed network connections, thousands	...	...	296 601	283 198	276 667
Number of broadband Internet connections (DSL, cable networks, etc.)	225 233	239 839	248 422	263 334	273 682
Density of broadband Internet connections (number of connesctions per population)	28.51%*	30.36%*	31.45%*	33.33%*	34.64%

Source: HAKOM

14.18 Postal offices and capacity

	2013	2014	2015	2016	2017
Postal offices	74	74	74	74	74
Counters	317	273	270	270	242
Post-boxes	406	408	373	393	396
Deliverable regions	401	458	391	364	393
Postmen	424	508	428	390	439

Source: Croatian Post d. d.

14.19 Mail

	2013	2014	2015	2016	2017
Letters and others, thousand	198 832	210 163	239 951	176 308	174 531
National shipments, received	190 592	201 481	231 430	169 227	167 092
International shipments, received/dispatched	8 240	8 682	8 521	7 081	7 439
EMS and HP Express, thousands	1 469	1 437	1 824	2 446	3 254
National shipments, received	1 454	1 422	1 809	2 431	3 238
International shipments, received/dispatched	15	15	15	15	16
Packages, thousands	360	339	461	554	607
National shipments, received	304	242	332	389	394
International shipments, received/dispatched	56	97	129	165	213

Source: HP d. d.



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 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).

Data on held fairs and exhibitions were obtained from the Zagreb Fair branch of Zagreb Holding.

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.

The Zagreb Fair venue hosts specialized fairs and exhibitions, including the Zagreb Auto Show which takes place every even year, and the Zagreb Crafts Fair which has been taking place since 2016, where tradesmen, members of the Croatian Chamber of Economy, present their particular occupations.

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.

Fair or exhibition is an economic event or performance which is repeated over particular time periods and is limited in time, where products, goods and services are presented. A fair or exhibition can be general or specialized, may be aimed at direct trading or concluding trading affairs on the basis of exhibited products, goods and services.

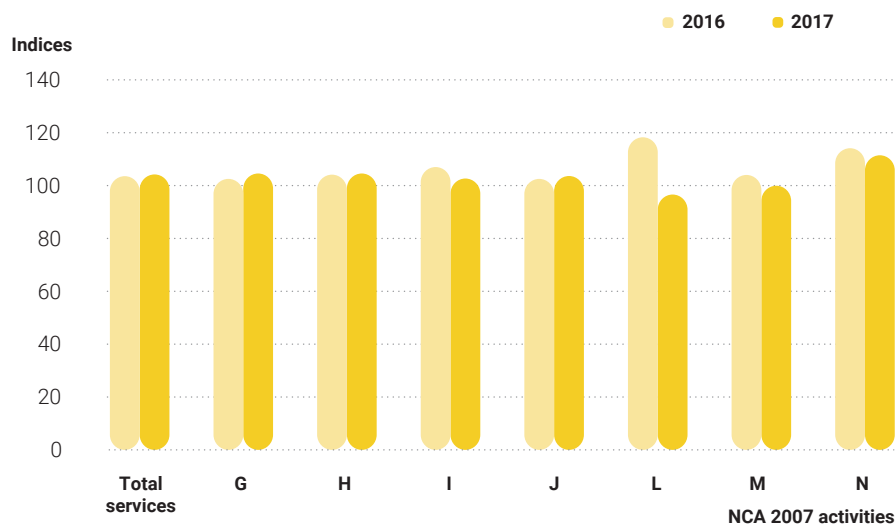
15.1 Nominal indices of service activities turnover by main activities of business entities

NCA 2007 Activities			Indices		
			<u>2015</u> 2014	<u>2016</u> 2015	<u>2017</u> 2016
Total services¹⁾			104.2	103.6	103.9
G	45 + 46 + 47	Wholesale and retail trade; repair of motor vehicles and motorcycles	104.3	102.6	104.3
H	49 + 50 + 52 + 53	Transportation and storage	103.3	104.2	104.3
I	55 + 56	Accommodation and food service activities	106.2	107.1	102.4
J	58 + 59 + 60 + 61 + 62 + 63	Information and communication	103.1	102.6	103.4
L	68	Real estate activities	-	118.3	96.3
M	69 + 70 + 71 + 73 + 74	Professional, scientific and technical activities	107.2	104.1	99.7
N	77 + 78 + 79 + 80 + 81 + 82	Administrative and support service activities	99.9	114.2	111.2

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 2016 and 2017



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

NCA 2007 Activities		Total trade					Retail trade turnover				
		2013 2012	2014 2013	2015 2014	2016 2015	2017 2016	2013 2012	2014 2013	2015 2014	2016 2015	2017 2016
Total		-	-	-	-	-	98.5	100.1	98.5	104.0	103.3
47	Retail trade, except of motor vehicles and motorcycles	101.7	99.1	99.0	98.7	103.3	98.6	102.1	98.7	103.7	103.6
47.11	Retail trade in non-specialised stores with food, beverages and tobacco predominating	98.3	96.0	98.3	91.4	98.1	95.1	94.4	101.4	102.1	100.4
47.19	Other retail trade in non-specialised stores	113.7	103.3	107.1	100.3	111.6	102.9	90.5	107.6	107.6	113.8
47.2	Retail trade of food, beverages and tobacco in specialised stores	113.7	104.6	95.7	97.6	84.5	97.6	105.1	97.3	96.8	89.8
47.3	Retail trade of motor fuels and lubricants in specialised stores	119.6	91.2	107.1	98.4	121.8	105.1	108.3	83.9	92.3	116.8
47.73; 47.74; 47.75	Pharmacies, retail trade of medical preparations and orthopaedic equipment, cosmetic and toilet products in specialised stores	99.9	98.0	106.3	103.4	94.2	100.0	97.7	105.0	103.5	94.2
47.51; 47.71; 47.72	Retail trade of textiles, wearing apparel, footwear and leather products in specialised stores	97.3	99.2	106.7	111.6	107.9	100.1	98.8	102.6	110.3	107.7

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

(Continued)

NCA 2007 Activities		Total trade					Retail trade turnover				
		<u>2013</u> 2012	<u>2014</u> 2013	<u>2015</u> 2014	<u>2016</u> 2015	<u>2017</u> 2016	<u>2013</u> 2012	<u>2014</u> 2013	<u>2015</u> 2014	<u>2016</u> 2015	<u>2017</u> 2016
47.43; 47.52; 47.54; 47.59; 47.63	Retail trade of audio and video equipment, hardware, paints and glass, electrical household appliances, furniture, light equipment, music and video recordings in specialised stores	102.8	115.7	112.4	110.7	107.1	108.9	122.5	120.8	101.5	106.8
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	107.5	64.4	99.5	123.4	108.0	114.7	89.6	107.4	113.5	104.2
Other activities (not pertaining to Section 47)		-	-	-	-	-	98.0	97.8	90.9	103.5	102.5

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

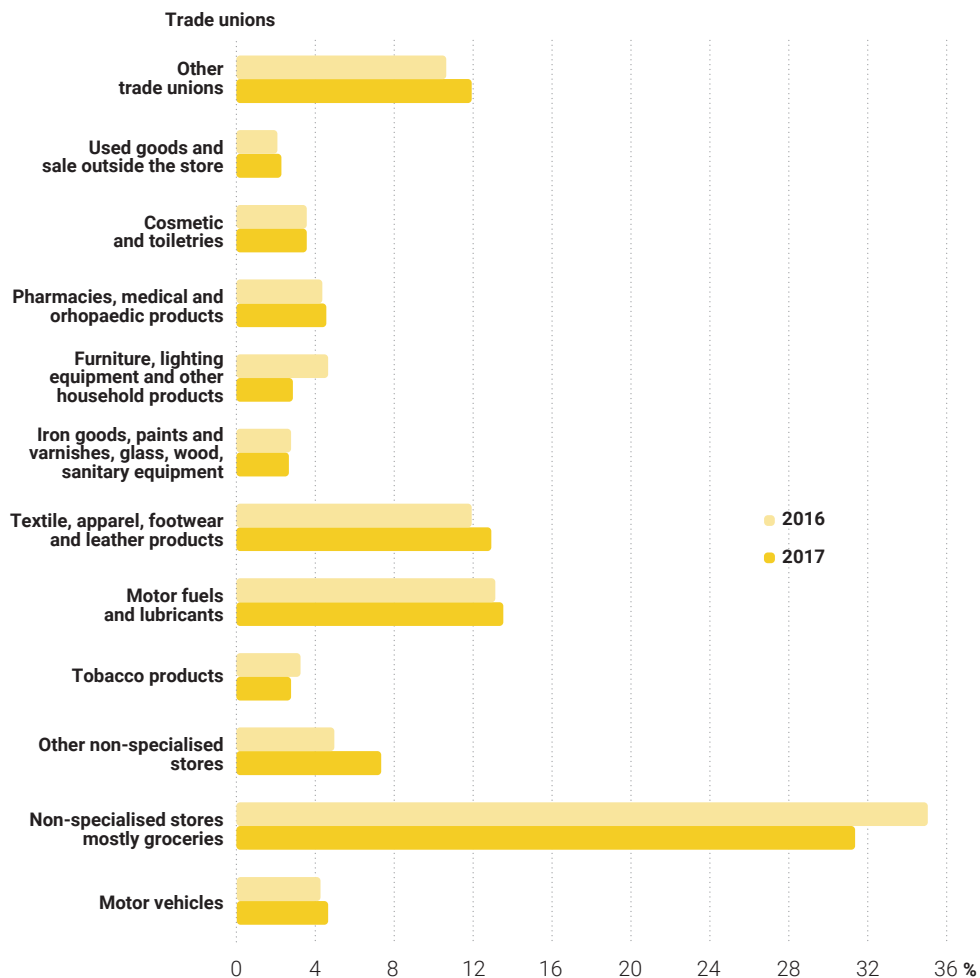
15.3 Structure of retail trade turnover by type of trade¹⁾

	2013	2014	2015	2016	2017
Total	100.0	100.0	100.0	100.0	100.0
Motor vehicles	2.9	3.2	3.4	4.2	4.6
Parts and accessories for motor vehicles, motorcycles and accessories	1.0	1.2	0.8	0.9	0.9
Non-specialised stores selling mostly groceries	32.5	29.2	35.3	35.1	31.4
Other non-specialised stores	4.3	2.5	6.1	4.9	7.3
Specialised grocery stores	0.4	0.5	0.8	0.9	1.1
Bread, biscuits, pasta and sweets	1.1	1.3	1.4	1.5	1.5
Alcoholic and other beverages	0.2	0.5	0.4	0.4	0.5
Tobacco products	3.3	3.8	3.4	3.2	2.7
Motor fuels and lubricants	20.2	21.2	14.3	13.1	13.5
Computers, peripheral units, software and video games	0.4	0.7	0.7	0.9	1.0
Telecommunication equipment, audio, and video equipment	1.0	1.6	0.8	0.9	1.3
Textile, apparel, footwear and leather products	10.5	11.8	11.8	11.9	12.9
Iron goods, paints and varnishes, glass, wood, Sanitary and "DIY" equipment	4.4	2.7	2.6	2.6	2.7
Retail sale of carpets, rugs, curtains, wall and floor coverings in specialised stores	0.1	0.1	0.1	0.2	0.1
Home appliances	1.0	0.6	1.2	1.3	1.3
Furniture, lighting equipment and other household products	4.2	5.2	3.2	4.6	2.8
Books (except used)	0.6	0.9	0.3	0.3	0.2
Newspapers, paper goods and stationery	0.2	0.2	0.3	0.2	0.1
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	1.2	1.0	1.1	1.7
Other retail sale in specialized stores	1.2	1.5	1.4	1.4	1.6
Pharmacies, medical and orthopaedic products	3.5	3.8	4.2	4.3	4.5
Cosmetic and toiletries	3.9	3.6	3.8	3.5	3.5
Flowers, seedlings, seeds, fertilizers, pets and pet foods	0.6	0.6	0.5	0.6	0.6
Used goods and sale outside the store	1.7	2.1	2.2	2.0	2.2

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

G 15.2 Structure of retail trade turnover by type of trade in 2016 and 2017

15.4 Fairs and exhibitions¹⁾ at the Zagreb Fair

	Number of fairs	Surface area used for exhibitions, thousands of m ²	Exhibitors			Visitors, thousands
			Total	National	Foreign	
2013	17	22.0	2 020	1 267	753	163
2014	11	21.0	1 778	908	870	160
2015	13	18.5	1 414	910	504	180
2016	12	61.0	2 382	1 057	1 325	368
2017	18	47.0	1 999	1 327	672	239

¹⁾ See Notes on Methodology.

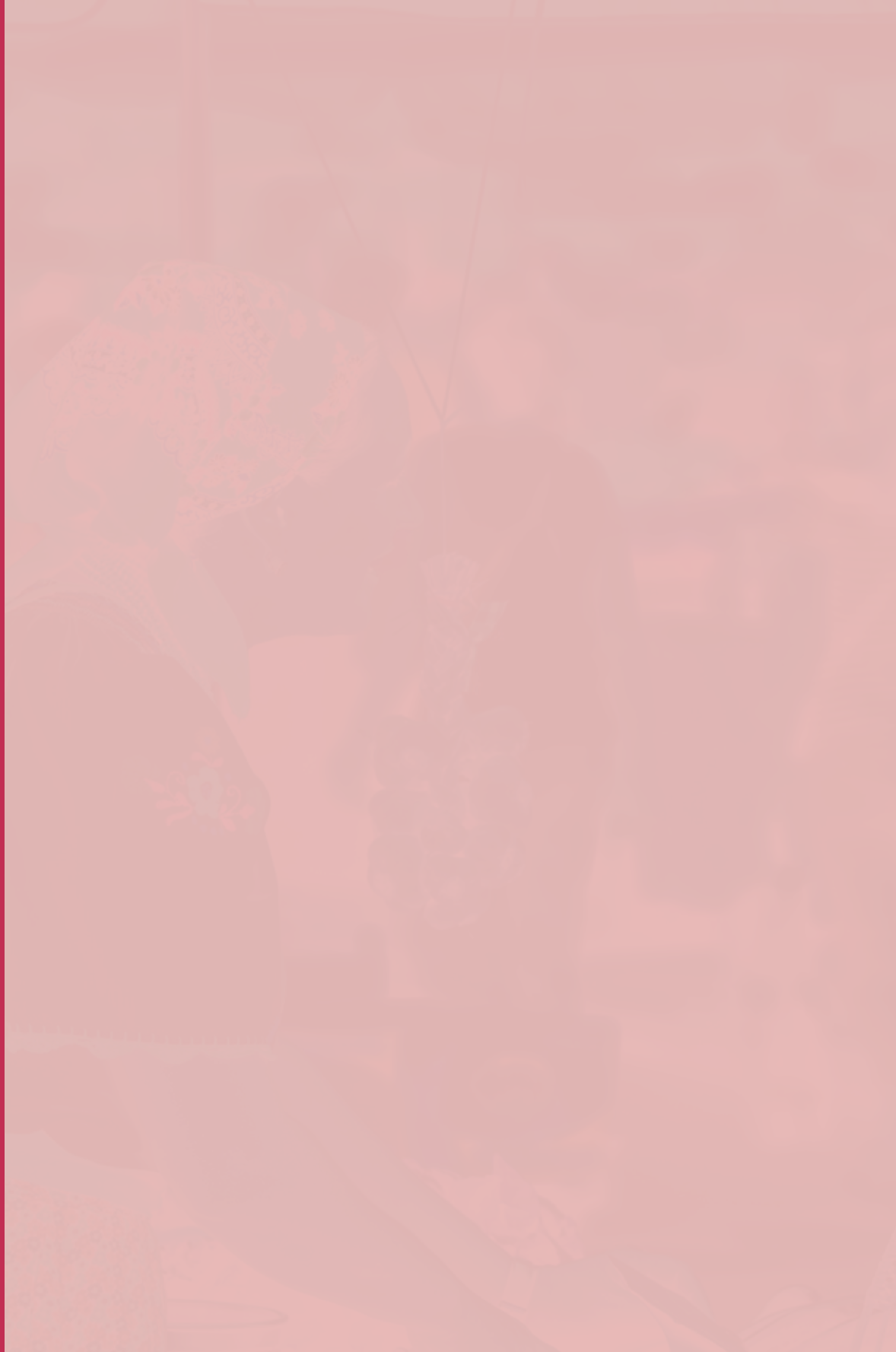
Source: Zagreb Fair d. o. o.

15.5. Zagreb International Autumn Fair¹⁾

	Permanent area for exhibitions, in thousands m²	Space used for exhibitions, thousands of m²			Exhibitors			Visitors, thousands
		Total	by exhibitors		Total	Domestic	Foreign	
			domestic	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

¹⁾ Since 2017, the Zagreb International Autumn Fair is no longer being held.

Source: Zagreb Fair d. o. o.



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.

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 in tables according to NCA 2007 and by partner countries for 2014, 2015 and 2016 are presented with the situation in the Statistical Business Register as of 1 June 2017, while for 2017 they are presented with the situation of the Statistical Business Register as of 10 May 2018. Data in tables by SITC sectors for the period from 2014 to 2017 are presented with the situation of the Statistical Business Register as of 7 August 2018.

For statistical purposes, goods included under export and import are listed according to the Standard International Trade Classification (SITC, Rev. 4). SITC is issued by the UN Statistics Division. It is mainly implemented for statistical aggregated presentation and dissemination of data on export/import of goods. Since 1 January 2007, a revised SITC nomenclature has been applied (Rev. 4), which is far more elaborated than previous versions, and it is also harmonized and linked with the Harmonized System and Combined Nomenclature.

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)

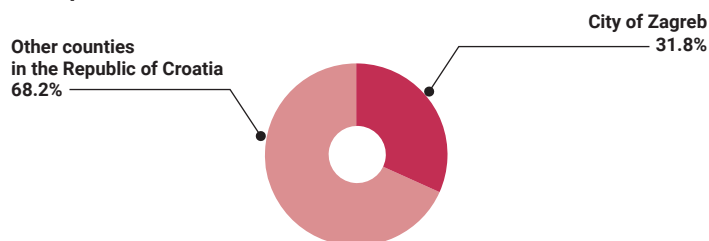
16.1 Export and import of the City of Zagreb and the Republic of Croatia

Thousands of HRK

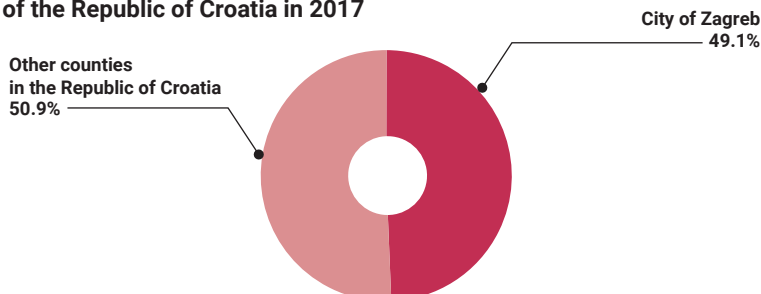
	2015	2016	2017
Export			
Republic of Croatia	87 772 423	92 763 217	104 600 956
City of Zagreb	29 034 173	30 630 374	33 283 999
Share of the City of Zagreb, %	33.1	33.0	31.8
Import			
Republic of Croatia	140 747 763	148 474 542	163 313 126
City of Zagreb	73 069 549	74 083 853	80 129 738
Share of the City of Zagreb, %	51.9	49.9	49.1
Balance of trade in goods			
Republic of Croatia	-52 975 340	-55 711 325	-58 712 170
City of Zagreb	-44 035 376	-43 453 479	-46 845 739
Share of the City of Zagreb, %	83.1	78.0	79.8
Coverage of import by export, %			
Republic of Croatia	62.4	62.5	64.0
City of Zagreb	39.7	41.3	41.5

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 2017



G 16.2 Share of the import of the City of Zagreb in total import of the Republic of Croatia in 2017



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

	Thousands of EUR		
	2015	2016	2017
Export	3 822 314*	4 068 277*	4 459 352
Import	9 589 184*	9 837 986*	10 740 534
Balance of trade in goods	-5 766 870*	-5 769 709*	-6 281 182

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		
		2015	2016	2017
Total		29 034 173	30 630 374	33 283 999
A	Agriculture, forestry, and fishing	172 560	202 525	178 533
B	Mining and quarrying	6 218 156	5 295 285	7 097 268
C	Manufacturing	10 793 526	12 128 269	12 530 853
D	Electricity, gas, steam, and air conditioning supply	2 001 368	2 205 128	2 285 589
E	Water supply; sewerage, waste management, and remediation activities	414 874	369 769	589 215
F	Construction	210 178	192 131	83 397
G	Wholesale and retail trade; repair of motor vehicles, and motorcycles	7 759 844	8 641 712	8 592 437
H	Transportation and storage	105 393	86 375	224 141
I	Accommodation and food service activities	29 446	27 758	41 966
J	Information and communication	325 759	338 760	319 300
K	Financial and insurance activities	45 494	12 320	64 620
L	Real estate activities	28 541	42 159	34 249
M	Professional, scientific, and technical activities	690 446	874 806	971 203
N	Administrative and support service activities	55 794	144 095	182 900
O	Public administration and defence; compulsory social security	29 600	2 901	2 781
P	Education	69	323	2 704
Q	Human health and social work activities	4 846	7 209	6 003
R	Arts, entertainment, and recreation	6 196	3 345	9 160
S	Other service activities	142 074	55 505	67 670
U	Activities of extraterritorial organizations and bodies	-	-	-
X	Unclassified	9	-	11

Source: CBS

16.4 Import according to NCA 2007

Thousands of HRK

		2015	2016	2017
Total		73 069 549	74 083 853	80 129 738
A	Agriculture, forestry, and fishing	248 791	213 807	245 756
B	Mining and quarrying	9 673 443	8 015 348	9 748 494
C	Manufacturing	10 928 817	10 675 619	11 546 047
D	Electricity, gas, steam, and air conditioning supply	4 638 165	4 068 551	4 713 183
E	Water supply; sewerage, waste management, and remediation activities	23 287	113 861	181 640
F	Construction	718 402	679 740	677 756
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	41 695 706	44 715 466	46 681 348
H	Transportation and storage	511 304	476 710	646 470
I	Accommodation and food service activities	122 506	129 135	142 337
J	Information and communication	2 556 096	2 173 085	2 158 264
K	Financial and insurance activities	285 909	255 895	326 344
L	Real estate activities	53 587	50 721	42 081
M	Professional, scientific, and technical activities	892 943	1 506 323	2 174 329
N	Administrative and support service activities	112 878	187 813	242 500
O	Public administration and defence; compulsory social security	68 507	211 998	117 274
P	Education	16 061	7 703	5 279
Q	Human health and social work activities	11 700	18 229	17 565
R	Arts, entertainment, and recreation	122 957	202 499	153 181
S	Other service activities	388 422	377 396	306 218
U	Activities of extraterritorial organizations and bodies	69	47	23
X	Unclassified	-	3 906	3 652

