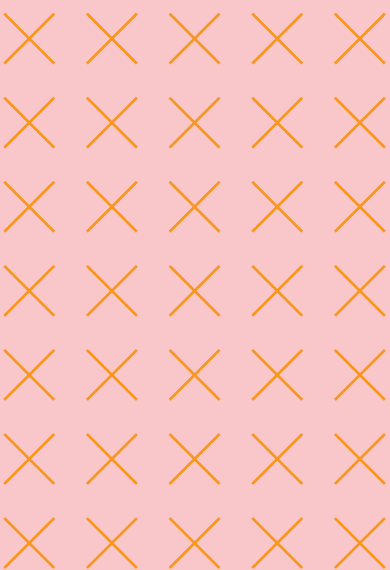
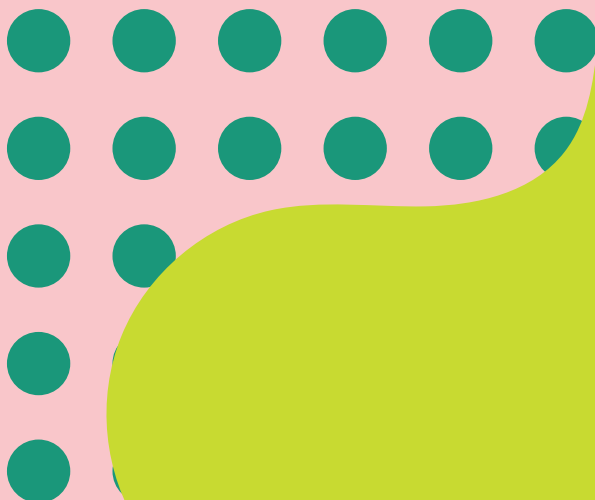


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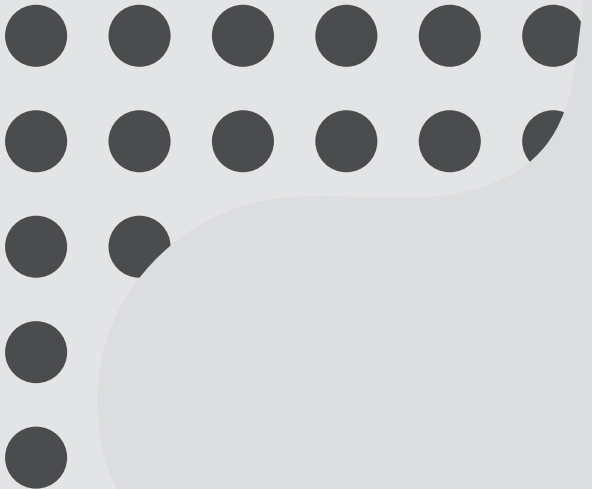
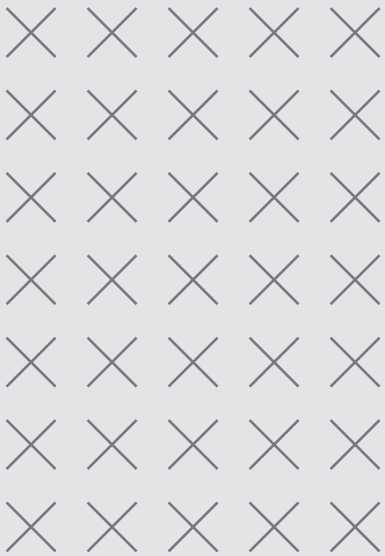
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**STATISTICAL YEARBOOK
OF THE CITY OF ZAGREB
2019**

INTRODUCTION

Dear users,

American inventor Charles Kettering said: "If you're doing something the same way you have been doing it for ten years, the chances are you are doing it wrong." You are holding the 68th edition of the Statistical Yearbook of the City of Zagreb, which is a testimony to the development of statistics as a scientific discipline and analytical method. Simple forms of statistics can already be found in ancient Babylonian, Chinese and Egyptian civilisations and in the Roman Empire, where it covered records of agricultural yields, population and tangible assets.

Fast societal development, increasing competition and rapid unforeseeable changes have had an impact on the development of statistics, which found wide application in scientific and empirical disciplines. Moreover, statistical data is used for comparing various aspects of societal and economic development of the City of Zagreb with other European cities.

This Yearbook presents the most recent socio-economic movements in the City of Zagreb, and the published data are the result of extensive statistical surveys based on international standards and work of various institutions which, within their scope of activity, statistically process relevant data.