Source: CBS

16.5 Export of the City of Zagreb by SITC sectors

Thousands of HRK

		2014	2015	2016	2017
Total¹⁾		28 112 581	28 941 277	30 613 011	33 268 653
0 Food and live animals		1 810 450	2 081 058	2 272 040	2 230 564
00	Live animals	10 684	23 706	37 456	35 568
01	Meat and meat preparations	18 501	67 698	83 076	89 163
02	Dairy products and birds' eggs	178 517	239 906	287 763	324 790
03	Fish and preparations thereof	102 605	66 558	67 634	49 362
04	Cereals and cereal preparations	428 980	495 861	550 734	451 646
05	Vegetables and fruit	177 414	207 057	232 648	252 557
06	Sugars, sugar preparations and honey	57 037	73 713	85 017	63 574
07	Coffee, tea, cocoa, spices	312 518	316 008	347 201	350 724
08	Feeding stuff for animals (not including unmilled cereals)	74 117	105 642	87 549	84 831
09	Miscellaneous edible products and preparations	450 078	484 910	492 962	528 350
1 Beverages and tobacco		502 072	579 649	582 285	626 917
11	Beverages	501 000	576 773	579 137	623 711
12	Tobacco and tobacco manufactures	1 072	2 876	3 147	3 206
2 Crude materials, except fuels		1 703 277	1 837 046	1 716 120	1 963 349
21	Hides, skins and furskins, raw	49 960	44 128	58 193	50 336
22	Oil-seeds and oleaginous fruits	94 325	295 892	234 387	290 890
23	Crude rubber	455	230	1 100	558

16.5 Export of the City of Zagreb by SITC sectors

(Continued)

Thousands of HRK

		2014	2015	2016	2017
24	Cork and wood	792 689	847 963	809 882	766 620
25	Pulp and waste paper	52 793	57 412	58 150	86 887
26	Textile fibres and their wastes	729	2 563	595	5 060
27	Crude fertilizers and crude minerals	32 389	16 789	19 253	12 398
28	Metalliferous ores and metal scrap	657 540	545 374	507 106	722 211
29	Crude animal and vegetable materials, n. e. s.	22 396	26 695	27 454	28 390
3	Mineral fuels and lubricants	9 754 413	8 862 640	8 017 658	9 710 831
32	Coal, coke and briquettes	15	220	103	216
33	Petroleum and petroleum products	6 036 853	5 294 069	4 681 756	6 561 009
34	Gas, natural and manufactured	1 329 226	919 266	730 048	780 697
35	Electric current	2 388 318	2 649 085	2 605 752	2 368 909
4	Animal and vegetable oils and fats	74 836	88 282	147 823	175 539
41	Animal oils and fats	16 975	13 666	15 211	18 619
42	Fixed vegetable fats and oils	36 717	48 661	103 765	129 819
43	Animal or vegetable fats and oils, processed	21 144	25 955	28 847	27 101
5	Chemicals and related products	4 001 320	5 050 141	5 803 812	6 179 917
51	Organic chemicals	237 102	356 322	300 686	329 752
52	Inorganic chemicals	82 336	24 682	19 280	40 623
53	Dyeing, tanning and colouring materials	73 658	73 577	74 573	76 712
54	Medicinal and pharmaceutical products	2 593 116	3 489 328	4 197 523	4 315 735
55	Essential oils and perfume materials; toilet preparations	466 695	462 210	582 380	767 815
56	Fertilizers	19 634	38 684	22 696	3 947
57	Plastics in primary forms	237 029	245 475	237 133	257 090
58	Plastics in non-primary forms	115 174	132 255	142 597	178 034
59	Chemical materials and products, n. e. s.	176 579	227 607	226 943	210 208
6	Manufactured goods classified chiefly by material	1 378 621	1 554 086	1 585 144	1 670 619
61	Leather, leather manufactures, furskins	60 403	54 263	56 781	51 307
62	Rubber manufactures	26 350	42 343	52 539	58 425
63	Cork and wood manufactures	126 976	131 661	138 657	139 096
64	Paper, paperboard and articles of paper pulp	298 286	380 584	375 662	358 537
65	Textile yarn, fabrics and related products	100 243	143 309	158 105	130 216
66	Non-metallic mineral manufactures	138 724	129 511	162 995	159 476
67	Iron and steel	233 597	116 977	109 131	103 285
68	Non-ferrous metals	37 278	119 655	111 365	113 439
69	Manufactures of metals, n. e. s.	356 764	435 784	419 910	556 838
7	Machinery and transport equipment	5 584 919	6 109 902	7 370 834	7 797 053
71	Power-generating machinery and equipment	331 744	317 073	334 547	641 164
72	Machinery specialized for particular industries	255 303	178 782	309 921	269 366
73	Metalworking machinery	38 870	39 737	51 680	65 302
74	General industrial machinery and equipment, n. e. s.	304 659	354 317	432 804	467 138
75	Office machines and automatic dataprocessing machines	302 245	352 545	314 282	284 004
76	Telecommunications and sound-recording and reproducing apparatus	595 832	712 639	946 799	596 075
77	Electrical machinery, apparatus and appliances	3 017 612	2 836 146	3 561 003	3 707 920
78	Road vehicles	667 049	852 772	1 192 330	1 397 225
79	Other transport equipment	71 603	465 890	227 468	368 860

16.5 Export of the City of Zagreb by SITC sectors

(Continued)

Thousands of HRK

		2014	2015	2016	2017
8	Miscellaneous manufactured articles	2 331 942	2 232 966	2 837 536	2 654 987
81	Prefabricated buildings; sanitary, plumbing, heating and lighting fixtures and fittings, n. e. s.	224 473	199 950	274 671	326 709
82	Furniture and parts thereof	172 806	191 566	181 193	186 549
83	Travel goods	17 422	20 950	33 311	30 894
84	Clothing	274 473	300 910	293 138	325 779
85	Footwear	72 899	117 666	161 578	197 458
87	Scientific and controlling instruments	511 618	509 698	447 899	470 193
88	Photographic apparatus and optical goods; watches and clocks	43 511	48 872	69 131	92 961
89	Miscellaneous manufactured articles, n. e. s.	1 014 740	843 354	1 376 614	1 024 443
9	Commodities and transactions, n. e. s.	607 408	296 348	183 388	110 073
97	Gold, non-monetary	607 408	296 348	183 388	110 073
	Unclassified	363 323	249 159	96 370	148 804
XX	Unclassified	363 323	249 159	96 370	148 804

¹⁾ See Notes on Methodology.

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

16.6 Import of the City of Zagreb by SITC sectors

Thousands of HRK

		2014	2015	2016	2017
Total¹⁾		70 299 897	72 912 923	73 950 616	80 119 588
0	Food and live animals	6 380 487	7 029 027	7 169 412	7 329 383
00	Live animals	20 619	28 624	39 593	54 598
01	Meat and meat preparations	402 490	552 359	644 036	701 565
02	Dairy products and birds' eggs	498 088	522 592	597 164	737 015
03	Fish and preparations thereof	333 067	417 688	362 187	387 380
04	Cereals and cereal preparations	961 419	967 416	998 012	1 061 915
05	Vegetables and fruit	1 609 732	1 806 848	1 859 443	1 815 878
06	Sugars, sugar preparations and honey	213 163	303 809	318 217	279 689
07	Coffee, tea, cocoa, spices	1 041 125	1 031 108	1 055 116	1 050 897
08	Feeding stuff for animals (not including unmilled cereals)	544 055	611 169	525 976	466 327
09	Miscellaneous edible products and preparations	756 728	787 414	769 668	774 120
1	Beverages and tobacco	1 053 209	1 204 973	1 211 801	1 340 395
11	Beverages	638 127	738 089	795 183	900 165
12	Tobacco and tobacco manufactures	415 081	466 884	416 619	440 230
2	Crude materials, except fuels	525 479	522 568	663 894	738 987
21	Hides, skins and furskins, raw	43 546	38 204	35 451	34 843
22	Oil-seeds and oleaginous fruits	74 205	73 399	61 024	70 244
23	Crude rubber	12 257	10 809	10 952	11 344
24	Cork and wood	81 246	86 409	94 601	106 515
25	Pulp and waste paper	6 068	16 415	107 022	136 507
26	Textile fibres and their wastes	20 004	24 564	22 607	24 666
27	Crude fertilizers and crude minerals	56 597	50 083	64 615	52 374
28	Metalliferous ores and metal scrap	25 599	5 544	32 380	53 341
29	Crude animal and vegetable materials, n. e. s.	205 957	217 141	235 240	249 154

16.6 Import of the City of Zagreb by SITC sectors

(Continued)

Thousands of HRK

		2014	2015	2016	2017
3	Mineral fuels and lubricants	18 856 765	16 371 386	14 164 538	16 063 988
32	Coal, coke and briquettes	13 786	15 312	14 723	58 847
33	Petroleum and petroleum products	14 649 938	11 035 587	9 225 210	11 062 373
34	Gas, natural and manufactured	482 290	438 436	589 690	658 832
35	Electric current	3 710 752	4 882 050	4 334 915	4 283 936
4	Animal and vegetable oils and fats	373 796	403 967	456 173	448 620
41	Animal oils and fats	2 065	2 772	4 405	4 135
42	Fixed vegetable fats and oils	349 259	380 927	437 242	429 274
43	Animal or vegetable fats and oils, processed	22 472	20 268	14 525	15 211
5	Chemicals and related products	10 510 413	11 821 596	11 841 641	12 853 602
51	Organic chemicals	1 240 520	1 453 295	1 326 957	1 661 740
52	Inorganic chemicals	160 336	146 020	126 245	137 626
53	Dyeing, tanning and colouring materials	410 065	456 249	464 775	436 493
54	Medicinal and pharmaceutical products	4 298 258	4 905 438	5 112 664	5 350 182
55	Essential oils and perfume materials; toilet preparations	1 951 923	2 086 159	2 119 575	2 391 077
56	Fertilizers	90 728	66 274	86 667	55 805
57	Plastics in primary forms	508 065	527 441	538 249	551 156
58	Plastics in non-primary forms	671 015	808 045	818 081	860 643
59	Chemical materials and products, n. e. s.	1 179 504	1 372 676	1 248 426	1 408 881
6	Manufactured goods classified chiefly by material	7 439 674	7 908 495	7 843 846	8 394 251
61	Leather, leather manufactures, furskins	9 793	11 088	13 042	15 314
62	Rubber manufactures	734 189	789 703	752 705	785 050
63	Cork and wood manufactures	319 380	349 614	396 434	434 214
64	Paper, paperboard and articles of paper pulp	1 815 824	1 884 787	1 746 479	1 763 804
65	Textile yarn, fabrics and related products	650 087	706 022	731 737	737 712
66	Non-metallic mineral manufactures	658 292	728 349	772 930	772 342
67	Iron and steel	1 191 754	1 196 966	1 176 355	1 257 651
68	Non-ferrous metals	714 549	631 657	625 550	630 642
69	Manufactures of metals, n. e. s.	1 345 805	1 610 308	1 628 614	1 997 523
7	Machinery and transport equipment	16 511 569	18 677 244	20 390 635	22 271 367
71	Power-generating machinery and equipment	527 213	535 152	423 451	866 285
72	Machinery specialized for particular industries	765 759	796 749	905 467	1 061 414
73	Metalworking machinery	130 852	166 264	174 260	211 856
74	General industrial machinery and equipment, n. e. s.	2 274 697	2 476 975	2 636 472	2 793 345
75	Office machines and automatic dataprocessing machines	1 912 673	1 986 861	1 874 650	2 080 206
76	Telecommunications and sound-recording and reproducing apparatus	3 237 659	3 636 869	3 711 950	3 679 103
77	Electrical machinery, apparatus and appliances	3 307 003	3 697 180	3 884 090	4 334 711
78	Road vehicles	4 000 045	4 788 227	6 016 590	6 718 803
79	Other transport equipment	355 668	592 966	763 705	525 645

16.6 Import of the City of Zagreb by SITC sectors

(Continued)

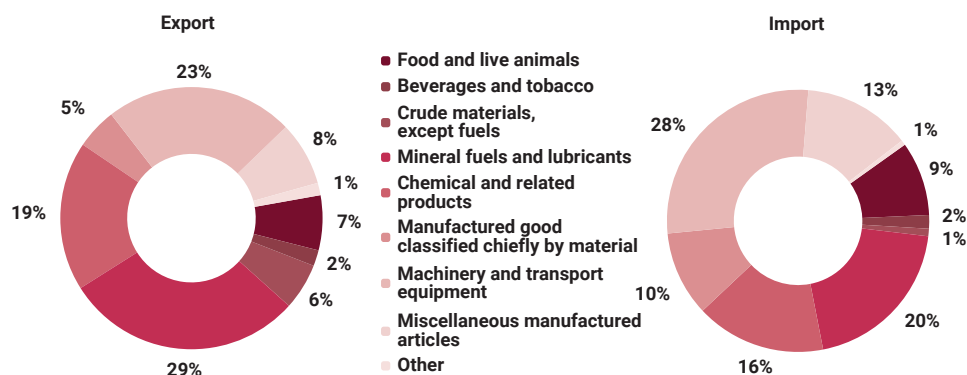
Thousands of HRK

		2014	2015	2016	2017
8	Miscellaneous manufactured articles	8 475 592	8 957 753	10 195 582	10 639 147
81	Prefabricated buildings; sanitary, plumbing, heating and lighting fixtures and fittings, n. e. s.	356 771	412 937	437 174	529 437
82	Furniture and parts thereof	621 531	680 744	735 628	860 332
83	Travel goods	205 937	225 605	255 094	263 443
84	Clothing	2 262 071	2 388 796	2 746 151	2 977 194
85	Footwear	970 213	1 108 089	1 239 715	1 253 690
87	Scientific and controlling instruments	1 089 414	1 205 136	1 267 873	1 286 426
88	Photographic apparatus and optical goods; watches and clocks	406 351	316 040	368 608	399 936
89	Miscellaneous manufactured articles, n. e. s.	2 563 303	2 620 407	3 145 338	3 068 689
9	Commodities and transactions, n. e. s.	172 232	14 211	13 047	39 735
96	Coin	1	2	4	1
97	Gold, non-monetary	172 232	14 208	13 044	39 735
	Unclassified	681	1 704	47	113
XX	Unclassified	681	1 704	47	113

¹⁾ See Notes on Methodology.

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

G 16.3 Export and import by SITC sectors in 2017



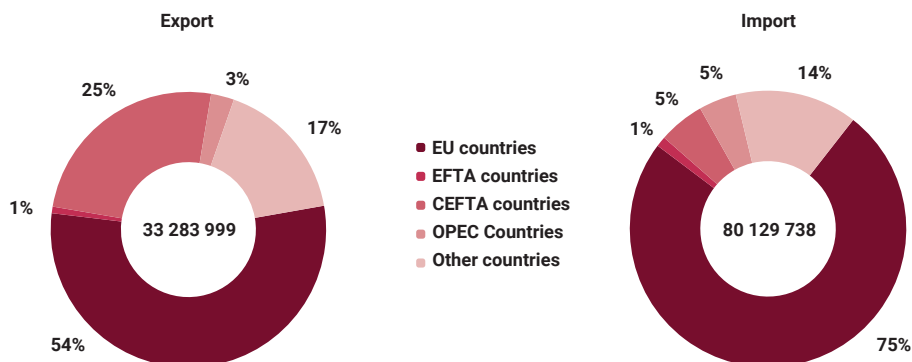
16.7 Export and import by economic classification of countries

Thousands of HRK

	Export			Import		
	2015	2016	2017	2015	2016	2017
Total	29 034 173	30 630 374	33 283 999	73 069 549	74 083 853	80 129 738
EU countries	16 845 148	17 008 565	18 200 584	53 554 725	55 375 418	59 872 142
EFTA countries	304 141	310 571	257 171	1 024 155	881 914	953 629
CEFTA countries	7 355 329	6 795 138	8 310 437	3 736 309	4 206 599	4 304 539
OPEC countries	738 865	1 548 269	903 398	2 126 197	2 389 524	3 534 438
Other countries	3 790 686	4 967 832	5 612 409	12 628 165	11 230 399	11 464 988

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

G 16.4 Export and import by economic classification of countries in 2017



16.8 Export and import of the City of Zagreb into partner countries

Thousands of HRK

	Export			Import		
	2015	2016	2017	2015	2016	2017
Total	29 034 173	30 630 374	33 283 999	73 069 549	74 083 853	80 129 738
Afghanistan	-	65	160	32	-	-
Albania	301 102	154 841	229 355	7 407	11 285	13 809
Algeria	169 507	181 097	123 031	20	7	-
US Virgin Islands	-	-	-	2	37	-
Andorra	1 154	-	-	6	-	34
Angola	43	199	1 236	-	30	-
Antigua and Barbuda	-	61	-	-	61	-
Argentina	1 848	11 848	5 409	56 278	38 670	39 727
Armenia	988	123 668	14 152	1	-	13
Aruba	37	-	-	-	-	-
Australia	27 366	42 021	60 280	3 104	4 706	4 133
Austria	1 108 955	1 026 122	1 044 668	5 054 251	4 667 452	4 840 224
Azerbaijan	2 691	5 381	1 391	2 688 410	1 625 729	1 674 319
Bahamas	-	-	234	5	116	-
Bahrain	114	1 854	84	-	-	217
Bangladesh	43 445	26 449	25 438	22 620	16 162	15 741
Belgium	481 371	221 967	227 178	1 396 465	1 363 873	1 423 050
Belize	3 126	-	-	-	-	-
Benin	-	-	19	-	-	-
Ivory Coast	34 312	537	2 537	76	22	-
Belarus	169 305	120 525	38 178	2 413	1 190	1 896
Botswana	4	-	-	-	-	-
Bolivia, the Plurinational State of Bolivia	-	266	-	371	571	372

16.8 Export and import of the City of Zagreb into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2015	2016	2017	2015	2016	2017
Bosnia and Herzegovina	4 514 111	4 267 758	5 372 668	1 812 979	2 255 108	2 501 069
Christmas Island	-	-	-	-	-	1
Brazil	5 817	4 973	7 183	207 032	296 438	125 706
British Virgin Islands	28	2 501	543	72	1 794	3 196
Brunei	-	-	68	-	-	-
Bulgaria	147 105	176 231	146 299	284 584	700 151	403 810
Burkina Faso	-	2 951	6 333	-	-	-
Burundi	-	-	2	-	-	-
Cyprus	33 556	20 879	41 702	58 233	58 074	32 227
Montenegro	397 801	400 840	443 134	10 174	6 685	6 923
Curaçao	396	245	-	-	-	-
Chad	-	11	-	-	-	1
Czech	459 134	507 967	519 031	1 849 977	1 826 592	1 965 642
Chile	876	6 832	1 084	10 607	8 407	9 786
Denmark	83 830	68 026	85 493	586 166	610 802	1 061 704
Dominica	-	-	-	-	-	-
Dominican Republic	1	398	331	981	591	897
Djibouti	123	276	7 130	-	-	-
Egypt	527 840	511 094	777 563	23 023	279 694	25 815
Ecuador	262	581	508	86 576	98 750	59 483
Equatorial Guinea	223	-	-	-	-	-
Eritrea	675	3 641	38	-	-	-
Estonia	50 104	41 873	59 890	5 686	6 913	10 819
Ethiopia	21	6 384	-	3 812	2 162	2 462
Faroe Islands	103	30	-	-	-	-
Fiji	12	-	-	-	-	-
Philippines	43 315	8 153	62 843	8 576	8 304	9 183
Finland	88 317	60 324	140 929	106 603	83 918	114 347
France	289 973	438 962	535 522	2 018 615	2 199 506	2 351 220
French Polynesia	9	-	1	-	-	-
Gabon	1 824	1 611	1 778	-	-	-
Gambia	-	-	-	4	-	-
Ghana	211	420	1 012	36	31	5
Gibraltar	154 291	811 979	834 796	9 087	-	-
Greece	179 450	94 185	101 488	152 382	426 460	360 440
Georgia	1 290	409	3 043	2	451	1 199
Guam	-	-	-	-	2	-
Guyana	-	-	-	8	5	3
Guatemala	11	518	1 210	141	478	326
Haiti	363	893	474	67	90	123

16.8 Export and import of the City of Zagreb into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2015	2016	2017	2015	2016	2017
Honduras	-	-	-	570	1 681	3 943
Hong Kong	22 407	16 766	10 390	12 326	31 062	75 598
India	10 677	25 332	30 913	593 650	537 687	653 144
Indonesia	18 554	11 690	8 423	49 204	78 089	66 641
Iraq	80 765	6 588	14 660	948 133	1 192 475	1 649 644
Iran, Islamic Republic	2 905	3 744	2 755	2 006	2 852	396 516
Ireland	45 723	157 117	241 646	318 024	369 428	394 795
Iceland	6 944	16 717	13 487	9 931	3 808	7 693
Italy	2 308 900	2 373 762	3 224 754	5 884 866	5 998 903	6 792 251
Israel	266 187	157 786	259 732	58 724	71 012	53 655
Japan	19 056	18 558	30 202	127 958	182 640	140 056
Jordan	4 008	1 027	3 518	359	585	308
South Sudan	383	2 525	50	-	-	-
South Africa	19 975	6 628	58 754	4 230	10 786	14 985
Cayman Islands	-	1 566	26	-	-	-
Cambodia	10	-	-	8 342	9 963	10 774
Cameroun	2 123	85	-	461	269	-
Canada	133 869	136 683	136 374	57 975	49 116	57 161
Qatar	98 088	313 737	318 912	1 410	432	583
Kazakhstan	29 735	23 372	49 148	397	624 461	1 070 707
Kenya	4 261	699	49 362	14	4	33
China	68 834	102 534	157 692	2 091 227	2 086 186	2 098 106
Kyrgyz Rep.	27	-	3	550	361	489
Kiribati	-	-	-	5	18	-
Colombia	1 118	2 698	423	6 229	4 235	48 219
Congo	389	1 091	551	6	17	-
Congo, Democratic Republic	-	681	-	-	-	2
Korea, Republic	16 214	22 968	17 485	443 254	138 280	154 035
Kosovo	257 003	199 402	159 347	14 478	7 531	4 843
Costa Rica	281	100	-	5 741	892	398
Cuba	12 496	15 350	18 850	2 470	1 313	432
Kuwait	16 037	58 579	5 283	1	10	5
Laos, People's Democratic Republic	-	-	26	73	105	85
Latvia	47 801	40 548	24 080	15 544	18 234	24 442
Lebanon	111 949	22 033	14 474	414	288	56
Liberia	21	202	1	-	-	-
Libya	1 695	12 489	1 006	203 283	588 182	871 248
Liechtenstein	2	75	32	467	182	72
Lithuania	50 612	49 274	58 476	56 010	87 363	91 472
Luxembourg	16 053	9 770	23 351	47 875	61 650	55 901