The year 2019 is especially important for statistics of the City of Zagreb as it marked 90 years of our work. As far back as 1929, at the end of the decade in which the city witnessed the highest relative population growth in its history, the first city body responsible for the collection, processing and dissemination of statistical data on the city of Zagreb was established. Today, with modernisation, the City of Zagreb statistics processes and disseminates various reliable and comparable data. It should be pointed out that close cooperation with the Statistical Office of the European Union (Eurostat) has been established within the Working Group for the Development of Regional, Urban and Rural Statistics, and that next year we will take part in extensive statistical survey which takes place once every several years – Agricultural Census 2020.

Taking into account the needs of users, we have continued to improve statistical processes and have created and published the application "Statistical Atlas of City of Zagreb Districts", which enables users to search for statistical data at the level of the City of Zagreb and of City districts via interactive maps and graphs. In order to promote the importance of statistics and its long tradition, we prepared the exhibition "Zagreb – did you know?" at ZgForum where we presented data on the City of Zagreb in an interesting way.

If we consult the reference 2018 statistics, we will find a number of positive economic trends in the City of Zagreb.

The growth of the gross domestic product continued (2016 data). Zagreb GDP made up more than one third of the total GDP of the Republic of Croatia. In the City of Zagreb, the number of active enterprises also grew (+3.8%), as well as the number of sole proprietors (+5.2%), while at the level of Croatia, the number of active enterprises saw a fall (-0.3%), while the number of sole proprietors slightly rose (+2.2%). A good indicator of the recovery of city economy is the number of finished flats, which grew as much as 64% in comparison to 2017 and reached the highest value since 2011, while at the level of Croatia, the number of finished flats rose by 19%. In 2018, Franjo Tuđman International Airport registered the highest number of passengers in its history (3.3 million). The number of tourist overnight stays in the City of Zagreb continued to grow at a two-digit level (+11%), while at the level of Croatia the number of overnight stays grew by 4%.

Positive economic trends have had an impact on citizens' lives. The number of employed persons reached almost 430 thousand, exceeding the number registered in the record year 2009. The average net salary paid out per employee grew by 4% to 7 243 kuna, which is around one thousand kuna above the national average. City budget revenue also grew (+10%), while the highest share of budget funds was spent on education (20%). Especially important is the positive demographic indicator according to which in 2018 there were 8 235 live births in Zagreb, i.e. 2% more than in 2017, and it has been estimated that the total number of inhabitants rose by 1 745.

In comparison to previous editions, this Yearbook contains new tables and graphs in the chapters Population, Social Welfare, Budget of the City of Zagreb, Tourism, Education, Culture and arts, Foreign Direct Investments and Geographical and Meteorological Data. The Yearbook has seen a graphic makeover, new cover design and new photographs, and users can access it in the print form and at the City of Zagreb website (<https://www.zagreb.hr/statisticki-ljetopis-grada-zagreba/1044>).

I would like to express my gratitude to everyone who participated in the preparation of the Yearbook, as well as to you, dear users, and I hope that this year's edition will give you an interesting insight in the development and growth of the City of Zagreb enabling you to use statistical indicators in your daily life.

Sanja Jerković, M. Arch.

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

CONTENTS

ACRONYMS AND ABBREVIATIONS	18
00 Zagreb identities.....	21
Archbishops of Zagreb	23
Mayors of Zagreb	24
City Assembly of the City of Zagreb	26
City Assembly members	29
Basic Information about the City of Zagreb	30
Honorary citizens of the City of Zagreb	33
City of Zagreb Award	34
Cities with which partnership agreements have been signed	34
Organizational structure of the City of Zagreb	35
Settlements of the City of Zagreb – 2011 Census	36
Settlements of the City of Zagreb – Map	38
City districts of the City of Zagreb – 2011 Census	40
City districts of the City of Zagreb – Map	41
01 Geographical and meteorological data	45
NOTES ON METHODOLOGY	46
1.1 Geographical location and height of the city above sea level.....	48
1.2 Surface area, population and settlements	48
1.3 City roads, important traffic routes – selection by length.....	48
1.4 Air temperature and total precipitation in the period between 1862 and 2018 as measured by the Meteorological Observatory Zagreb – Grič.....	49
G 1.1 Average monthly air temperatures in 2018, and 2008 – 2017	50
1.5 Monthly and annual meteorological data in the last five years as measured by the Meteorological Observatory Zagreb – Grič.....	50
G 1.2 Average precipitation change in 2018, and 1961 – 1990.....	53
1.6 Number of days with particular meteorological features in the last five years as measured by the Meteorological Observatory Zagreb – Grič.....	54
1.7 Frequency of acid rains on weather stations in 2018	55
1.8 Monthly and annual Sava water level, Hydrological Station Zagreb	55
1.9 Monthly and annual Sava discharge, Hydrological Station Zagreb.....	56
G 1.3 Average annual Sava water level.....	57
1.10 Earthquakes with epicentres near Zagreb that occurred between 1900 and 2018.....	57
1.11 Fifteen strongest earthquakes with epicentres near Zagreb	58
1.12 Standing water.....	58
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 2018).....	58
02 Population	61
NOTES ON METHODOLOGY	62
2.1 Population of the City of Zagreb from the earliest times	65
2.2 Population and households according to Censuses.....	65