16.8 Export and import of the City of Zagreb into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2015	2016	2017	2015	2016	2017
Madagascar	-	-	12	16	55	-
Hungary	1 520 146	1 671 517	1 396 376	6 614 083	5 970 190	6 680 312
Macao		22	2	11	2 067	3 554
Macedonia	335 006	326 067	326 131	218 436	227 037	259 752
Malawi	145	-	-	-	2	-
Maldives	-	218	1 073	-	-	-
Malaysia	824	76 335	9 906	54 492	52 171	48 507
Mali	-	1 988	19	44	8	7
Malta	394 353	184 016	474 921	6 904	13 147	17 456
Morocco	27 359	20 112	527 075	7 028	5 875	3 614
Marshall Islands	20 815	1 453	18	1	-	-
Mauritius	2 445	88	200	2 172	2 712	1 639
Mauritania	-	-	1 154	-	-	-
Mexico	10 215	1 206	6 331	32 265	28 354	34 188
Myanmar	5 298	1 835	7 411	1 747	757	2 406
Moldova, Republic of	9 123	21 536	11 653	5 664	6 067	6 360
Mongolia	229	97	1 384	1	-	-
Mozambique	2 215	2 168	-	102	4	-
Namibia	153	76	132	8	23	3
Nepal	631	273	84	681	532	743
Niger	205	19	90	-	-	-
Nigeria	49 313	8 132	7 665	260 531	-	6
Nicaragua	28	-	-	5	111	124
Netherlands	787 175	448 281	332 887	2 941 145	3 201 736	3 489 303
Norway	112 169	154 833	104 588	29 346	25 090	36 890
New Caledonia	-		14	-	-	1
New Zealand	2 963	6 987	4 103	2 928	11 026	6 900
Germany	2 175 948	2 588 513	3 037 722	10 554 704	11 329 312	11 947 623
Occupied Palestinian Territory	-	1 754	4 072	-	-	-
Oman	138 795	1 486	21 079	714	5 383	398
Bouvet Island	-	-	-	-	1	-
Pakistan	3 803	525	558	27 955	30 563	35 460
Palau	-	-	1	-	-	-
Panama	266	2 177	171	124	22	279
Papua New Guinea	420	-	-	1 419	1 431	1 232
Paraguay	129	45	340	-	-	2
Peru	1 125	25 821	3 031	1 704	631	817
Poland	329 021	339 191	430 289	2 242 054	2 492 668	3 063 334
Portugal	42 800	45 474	96 210	69 884	81 563	91 004
Rwanda	-	1 633	4 753	-	-	805

16.8 Export and import of the City of Zagreb into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2015	2016	2017	2015	2016	2017
Romania	155 926	150 553	207 999	376 797	292 048	316 912
Russia	704 044	624 243	223 503	2 657 300	1 647 375	1 413 280
Salvador	1 699	949	66 274	35	3	52
Samoa	-	-	-	-	47	-
San Marino	157	147	48	844	1 581	2 184
Saudi Arabia	171 254	756 277	350 795	615 878	504 972	554 548
Seychelles	818	303	337	278	-	-
Senegal	1 724	201	456	-	2	-
Sierra Leone	-	355	98	-	-	-
Singapore	8 270	50 417	9 980	24 035	30 192	24 349
Syria	70	98	23	-	25	38
United States of America	700 971	1 407 764	1 331 294	834 513	938 504	592 854
Slovakia	290 031	254 798	251 902	1 539 889	1 325 809	1 721 520
Slovenia	4 856 219	4 909 430	4 226 321	8 422 517	9 138 059	9 392 806
Solomon Islands	24	96	-	36	6	-
Somalia	-	-	357	-	-	4
Serbia	1 541 183	1 424 694	1 768 149	1 667 171	1 692 886	1 511 783
Central African Republic	-	-	2 353	-	-	-
Sudan	3 605	3 085	544	-	-	-
Suriname	-	4	-	-	-	-
Swaziland	-	-	-	4	-	-
St. Lucia	-	-	1	-	-	-
Saint Christopher and Nevis	-	-	-	2	71	-
Saint Martin (the Dutch part)	748	138	199	-	-	-
Spain	347 191	349 371	372 949	1 428 142	1 429 802	1 659 684
Sri Lanka	115	23	2 095	2 333	3 680	4 730
Sweden	191 091	401 398	304 659	537 623	638 295	587 024
Switzerland	185 026	138 946	139 064	984 411	852 834	908 974
Tajikistan	49	-	-	-	-	-
Thailand	939	1 969	2 874	75 519	70 800	167 597
Taiwan	4 119	4 043	4 683	161 936	90 512	125 099
Tanzania, United Republic of	4 112	4 771	1 364	-	11	26
Togo	497	24	118	-	-	-
Tokelau	-	-	-	-	3	-
Tonga	-	10	-	-	-	-
Trinidad and Tobago	1 167	-	1 204	-	5	-
Tunisia	1 574	57 632	209 953	2 513	2 320	3 237
Turkmenistan	11 988	-	1 130	-	-	-
Turkey	255 230	223 671	299 633	766 540	825 277	961 077
Uganda	-	-	19	1	-	5

16.8 Export and import of the City of Zagreb into partner countries

(Continued)

Thousands of HRK

	Export			Import		
	2015	2016	2017	2015	2016	2017
United Kingdom	364 363	379 016	593 842	985 702	983 470	982 820
United Arab Emirates	148 996	206 845	77 547	8 278	1 757	2 356
Ukraine	16 431	68 628	81 637	24 811	52 476	45 418
Uruguay	121	270	267	4 660	1	5
Uzbekistan	104	9	27	-	-	-
Vanuatu	-	-	730	-	-	-
Venezuela, Bolivarian Republic	-	1	-	81	57	49
Vietnam	27 257	40 025	14 867	101 632	79 081	99 854
Zambia	1 289	17 017	267	-	21	-
Cape Verde	-	-	2	-	-	-
Zimbabwe	23	-	657	36	2	59
Other countries	61 085	49 254	62 691	1 336 775	1 231 915	1 520 459

Source: CBS

16.9 Most important export partners

Thousands of HRK

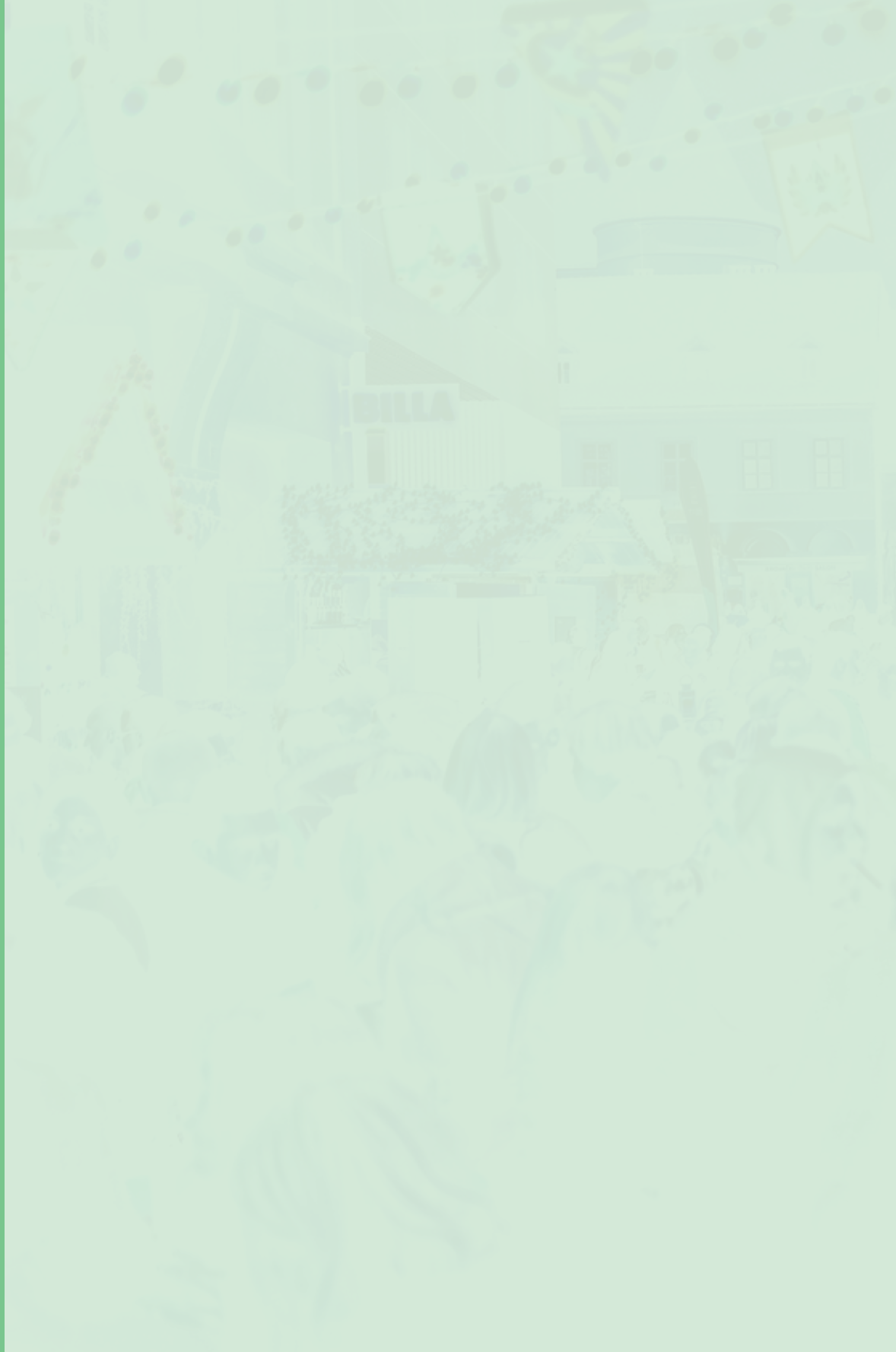
	2015	2016	2017
Total	29 034 173	30 630 374	33 283 999
Bosnia and Herzegovina	4 514 111	4 267 758	5 372 668
Slovenia	4 856 219	4 909 430	4 226 321
Italy	2 308 900	2 373 762	3 224 754
Germany	2 175 948	2 588 513	3 037 722
Serbia	1 541 183	1 424 694	1 768 149
Hungary	1 520 146	1 671 517	1 396 376
United States of America	700 971	1 407 764	1 331 294
Austria	1 108 955	1 026 122	1 044 668
Gibraltar	154 291	811 979	834 796
Egypt	527 840	511 094	777 563
United Kingdom	364 363	379 016	593 842
France	289 973	438 962	535 522
Morocco	27 359	20 112	527 075
Czech	459 134	507 967	519 031
Malta	394 353	184 016	474 921
Montenegro	397 801	400 840	443 134
Poland	329 021	339 191	430 289
Spain	347 191	349 371	372 949
Saudi Arabia	171 254	756 277	350 795
Netherlands	787 175	448 281	332 887
Other countries	6 057 981	5 813 709	5 689 243

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

16.10 Most important import partners

	Thousands of HRK		
	2015	2016	2017
Total	73 069 549	74 083 853	80 129 738
Germany	10 554 704	11 329 312	11 947 623
Slovenia	8 422 517	9 138 059	9 392 806
Italy	5 884 866	5 998 903	6 792 251
Hungary	6 614 083	5 970 190	6 680 312
Austria	5 054 251	4 667 452	4 840 224
Netherlands	2 941 145	3 201 736	3 489 303
Poland	2 242 054	2 492 668	3 063 334
Bosnia and Herzegovina	1 812 979	2 255 108	2 501 069
France	2 018 615	2 199 506	2 351 220
China	2 091 227	2 086 186	2 098 106
Czech	1 849 977	1 826 592	1 965 642
Slovakia	1 539 889	1 325 809	1 721 520
Azerbaijan	2 688 410	1 625 729	1 674 319
Spain	1 428 142	1 429 802	1 659 684
Iraq	948 133	1 192 475	1 649 644
Serbia	1 667 171	1 692 886	1 511 783
Belgium	1 396 465	1 363 873	1 423 050
Russia	2 657 300	1 647 375	1 413 280
Kazakhstan	397	624 461	1 070 707
Denmark	586 166	610 802	1 061 704
Other countries	10 671 060	11 404 930	11 822 155

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

Since 2017 data on tourist arrivals and overnight stays aren't collected from the Monthly Report on Tourist Arrivals and Overnight Stays (TU-11 form) and the eVisitor system. Instead, these data have been taken from administrative source of eVisitor system and are further analysed.

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 governed by Croatian National Tourist Board.

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.

By implementing the administrative source in data collection on tourist traffic, business entities sleeping cars and couchettes were not covered in 2017. As a result of that change in coverage, the 2016 data have been revised in order to make them comparable with 2017 (business entities sleeping cars and couchettes are excluded), while data for 2014 and 2015 have not been revised.

Coverage and comparability

Reporting units are all business entities (enterprises/trade companies, tradesmen, institutions, associations and parts thereof, natural persons, households engaged in providing short-stay accommodation services to tourists, business entities that founded or take care of mountain lodges, business entities that use schools, boarding homes and similar establishments as temporary accommodation capacities during school holidays).

Accommodation facilities are classified according to the Ordinance on Classification, Minimum Requirements and Categorization of Hotel and Catering Facilities (Official Gazette 48/02, 108/02, 132/03, 73/04, 67/06, 88/07, 58/08, 62/09, 63/09, 92/14, 54/16 and 56/16) 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

	2016				2017			
	Facilities	Rooms	Apartments and camping sites	Beds – total ¹⁾	Facilities	Rooms	Apartments and camping sites	Beds – total ¹⁾
Total	183	4 933	1 270	15 109	289	5 061	1 595	16 059
Hotels and similar accommodation ²⁾	54	3 816	190	7 672	57	3 907	189	7 849
Hotels	49	3 530	149	7 087	52	3 621	148	7 253
Rooms for rent, apartments, studio apartments, holiday homes ³⁾	83	401	969	4 472	182	490	1 368	5 735
Hostels	43	605	-	2 165	45	625	-	2 286
Camp sites	1	-	111	-	-	-	-	-
Other accommodation facilities ⁴⁾	2	111	-	800	5	39	38	189

¹⁾ Permanently available and extra beds.

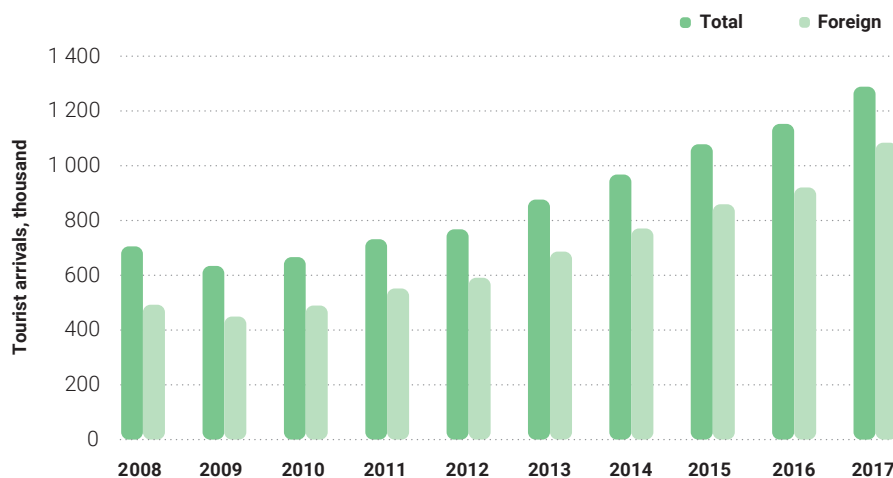
²⁾ Hotels, all-suite aparthotels, integral hotels, heritage hotels and special standard hotels.

³⁾ Rooms for rent, apartments, studio apartments, holiday homes in households and rural households.

⁴⁾ Overnight accommodation, inns offering accommodation services, mountain huts, camping sites and organised off-site camping sites.

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

G 17.1 Tourist arrivals



17.2 Tourist arrivals and overnight stays by type of tourist accommodation facilities

	2016				2017			
	Arrivals		Overnight stays		Arrivals		Overnight stays	
	Total	Foreign	Total	Foreign	Total	Foreign	Total	Foreign
Total	1 108 600	898 016	1 972 109	1 598 612	1 286 087	1 082 222	2 263 758	1 901 153
Hotels and similar accommodation ¹⁾	830 234	683 631	1 335 775	1 108 817	950 875	816 129	1 509 507	1 299 954
Hotels	762 323	623 890	1 220 454	1 005 617	872 785	746 531	1 378 866	1 181 678
Rooms for rent, apartments, studio apartments, holiday homes ²⁾	142 807	112 412	365 997	287 654	202 540	160 268	500 011	397 991
Hostels	124 858	92 966	227 924	164 224	122 144	96 107	231 206	181 607
Other accommodation facilities ³⁾	10 701	9 007	42 413	37 917	10 528	9 718	23 034	21 601

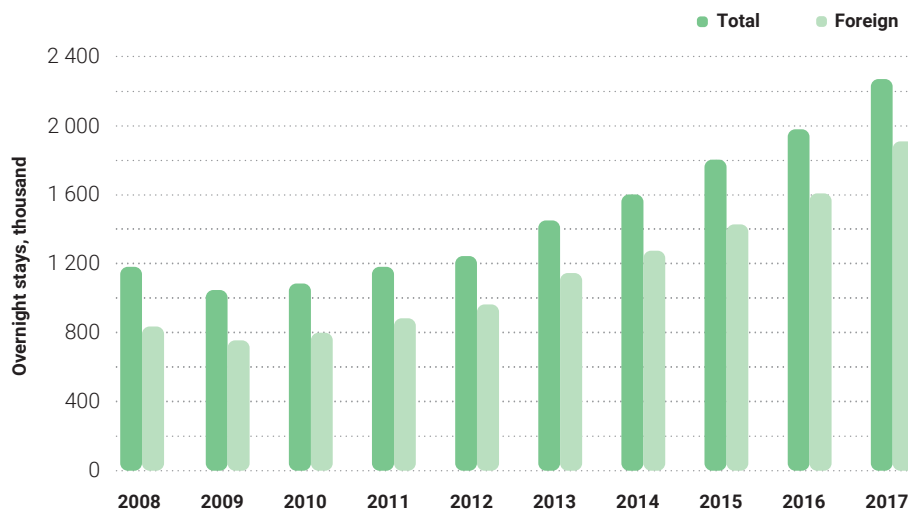
¹⁾ Hotels, all-suite aparthotels, integral hotels, heritage hotels and special standard hotels.

²⁾ Rooms for rent, apartments, studio apartments, holiday homes in households and rural households.

³⁾ Overnight accommodation, inns offering accommodation services, mountain huts, pupils' homes or students' homes, camping sites and organised off-site camping sites.

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

	2014 ¹⁾		2015 ¹⁾		2016		2017	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Total	967 902	1 602 420	1 077 778	1 804 290	1 108 600	1 972 109	1 286 087	2 263 758
Domestic	197 648	326 715	218 638	375 739	210 584	373 497	203 865	362 605
Foreign	770 254	1 275 705	859 140	1 428 551	898 016	1 598 612	1 082 222	1 901 153
Austria	32 104	45 306	32 375	48 688	28 545	47 072	34 695	57 469
Belgium	8 857	16 152	9 833	16 703	12 098	22 531	14 148	26 910
Bosnia and Herzegovina	23 152	40 148	26 800	44 749	35 960	61 381	41 267	72 136
Bulgaria	26 407	33 336	28 853	37 288	31 334	42 297	31 972	43 350
Montenegro	4 055	8 235	4 589	9 273	5 138	10 462	5 480	11 470
Czech	8 257	13 526	8 017	14 193	9 647	16 860	10 864	18 295
Denmark	5 550	10 985	5 770	10 744	5 781	11 476	6 116	12 776
France	25 261	44 088	26 715	48 249	26 964	51 715	28 040	54 696
Greece	9 026	13 909	8 123	14 549	10 245	16 381	11 770	19 167
Ireland	2 690	5 747	3 009	6 484	2 824	6 472	3 564	8 066
Italy	45 234	85 176	47 588	91 520	55 446	105 826	61 049	117 586
Hungary	11 502	19 296	12 158	20 196	13 264	23 577	17 165	30 622
Macedonia	6 756	11 527	8 417	15 311	8 739	15 885	9 616	18 400
Netherlands	17 162	29 372	17 415	30 323	17 629	34 031	20 560	39 532
Norway	3 158	6 141	3 202	6 302	3 321	7 642	4 489	10 694
Germany	61 664	99 563	63 779	107 538	55 676	103 270	65 882	121 932
Poland	14 613	23 738	17 963	27 402	19 545	33 052	24 476	37 981
Portugal	6 458	11 779	7 982	13 512	7 483	15 461	9 258	17 258
Romania	9 460	19 237	10 636	19 434	12 192	25 199	14 302	27 524
Russia	10 868	21 584	9 436	18 236	9 956	22 247	11 479	23 667
Slovakia	5 723	10 029	5 724	9 682	6 583	11 750	7 946	13 838
Slovenia	18 706	27 679	21 464	35 122	25 470	41 197	27 099	43 370
Serbia	24 226	43 880	25 890	46 334	28 871	54 782	30 042	57 412
Spain	31 497	50 647	33 441	54 971	31 477	56 545	35 513	66 527
Sweden	7 125	13 764	7 669	14 580	8 037	16 500	8 774	17 595
Switzerland	19 980	27 147	24 534	34 338	12 875	26 151	14 961	29 786
Turkey	6 681	12 524	7 420	13 367	9 999	21 234	10 898	19 955
United Kingdom	31 267	62 529	32 244	64 519	33 366	75 413	39 959	92 845
Ukraine	3 253	6 688	3 565	6 497	5 489	11 033	7 360	12 566
Other European countries	18 647	35 799	19 167	38 173	19 969	43 530	23 028	46 816
Australia	15 348	29 442	16 874	33 189	17 516	36 953	24 528	51 008
Israel	12 512	26 530	13 362	26 345	14 612	29 737	14 995	30 546
Japan	33 444	43 222	28 123	37 372	21 795	30 554	27 641	40 614
Canada	13 142	25 835	16 283	30 881	18 766	37 284	23 543	46 602
China	21 740	28 380	29 944	38 581	31 453	44 618	42 104	56 258
Republic of Korea	67 670	77 549	90 787	102 238	94 537	107 655	112 328	132 139
USA	43 746	88 238	53 457	113 086	53 541	113 086	68 151	143 943

17.3 Tourist arrivals and overnight stays by country of residence

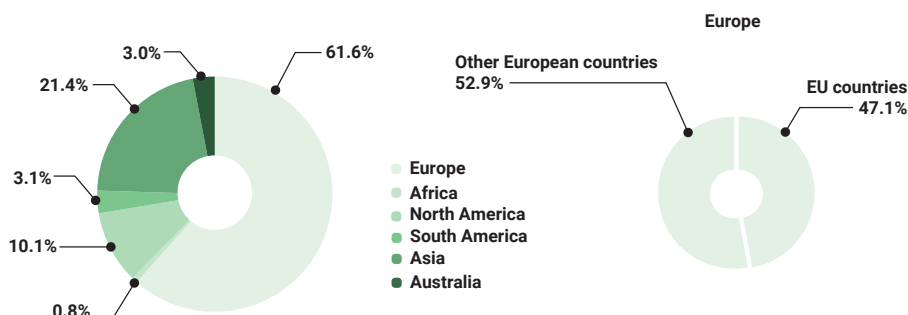
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	2014 ¹⁾		2015 ¹⁾		2016		2017	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Other non-European countries	63 313	106 978	76 532	128 582	91 873	167 753	137 160	229 802

¹⁾ See Notes on Methodology.