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.....	65
G 2.2 Population of the City of Zagreb by sex and age, 2011 Census.....	66
2.3 Population of the City of Zagreb and Zagreb Settlement according to the Censuses carried out between 1857 and 2011.....	66
G 2.3 Private households by household structure, 2011 Census.....	67
G 2.4 Family households by number of members, 2011 Census	67
G 2.5 Age structure of citizens of the City of Zagreb according to 2001 and 2011 Censuses.....	67
G 2.6 Average age of citizens of the City of Zagreb according to 2001 and 2011 Censuses.....	68
2.4 Population subgroups, 2011 Census	68
G 2.7 Average age of population in city districts – rank, 2011 Census.....	69
2.5 Population aged 15 and over by level of education and sex, 2011 Census.....	69
2.6 Population aged 15 and over by legal marital status and sex, 2011 Census.....	70
2.7 Population aged 15 and over by type of union that persons live in and their sex, 2011 Census.....	70
2.8 Female population aged 15 and over by number of live births, 2011 Census	70
2.9 Population by citizenship, 2011 Census	70
2.10 Population by nationality, 2011 Census.....	71
2.11 Population by religion, 2011 Census	72
G 2.8 Population aged 15 and over by activity and sex, 2011 Census	72
2.12 Population by main sources of livelihood and sex, 2011 Census	72
G 2.9 Population with difficulties in performing daily activities by age, 2011 Census	73
2.13 Private households by household structure, 2011 Census	73
2.14 Family households by number of members, 2011 Census.....	73
2.15 Families by structure and number of members, 2011 Census.....	74
G 2.10 Family and single-person households according to the 2001 and 2011 Censuses	74
2.16 Families with children by family structure and number of children by age, 2011 Census	74
2.17 Population by sex, household structure, and family status, 2011 Census.....	75
2.18 Institutional households by number of members, 2011 Census.....	75
2.19 Households by use and ownership of dwellings, 2011 Census.....	75
2.20 Private households by ownership of personal computers and Internet use, 2011 Census.....	76
Vital statistics	76
2.21 Population by sex, mid-year estimate.....	76
2.22 Population by sex and age, mid-year estimate	76
G 2.11 Population by sex and age, mid-2018 estimate	77
2.23 Natural change in population.....	77
K 2.1 Number of live births in 2018 by city districts.....	78
K 2.2 Number of deaths in 2018 by city districts.....	78
2.24 Rate of natural change in population	80
G 2.12 Natural change in population.....	80
2.25 Live births and stillbirths by sex, material status of parents, place of birth, and professional assistance.....	80
K 2.3 Vital indices in 2018 by city districts.....	81
2.26 Live births and stillbirths by age of mother and birth order.....	81
2.27 Deaths by sex and age.....	82
G 2.13 Deaths by sex.....	83
2.28 Deaths by sex, place of death, treatment of the disease that caused death, and reports on the cause of death	83
2.29 Deaths by cause of death.....	84
G 2.14 Deaths by groups of causes of death, 2018	84

2.30 Violent deaths.....	85
2.31 Violent deaths by age of the deceased and month of death.....	85
2.32 Suicides by age of the deceased	86
2.33 Deaths in traffic accidents by age	86
2.34 Concluded marriages by age of brides and grooms.....	87
2.35 Concluded marriages by number of previous marriages and previous marital status.....	87
2.36 Concluded marriages by professional qualifications of brides and grooms	88
G 2.15 Concluded marriages and divorces.....	88
2.37 Divorces	89
Migration of population	90
2.38 Immigrants and emigrants.....	90
G 2.16 Immigrants and emigrants.....	90
G 2.17 Natural increase and net migration of population, 2009 – 2018.....	91
2.39 Immigrants from foreign countries to the City of Zagreb according to country, age and sex, 2018.....	91
G 2.18 Immigrants from foreign countries to the City of Zagreb according to country, 2018.....	92
2.40 Emigrants from the City of Zagreb to foreign countries according to country, age and sex, 2018.....	93
G 2.19 Emigrants from the City of Zagreb to foreign countries according to country, 2018.....	94