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

G 17.3 Foreign tourist nights by continental of residence in 2017



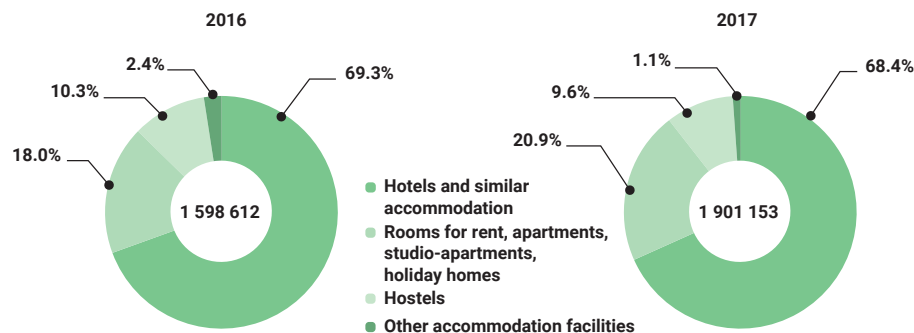
17.4 Means of tourist arrivals

	2014 ¹⁾		2015 ¹⁾		2016		2017	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Total	967 902	1 602 420	1 077 778	1 804 290	1 108 600	1 972 109	1 286 087	2 263 758
Individual	634 717	1 069 073	705 832	1 211 186	740 753	1 351 902	782 486	1 483 872
Domestic tourists	164 085	259 455	180 659	294 705	170 808	295 751	158 331	285 036
Foreign tourists	470 632	809 618	525 173	916 481	569 945	1 056 151	624 155	1 198 836
Organized	333 185	533 347	371 946	593 104	367 847	620 207	503 601	779 886
Domestic tourists	33 563	67 260	37 979	81 034	39 776	77 746	45 534	77 569
Foreign tourists	299 622	466 087	333 967	512 070	328 071	542 461	458 067	702 317

¹⁾ See Notes on Methodology.

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

G 17.4 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).

Parking site is a part of a public parking area intended for parking of a single vehicle and marked with appropriate traffic signalization.

Public garage is a building intended for parking of vehicles for which the City of Zagreb or Zagreb Holding hold the ownership or usage rights, which can be built as an above-ground, or underground, or semi-basement parking space.

Parking zone is a part of a public parking area where parking is charged in a particular part of the City of Zagreb.

Dog park is defined as an enclosed area intended for training and playing of unleashed dogs in a controlled environment under the supervision of their owners. Dog parks consist of a fence that encloses the green area, entrance, benches for owners, well established sewage system, sun shades, water station, equipment for removing dog waste and dog waste bins.

18.1 Public water supply and sewerage network and district heating by settlements¹⁾

Status at the end of 2017

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	+	-	-	Prekvršje	+	+	-
Glavnica Donja	+	-	-	Prepuštovec	+	-	-
Glavnica Gornja	+	-	-	Sesvete	+	+	-
Glavničica	+	-	-	Soblinec	+	-	-
Goli Breg	+	+	-	Starjak	+	-	-
Goranec	+	-	-	Strmec	+	+	-
Gornji Čehi	+	+	-	Šašincevec	+	+	-
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 2017

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										
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
2017	2 700	32	122.6	85 496	115 821	60 486	55 335	38 672	15 417	1 246

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		
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
2017	2 115	308	1 807	72 852	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								
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
2017	5 220	3 581	1 838	942 219	1 740 790	72 125	428 983	365	130 150	2 460	14	970

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

	2013	2014	2015	2016	2017
Total quantity of distributed process steam, tons	400 098	315 387	331 648	325 789	317 856
Total quantity of distributed heat, MWh	1 435 349	1 208 051	1 266 274	1 279 831	1 261 953
Heating of dwellings by heating plants and boiler rooms in housing estates					
Number of dwellings	94 372	94 658	94 779	96 085	96 586
Dwellings area, m ²	5 172 005	5 188 743	5 199 459	5 252 223	5 277 668
Distributed heat, MWh	1 045 742	893 990	917 824	905 743	895 559

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	
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
2017	3 087	3 502	-	-	263 176	-	-	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

Tariff model		Distribution of gas, millions of kWh		Number of consumers of gas connected to the public gas pipeline	
		2016	2017	2016	2017
Total		3 523	3 502	261 412	263 176
TM1	≤ 5 000 kWh	176	166	99 948	100 951
TM2	> 5 000 kWh ≤ 25 000 kWh	1 552	1 524	146 810	147 125
TM3	> 25 000 kWh ≤ 50 000 kWh	462	457	11 368	11 831
TM4	> 50 000 kWh ≤ 100 000 kWh	125	127	1 782	1 727
TM5	> 100 000 kWh ≤ 1 000 000 kWh	417	429	1 286	1 323
TM6	> 1 000 000 kWh ≤ 2 500 000 kWh	195	201	137	140
TM7	> 2 500 000 kWh ≤ 5 000 000 kWh	169	163	49	47
TM8	> 5 000 000 kWh ≤ 10 000 000 kWh	136	145	21	21
TM9	> 10 000 000 kWh ≤ 25 000 000 kWh	107	110	6	6
TM10	> 25 000 000 kWh ≤ 50 000 000 kWh	129	128	4	4
TM11	> 50 000 000 kWh ≤ 100 000 000 kWh	55	52	1	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
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
2017	45	592	10 742	2	71	1	70	235	710

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 2017

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 – Rendičeva	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

	2013 ¹⁾	2014 ¹⁾	2015 ¹⁾	2016 ¹⁾	2017 ¹⁾
Number of markets	24	24	24	24	24
Surface area, m ²	140 449	140 449	140 449	140 449	140 449
Surface area, m ²	39 339	39 339	39 339	39 339	39 339
Number of benches (tables)	2 643	2 643	2 643	2 479	3 077
Surface area, m ²	7 035	7 035	7 035	6 701	6 299
Number of shops at markets	523	523	523	523	523

¹⁾ The data includes Sesvete Market and Green Market.

Source: Zagreb Holding, subsidiary Zagreb Markets

18.11 Swimming pools

	2013	2014	2015	2016	2017
Number of pools	16	16	16	22	25
Surface area, m ²	8 247	8 247	8 247	11 066	11 941
Number of swimmers in thousands	319	331	323	500 ¹⁾	995 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⁾		
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
2017	993	8	246	22	8	2	11	696	3	2

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

	2013	2014	2015	2016	2017
Firefighting interventions – total	4 129	4 102	2 814	2 772	3 436
Interventions by the Public Fire Department	3 435	2 970	2 642	2 574	3 166
Centre	1 347	1 084	1 007	957	1 057
Žitnjak	411	419	346	343	436
Jankomir	425	406	371	373	441
Novi Zagreb	560	489	410	397	542
Dubrava	692	572	508	504	690
Interventions by Volunteer Fire Departments	694	1 132	172	198	270
With assistance from the Public Fire Department	55	70	53	64	128
Independent	639	1 062	119	134	142

Source: Zagreb Public Fire Department

18.14 Participation of firefighters by type of intervention

	2013	2014	2015	2016	2017
Firefighters – total	17 354	17 266	12 741	12 925	16 633
Number of firefighters in the Public Fire Department – total	14 126	12 590	11 789	11 770	14 094
Fires	5 883	5 733	6 462	6 754	7 775
Technical interventions	6 562	5 387	4 059	3 662	4 654
Other	1 681	1 470	1 268	1 354	1 665
Number of firefighters in the Volunteer Fire Departments – total	3 228	4 676	952	1 155	2 539
With assistance from the Public Fire Department	407	624	463	520	1 135
Independent	2 821	4 052	489	635	1 404

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											
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
2017	28	172.9	38.8	93.5	40.6	186 717	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
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
2017	4	158.2	143 196	494 792	106 285

Source: Zagreb Holding, subsidiary City Cemeteries

18.17 Number of parking spaces in public garages

Public garage	2015	2016	2017
Total	2 407	2 612	2 612
Kvaternikov Square	354	354	354
Gorica	370	370	370
Petrinjska	134	134	134
Langov Square	305	305	305
Svetice	115	115	115
Jelkovec ¹⁾	-	115	205
Tuškanac	465	465	465
Rebro	664	664	664

¹⁾ The public garage in Jelkovec was opened 1 August 2016.

Source: Zagreb Holding, Corporate Development Directorate

18.18 Number of parking places by parking zones¹⁾

Parking zones	2010	2011	2012	2013	2014	2015	2016	2017
Total	25 622	26 061	25 664	26 451	30 502	30 618	33 212	35 105
I. zone	6 595	6 195	6 262	6 276	7 540	7 649	7 656	7 683
I. 1. zone	-	-	-	-	-	213	213	213
I. 2. zone	-	-	-	-	-	-	-	225
II. zone	13 331	13 980	13 741	14 495	17 817	17 373	17 672	18 039
III. zone	4 246	4 436	4 211	4 230	2 620	2 626	4 531	5 719
IV. 1. zone	1 450	1 450	1 450	1 450	1 660	1 410	1 410	1 410
IV. 2. zone	-	-	-	-	865	1 347	1 730	1 816

¹⁾ Public garage areas and parking zones are regulated by the Ordinance on the Use of Public Parking Lots and Public Garages passed by the City Assembly of the City of Zagreb on the Mayor's proposal.

Source: Zagreb Holding, Corporate Development Directorate

18.19 Public spaces for dogs

	Public spaces for dogs	
	Number of spaces for dogs	Number of dog parks
Total	63	9
Donji Grad	1	-
Gornji Grad - Medveščak	4	-
Trnje	4	-
Maksimir	4	2
Peščenica-Žitnjak	3	2
Novi Zagreb-east	3	1
Novi Zagreb-west	4	1
Trešnjevka-north	5	1
Trešnjevka-south	6	-
Črnomerec	2	-
Gornja Dubrava	10	-
Donja Dubrava	4	-
Stenjevec	3	-
Podsused-Vrapče	6	2
Podsljeme	1	-
Sesvete	3	-
Brezovica	-	-

Source : City Office for the Strategic Planning and Development of the City



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. Strategic noise maps are updated every five years after the date of their creation (Official Gazette 30/09).

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 ²⁾	Year of declaration	Ecological network ³⁾
Nature park				
Medvednica ⁴⁾		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
Monument 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 ²⁾	Year of declaration	Ecological network ³⁾
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⁾ Within the City of Zagreb

³⁾ Regulation on the Ecological Network (Official Gazette 124/13, 105/15)

⁴⁾ 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 2017 – summary results¹⁾

	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Sulphur dioxide, µg/m ³	365	100.00	2.00	1.40	0.40	26.60	9.40
Carbon monoxide, mg/m ³	365	100.00	0.34	0.26	0.12	1.44	1.17
Benzene, mg/m ³	352	96.40	1.14	0.70	0.00	7.36	5.49

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.3 Concentration of nitrogen dioxide in the air in 2017 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	365	100.0	41	38	3	107	76
Ksaverska Road	365	100.0	18	15	1	53	46
Peščenica	365	100.0	25	3	3	73	60
"Barun Filipović" Alley	365	100.0	45	44	16	118	90
Siget	357	97.8	46	45	19	113	80
Susedgrad	365	100.0	45	40	8	108	91

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.4 Concentration of ozone in the air in 2017 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	363	99.5	34	29	2	119	84
Ksaverska Road	365	100.0	55	54	3	141	107
Peščenica	365	100.0	52	50	4	139	124
"Barun Filipović" Alley	356	97.5	32	29	1	105	73
Siget	351	96.2	42	36	4	114	95

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 2017 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	µg/m ³
							C ₉₈
Đorđićeva Street	363	99.5	29	21	5	163	104
Ksaverska Road	365	100.0	24	18	4	156	93
Peščenica	365	100.0	32	21	4	180	124
"Barun Filipović" Alley	363	99.5	29	21	5	171	108
Siget	354	97.0	35	25	5	181	134
Susedgrad	364	99.7	30	23	6	185	105

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 2017 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	µg/m ³
							C ₉₈
Đorđićeva Street	364	99.7	0.006	0.004	0.001	0.045	0.017
Ksaverska Road	365	100.0	0.005	0.003	0.000	0.052	0.023
Siget	351	96.2	0.008	0.006	0.000	0.070	0.027
Susedgrad	347	95.1	0.010	0.007	0.001	0.059	0.035

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 2017 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	ng/m ³
							C ₉₈
Đorđićeva Street	364	99.7	0.187	0.123	0.018	4.264	0.589
Ksaverska Road	365	100.0	0.132	0.080	0.000	1.988	0.462
Siget	351	96.2	0.213	0.150	0.001	1.165	0.611
Susedgrad	347	95.1	0.211	0.148	0.012	1.533	0.691

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 2017 – summary results¹⁾

Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	ng/m ³
							C ₉₈
Đorđićeva Street	364	99.7	0.462	0.292	0.071	4.191	2.539
Ksaverska Road	365	100.0	0.377	0.208	0.000	3.090	2.293
Siget	351	96.2	0.473	0.304	0.002	5.207	2.342
Susedgrad	347	95.1	0.532	0.337	0.028	3.507	2.584

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 2017 – summary results¹⁾

ng/m ³							
Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	364	99.7	0.743	0.608	0.000	14.580	3.139
Ksaverska Road	365	100.0	0.391	0.000	0.000	10.244	2.692
Siget	351	96.2	0.854	0.778	0.000	4.586	2.808
Susedgrad	347	95.1	0.104	0.936	0.000	4.902	3.870

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 2017 – summary results¹⁾

ng/m ³							
Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Ksaverska Road	365	100.0	1.235	0.314	0.006	15.036	7.759
Siget	355	97.3	2.470	0.544	0.007	31.723	16.591

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 2017 – summary results¹⁾

μg/m ³							
Measuring station	N	DC (%)	C	C ₅₀	C _m	C _M	C ₉₈
Ksaverska Road	365	100.0	19.2	12.6	1.3	147.4	78.0
Siget	354	99.2	23.1	11.8	0.4	150.2	112.1
Susedgrad	364	99.7	22.3	14.3	0.7	157.2	86.0

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.12 Quantity of total suspended particulate matter in 2017 – summary results¹⁾

mg/m ² d				
Measuring station	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	65	118
Ksaverska Road	12	100.0	51	81
Peščenica	12	100.0	41	61
"Barun Filipović" Alley	11	91.7	52	66
Siget	12	100.0	58	80
Susedgrad	12	100.0	75	121

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 2017 – summary results¹⁾

$\mu\text{g}/\text{m}^2\text{d}$

Measuring station	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	5.54	18.90
Ksaverska Road	12	100.0	2.25	4.49
Peščenica	12	100.0	3.13	12.29
"Barun Filipović" Alley	11	91.7	3.22	4.99
Siget	12	100.0	3.63	16.02
Susedgrad	12	100.0	14.35	38.27

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 2017 – summary results¹⁾

$\mu\text{g}/\text{m}^2\text{d}$

Measuring station	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	0.09	0.27
Ksaverska Road	12	100.0	0.07	0.13
Peščenica	12	100.0	0.07	0.14
"Barun Filipović" Alley	11	91.7	0.07	0.13
Siget	12	100.0	0.08	0.26
Susedgrad	12	100.0	0.14	0.23

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 2017 – summary results¹⁾

$\mu\text{g}/\text{m}^2\text{d}$

Measuring station	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	0.019	0.033
Ksaverska Road	12	100.0	0.025	0.094
Peščenica	12	100.0	0.042	0.260
"Barun Filipović" Alley	11	91.7	0.022	0.040
Siget	12	100.0	0.030	0.110
Susedgrad	12	100.0	0.028	0.059

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 2017 – summary results¹⁾

$\mu\text{g}/\text{m}^2\text{d}$

Measuring station	N	DC (%)	C	CM
Đorđićeva Street	12	100.0	3,57	8.83
Ksaverska Road	12	100.0	3,81	12.31
Peščenica	12	100.0	2,16	8.31
"Barun Filipović" Alley	11	91.7	3,04	6.06
Siget	12	100.0	2,90	11.69
Susedgrad	12	100.0	4,93	8.71

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 2017 – summary results¹⁾

Measuring station	N	DC (%)	C	µg/m ² d
				C _M
Đorđićeva Street	12	100.0	0.70	1.70
Ksaverska Road	12	100.0	0.72	1.21
Peščenica	12	100.0	0.74	3.46
"Barun Filipović" Alley	11	91.7	0.62	1.59
Siget	12	100.0	0.83	2.38
Susedgrad	12	100.0	0.66	1.14

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.18 Categorisation of areas near measuring stations in Zagreb in 2017¹⁾

Pollution	Pollution category	Measuring station					
		Đorđićeva Street	Ksaverska Road	Peščenica	"Barun Filipović" Alley	Siget	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	•		•	•	•	•
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						

19.18 Categorisation of areas near measuring stations in Zagreb in 2017¹⁾

(Continued)

Pollution	Pollution category	Measuring station					
		Đorđićeva Street	Ksaverska Road	Peščenica	"Barun Filipović" Alley	Siget	Susedgrad
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⁾

Name of the measuring point	Day	Evening	Night	24h
	$L_{day,T=12h}/dB(A)$	$L_{evening,T=4h}/dB(A)$	$L_{night,T=8h}/dB(A)$	$L_{den}/dB(A)$
Business facility environment Jadran Avenue 11	76.1	71.6	68.7	77.2
Business facility environment Knez Branimir Street	73.6	71.3	68.0	76.0
Business facility environment Zagreb Avenue 11	72.9	71.4	67.1	75.3
Business facility environment Dubrovnik Avenue 8	70.8	71.6	66.4	74.5
Business facility environment Šoltanska 21	71.8	70.6	66.4	74.5
Business facility environment Grad Vukovar Street 45	69.8	69.6	65.7	73.4
Crossing of V. Holjevac Avenue and SR Njemačka Street	69.8	68.7	63.8	72.2
Business facility environment Pračanska I 1B	67.0	67.6	64.3	71.6
Crossing of V. Holjevac Avenue and SR Njemačka Street (north-eastern part)	63.6	61.0	57.2	65.5

¹⁾ See Notes on Methodology.

Source: CO 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	
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		
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
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
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
2017	146 533	37 759	13 241	95 533	114 173	114 173

Source: Zagreb Holding, subsidiary Water Supply and Drainage, Zagreb Wastewater Ltd.

19.24 Registered hazardous industrial waste by NCA 2007 sections

	Tonnes	
	2016	2017
Total	12 318	10 696
A Agriculture, forestry, and fishing	2	1
B Mining and quarrying	70	2
C Manufacturing	3 324	3 208
D Electricity, gas, steam, and air conditioning supply	2 657	1 964
E Water supply; sewerage, waste management, and remediation activities	221	223
F Construction	198	320
G Wholesale and retail trade; repair of motor vehicles and motorcycles	2 343	1 905
H Transportation and storage	871	349
I Accommodation and food service activities	29	11
J Information and communication	96	240
K Financial and insurance activities	66	74
L Real estate activities	89	102
M Professional, scientific, and technical activities	79	60
N Administrative and support service activities	15	19
O Public administration and defence; compulsory social security	60	16
P Education	27	37
Q Health and social work activities	1 950	1 840
R Arts, entertainment, and recreation	36	21
S Other service activities	185	304

Source: Environmental Pollution Register (EPR), Croatian Agency for the Environment and Nature

19.25 Registered non-hazardous industrial waste by NCA 2007 sections

	Tonnes	
	2016	2017
Total	444 468	433 909
A Agriculture, forestry, and fishing	88	187
B Mining and quarrying	-	-
C Manufacturing	40 845	44 188
D Electricity, gas, steam, and air conditioning supply	315	442
E Water supply; sewerage, waste management, and remediation activities	154 355	183 444
F Construction	142 910	101 034
G Wholesale and retail trade; repair of motor vehicles and motorcycles	25 359	21 921
H Transportation and storage	2 291	4 108
I Accommodation and food service activities	957	1 396
J Information and communication	2 715	2 814
K Financial and insurance activities	590	510
L Real estate activities	2 758	3 396
M Professional, scientific, and technical activities	51 415	50 211

19.25 Registered non-hazardous industrial waste by NCA 2007 sections

(Continued)

Tonnes

	2016	2017
N Administrative and support service activities	16 158	16 668
O Public administration and defence; compulsory social security	645	528
P Education	-	25
Q Health and social work activities	2 038	2 241
R Arts, entertainment, and recreation	410	236
S Other services	619	560

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					
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	-
2017	359 803	10 443	1 704	217 381	27 500	104 533	5 061	-

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	
	2016	2017	2016	2017	2016	2017	2016	2017
Mixed municipal waste	219 184	217 381	219 184	217 381	-	-	-	-
Construction waste and demolition waste	163 608	132 771	-	8	149 467	126 602	977	4 586
Biodegradable waste	31 975	28 468	-	-	31 975	28 467	-	-
Bulky waste	13 777	16 221	-	-	13 777	16 221	-	-

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					
	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018
Kindergartens and other legal entities¹⁾ – total	291	292	295	341	335
By founder					
State-owned	228	231	231	238	237
Private	49	47	50	88	82
Religious communities	14	14	14	15	16
Children – total	39 212	39 761	39 549	43 684	40 573
By age					
Up to 3 years	9 552	9 862	9 675	10 104	9 868
From 3 to 5	15 438	15 371	15 684	16 408	15 269
From 5 to 7 and older than 7 years	14 222	14 528	14 190	17 172	15 436
Employees – total	5 784	6 088	6 065	6 653	6 774
Of which:					
Educators and teachers	3 443	3 574	3 656	4 039	4 120
Healthcare personnel	190	196	183	183	179
Other	2 151	2 318	2 226	2 431	2 475

¹⁾ Each territorially separated, but dependent unit is included in the total number of kindergartens.

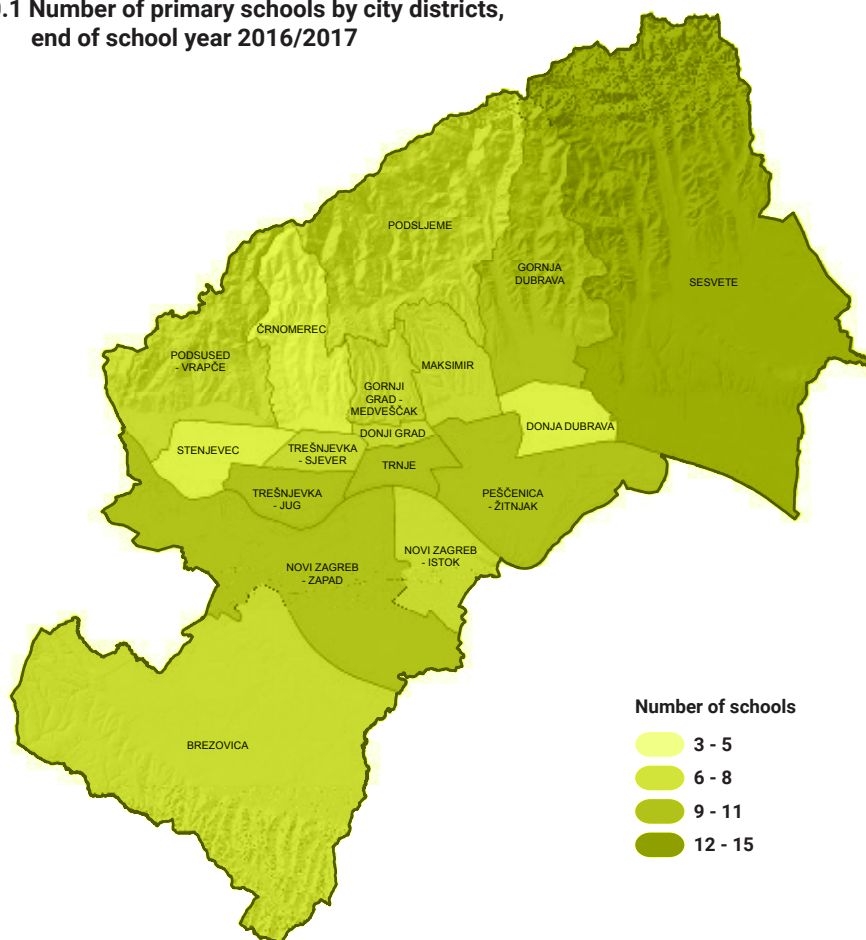
Source: CBS

20.2 Primary education – regular schools

End of school year				
	Schools	Students		Teachers
		Total	Female students	
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
2016/2017	131	57 766	28 350	5 099

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 2016/2017

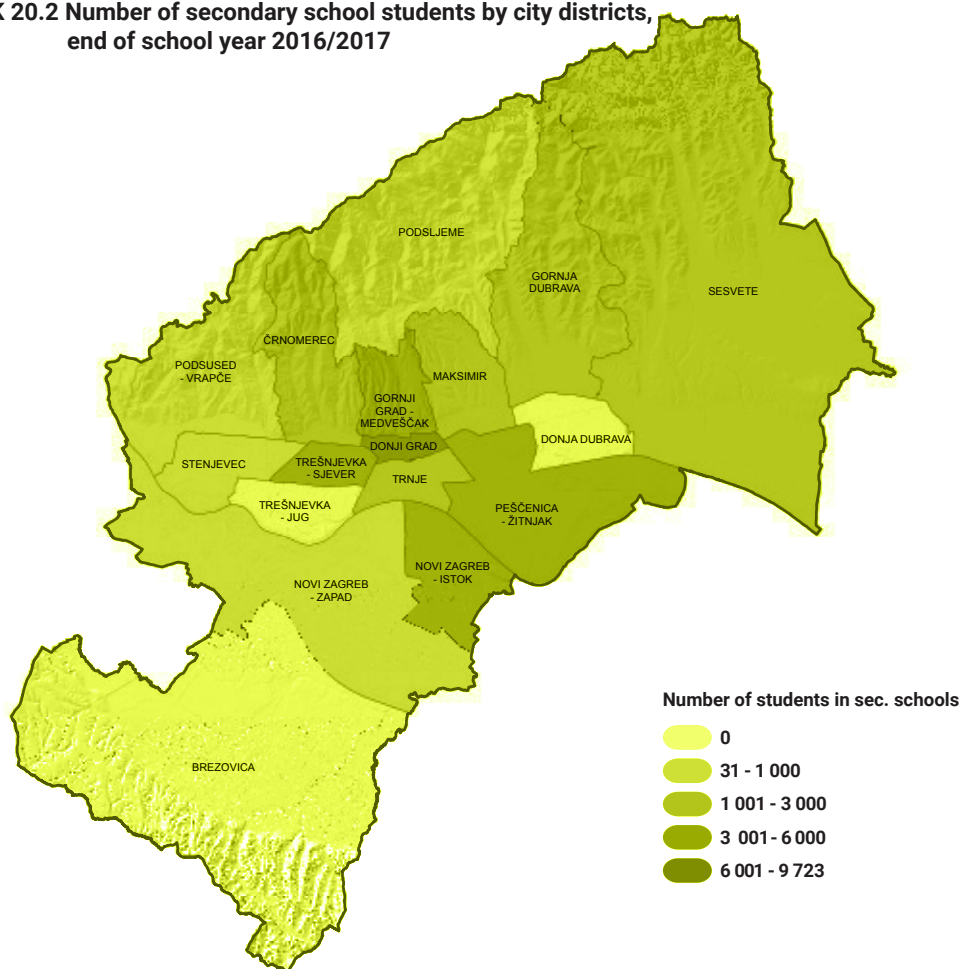


20.3 Secondary education – regular schools

	Schools	Students		Teachers
		Total	Female students	
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
2016/2017	103	35 808	18 276	4 442

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 2016/2017



20.4 Students who acquired academic degrees

	Higher education institutions	Students			
		Total	University degree	Master's degrees	Doctors of Science
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
2017	57	16 579	15 779	318	482

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
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
2017	15	2 358	1 399	4	7 363	4 536

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

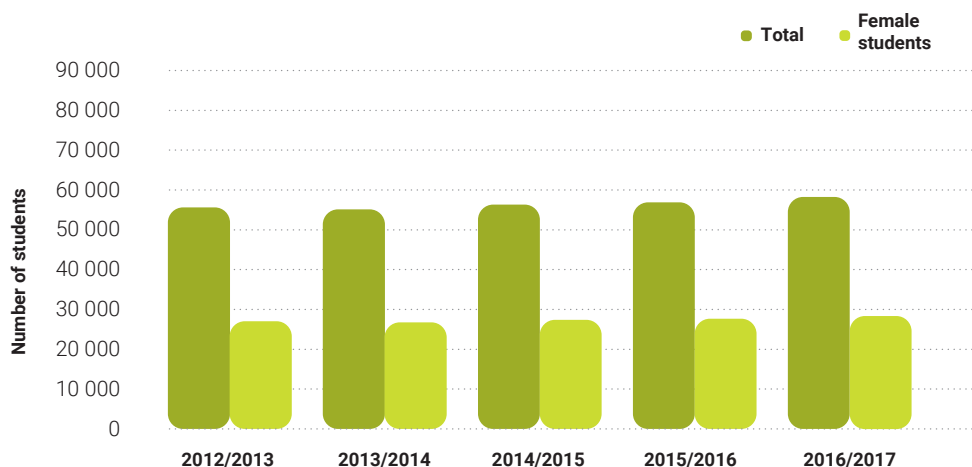
20.6 Primary education

End of school year

	Schools	Classes	Students		Teachers	
			Total	Female students	Total	Women
PRIMARY SCHOOLS – TOTAL						
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
2016/2017	144	2 789	58 297	28 507	5 320	4 576
Primary schools – regular						
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
2016/2017	131	2 701	57 766	28 350	5 099	4 388
Primary schools for children and young people with developmental difficulties						
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
2016/2017	13	88	531	157	221	188
SPECIALISED PRIMARY EDUCATION						
Primary art schools						
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
2016/2017	23	-	4 382	2 716	572	388
Primary education for adults						
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
2016/2017	2	15	84	40	38	23

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						
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
2016/2017	108	1 552	36 350	18 516	4 553	3 210
Secondary schools – regular						
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
2016/2017	103	1 467	35 808	18 276	4 442	3 121
Grammar schools						
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
2016/2017	38	582	14 649	8 618	1 481	1 126
Technical and related schools						
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
2016/2017	36	656	15 480	7 105	1 840	1 272

20.7 Secondary education

(Continued)

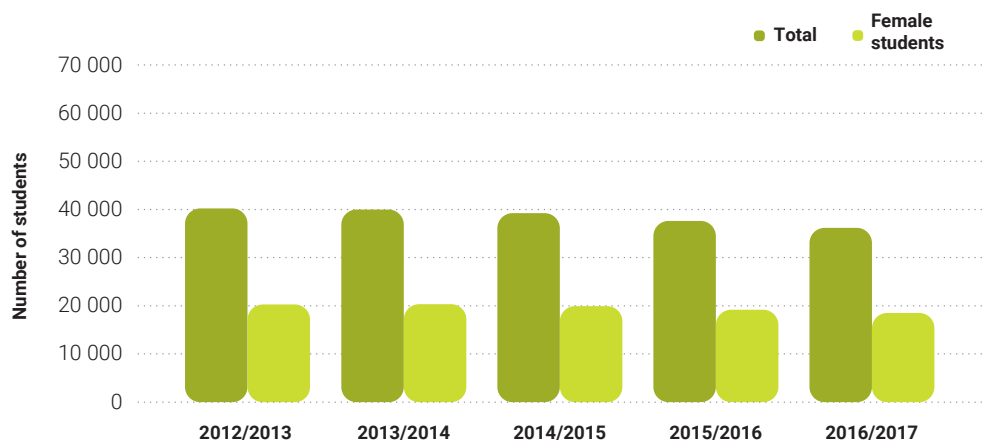
End of academic year

	Schools	Class Departments	Students		Teachers	
			Total	Female students	Total	Women
Industrial and crafts schools						
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
2016/2017	15	204	4 156	1 466	589	364
Secondary art schools – total						
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
2016/2017	14	25	1 523	1 087	532	359
Music schools						
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
2016/2017	9	-	699	428	338	224
Ballet schools						
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
2016/2017	3	-	183	167	80	53
Visual arts and design						
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
2016/2017	2	25	641	492	114	82
Secondary schools for young people with developmental disabilities						
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
2016/2017	5	85	542	240	111	89
SECONDARY EDUCATION FOR ADULTS ¹⁾						
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
2016/2017	12	134	1 805	906	342	197

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				
	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017
Regular schools					
Primary schools ¹⁾	7 511	6 965	6 928	6 538	6 417
Secondary schools	9 363	9 157	9 884	9 668	9 370
Grammar schools	3 708	3 881	4 002	3 872	3 753
Technical schools	3 973	3 521	4 195	4 143	3 983
Industrial and crafts schools	1 353	1 448	1 370	1 331	1 326
Art schools					
Music schools	141	110	108	120	100
Ballet schools	21	31	31	24	38
Visual arts and design	167	166	178	178	170
Schools for children and young people with developmental difficulties					
Primary schools	70	78	82	75	58
Secondary schools	162	175	151	167	155
Adult education schools					
Primary schools	106	80	37	31	67
Secondary schools	809	520	636	725	502
Schools for specialised primary education					
Primary music and ballet schools	661	730	570	592	603

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									
	2012/2013		2013/2014		2014/2015		2015/2016		2016/2017	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	3 708	2 175	3 881	2 249	4 002	2 333	3 872	2 320	3 753	2 166
Grammar school	2 163	1 323	2 448	1 507	2 482	1 579	2 267	1 408	2 193	1 344
Science and mathematics programme grammar school	661	281	655	297	747	293	717	331	660	253
Language grammar school	449	321	325	195	313	232	405	303	427	317
Classical grammar school	258	160	316	170	291	157	293	167	263	131
International Baccalaureate Diploma Programme (IBDP)	27	17	29	19	32	13	52	31	51	29
Art programme grammar school	28	19	20	11	18	10	17	12	24	14
Science programme grammar school	56	29	88	50	119	49	111	65	78	55
Sports programme grammar school	66	25	-	-	-	-	-	-	-	-
Vocational grammar school	-	-	-	-	-	-	10	3	57	23

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									
	2012/2013		2013/2014		2014/2015		2015/2016		2016/2017	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	3 973	1 781	3 521	1 525	4 195	1 974	4 143	1 947	3 983	1 884
Engineering	212	9	231	11	286	28	278	18	208	14
Electrical engineering	787	39	852	27	887	47	963	54	913	31
Geology, mining, and oil	28	12	19	13	30	8	31	12	28	13
Economics and trade	818	535	811	504	943	593	780	504	840	548
Hospitality and tourism	236	152	229	145	265	179	244	151	251	141
Agriculture	72	42	66	38	85	29	83	52	76	54
Nutrition	80	67	85	69	75	65	128	105	108	93
Veterinary medicine	77	62	92	62	116	95	101	70	98	71
Forestry	28	7	42	8	51	13	56	18	55	16
Wood processing	17	4	21	4	25	9	31	18	21	3
Construction and geodesy	214	49	194	60	183	53	199	80	205	66
Road traffic	85	13	88	17	95	12	88	20	92	28
Marine, river, and port traffic	26	7	20	5	25	6	24	10	20	7
Posts and telecommunications	48	46	44	39	54	48	47	40	43	37
Railway traffic	75	13	77	33	64	14	84	22	62	22
Chemical technology	46	30	58	32	61	35	57	32	53	39
Graphics	104	59	112	60	144	78	115	63	137	84

20.10 Students who completed technical and related secondary schools

(Continued)

End of school year

	2012/2013		2013/2014		2014/2015		2015/2016		2016/2017	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Textile	25	23	26	25	31	31	40	39	25	23
Health care	596	510	373	328	695	585	706	588	673	557
Optics and glass processing	22	13	27	15	29	17	30	22	24	13
Internal affairs and security	326	56	-	-	-	-	-	-	-	-
Inter-vocational programmes ¹⁾	51	33	54	30	51	29	58	29	51	24

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

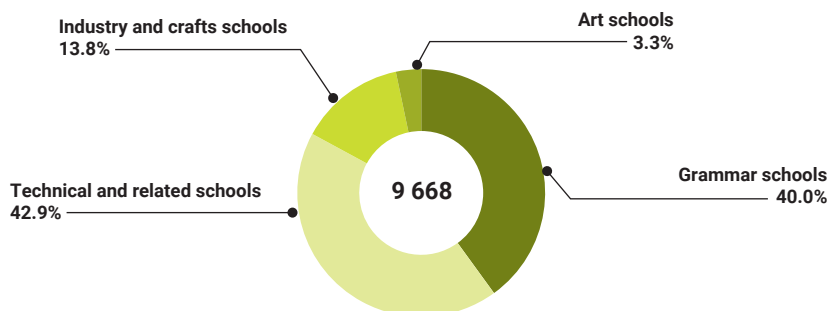
20.11 Students who completed industrial and craft secondary schools

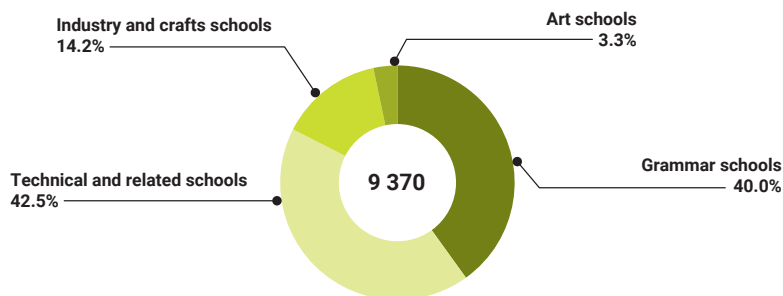
End of school year

	2012/2013		2013/2014		2014/2015		2015/2016		2016/2017	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	1 353	500	1 448	568	1 370	527	1 331	510	1 326	495
Engineering	311	7	287	11	326	20	310	17	312	16
Electrical engineering	51	-	70	-	86	-	89	-	95	1
Economics and trade	131	80	109	63	66	42	138	102	128	85
Hospitality and tourism	176	53	219	67	175	61	161	63	172	75
Agriculture	31	24	47	36	52	32	48	28	43	32
Nutrition	70	40	73	44	66	42	44	15	41	28
Wood processing	57	5	59	4	52	13	50	-	38	-
Construction and geodesy	61	1	45	-	57	7	65	2	75	-
Road traffic	90	5	114	8	97	3	84	7	91	2
Railway traffic	18	4	26	9	19	5	17	5	23	7
Graphics	26	8	26	8	24	13	-	-	20	7
Textile	37	37	43	43	56	55	51	51	42	42
Leather processing	8	7	16	12	16	13	19	19	18	15
Personal services (beauticians)	188	177	231	231	191	190	185	179	172	167
Other services	97	52	81	31	76	25	65	20	49	14
Optics and glass processing	1	-	2	1	11	6	5	2	7	4

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 2015/2016



G 20.4 Students who completed regular secondary school by type of school in 2016/2017**20.12 Students enrolled in primary and secondary schools and higher education institutions by level of education**

	Start of school/academic year				
	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018
Pre-school education					
Kindergartens	291	292	295	341	335
Children	39 212	39 761	39 549	43 684	40 573
Educators and teachers	3 443	3 574	3 656	4 039	4 120
Primary education					
Schools	138	142	144	144	144
Students	55 133	55 557	57 108	58 447	59 756
Teachers	4 924	5 028	5 216	5 303	5 452
Secondary education					
Schools	109	111	110	107	108
Students	40 343	39 717	38 162	36 775	35 601
Teachers	4 409	4 613	4 547	4 565	4 630
Higher Education					
Colleges and faculties	57	58	58	58	57
Students	71 936	71 447	71 902	73 494	73 873
Teachers and associates in teaching ¹⁾	8 304	8 136	8 189	8 280	8 500

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					
	2015/2016		2016/2017		2017/2018	
	Total	Female students	Total	Female students	Total	Female students
Higher education institutions	71 902	41 480	73 903*	42 044*	73 873	42 255
Faculties	57 631	35 083	59 465*	35 896*	59 782	36 093
Professional studies	3 833	2 553	4 949*	3 068*	5 177	3 158
Faculty of Economics and Business	1 335	909	1 498	1 013	1 599	1 080
Catholic Faculty of Theology – Institute for Theological Culture	97	61	84	53	56	36
Faculty of Law – Study Centre for Public Administration and Public Finances	1 671	1 401	1 571	1 319	1 509	1 282
Faculty of Kinesiology	730	182	926	234	1 066	290
Libertas International University	-	-	809	429	881	447
Faculty of Forestry ¹⁾	-	-	61	20	66	23

20.13 Students enrolled in higher education institutions by name of institutions and sex

(Continued)

Academic year

	2015/2016		2016/2017		2017/2018	
	Total	Female students	Total	Female students	Total	Female students
University studies	53 798	32 530	54 516	32 828	54 605	32 935
Faculty of Science	4 008	2 465	4 135	2 543	4 205	2 524
Faculty of Architecture	986	622	966	605	990	633
Faculty of Civil Engineering	1 214	511	1 213	541	1 251	579
Faculty of Graphic Arts	634	347	620	334	568	301
Faculty of Geodesy	503	205	513	222	500	215
Faculty of Mechanical Engineering and Naval Architecture	2 105	321	2 143	344	2 237	384
Faculty of Transport and Traffic Sciences	2 113	447	2 093	443	2 010	439
Faculty of Electrical Engineering and Computing	2 934	559	3 259	638	3 348	683
Faculty of Mining, Geology and Petroleum Engineering	801	213	822	231	792	246
Faculty of Chemical Engineering and Technology	1 051	779	1 096	807	1 065	776
Faculty of Textile Technology	1 219	1 045	1 058	906	857	746
School of Medicine	2 316	1 457	2 322	1 434	2 370	1 467
School of Dental Medicine	658	521	648	523	645	514
Faculty of Pharmacy and Biochemistry	919	733	933	743	963	776
Faculty of Veterinary Medicine	815	616	858	649	882	683
Faculty of Food Technology and Biotechnology	962	827	971	840	1 073	922
Faculty of Agriculture	2 401	1 552	2 429	1 575	2 334	1 517
Faculty of Forestry	1 064	398	1 042	401	888	381
Faculty of Economics and Business	6 898	4 392	6 488	4 065	6 354	3 907
Faculty of Law	5 851	4 339	5 672	4 207	5 484	4 045
Faculty of Political Science	1 432	1 002	1 462	1 014	1 445	1 000
Faculty of Humanities and Social Sciences	6 278	4 660	6 458	4 796	6 511	4 865
Catholic University of Croatia	593	460	851	675	1 095	861
University Department of Croatian Studies	1 249	926	1 317	989	1 248	927
Faculty of Teacher Education	1 362	1 315	1 484	1 428	1 574	1 513
Faculty of Education and Rehabilitation Sciences	798	760	775	738	820	786
Faculty of Kinesiology	1 247	374	1 265	371	1 256	370
Catholic Faculty of Theology	656	314	606	271	511	225
Institute of Philosophy and Theology of the Society of Jesus	85	20	113	22	83	9
Faculty of Philosophy of the Society of Jesus ²⁾	302	219	274	206	251	179
University of Zagreb – Military Studies	195	53	269	65	354	94
Libertas International University	149	78	361	202	641	368
Art Academies	1 261	746	1 293*	760*	1 260	716
Music Academy	530	292	540	303	534	278
Academy of Fine Arts	410	287	405	274	389	264
Academy of Dramatic Art	321	167	348*	183*	337	174

20.13 Students enrolled in higher education institutions by name of institutions and sex

(Continued)

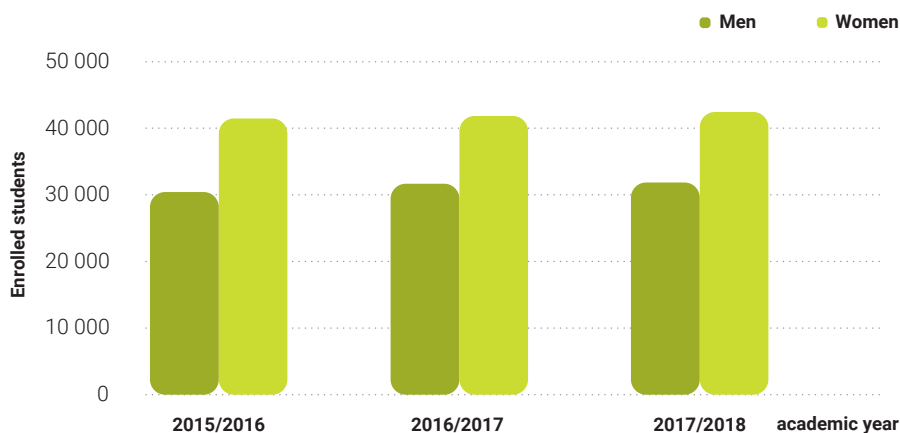
Academic year

	2015/2016		2016/2017		2017/2018	
	Total	Female students	Total	Female students	Total	Female students
Polytechnics	7 811	3 524	8 378	3 484	8 417	3 685
Zagreb University of Applied Sciences	3 230	378	3 818	457	3 647	468
University of Applied Sciences VERN	1 688	846	1 707	829	1 671	829
University of Applied Health Sciences	2 893	2 300	2 853	2 198	3 099	2 388
Post-secondary education institutions	5 199	2 127	4 767	1 904	4 414	1 761
College of Occupational Safety and Health	419	84	324	72	139	27
College for Information Technologies	428	48	551	68	392	42
Zagreb School of Economics and Management	762	308	685	311	569	255
Post-secondary Police School	481	134	487	144	501	147
Zagreb School of Business	314	172	376	216	410	245
Agora School of Market Communication	49	27	44	24	37	21
Libertas Business School ³⁾	769	440	-	-	-	-
RRIF College of Financial Management	159	111	211	150	158	114
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	174	91	254	123	232	109
Effectus – University College for Law and Finance	551	317	596	367	580	350
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	77	48	67	40	64	43
Edward Bernays College of Communication Management	261	179	292	192	253	159
Algebra University College	590	76	737	118	946	173
University College of International Relations and Diplomacy Dag Hammarskjöld	165	92	142	78	133	76
European Business School	-	-	1	1	-	-

¹⁾ Since 2016/2017, the study programme has been carried out in Zagreb.²⁾ In 2017/2018, the Faculty of Philosophy of the Society of Jesus changed its name.³⁾ Since 2016/2017 as part of Libertas International University.