03 Health care 97

NOTES ON METHODOLOGY.....	98
3.1 Health care beneficiaries	100
3.2 Duration of leave of absence – incapacity for work.....	100
3.3 Health institutions	101
3.4 Health workers and associates	101
3.5 Health workers and associates by professional qualifications, profession and sex	102
3.6 Doctors by type of specialty.....	103
3.7 General medicine services – primary health care.....	105
3.8 Primary health care for infants and preschool children and women's health protection.....	105
3.9 Counselling centres for family planning – primary health care	106
3.10 Services for protection and treatment of mouth and teeth – primary health care.....	106
3.11 Emergency medical services.....	106
3.12 Average number of provided services per day in 2018	106
3.13 Polyclinic for Rheumatic Diseases, Physical Medicine and Rehabilitation "Dr. Drago Čop".....	107
3.14 Consultations and medical services provided by specialists.....	107
3.15 Persons suffering from infectious diseases.....	108
3.16 Hospital services.....	109
3.17 Indicators of hospital services in 2018.....	109
3.18 Number of beds and inpatient days in clinical hospital centres, clinical hospitals, clinics, general hospitals, and special hospitals by individual departments	110
3.19. Hospital services in 2018	111
3.20 Hospitalisation of patients by disease groups.....	112
G 3.1 Hospitalisation of patients by most frequent disease	113
3.21 Hospitalisation of patients due to neoplasms	113
G 3.2 Hospitalisation of patients over the age of 65 due to neoplasms by age and sex of patients in 2018.....	114
3.22 Hospitalisation of patients due to circulatory system diseases.....	114

3.23 Hospitalisation of patients due to mental and behavioural disorders	114
3.24 Hospitalisation of patients due to diseases of the digestive system	115
3.25 Main causes of hospitalisation of patients over the age of 65 by diagnoses in 2018	115
G 3.3 Hospitalisation frequency ranking by disease groups in 2018	116

04 Social welfare 119

NOTES ON METHODOLOGY	120
4.1 Social benefits and services of the City of Zagreb	122
4.2 Protection of persons with disabilities	122
4.3 Centers of gerontology of the City of Zagreb	123
4.4 Beneficiaries of homes for the elderly	123
4.5 Governmental benefits for children	123
4.6 Baby bonuses	124
4.7 Social protection expenditures according to ESSPROS methodology	124

05 Pension insurance 127

NOTES ON METHODOLOGY	128
5.1 Insurance beneficiaries by insurance basis and sex	129
G 5.1 Insurance beneficiaries by sex	129
G 5.2 Pension beneficiaries by type of pension	129
G 5.3 Average pension by type of pension	130
G 5.4 Pension beneficiaries by sex	130
5.2 Pension beneficiaries according to the Pension Insurance Act and by sex	131
G 5.5 Pension beneficiaries by insurance eligibility criteria	131
G 5.6 Average monthly pension by insurance eligibility criteria	132
5.3 Pension beneficiaries according to the Pension Insurance Act, insurance eligibility criteria, and sex	132

06 Employment 135

NOTES ON METHODOLOGY	136
6.1 Employed persons	138
G 6.1 Employed persons	138
G 6.2 Employed persons by level of professional qualifications and sex	138
6.2 Employed persons by National Classification of Activities (NCA) 2007 sections and sex	139
6.3 Persons employed in legal entities by NCA 2007 sections and sex	140
6.4 Persons employed in crafts and freelance activities by NCA 2007 sections and sex	141
6.5 Persons employed in legal entities by form of ownership	142
G 6.3 Share of persons employed in legal entities by form of ownership	142
6.6 Persons employed in legal entities by form of ownership and NCA 2007 sections	143
G 6.4 Structure of persons employed in legal entities by form of ownership	143
6.7 Persons employed in legal entities by level of professional qualifications and sex	144
6.8 Persons employed in legal entities by level of professional qualifications and NCA 2007 sections	145
6.9 Women employed in legal entities by level of professional qualifications and NCA 2007 sections	147
6.10 Persons employed in legal entities by age and sex	148
6.11 Persons employed in legal entities by age and NCA 2007 sections	150
6.12 Women employed in legal entities by age and NCA 2007 sections	151

6.13 Persons employed in legal entities by type of employment and sex	152
6.14 Persons employed in legal entities by type of employment, sex, and NCA 2007 sections	153
6.15 Unemployed persons by level of education and sex.....	154
6.16 Unemployed persons by length of service.....	154
6.17 Unemployed persons by duration of unemployment.....	155
6.18 Unemployed persons by age	155
07 Earnings	157
NOTES ON METHODOLOGY	158
7.1 Average monthly net earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections	159
G 7.1 Average monthly net earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections for 2017 and 2018.....	160
7.2 Average monthly gross earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections	160
G 7.2 Average monthly gross earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections for 2017 and 2018.....	161
7.3 Average monthly net and gross earnings per person employed in legal entities by sex and level of professional qualifications.....	161
7.4 Average monthly net earnings per person employed in legal entities by sex and level of professional qualifications for 2017 by NCA 2007 sections.....	162
7.5 Average monthly gross earnings per person employed in legal entities by sex and level of professional qualifications for 2017 by NCA 2007 sections.....	163
08 Prices	167
NOTES ON METHODOLOGY	168
8.1 Chain indices of retail prices by product groups.....	170
G 8.1 Changes in chain indices of retail prices and cost of living from 2009 to 2018	170
G 8.2 Changes in chain indices of retail prices and cost of living from 2010 to 2018	171
8.2 Chain indices of cost of living by type of living expenses	171
8.3 Average annual price increase rates.....	172
8.4 Indices of retail prices	172
8.5 Indices of cost of living	172
09 Investments.....	175
NOTES ON METHODOLOGY	176
9.1 Gross investment in fixed assets	178
G 9.1 Gross investment in fixed assets	178
9.2 Sources of financing/acquisition of investment in fixed assets	178
G 9.2 Sources of financing/acquisition of investment in fixed assets in 2018.....	179
9.3. Gross investment in fixed assets by types of assets, by the location and investment activity	180
9.4 Gross investment in new fixed assets by investment activity from Croatia and purpose activity by NCA 2007 in 2018	181
10 Budget of the City of Zagreb	185
NOTES ON METHODOLOGY	186
10.1 Administrative bodies of the City of Zagreb	188
10.2 Branch offices of the City Administration	188

10.3 City districts of Zagreb.....	189
10.4 Employees in administrative bodies of the City of Zagreb by age groups	190
10.5 Employees in administrative bodies of the City of Zagreb by professional attainment and sex.....	190
G 10.1 Employees in administrative bodies of the City of Zagreb professional attainment from 2014 to 2018	190
10.6 Employees in administrative bodies of the City of Zagreb by name of administrative body	191
10.7 Employees in administrative bodies of the City of Zagreb by professional attainment.....	192
10.8 Employees in administrative bodies of the City of Zagreb by sex.....	193
10.9 City of Zagreb Budget revenues.....	194
G 10.2 Structure of City budget revenue in 2018.....	195
10.10 City of Zagreb Budget expenditures.....	196
10.11 City of Zagreb financing account	196
10.12 Administrative bodies of the City of Zagreb Budget expenditures	197
10.13 City of Zagreb Budget expenditures by purpose	198
G 10.3 City of Zagreb Budget expenditures by purpose, per inhabitant, 2016–2018.....	198
10.14 Companies, organization forms and activities of the Zagreb Holding Group	199
10.15 Employees in the Zagreb Holding Group	199
10.16 Employees of the Zagreb Holding Group, by age groups	200
G 10.4 Employees of the Zagreb Holding Group, by age groups, 2016 – 2018	200
10.17 Profit and loss account of the Zagreb Holding Group.....	201

11 Agriculture and forestry 203

NOTES ON METHODOLOGY	204
11.1 Agricultural areas in the Land Parcel Identification System (LPIS) by type of use	206
11.2 Number of domestic animals.....	206
11.3 Allotment gardens.....	207
K 11.1 Allotment gardens.....	207
11.4 Ecological agriculture.....	208
11.5 Area of forest land	208
11.6 Forests by purpose.....	210
11.7 Gross volume of harvested timber	210
11.8 Production of forest products by ownership.....	211

12 Industry 213

NOTES ON METHODOLOGY	214
12.1 Value of sold industrial products and export (PRODCOM) by production NCA 2007 activities, divisions, and sections	216

13 Construction..... 219

NOTES ON METHODOLOGY	220
13.1 Dwellings by type of use and other occupied premises – 2011 Census.....	224
13.2 Occupied dwellings by number of rooms and ownership – 2011 Census.....	224
13.3 Occupied dwellings by number of ancillary rooms and available installations – 2011 Census	224
13.4 Housing units by number of households and household members – 2011 Census.....	225
13.5 Construction of business entities (legal entities)	225