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 2017/2018

Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Higher education institutions	73 873	42 255	56 875	33 685	28 756	22 779	15 072	4 223	2 440	603
Faculties	59 782	36 093	48 770	30 209	23 526	18 022	11 390	3 981	2 260	603
Professional studies	5 177	3 158	1 965	1 284	2 128	1 511	1 538	-	-	-
Faculty of Economics and Business	1 599	1 080	631	459	725	368	506	-	-	-
Faculty of Kinesiology	1 066	290	173	53	296	341	429	-	-	-
Faculty of Law – Study Centre for Public Administration and Public Finances	1 509	1 282	549	476	659	477	373	-	-	-
Catholic Faculty of Theology – Institute for Theological Culture	56	36	27	20	-	16	40	-	-	-
Libertas International University	881	447	519	253	393	304	184	-	-	-
Faculty of Forestry ¹⁾	66	23	66	23	55	5	6	-	-	-
University studies	54 605	32 935	46 805	28 925	21 398	16 511	9 852	3 981	2 260	603
Faculty of Science	4 205	2 524	2 522	2 522	1 625	1 547	776	107	150	-
Faculty of Architecture	990	633	990	633	387	400	203	-	-	-
Faculty of Civil Engineering	1 251	579	1 251	579	642	444	165	-	-	-
Faculty of Graphic Arts	568	301	568	301	257	190	121	-	-	-
Faculty of Geodesy	500	215	500	215	200	204	96	-	-	-
Faculty of Mechanical Engineering and Naval Architecture	2 237	384	2 231	384	1 063	811	257	106	-	-
Faculty of Transport and Traffic Sciences	2 010	439	1 385	309	957	613	440	-	-	-
Faculty of Electrical Engineering and Computing	3 348	683	3 348	683	1 552	1 175	621	-	-	-
Faculty of Mining, Geology and Petroleum Engineering	792	246	792	246	298	359	135	-	-	-
Faculty of Chemical Engineering and Technology	1 065	776	1 065	776	560	349	156	-	-	-
Faculty of Textile Technology	857	746	857	746	289	315	253	-	-	-
School of Medicine	2 370	1 467	2 343	1 441	453	465	408	339	363	342
School of Dental Medicine	645	514	645	514	115	109	94	107	95	125
Faculty of Pharmacy and Biochemistry	963	776	963	776	197	194	167	165	240	-
Faculty of Veterinary Medicine	882	683	882	683	201	145	129	146	125	136
Faculty of Food Technology and Biotechnology	1 073	922	1 065	914	463	381	229	-	-	-
Faculty of Agriculture	2 334	1 517	2 334	1 517	1 052	982	300	-	-	-
Faculty of Forestry	888	381	888	381	473	287	128	-	-	-
Faculty of Economics and Business	6 354	3 907	4 432	2 759	3 385	1 009	759	1 201	-	-
Faculty of Law	5 484	4 045	3 018	2 238	1 950	711	1 193	1 073	557	-

20.14 Students enrolled in higher education institutions by years of study in 2017/2018

(Continued)

Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Faculty of Political Science	1 445	1 000	1 434	991	638	451	238	118	-	-
Faculty of Humanities and Social Sciences	6 511	4 865	6 358	4 728	1 974	2 797	1 523	204	13	-
Catholic University of Croatia	1 095	861	865	647	445	440	210	-	-	-
University Department of Croatian Studies	1 248	927	1 248	927	446	574	228	-	-	-
Faculty of Teacher Education	1 574	1 513	1 211	1 155	469	436	319	137	213	-
Faculty of Education and Rehabilitation	820	786	820	786	322	350	148	-	-	-
Faculty of Kinesiology	1 256	370	1 256	370	353	225	216	135	327	-
Catholic Faculty of Theology	511	225	511	225	124	97	99	36	155	-
Institute of Philosophy and Theology of the Society of Jesus	83	9	79	9	7	16	15	23	22	-
Faculty of Philosophy of the Society of Jesus ²⁾	251	179	248	177	107	97	47	-	-	-
University of Zagreb – Military Studies	354	94	354	94	124	78	68	84	-	-
Libertas International University	641	368	342	199	270	260	111	-	-	-
Art Academies	1 260	716	1 260	716	324	361	247	148	180	-
Music Academy	534	278	534	278	80	91	95	102	166	-
Academy of Fine Arts	389	264	389	264	145	112	72	46	14	-
Academy of Dramatic Art	337	174	337	174	99	158	80	-	-	-
Polytechnics	8 417	3 685	4 525	1 797	3 385	2 897	2 041	94	-	-
Zagreb University of Applied Sciences	3 647	468	2 168	278	1 512	1 304	831	-	-	-
University of Applied Sciences VERN	1 671	829	1 342	668	457	622	498	94	-	-
University of Applied Health Sciences	3 099	2 388	1 015	851	1 416	971	712	-	-	-
Post-secondary education institutions	4 414	1 761	2 320	963	1 521	1 499	1 394	-	-	-
College of Occupational Safety and Health	139	27	139	27	-	81	58	-	-	-
College for Information Technologies	392	42	81	9	37	126	229	-	-	-
Zagreb School of Economics and Management	569	255	523	234	192	100	277	-	-	-
Post-secondary Police School	501	147	175	62	196	224	81	-	-	-
Zagreb School of Business	410	245	184	110	164	148	98	-	-	-
Agora School of Market Communication	37	21	36	21	12	7	18	-	-	-
RRIF College of Financial Management	158	114	47	31	50	66	42	-	-	-

20.14 Students enrolled in higher education institutions by years of study in 2017/2018

(Continued)

Start of academic year

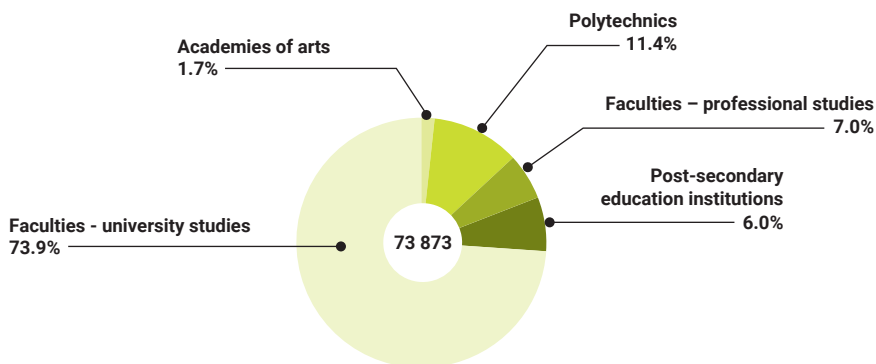
	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	232	109	34	14	124	53	55	-	-	-
Effectus – University College for Law and Finance	580	350	231	138	126	223	231	-	-	-
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	64	43	59	40	21	30	13	-	-	-
Edward Bernays College of Communication Management	253	159	164	111	84	102	67	-	-	-
Algebra University College	946	173	543	108	465	293	188	-	-	-
University College of International Relations and Diplomacy Dag Hammarskjöld	133	76	104	58	50	46	37	-	-	-

¹⁾ Since 2016/2017, the study programme has been carried out in Zagreb.

²⁾ In 2017/2018, the Faculty of Philosophy of the Society of Jesus changed its name.

Source: CBS

G 20.6 Students enrolled in the academic year 2017/2018 by type of higher education



20.15 Graduates by name of higher education institution and sex

	2015		2016		2017	
	Total	Female students	Total	Female students	Total	Female students
Higher education institutions	16 799	10 025	16 320*	9 880*	15 779	9 406
Faculties	12 874	8 079	12 695*	8 107*	12 254	7 685
Professional studies	752	524	970	629	989	598
Faculty of Textile Technology	8	8	10	9	17	15
Faculty of Economics and Business	321	229	266	192	299	221
Faculty of Kinesiology	135	25	103	26	182	38
Faculty of Teacher Education	88	88	38	36	11	11
Faculty of Law – Study Centre for Public Administration and Public Finances	165	146	179	142	166	140
Catholic Faculty of Theology – Catechetical institute	35	28	19	11	11	6
Libertas International University	-	-	350	211	296	164
Faculty of Forestry ¹⁾	-	-	5	2	7	3
University studies	12 122	7 555	11 725*	7 478*	11 265	7 087
Faculty of Science	909	579	858*	572*	892	592
Faculty of Architecture	308	194	266	177	246	162
Faculty of Civil Engineering	373	143	348	147	304	132
Faculty of Graphic Arts	208	127	198	124	163	107
Faculty of Geodesy	166	68	137	59	149	64
Faculty of Mechanical Engineering and Naval Architecture	465	59	436	40	397	59
Faculty of Transport and Traffic Sciences	423	101	399	88	377	102
Faculty of Electrical Engineering and Computing	904	187	797	174	978	194
Faculty of Mining, Geology and Petroleum Engineering	184	55	203	57	193	58
Faculty of Chemical Engineering and Technology	219	155	219	166	243	176
Faculty of Textile Technology	138	126	276	248	282	259
School of Medicine	326	230	366	256	291	187
School of Dental Medicine	104	77	92	74	101	77
Faculty of Pharmacy and Biochemistry	171	136	124	104	81	66
Faculty of Veterinary Medicine	70	48	78	50	83	58
Faculty of Food Technology and Biotechnology	222	195	221	187	265	236
Faculty of Agriculture	659	417	619	427	610	410
Faculty of Forestry	212	68	159	66	216	89

20.15 Graduates by name of higher education institution and sex

(Continued)

	2015		2016		2017	
	Total	Female students	Total	Female students	Total	Female students
Faculty of Economics and Business	2 035	1 420	2 114	1 417	1 488	1 006
Faculty of Law	613	481	426	333	568	473
Faculty of Political Science	535	369	475	350	447	330
Faculty of Humanities and Social Sciences	1 240	998	1 179	927	1 177	878
University Department of Croatian Studies	412	335	367	280	370	278
Faculty of Teacher Education	470	455	610	598	494	475
Faculty of Education and Rehabilitation	287	274	306	295	267	255
Faculty of Kinesiology	156	50	135	56	128	56
Catholic Faculty of Theology	122	81	102	53	117	66
Faculty of Philosophy of the Society of Jesus ²⁾	59	36	35	23	63	52
Catholic Faculty of Theology – Institute for Theological Culture	16	2	19	2	15	4
Catholic University of Croatia	82	67	106	87	153	123
Libertas International University	34	22	55	41	107	63
Art Academies	280	146	295	178	316	192
Music Academy	87	39	69	32	89	55
Academy of Fine Arts	107	65	135	98	136	95
Academy of Dramatic Art	86	42	91	48	91	42
Polytechnics	2 069	1 108	1 916	1 067	1 927	1 010
Zagreb University of Applied Sciences	712	93	577	74	671	85
University of Applied Sciences VERN	390	221	421	229	368	199
University of Applied Health Sciences	967	794	918	764	888	726
Post-secondary education institutions	1 576	692	1 414	528	1 282	519
College of Occupational Safety and Health	259	58	444	94	298	62
Zagreb School of Economics and Management	364	182	281	141	278	133
Post-secondary Police School	178	31	184	36	176	46
Agora School of Market Communication	33	14	16	13	22	7
RRIF College of Financial Management	17	14	12	11	26	21

20.15 Graduates by name of higher education institution and sex

(Continued)

	2015		2016		2017	
	Total	Female students	Total	Female students	Total	Female students
Zagreb School of Business	109	68	95	57	115	66
Libertas Business School ³⁾	332	196	-	-	-	-
International Graduate Business School Zagreb	9	6	-	-	-	-
College for Information Technologies	40	8	45	3	51	7
Algebra University College	66	7	69	6	60	2
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	23	13	29	18	47	27
University College of International Relations and Diplomacy Dag Hammarskjöld	84	51	72	44	54	40
Effectus – University College for Law and Finance	50	35	104	61	102	67
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	12	9	21	17	9	5
Edward Bernays College of Communication Management	-	-	42	27	44	36

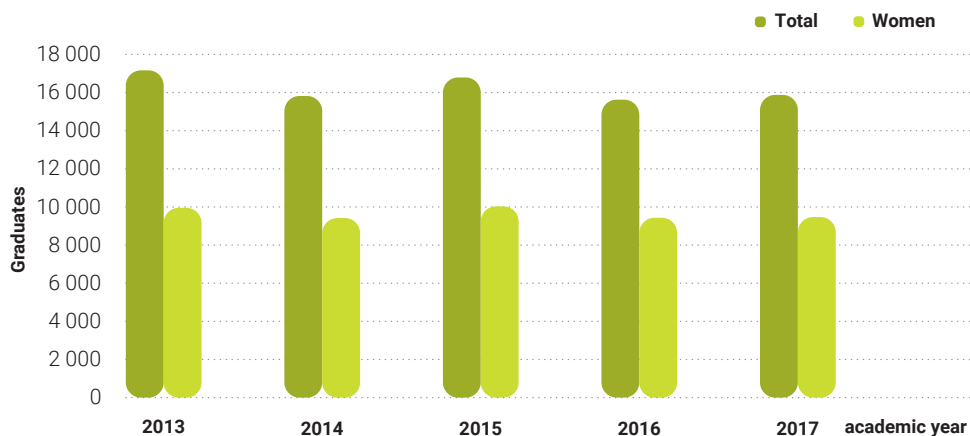
¹⁾ Since 2016/2017, the study programme has been carried out in Zagreb.

²⁾ In 2017/2018, the Faculty of Philosophy of the Society of Jesus changed its name.

³⁾ Since 2016/2017 as part of Libertas International University.

Source: CBS

G 20.7 Graduates by sex



20.16 Teachers and associates in higher education institutions by title in 2017/2018

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	8 500	1 450	1 027	1 615	179	1 209	97	38	2 251	634
Faculties	5 696	1 192	821	1 312	4	307	91	-	1 436	533
Faculty of Science	495	104	85	96	2	15	-	-	160	33
Faculty of Architecture	110	25	21	20	-	26	-	-	17	1
Faculty of Architecture – Design Studies	41	10	2	9	-	13	-	-	7	-
Faculty of Civil Engineering	133	26	12	36	-	7	-	-	50	2
Faculty of Graphic Arts	73	10	10	15	-	5	1	-	31	1
Faculty of Geodesy	89	28	6	22	-	5	-	-	26	2
Faculty of Mechanical Engineering and Naval Architecture	314	58	34	46	-	14	-	-	151	11
Faculty of Transport and Traffic Sciences	157	21	17	35	-	20	-	-	42	22
Faculty of Electrical Engineering and Computing	374	86	57	74	1	1	-	-	147	8
Faculty of Mining, Geology and Petroleum Engineering	117	28	14	30	-	4	-	-	36	5
Faculty of Chemical Engineering and Technology	137	30	17	14	-	5	-	-	66	5
Faculty of Textile Technology	120	20	15	25	-	11	-	-	40	9
Faculty of Food Technology and Biotechnology	198	52	34	42	-	5	-	-	65	-
School of Medicine	473	104	108	133	-	3	-	-	124	1
School of Dental Medicine	196	53	46	61	-	2	-	-	31	3
Faculty of Pharmacy and Biochemistry	96	18	27	19	-	1	-	-	31	-
Faculty of Agriculture	305	73	40	99	-	5	-	-	50	38
Faculty of Forestry	144	43	14	32	-	5	-	-	41	9
Faculty of Veterinary Medicine	171	57	30	32	-	2	-	-	37	13
Faculty of Economics	242	58	28	93	-	17	-	-	46	-
Faculty of Law	336	61	32	76	-	14	-	-	27	126
Faculty of Teacher Education	153	18	18	29	-	42	1	-	18	27
Faculty of Political Science	87	16	11	34	-	16	-	-	10	-
Faculty of Humanities and Social Sciences	701	118	81	140	-	20	89	-	126	127
Faculty of Education and Rehabilitation	96	25	23	30	-	8	-	-	10	-

20.16 Teachers and associates in higher education institutions by title in 2017/2018

(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	188	25	16	26	1	13	-	-	23	84
Faculty of Philosophy of the Society of Jesus ¹⁾	44	8	6	12	-	17	-	-	1	-
Catholic Faculty of Theology	106	17	17	32	-	11	-	-	23	6
Art Academies	459	116	107	83	1	40	-	38	66	8
Music Academy	185	53	41	30	-	23	-	21	13	4
Academy of Fine Arts	116	26	31	15	-	7	-	13	20	4
Academy of Dramatic Art	158	37	35	38	1	10	-	4	33	-
Polytechnics	1 164	33	28	40	92	424	-	-	494	53
Zagreb University of Applied Sciences	236	7	7	5	25	122	-	-	70	-
University of Applied Health Sciences	697	19	12	24	46	164	-	-	379	53
University of Applied Sciences VERN	231	7	9	11	21	138	-	-	45	-
Post-secondary education	679	33	15	30	81	342	5	-	140	33
College of Occupational Safety and Health	30	1	-	-	7	15	1	-	4	2
Agora School of Market Communication	29	2	1	1	2	19	-	-	-	4
Zagreb School of Economics and Management	82	-	-	-	24	51	-	-	7	-
Post-secondary Police School	52	7	2	6	10	22	-	-	5	-
College for Information Technologies	64	-	-	-	3	35	-	-	23	3
Zagreb School of Business	44	4	2	3	3	22	-	-	10	-
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	23	1	1	-	1	18	-	-	2	-
Algebra University College	115	-	2	3	4	49	-	-	57	-
University College of International Relations and Diplomacy Dag Hammarskjöld	36	9	1	2	5	8	4	-	5	2
Effectus – University College for Law and Finance	69	1	-	3	10	50	-	-	5	-

20.16 Teachers and associates in higher education institutions by title in 2017/2018

(Continued)

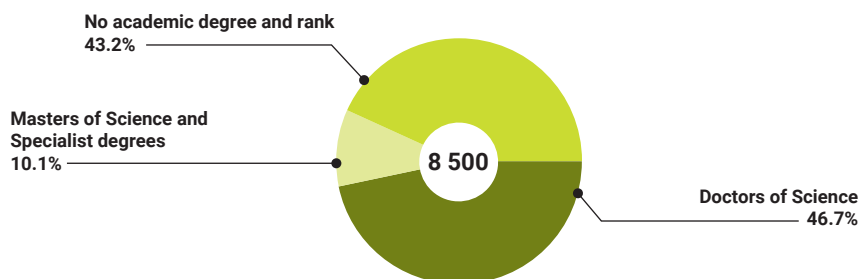
Academic year

	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 Theology "Matija Vlačić-Ilirik" (evangelical)	32	4	2	5	-	-	-	-	2	19
RRiF College of Financial Management	29	-	1	1	8	16	-	-	-	3
Edward Bernays College of Communication Management	71	3	3	4	4	37	-	-	20	-
European Business School	3	1	-	2	-	-	-	-	-	-
University Departments	216	39	27	60	-	36	1	-	53	-
University Department of Croatian Studies	216	39	27	60	-	36	1	-	53	-
Institutes	29	7	4	6	-	-	-	-	5	7
Institute of Philosophy and Theology of the Society of Jesus	29	7	4	6	-	-	-	-	5	7
University	257	30	25	84	1	60	-	-	57	-
Croatian Catholic University	173	23	21	69	-	16	-	-	44	-
Libertas International University	84	7	4	15	1	44	-	-	13	-

¹⁾ In 2017/2018, the Faculty of Philosophy of the Society of Jesus changed its name.