G 13.1 Composition of values of construction work by type of structure in 2018.....	226
13.6 Issued construction permits by type of structure	226
G 13.2 Issued construction permits by type of structure.....	226
13.7 Issued construction permits for buildings by purpose, size and type of construction	227
G 13.3 Completed buildings by type of building and type of construction work.....	227
13.8 Completed buildings and apartments by number of rooms	228
G 13.4 Completed apartments by number of rooms.....	228
13.9 Completed buildings and apartments by type of building and type of construction work.....	229
13.10 Number and size of structures by type of completed buildings and type of construction work.....	230
13.11 Completed apartments by type of building, type of construction, and number of rooms.....	232
13.12 Average prices of sold new apartments.....	234
G 13.5 Average prices of sold new apartments in HRK by m ²	234
G 13.6. Structure of average prices of sold new dwellings in 2018	235

14 Transport and communications 237

NOTES ON METHODOLOGY	238
14.1 Motor vehicles and city transport	240
G 14.1 Number of passengers transported in city transport from 1960 to 2018	240
14.2 Registered vehicles, status as of 31 December	241
14.3 Road transport of goods	241
14.4 Bicycle parking.....	242
14.5 Length of cycle lanes.....	242
14.6 Tram transport.....	242
14.7 City bus transport.....	242
14.8 Transport by the funicular	243
14.9 Rail transport	243
14.10 Passengers on halts in the City of Zagreb.....	243
14.11 Services of the Zagreb Bus Station.....	244
14.12 Traffic at the airport of Zagreb.....	244
G 14.2 Passengers transported by air traffic from 1960 to 2018.....	245
14.13 Domestic and international traffic at the Airport of Zagreb	245
14.14 Air traffic at the Airport of Zagreb by airline	246
14.15 Traffic assets of the Airport of Zagreb.....	246
14.16 Traffic accidents and persons injured in traffic accidents.....	247
14.17 Electronic communication services.....	247
14.18 Postal offices and capacity.....	247
14.19 Mail	247

15 Distributive trade and other services..... 249

NOTES ON METHODOLOGY	250
15.1 Nominal indices of service activities turnover by main activities of business entities	252
G 15.1 Nominal indices of service activities turnover from 2016 to 2018.....	252
15.2 Nominal indices of retail trade turnover by main activities of business entities.....	253
15.3 Structure of retail trade turnover by type of trade.....	255
G 15.2 Structure of retail trade by type of trade in 2016, 2017 and 2018.....	256
15.4 Fairs and exhibitions at the Zagreb Fair	257

16 Foreign trade in goods	259
NOTES ON METHODOLOGY	260
16.1 Export and import of the City of Zagreb and the Republic of Croatia	262
G 16.1 Share of the export of the City of Zagreb in total export of the Republic of Croatia in 2018.....	262
G 16.2 Share of the import of the City of Zagreb in total import of the Republic of Croatia in 2018.....	262
16.2 Total export and import of the City of Zagreb in EUR	263
16.3 Export according to NCA 2007.....	263
16.4 Import according to NCA 2007	264
16.5 Export of the City of Zagreb by SITC sectors	264
16.6 Import of the City of Zagreb by SITC sectors.....	266
G 16.3 Export and import by SITC sectors in 2018	268
16.7 Export and import by economic classification of countries.....	268
G 16.4 Export and import by economic classification of countries in 2018.....	269
16.8 Export and import of the City of Zagreb into partner countries	269
16.9 Most important export partners	274
16.10 Most important import partners.....	275
17 Tourism	277
NOTES ON METHODOLOGY	278
17.1 Tourist accommodation capacities by type of accommodation.....	280
G 17.1 Tourist arrivals	280
17.2. Hotels and similar accomodation for persons with reduced mobility and persons with disabilities	280
G 17.2 Number of realised tourist overnight stays.....	281
17.3 Tourist arrivals and overnight stays by type of tourist accommodation facilities	281
G 17.3 Overnight stays of foreign tourists by type of tourist accommodation facilities	282
17.4 Tourist arrivals and overnight stays by country of residence.....	282
G 17.4 Foreign tourist nights by continental of residence in 2018.....	284
17.5 Means of tourist arrivals.....	284
17.6 Foreign tourist overnight stays by age groups.....	284
G 17.5 Tourist overnight stays by age groups in 2017 and 2018.....	285
18 Utility services	287
NOTES ON METHODOLOGY	288
18.1 Public water supply and sewerage network and district heating by settlements.....	290
18.2 Public water supply.....	291
18.3 Public sewerage	291
18.4 Electricity	292
18.5 Thermal energy distribution to the city	292
18.6 Distribution of gas and number of consumers	292
18.7 Gas consumption.....	293
18.8 Parks, other greenspace, gardens and public playgrounds.....	293
18.9 Parks in the city area	294
18.10 Markets.....	294
18.11 Swimming pools.....	294
18.12 Number of fires by types of objects and persons injured in fires.....	295
18.13 Firefighting interventions by firefighting departments of the City of Zagreb.....	295