Source: CBS

G 20.8 Teachers and associates by academic degree and rank in the academic year 2017/2018

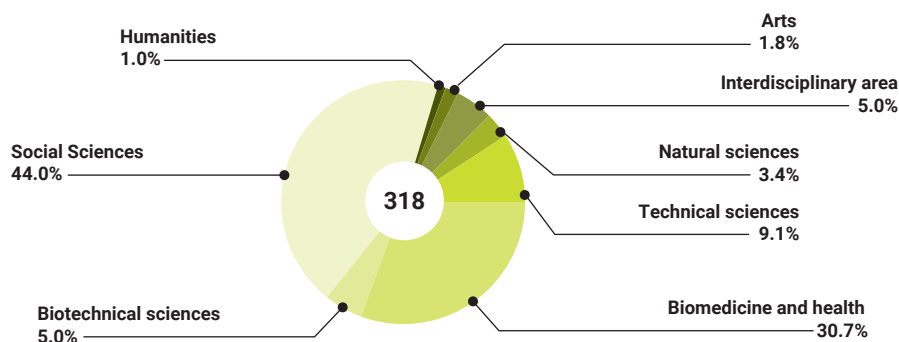


20.17 Masters of Science, Masters and University Specialists at higher education institutions

	2015		2016		2017	
	Total	Women	Total	Women	Total	Women
Total	335	207	337	195	318	191
Faculty of Science	1	1	3	3	2	1
Faculty of Civil Engineering	7	-	3	-	4	1
Faculty of Geodesy	1	-	4	4	1	-
Faculty of Mechanical Engineering and Naval Architecture	4	-	3	-	1	-
Faculty of Transport and Traffic Sciences	-	-	-	-	3	-
Faculty of Electrical Engineering and Computing	13	4	25	6	18	6
School of Medicine	12	10	12	8	30	20
School of Dental Medicine	15	9	8	7	7	5
Faculty of Pharmacy and Biochemistry	26	24	32	28	28	21
Faculty of Veterinary Medicine	29	13	23	6	33	8
Faculty of Food Technology and Biotechnology	6	6	1	1	5	4
Faculty of Agriculture	-	-	1	1	9	5
Faculty of Forestry	-	-	-	-	2	1
Faculty of Economics and Business	110	66	99	52	68	41
Faculty of Law	20	16	12	7	19	19
Faculty of Political Science	61	38	54	37	32	21
Faculty of Humanities and Social Sciences	6	6	2	2	10	8
Faculty of Education and Rehabilitation	5	5	5	5	7	7
Catholic Faculty of Theology	4	1	9	1	-	-
Music Academy	2	-	4	2	6	5
Center for Postgraduate Studies of the University of Zagreb	13	8	35	25	31	17
Academy of Fine Arts	-	-	2	-	-	-
Faculty of Chemical Engineering and Technology	-	-	-	-	2	1

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 2017



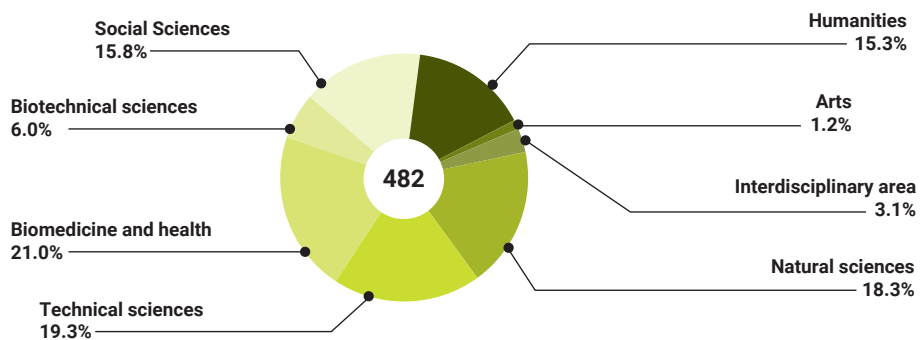
20.18 Doctors of Science at higher education institutions

	2015		2016		2017	
	Total	Women	Total	Women	Total	Women
Total	672	390	427	241	482	261
Faculty of Science	106	67	63	40	85	57
Faculty of Architecture	10	5	3	1	2	1
Faculty of Civil Engineering	10	3	5	2	8	3
Faculty of Geodesy	4	2	4	2	5	3
Faculty of Graphic Arts	6	2	8	5	4	2
Faculty of Mechanical Engineering and Naval Architecture	27	4	13	3	9	3
Faculty of Electrical Engineering and Computing	38	10	29	3	43	3
Faculty of Transport and Traffic Sciences	3	1	3	-	10	2
Faculty of Mining, Geology and Petroleum Engineering	7	3	7	4	8	2
Faculty of Chemical Engineering and Technology	20	16	6	3	10	6
Faculty of Textile Technology	5	4	1	1	1	1
School of Medicine	80	50	90	53	68	33
School of Dental Medicine	16	7	12	8	9	3
Faculty of Pharmacy and Biochemistry	6	5	8	7	8	6
Faculty of Veterinary Medicine	21	14	4	2	16	6
Faculty of Food Technology and Biotechnology	20	13	11	9	11	8
Faculty of Agriculture	25	13	16	9	13	9
Faculty of Forestry	14	6	6	2	5	2
Faculty of Economics and Business	21	12	11	7	10	7
Faculty of Law	27	15	16	12	6	3
Faculty of Political Science	7	4	4	2	2	1
Faculty of Philosophy	141	104	64	47	103	75
Croatian Studies	17	8	14	5	4	2
Faculty of Education and Rehabilitation	3	2	-	-	3	-
Faculty of Kinesiology	12	4	7	1	11	5
Catholic Faculty of Theology	3	-	2	-	4	1
Institute of Philosophy and Theology of the Society of Jesus ¹⁾	4	2	2	-	2	1
Centre for Postgraduate Studies of the University of Zagreb	4	3	2	1	8	5
Academy of Arts	4	3	6	3	5	2
Faculty of Teacher Education	11	8	10	9	8	8
Music Academy	-	-	-	-	1	1

¹⁾ In 2017/2018, the Faculty of Philosophy of the Society of Jesus changed its name.

Source: CBS

G 20.10 Doctors of Science by the area of science and arts of their doctoral dissertations in 2017



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.

Theatre is a cultural and artistic institution, that is, an artistic organisation intended for performing artistic events. A large number of employees participate in the functioning of the theatre,, who are divided to artistic, technical and administrative personnel.

The theatres include professional theatres, professional children's theatres and amateur theatres.

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 st. Marko 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 1960 to 2017

	Theatres ¹⁾			Cinematographs/Movie theatres			Radio subscribers ²⁾	TV-subscribers ²⁾³⁾⁴⁾
	Number	Performances	Visitors	Number	Projections	Visitors in thousands		
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
2017	90	6 369	1 237 664	9	68 166	2 285	270 094	222 159

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
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
2016/2017	90	6 369	4 424	1 945	679	1 237 664	865 953	371 711

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
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
2016/2017	60	3 965	2 844	1 121	442	937 718	664 195	273 523

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
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
2016/2017	20	2 276	1 484	792	207	286 978	192 550	94 428

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
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
2016/2017	10	128	96	32	30	12 968	9 208	3 760

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							
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
2016/2017	359	264	-	95	10	16	-	10	192 000	146 248	45 752

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
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
2016/2017	32	561	263	249	49	320 156	172 100	69 866	78 190

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
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
2017	33	22	55	40	15	47	43	4	56 000	52 000	4 000

Source: Lado

21.10 Cinematographs/movie theatres

	Cinematographs	Movie theatres/ screens	Seats	Projections	Visitors in thousands	Employees
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
2017	9	49	9 185	68 166	2 285	99

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
Strossmayer Gallery of Old Masters of the Croatian Academy of Sciences and Arts	1884		790	178	8 102

21.12 Museums in 2015

(Continued)

Museums by type	Year of foundation	Museums	Items		Visitors
			Total	of which displayed	
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
Music Collection of the National and University Library	1947		97 669	-	756

21.14 Collections in 2015

(Continued)

Collections by types	Year of foundation	Collections	Items in collections		Visitors
			Total	of which displayed	
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	2 107	541	3 699
Zagreb City Museum – Collection and Flat of the Architect Viktor Kovačić	1953		617	457	463
Memorial Apartment of Marija Jurić Zagorka	2016		1 490	84	3 236
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 Magjer'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

	Libra- ries	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

	2013	2014	2015	2016	2017
Animals					
Individuals – total	6 009	5 968	7 533	7 737	8 687
Species – total	321	338	357	358	377
Mammals					
Individuals	617	656	625	648	669
Species	75	76	77	77	81
Birds					
Individuals	306	305	351	342	354
Species	75	75	76	77	80
Reptiles					
Individuals	372	453	620	624	813
Species	85	97	108	114	123
Fish					
Individuals	297	288	375	446	495
Species	33	33	37	32	32
Amphibians and invertebrates					
Individuals	4 417	4 266	5 562	5 677	6 356
Species	53	57	59	58	61
Visitors – total	265 087*	302 928*	282 970*	316 604*	403 070
Of which: children	95 139	103 881	98 727	122 797	182 928
at events	7 145	8 056	9 733	8 183	11 039

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 Sports and Youth.

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 2017

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	981	95 711	39 467	29 570	19 468	15 229	6 733	6 743	7 241	10 689	3 796
Athletics	7	1 538	657	2	146	837	289	121	79	64	52
Automobile racing	24	143	13	7	2	23	28	48	28	7	36
Badminton	7	327	157	109	103	47	19	9	28	12	25
Baseball	5	231	26	57	65	56	25	21	6	1	25
Bicycling	14	135	18	17	28	15	20	35	11	9	34
Billiards	10	152	11	9	18	29	27	22	27	20	21
Boules	25	367	6	-	-	17	24	30	38	258	60
Body building	3	141	31	-	2	31	60	27	16	5	10
Boxing	15	304	42	4	60	174	59	7	-	-	38
Bridge	6	268	125	-	-	40	109	119	-	-	22
Curling	5	36	11	-	-	9	7	14	4	2	15
Weightlifting	5	26	10	-	-	3	9	12	1	1	13
Gymnastics	9	1 140	818	99	610	372	44	11	3	1	52
Golf	4	62	9	6	5	12	4	3	8	15	11
Hockey	7	526	137	67	159	144	75	40	25	16	32
Ice Hockey	10	373	38	-	1	207	95	48	13	9	56
Wrestling	9	1 194	66	96	263	604	170	48	3	10	34
Sailing	10	164	36	36	45	33	12	10	17	11	24
Jet Ski	3	159	51	10	7	20	20	45	43	14	17
Judo	14	1 962	478	1 414	304	81	48	78	22	15	70
Jiu-jitsu	5	26	3	-	-	5	6	11	4	-	14
Kayak/canoe	4	600	109	25	80	178	221	82	10	4	16
Karate	38	1 105	380	1	79	635	244	73	24	49	100
Kickboxing	17	590	148	11	48	231	178	84	29	9	24
Ice skating	8	365	338	219	82	35	9	15	2	3	34
Equestrian sports	12	158	116	13	34	44	21	31	11	4	26
Basketball	30	1 649	330	443	868	226	73	10	6	23	211
Inline skating	9	297	153	67	9	221	-	-	-	-	27
Bowling	33	649	150	66	84	56	28	68	77	270	115
Fencing	9	461	183	141	94	120	48	34	19	5	29
Motorcycle sports	8	87	1	-	1	9	33	15	9	20	24
Nanbudo	8	383	136	26	60	167	84	33	8	5	20
Football	132	12 181	197	5 600	2 818	1 190	603	1 142	649	179	500
Arm Wrestling	4	150	15	5	30	85	15	10	5	-	9
Volleyball	26	2 528	2 095	917	919	474	144	44	9	21	149
Orienteering	5	226	88	1	12	59	21	54	36	43	12
Darts	30	435	26	-	1	21	118	189	88	18	62
Swimming	10	1 274	484	67	355	720	98	12	8	14	52

22.1 Sports associations and active athletes by sport types and age groups in 2017

(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	
Rugby	8	774	41	1	7	421	229	73	20	23	28
Rock'n'roll	5	358	258	96	158	91	8	4	-	1	46
Diving	5	111	38	2	8	46	34	17	4	-	12
Handball	32	1 426	413	91	374	631	227	70	12	21	139
Sambo	5	193	50	70	50	30	22	12	7	2	17
Savate	3	111	26	11	37	38	22	2	-	1	13
Synchronized swimming	4	245	245	57	93	71	23	1	-	-	23
Skiing	16	307	128	111	93	43	16	21	6	17	49
Water skiing and wakeboarding	3	22	6	-	5	8	1	3	4	1	8
Diving	4	302	182	213	45	21	11	4	6	2	19
Softball	7	620	186	181	145	142	69	79	4	-	23
Sports for the deaf	14	298	63	4	27	94	85	70	12	6	18
Disabled sports	40	1 058	267	25	50	140	220	178	375	70	10
Sport recreation	14	20 000	14 000	100	400	500	2 000	3 000	5 000	9 000	80
Sport dance	5	191	116	84	46	36	16	1	4	4	19
Sport fishing	15	145	22	14	9	23	-	-	83	16	32
Sport fishing at sea	5	71	3	-	7	3	13	27	14	7	25
Sport climbing	9	50	22	10	21	13	3	1	-	2	22
Squash	5	88	16	14	8	16	15	3	2	1	11
Table tennis	11	380	98	136	141	81	14	2	4	2	39
Archery	7	376	124	35	63	58	36	83	46	55	27
Shooting sports	17	436	121	89	75	47	42	72	53	58	50
University sports	32	4 071	1 591	-	-	4 071	-	-	-	-	-
Chess	24	566	82	179	31	43	32	46	76	159	75
School sports ¹⁾	215	25 830	12 070	16 944	8 886	-	-	-	-	-	520
Taekwondo	33	2 307	971	1 270	612	280	53	40	19	33	102
Muay Thai	10	22	4	-	-	6	12	4	-	-	22
Tennis	27	604	192	18	218	228	80	48	10	2	120
Triathlon	6	520	161	151	81	57	61	102	54	14	30
Water polo	7	725	50	1	4	468	209	37	6	-	40
Rowing	6	741	150	113	333	249	35	8	1	2	33
Wushu	11	185	59	15	49	40	32	18	13	18	22
Air sports	11	166	20	-	-	4	25	62	40	35	51

¹⁾ School sports associations.

22.2 Number of medals won at international competitions¹⁾ from 2008 to 2017

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Medal total	147	208	232	320	235	296	268	192	170	200
By classes of medals										
Gold	40	85	64	135	111	90	82	68	78	58
Silver	57	56	86	52	48	94	102	74	47	57
Bronze	50	67	82	133	76	112	84	50	45	85
By sex										
Male	99	118	124	168	112	152	139	91	105	131
Female	48	42	53	71	56	59	66	48	37	69
By categories										
Cadets	...	7	11	20	9	15	6	1	10	8
Female cadets	...	8	22	13	2	2	1	12	1	7
Juniors	...	29	32	63	42	62	44	33	18	24
Female juniors	...	5	8	18	15	33	16	10	7	12
Seniors	...	112	120	145	103	129	137	85	99	99
Female seniors	...	47	39	61	64	55	64	51	35	50

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 2017

Types of sports venues	Total	Categories				
		I	II	III	IV	V
Sports venues – total	163	16	19	35	55	38
Sports centres	48	5	5	14	13	11
Hockey	1	-	-	1	-	-
Basketball	2	1	-	-	1	-
Football	1	-	1	-	-	-
Sports and recreation	37	3	4	9	11	10
School	2	-	-	-	1	1
Tennis	5	1	-	4	-	-
Sports fields	47	-	-	12	14	21
Football	33	-	-	11	14	8
Baseball	1	-	-	1	-	-
Playgrounds and parks for children	3	-	-	-	-	3
Basketball	1	-	-	-	-	1
Beach volleyball	1	-	-	-	-	1
Handball	5	-	-	-	-	5
Tennis	1	-	-	-	-	1
Futsal	2	-	-	-	-	2
Sports halls and arenas	26	2	7	6	11	-
Gymnastics hall	1	-	1	-	-	-
Sports halls	14	-	2	2	10	-
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 Sports and Youth

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.

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.

Data on criminal offenses are shown according to sections of the Criminal Code, that is, by the titles of criminal offenses.

23.1 Courts and judges

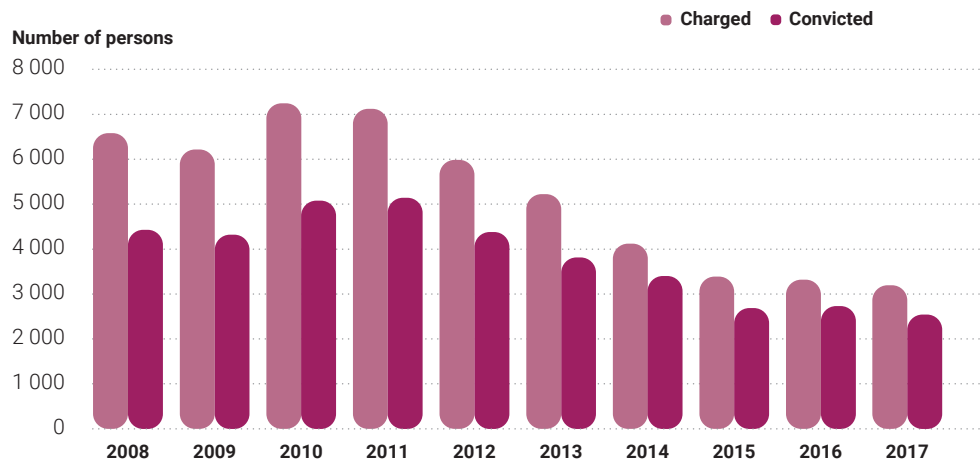
		2013	2014	2015	2016	2017
Total	Total	478	472	494	481	469
	Women	381	376	389	381	373
County Court in Zagreb	Total	106	101	99	102	98
	Women	79	77	77	78	75
Municipal Civil Court in Zagreb	Total	135	132	124	120	118
	Women	112	109	102	101	100
Municipal Criminal Court in Zagreb	Total	40	40	40	37	36
	Women	28	28	28	27	26
Municipal Labour Court in Zagreb	Total	24	26	24	22	22
	Women	19	21	20	18	18
Municipal Court in Sesvete ¹⁾	Total	16	16	-	-	-
	Women	13	13	-	-	-
Municipal Court in Novi Zagreb ²⁾	Total	-	-	43	40	39
	Women	-	-	30	28	28
Misdemeanour Court in Zagreb	Total	81	81	78	73	71
	Women	72	71	72	68	66
Misdemeanour Court in Sesvete ¹⁾	Total	5	5	-	-	-
	Women	5	5	-	-	-
Misdemeanour Court in Novi Zagreb ²⁾	Total	-	-	17	17	17
	Women	-	-	9	9	9
Commercial Court in Zagreb	Total	58	58	56	53	51
	Women	44	43	42	39	38
Administrative Court in Zagreb	Total	13	13	13	17	17
	Women	9	9	9	13	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	2016		2017	
	Charged	Convicted	Charged	Convicted
Total	3 320	2 735	3 165	2 528
Offences against life and limb	209	178	196	156
Murders	13	10	12	10
Aggravated murders	8	7	5	3
Bodily injury	60	47	71	56
Aggravated bodily injury	116	104	96	75
Especially aggravated bodily injury	4	4	3	3
Other criminal offences	8	6	9	9
Against personal freedom	313	239	322	247
Unlawful deprivation of freedom	-	-	5	4
Threats	285	220	285	217
Other criminal offences	28	19	32	26
Against honour and reputation	64	16	83	27
Insult	19	5	23	9
Defamation	4	1	11	4
Slander and libel	41	10	49	14
Against sexual freedom	33	27	26	19
Rape	6	6	9	6
Lewd acts	12	10	11	7
Other criminal offences	15	11	6	6
Against sexual maltreatment and sexual exploitation of children	19	18	24	19
Sexual abuse of a child younger than fifteen years	11	11	15	13
Other criminal offences	8	7	9	6
Against marriage, family, and youth	247	225	260	222
Failure to provide maintenance	191	172	179	156
Violation of children's rights	49	47	62	51
Other criminal offences	7	6	19	15
Against people's health	141	122	131	110
Illicit drug production and trafficking	130	113	112	98
Enabling drug abuse	8	8	12	8
Other criminal offences	3	1	7	4

23.2 Charged and convicted persons of full age by criminal offences

(Continued)

Criminal offences	2016		2017	
	Charged	Convicted	Charged	Convicted
Against Public Safety	26	22	28	24
Endangering Life and Property by Dangerous Public Acts or Means	22	18	17	13
Dangerous execution of construction works	4	4	9	9
Other criminal offences	-	-	2	2
Against safety in traffic	204	196	177	165
Reckless driving	1	1	-	-
Endangering Road Traffic	202	194	177	165
Other criminal offences	1	1	-	-
Against property	1 245	1 060	1 138	950
Theft	413	375	350	309
Aggravated theft	290	259	278	240
Robbery	82	71	49	45
Aggravated robbery	14	13	13	11
Larceny	38	18	26	7
Embezzlement	60	53	40	34
Unauthorised use of movable property	11	10	11	11
Malicious Mischief	61	52	52	39
Fraud	208	155	263	211
Extortion	21	15	27	17
Concealing	12	12	12	10
Other criminal offences	35	27	17	16
Against the economy	209	125	242	168
Abuse of trust in economic business operations	87	44	98	53
Fraud in economic business operations	60	29	55	38
Embezzlement of taxes or custom	21	17	22	17
Avoiding customs control	5	4	7	4
Illicit trade	21	21	51	50
Other criminal offences	15	10	9	6
Against computer systems, programmes, and data	37	35	39	32
Unauthorized access	1	1	-	-
Computer fraud	34	32	39	32
Other criminal offences	2	2	-	-

23.2 Charged and convicted persons of full age by criminal offences

(Continued)

Criminal offences	2016		2017	
	Charged	Convicted	Charged	Convicted
Against Counterfeiting	249	225	194	172
Forgery of a document	212	196	177	156
Forgery of an official or business document	17	13	3	3
Certification of untrue content	6	3	6	5
Other criminal offences	14	13	8	8
Against Intellectual Property	3	2	6	4
Illicit use of an author's work or an artistic performance	1	-	1	-
Other criminal offences	2	2	5	4
Against official duty	100	63	72	46
Abuse of office and official authority	70	34	45	21
Accepting a bribe	8	7	9	8
Offering a bribe	20	20	11	11
Trading in influence	1	1	3	3
Offering a bribe for trading in influence	1	1	1	1
Other criminal offences	-	-	3	2
Against the judiciary	35	31	43	32
False report of a criminal offence	14	14	14	14
Making a false statement	17	14	23	14
Failure to fulfil court decision	1	1	1	-
Other criminal offences	3	2	5	4
Against public order	145	125	121	101
Coercion against an official person	20	16	22	18
Attacking an official	14	13	8	8
Removal and damage of an official seal or a mark	7	7	4	2
Illegal debt collection	13	9	9	9
Illegal entry, movement and stay in the Republic of Croatia	27	25	30	26
Illicit production, possession, or acquisition of weapons and explosive substances	51	43	41	35
Other criminal offences	13	12	7	3
Other criminal offences	41	26	63	34

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.