18.14 Participation of firefighters by type of intervention.....	295
18.15 Cemeteries.....	296
18.16 Cemeteries: Mirogoj, Miroševac, Markovo polje and Gaj urni Crematory.....	296
18.17 Number of parking spaces in public garages.....	296
18.18 Number of parking places by parking zones.....	297
18.19 Public spaces for dogs.....	297

19 Protection of nature and environment..... 299

NOTES ON METHODOLOGY.....	300
19.1 Protected natural areas of the City of Zagreb.....	302
19.2 Concentration of sulphur dioxide, carbon monoxide, and benzene in the air as measured by the Ksaverska Road station in 2018 – summary results.....	303
19.3 Concentration of nitrogen dioxide in the air in 2018 – summary results.....	303
19.4 Concentration of ozone in the air in 2018 – summary results.....	303
19.5 Concentration of PM ₁₀ fraction of floating particles in the air in 2018 – summary results.....	304
19.6 Concentration of lead in PM ₁₀ fraction of floating particles in the air in 2018 – summary results.....	304
19.7 Concentration of cadmium in PM ₁₀ fraction of floating particles in the air in 2018 – summary results.....	304
19.8 Concentration of arsenic in PM ₁₀ fraction of floating particles in the air in 2018 – summary results.....	304
19.9 Concentration of nickel in PM ₁₀ fraction of floating particles in the air in 2018 – summary results.....	305
19.10 Concentration of benzo(a)pyrene in PM ₁₀ fraction of floating particles in the air in 2018 – summary results.....	305
19.11 Concentration of PM _{2.5} fraction of floating particles in the air in 2018 – summary results.....	305
19.12 Quantity of total suspended particulate matter in 2018 – summary results.....	305
19.13 Quantity of lead in the total suspended particulate matter in 2018 – summary results.....	306
19.14 Quantity of cadmium in the total suspended particulate matter in 2018 – summary results.....	306
19.15 Quantity of thallium in the total suspended particulate matter in 2018 – summary results.....	306
19.16 Quantity of nickel in the total suspended particulate matter in 2018 – summary results.....	306
19.17 Quantity of arsenic in the total suspended particulate matter in 2018 – summary results.....	307
19.18 Categorisation of areas near measuring stations in Zagreb in 2018.....	307
19.19 Summary of noise level ratings by measuring points rated by noise strength over 24h.....	308
19.20 Industrial water supply.....	309
19.21 Water use in industry.....	309
19.22 Discharged and treated industrial waters.....	309
19.23 Sewage.....	310
19.24 Registered hazardous industrial waste by NCA 2007 sections.....	310
19.25 Registered non-hazardous industrial waste by NCA 2007 sections.....	311
19.26 Municipal waste.....	311
19.27 Waste disposed on landfills and recovered waste.....	312

20 Education 315

NOTES ON METHODOLOGY.....	316
20.1 Kindergartens and other legal entities that implement pre-school education programmes, children by age groups and employees.....	318
20.2 Day-care centres and other legal entities carrying out pre-school education programmes, beginning of 2018/2019 school year.....	318