23.3 Charged and convicted persons of full age by courts¹⁾

Court seat	Charged					Convicted				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
City of Zagreb – total²⁾	5 221	4 121	3 388	3 320	3 165	3 816	3 402	2 688	2 735	2 528
County courts:										
Zagreb	569	791	400	301	294	493	701	318	250	246
Municipal courts:										
Zagreb	3 777	2 655	2 713	2 634	2 460	2 663	2 120	2 127	2 167	1 990
Sesvete	373	291	-	-	-	280	243	-	-	-
Krapina	-	-	-	-	-	-	-	-	-	-
Zabok	-	-	-	-	-	-	-	-	-	-
Zlatar	502	384	275	385	411	380	338	243	318	292

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 2017¹⁾²⁾

	Total	Zagreb County Court	Municipal Criminal Court in Zagreb	Municipal Court in Zlatar ²⁾
TOTAL	2 528	246	1 990	292
Against humanity and human dignity	6	6	-	-
Against life and limb	156	15	104	37
Against labour relations and social insurance	10	-	9	1
Against personal freedom	247	-	197	50
Against privacy	6	-	6	-
Against honour and reputation	27	-	26	1
Against sexual freedom	19	9	9	1
Against sexual maltreatment and sexual exploitation of children	19	5	14	-
Against marriage, family, and children	222	-	222	-
Against people's health	110	13	87	10
Against the environment	11	-	7	4
Against the public safety	24	-	20	4
Against safety in traffic	165	-	140	25
Against property	950	86	770	94
Against economy	168	43	115	10
Against computer systems, programmes, and data	32	-	29	3
Against counterfeiting	172	1	144	27
Against intellectual property	4	-	4	-

23.4 Convicted persons of full age by courts and groups of criminal offences in 2017¹⁾²⁾

(Continued)

	Total	Zagreb County Court	Municipal Criminal Court in Zagreb	Municipal Court in Zlatar ²⁾
Against official duty	46	37	7	2
Against the judiciary	32	1	27	4
Against public order	101	30	52	19
Secondary criminal legislation (not within the scope of the Criminal Court)	1	-	1	-

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.

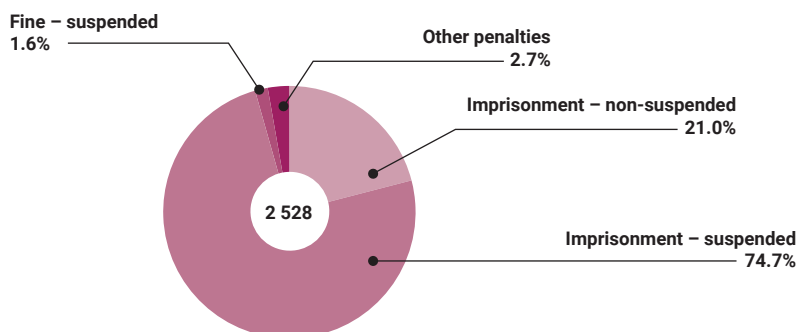
Source: CBS

23.5 Convicted adult persons by pronounced sanctions

Sanctions imposed	2013	2014	2015	2016	2017
Total	3 817	3 402	2 688	2 735	2 528
Imprisonment – non-suspended	983	1 110	617	556	531
Long-term imprisonment	4	1	1	3	-
15 – 20 years	-	2	3	1	-
10 – 15 years	5	1	-	3	3
5 – 10 years	16	26	11	10	9
2 – 5 years	144	119	70	66	63
1 – 2 years	233	193	133	82	83
6 – 12 months	381	515	326	320	322
up to 6 months	200	253	73	71	51
Imprisonment – suspended	2 698	2 189	1 961	2 092	1 888
Fine					
Non-suspended	65	42	29	18	21
Suspended	3	3	20	16	41
Convicted persons, but no penal sentence	4	5	2	2	1
Judicial admonition	19	3	1	3	-
Educational measures	22	25	35	25	20
Juvenile prison, suspended juvenile imprisonment, and suspended juvenile imprisonment with pronounced educational measure	23	25	23	23	26

Source: CBS

G 23.2 Convicted adult persons, by pronounced criminal penalties or other measures, 2017



23.6 Juvenile perpetrators of criminal offenses by groups of criminal offenses, type of decision and pronounced sanctions in 2017

	Total	Criminal offences		
		Against life and limb	Against property	Other
TOTAL	80	7	49	24
Type of decision				
Proceedings terminated	16	1	11	4
Pronounced penalties	64	6	38	20
Type of pronounced penalty	64	6	38	20
Educational measures ¹⁾				
Warnings	16	2	7	7
Measures of increased supervision	34	4	20	10
Correctional institution measure	8	-	7	1
Juvenile imprisonment	-	-	-	-
Suspended juvenile imprisonment	6	-	4	2

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 decision¹⁾²⁾³⁾

	2013	2014	2015	2016	2017
Adult perpetrators – total	47 395	52 053	27 701	28 378	25 994
Type of offences from the area of					
- Public order and peace	7 396	9 148	5 982	5 647	6 303
- Safety in road traffic	33 360	33 320	14 459	14 775	12 207
- Public safety	990	1 005	565	526	478
- Economy	2 406	4 177	3 096	4 332	4 414
- Finance	2 687	3 393	3 086	2 735	2 302
- Labour relations and safety at work	249	503	186	63	69
- Education, science, culture, and information	18	15	5	11	2

23.7 Adult and juvenile perpetrators of criminal offences by type of criminal offence, procedure, and decision¹⁾²⁾³⁾

(Continued)

	2013	2014	2015	2016	2017
- Health care and social welfare, health insurance, and the protection of the human environment	285	490	321	288	212
- Administration	4	2	1	1	7
Type of decision					
Convicted	34 484	36 939	21 573	21 999	19 792
Rebuff	258	426	151	25	22
Proceedings terminated	889	738	648	804	947
Judgement of acquittal	9 144	10 505	4 358	4 351	3 835
Judgement rejecting charges	2 616	3 445	971	1 199	1 396
Mentally incompetent persons	4	-	-	-	2
Juvenile perpetrators – total	735	629	381	345	432
Type of offences from the area of					
- Public order and peace	485	415	203	194	244
- Safety in road traffic	166	126	120	83	126
- Public security	78	83	40	26	23
- Economy	5	3	18	41	38
- Finance	1	2	-	1	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	12	5	4	6	7
Rebuff	2	-	-	-	-
Proceedings terminated	174	116	42	32	64
Applied educational and/or protective orders	547	508	335	307	361

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 sanctions¹⁾²⁾³⁾

	2013	2014	2015	2016	2017
Adult perpetrators – total	34 484	36 939	21 573	21 999	19 792
Imprisonment	2 260	2 213	1 830	1 714	1 522
Fine	23 059	26 942	16 388	15 426	14 129
Admonition	8 420	6 670	2 725	4 083	3 474
Found guilty, but no penal sentence	745	1 114	630	776	667
Protective orders (with penalty)	3 955	2 580	2 066	2 408	2 833
Juvenile perpetrators – total	12	5	4	6	7
Juvenile imprisonment	7	1	1	1	1
of which suspended imprisonment	6	1	1	1	-
Fine	5	4	3	5	6
Educational measures					
Judicial admonition	384	315	246	219	275
Special obligations	159	180	73	82	74
Assignment to a correctional institution	1	13	16	2	9
Protective measures	159	35	37	30	19

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				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Legal persons – total	90 638	95 741	100 481	80 685	82 344	51 812	56 926	61 670	46 563	48 416
Companies – total	51 521	55 933	60 135	64 581	65 743	45 058	49 469	53 669	39 867	41 362
Simple limited liability company	2 891	5 213	7 246	9 394	11 455	2 885	5 205	7 242	6 682	7 722
Limited liability company	47 612	49 681	51 815	54 084	53 163	41 331	43 400	45 526	32 460	32 915
Other forms	1 018	1 039	1 074	1 103	1 125	842	864	901	725	725
Companies ¹⁾ and co-operatives ²⁾ – total	23 976	23 981	23 984	507	459	216	224	231	98	93
Private companies	3 012	3 012	3 012	-	-	4	4	4	-	-
Limited liability companies	20 162	20 160	20 155	-	-	55	55	53	-	-
Cooperatives	481	488	496	507	459	155	163	172	98	93
Other forms	321	321	321	-	-	2	2	2	-	-
Institutions, bodies, associations, funds and organizations	15 141	15 827	16 362	15 597	16 142	6 538	7 233	7 770	6 598	6 961
Entities in crafts and freelance activities	15 780	15 219	14 623	14 316	14 802	...	...	...	...	...

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				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Total	51 812	56 926	61 670	46 563	48 416	100,0	100,0	100,0	100,0	100,0
Forms of ownership										
State-owned	210	222	228	199	195	0,4	0,4	0,4	0,4	0,4
Private	44 492	48 916	53 141	39 436	40 982	85,9	85,9	86,2	84,7	84,6
Cooperative	155	163	172	97	92	0,3	0,3	0,3	0,2	0,2
Mixed	419	423	423	310	294	0,8	0,7	0,7	0,7	0,6
No ownership	6 536	7 202	7 706	6 521	6 853	12,6	12,7	12,4	14,0	14,2

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 %
2013		90 638	51 812	57.2
2014		95 741	56 926	59.5
2015		100 481	61 670	61.4
2016		80 685	46 563	57.7
2017 - Total		82 344	48 416	58.8
Legal entities by NCA 2007 sections				
A	Agriculture, forestry and fishing	597	335	56.1
B	Mining and quarrying	54	27	50.0
C	Manufacturing	5 436	3 600	66.2
D	Electricity, gas, steam and air conditioning supply	371	184	49.6
E	Water supply; sewerage, waste management, and remediation activities	239	131	54.8
F	Construction	6 502	3 553	54.6
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	19 060	10 705	56.2
H	Transportation and storage	1 861	1 119	60.1
I	Accommodation and food service activities	4 891	2 915	59.6
J	Information and communication	4 705	3 282	69.8
K	Financial and insurance activities	1 067	537	50.3
L	Real estate activities	2 373	1 488	62.7
M	Professional, scientific and technical activities	12 551	8 963	71.4
N	Administrative and support service activities	2 971	2 045	68.8
O	Public administration and defence; compulsory social security	196	134	68.4
P	Education	1 152	924	80.2
Q	Health and social work activities	1 257	834	66.3
R	Arts, entertainment and recreation	4 548	2 135	46.9
S	Other service activities	12 479	5 505	44.1
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 2017

		Business entities				
		Total	Micro	Small	Medium	Large
Total		40 017	35 752	3 604	510	151
A	Agriculture, forestry and fishing	352	321	24	6	1
B	Mining and quarrying	28	18	5	3	2
C	Manufacturing	3 434	2 853	465	91	25
D	Electricity, gas, steam and air conditioning supply	221	178	23	11	9
E	Water supply; sewerage, waste management and remediation activities	115	91	15	6	3
F	Construction	3 453	3 091	314	34	14
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	9 994	8 451	1 301	193	49
H	Transportation and storage	1 060	913	121	17	9
I	Accommodation and food service activities	2 433	2 251	165	15	2
J	Information and communication	3 195	2 879	261	37	18
K	Financial and insurance activities	211	187	14	4	6
L	Real estate activities	1 584	1 420	150	12	2
M	Professional, scientific and technical activities	9 047	8 531	462	48	6
N	Administrative and support service activities	1 847	1 698	129	19	1
O	Public administration and defence; compulsory social security	29	26	3	-	-
P	Education	581	546	34	1	-
Q	Health and social work activities	544	488	51	4	1
R	Arts, entertainment and recreation	508	469	31	5	3
S	Other service activities	1 381	1 341	36	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	-	-	-	-	-
Natural persons without activity		103	102	1	-	-

¹⁾ See Notes on Methodology.

Source: Fina



25

Foreign direct investments



NOTES ON METHODOLOGY

Coverage and comparability

Foreign direct investments include equity capital, reinvested earnings and debt relations between ownership-related residents and non-residents. Direct investments are investments whereby a foreign owner acquires a minimum of 10% interest in equity capital of a resident company.

The attached tables show direct investments in the county by years according to the country of investor and the resident activity.

The countries in table 25.3. are presented according to the Alphabetical list of Countries and States and Their Codes as defined in Attachment 1 of the Decision on the Manner of Opening Transaction Accounts (Official Gazette No. 3/2011, 35/2011, 50/2011, 89/2011, 101/2011, 135/2011, 56/2012, 18/2013, 23/2013, 10/2014, 150/2014, 64/2016, 107/2017 and 1/2018).

The item Other includes a part of the collected data covered by the statistical survey for which information on the activity of the reporting unit and/or country of a partner is not available as well as part of the data related to the estimate of that part of the population that is not covered by the statistical survey. This refers to debt transactions included in direct investments which due to the ownership relationships between a borrower and creditor are involved in direct investments, and which are partly included in external debt statistics within which stocks and transactions are separately estimated for that part of the population that is not covered by the survey. Information on the activity of the reporting unit and/or the country of a partner is not available.

The investment is recorded in the county where the resident company is headquartered.

Source of data

The Croatian National Bank started the survey on foreign direct investments in 1997, when companies included in the survey also submitted data on direct investments for the period from 1993 to 1996.

There is no information, however, on reinvested earnings and other direct investment capital that encompass debt relations between related residents and non-residents, and which became available only after the mentioned survey was first conducted in 1997.

Since 1999, data on debt relations within direct investments have been collected on the basis of the records of external debt relations within the external debt statistics.

As transactions related to the purchase and sale of real estate are also a part of direct investments, data on these have been collected since 2007.

All tables are in line with the methodology prescribed in the sixth edition of the Balance of Payments and International Investment Position Manual, BPM6. Direct investments are classified according to the assets/liabilities principle.

The assets/liabilities principle includes the following:

1. Direct investments in direct investment enterprises ("regular" direct investments).
2. Investments in direct investor (reverse investment). This arises when a direct investment enterprise acquires up to 10% equity in its investor, or it offers its investor some type of loan (credit, debt instrument).
3. Investment between horizontally linked enterprises. This type of direct investment includes equity investments between enterprises which are linked by indirect ownership, also up to 10%, provided that the investor belongs to the same enterprise group as the reporting unit. In this sense, the enterprise group includes legal entities directly or indirectly managed by a single legal entity or natural person.

25.1 Foreign direct investments in the City of Zagreb (liabilities), 1997 – 2017

mil. euros

Year	Direct investments
1997	311.28
1998	684.39
1999	1 186.27
2000	696.09
2001	833.41
2002	649.48
2003	1 286.44
2004	663.90
2005	685.77
2006	1 968.21
2007	2 270.67
2008	2 556.58
2009	1 938.85
2010	428.74
2011	462.23
2012	868.22
2013	276.00
2014	1 536.06
2015	-581.42
2016	1 225.12
2017	1 169.34

Source: CNB

25.2 Foreign direct investments in the City of Zagreb (liabilities), according to NCA, 2013 – 2017 and 2008 – 2017

mil. euros

NCA	Activity	2013 – 2017	2008 – 2017
Total		3 625.1	9 879.7
01	Crop and animal production, hunting and related service activities	6.8	23.2
02	Forestry and logging	13.1	91.4
06	Extraction of crude petroleum and natural gas	-74.2	-308.9
08	Other mining and quarrying	1.0	1.4
10	Manufacture of food products	67.0	150.1
11	Manufacture of beverages	51.9	-181.1
16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	11.5	12.2
17	Manufacture of paper and paper products	11.7	4.2
19	Manufacture of coke and refined petroleum products	-263.4	859.3
20	Manufacture of chemicals and chemical products	10.7	17.8
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	-259.4	-671.2

25.2 Foreign direct investments in the City of Zagreb (liabilities), according to NCA, 2013 – 2017 and 2008 – 2017

(Continued)

mil. euros

NCA	Activity	2013 – 2017	2008 – 2017
22	Manufacture of rubber and plastic products	0.1	2.1
23	Manufacture of other non-metallic mineral products	5.0	5.7
24	Manufacture of basic metals	1.6	4.6
25	Manufacture of fabricated metal products, except machinery and equipment	0.8	5.6
26	Manufacture of computer, electronic and optical products	-33.9	-73.4
27	Manufacture of electrical equipment	0.6	16.3
28	Manufacture of machinery and equipment n .e. c.	8.7	8.6
29	Manufacture of motor vehicles, trailers and semi-trailers	6.5	6.4
30	Manufacture of other transport equipment	-	-2.2
31	Manufacture of furniture	3.3	3.2
33	Repair and installation of machinery and equipment	20.0	42.5
35	Electricity, gas, steam and air conditioning supply	62.2	72.5
36	Water collection, treatment and supply	54.7	139.0
38	Waste collection, treatment and disposal activities; materials recovery	-16.3	13.8
41	Construction of buildings	261.7	322.4
42	Civil engineering	-33.8	-164.0
45	Wholesale and retail trade and repair of motor vehicles and motorcycles	30.7	29.0
46	Wholesale trade, except of motor vehicles and motorcycles	166.7	1 805.0
47	Retail trade, except of motor vehicles and motorcycles	377.4	718.7
49	Land transport and transport via pipelines	0.3	-1.0
50	Water transport	24.7	1.7
52	Warehousing and support activities for transportation	-	23.8
55	Accommodation	9.5	158.5
56	Food and beverage service activities	2.3	-12.9
58	Publishing activities	27.6	36.3
59	Motion picture, video and television programme production, sound recording and music publishing activities	38.8	48.8
60	Programming and broadcasting activities	12.8	36.0
61	Telecommunications	271.5	505.5
62	Computer programming, consultancy and related activities	46.3	61.0
63	Information service activities	55.3	79.4
64	Financial service activities, except insurance and pension funding	2 061.4	3 903.3
65	Insurance, reinsurance and pension funding, except compulsory social security	89.1	265.5
66	Activities auxiliary to financial services and insurance activities	322.2	316.0
68	Real estate activities	449.2	967.6
70	Activities of head offices; management consultancy activities	-391.5	225.1
71	Architectural and engineering activities; technical testing and analysis	1.7	9.2

25.2 Foreign direct investments in the City of Zagreb (liabilities), according to NCA, 2013 – 2017 and 2008 – 2017

(Continued)

mil. euros

NCA	Activity	2013 – 2017	2008 – 2017
72	Scientific research and development	-6.0	-23.3
73	Advertising and market research	8.4	35.2
77	Rental and leasing activities	23.3	48.8
81	Services to buildings and landscape activities	5.1	5.4
93	Sports activities and amusement and recreation activities	20.8	100.7
	Equity investment in real estate	30.5	37.8
	Other ¹⁾	29.0	97.1

¹⁾ See Notes on Methodology.

Source: CNB

25.3 Foreign direct investments in the City of Zagreb (liabilities) by country, 2013 – 2017 and 2008 – 2017

mil. euros

Country	2013 – 2017	2008 – 2017
Total	3 625.1	9 879.7
Australia	22.5	21.4
Austria	-2 439.8	-553.3
Belgium	36.5	241.8
Bosnia and Herzegovina	32.2	48.0
British Virgin Islands	5.8	14.3
Canada	-4.0	-5.7
Cayman Islands	-	0.5
Cyprus	-226.9	-187.3
Czech Republic	-16.3	215.9
Denmark	20.1	29.6
France	43.2	-90.3
Germany	-516.3	-324.6
Hungary	-313.7	815.6
Ireland	40.5	52.8
Italy	2 054.5	2 085.5
Jersey	0.4	0.4
Liechtenstein	9.1	4.9
Luxembourg	870.0	1 261.5
Malta	41.6	94.2
Netherlands	3 316.7	3 702.2
Netherlands Antilles	-	865.4
Norway	56.4	160.9
Poland	33.7	29.0
Russian Federation	119.5	160.6

25.3 Foreign direct investments in the City of Zagreb (liabilities) by country, 2013 – 2017 and 2008 – 2017

(Continued)

mil. euros

Country	2013 – 2017	2008 – 2017
Serbia	-10.3	16.4
Slovakia	30.3	32.3
Slovenia	86.3	225.8
Spain	43.4	45.0
Sweden	26.3	329.3
Switzerland	301.1	378.6
Turkey	46.6	184.5
United Kingdom	151.9	107.1
United States of America	34.3	58.0
International financial institutions	-390.2	-285.6
Other ¹⁾	119.7	144.9

¹⁾ See Notes on Methodology.

Source: CNB

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- City Office for Financing
- City Office for Physical Planning, Construction of the City, Utility Services and Transport
- City Office for Social Welfare and Persons with Disabilities
- City Office for Sports and Youth
- City Office for the Local Self-Administration
- City of Zagreb, ZG Cycle Unit
- Croatian Agency for Environment and Nature
- Croatian Agricultural Agency
- Croatian Bureau of Statistics
- Croatian Employment Service – Regional Office Zagreb
- Croatian Forest Management Company (Hrvatske šume d. o. o.), Forest Administration, Office Branch in Zagreb
- Croatian Institute for Health Insurance – Directorate of Zagreb
- Croatian Institute for Pension Insurance
- Croatian Institute of Public Health
- Croatian National Bank
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- Croatian Radio and Television (Hrvatska radiotelevizija)
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- HEP – District Heating d. o. o. (HEP – Toplinarstvo d. o. o.)
- HEP Generation d. o. o. (HEP – Proizvodnja d. o. o.)
- Institute for Medical Research and Occupational Health
- Lado – National Folk Dance Ensemble of Croatia
- Meteorological and Hydrological Service
- Ministry of Agriculture
- Ministry of Environmental Protection and Energy
- Ministry of the Interior of the Republic of Croatia
- Ministry of Justice of the Republic of Croatia
- Official Gazette of the City of Zagreb
- Office of international relations and human rights
- Profesional service of the Mayor
- Public Fire Department of the City of Zagreb
- Sports Association of the City of Zagreb
- Sports Facilities Management Institution
- Teaching Institute of Emergency Medicine of the City of Zagreb
- Zagreb bus station
- Zagreb Electric Tram d. o. o.
- Zagreb Fair d. o. o.
- Zagreb Holding – Corporate Development Directorate (Služba za korporativni razvoj)
- 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 Zrinjevac
- Zagreb Holding – subsidiary Water Supply and Drainage (Vodoopskrba i odvodnja)
- Zagreb Wastewater d. o. o. (Zagrebačke otpadne vode d. o. o.)
- Zoo of the City of Zagreb