K 20.1 Number of primary schools by city districts, end of school year 2017/2018	319
20.3 Children by the type of pre-school education programme and sex, beginning of 2018/2019 school year	319
K 20.2 Number of secondary school students by city districts, end of school year 2017/2018	320
20.4 Day-care centres and other legal entities shortened programmes, beginning of 2018/2019 school year	320
20.5 Children by day-care education duration in hours and by sex, beginning of 2018/2019 pedagogic year	321
20.6 Primary education – regular schools	321
20.7 Secondary education – regular schools	321
20.8 Students who acquired academic degrees	322
20.9 Student dormitories	322
G 20.1 Number of pupils' and students' dormitories by city districts, in 2018/2019 school/academic year	322
20.10 Primary education	322
G 20.2 Primary education by sex, end of school year	323
20.11 Secondary education	324
G 20.3 Secondary education by sex, end of school year	325
20.12 Students who completed education by type of school	326
20.13 Students who completed grammar school	326
20.14 Students who completed technical and related secondary schools	327
20.15 Students who completed industrial and craft secondary schools	327
G 20.4 Students who completed regular secondary school by type of school in 2016/2017	328
G 20.5 Students who completed regular secondary school by type of school in 2017/2018	328
20.16 Students enrolled in primary and secondary schools and higher education institutions by level of education	329
20.17 Students enrolled in higher education institutions by name of institutions and sex	329
G 20.6 Students enrolled in higher education institutions by sex	332
20.18 Students enrolled in higher education institutions by years of study in 2018/2019	332
G 20.7 Students enrolled in the academic year 2018/2019 by type of higher education	334
20.19 Graduates by name of higher education institution and sex	335
G 20.8 Graduates by sex	337
20.20 Teachers and associates in higher education institutions by title in 2018/2019	338
G 20.9 Teachers and associates by academic degree and rank in the academic year 2018/2019	340
20.21 Masters of Science, Masters and University Specialists at higher education institutions	341
G 20.10 Masters of Science, Masters and University Specialists by scientific field of the thesis for acquiring the Master/Specialist degree in 2018	341
20.22 Doctors of Science at higher education institutions	342
G 20.11 Doctors of Science by the area of science and arts of their doctoral dissertations in 2018	343

21 Culture and arts 345

NOTES ON METHODOLOGY	346
21.1 History of theatre	348
21.2 Theatres and cinematographs, movie theatres, radio and TV-subscribers from 1970 to 2018	348
21.3 Theatres	348
21.4 Professional theatres	349
21.5 Professional children's theatres	349

21.6 Amateur theatres	349
21.7 Croatian National Theatre	349
21.8 Professional orchestras, ensembles and choirs	350
21.9 LADO – the National Folk-Dance Ensemble of Croatia	350
21.10 Cinematographs	350
G 21.1 Number of cinema visitors from 2009 to 2018	350
21.11 Museums and museum collections per type, permanently exhibited objects, occasional exhibitions and visitors in 2018	351
21.12 Libraries from 2004 to 2016	351
21.13 Libraries in 2016	351
21.14 Zoological garden	352
22 Sports	355
NOTES ON METHODOLOGY	356
22.1 Sports associations and active athletes by sport types and age groups in 2018	358
22.2 Number of medals won at international competitions from 2009 to 2018	360
22.3 Categorisation of sports venues owned by the City of Zagreb	361
23 Judicial system	363
NOTES ON METHODOLOGY	364
23.1 Courts and judges	366
G 23.1 Charged and convicted persons of full age	366
23.2 Charged and convicted persons of full age by criminal offences	367
23.3 Charged and convicted persons of full age by courts	370
23.4 Convicted persons of full age by courts and groups of criminal offences in 2018	370
23.5 Convicted adult persons by pronounced sanctions	371
G 23.2 Convicted adult persons, by pronounced criminal penalties of other measures, 2018	372
23.6 Juvenile perpetrators of criminal offenses by groups of criminal offenses, type of decision and pronounced sanctions in 2018	372
23.7 Adult and juvenile perpetrators of criminal offences by type of criminal offence, procedure, and decision	372
23.8 Perpetrators of offences by pronounced sanctions	374
24 Business entities	377
NOTES ON METHODOLOGY	378
24.1 Business entities by legal organisational forms and activities	380
24.2 Active legal entities by forms of ownership	380
24.3 Business entities by NCA sections and activities	381
24.4 Business entities by NCA 2007 sections and by size	382
25 Foreign direct investments	385
NOTES ON METHODOLOGY	386
25.1 Foreign direct investments in the City of Zagreb (liabilities), from 2009 to 2018	388
25.2 Domestic legal entities in the City of Zagreb in direct foreign ownership	388
25.3 Foreign direct investments in the City of Zagreb (liabilities), according to NCA 2007, from 2014 to 2018 and from 2009 to 2018	388
25.4 Foreign direct investments in the City of Zagreb (liabilities) by country from 2014 to 2018 and from 2009 to 2018	390

ABBREVIATIONS

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

SITC Standard International Trade
Classification
SMS Short Message Service
SNA System of National Accounts
SSG Profesional service of the Mayor

t ton
TT telegraph and telephone
TV television

ULUPUH Croatian Association of Artists of
Applied Arts

ZET Zagreb Electric Tram
ZG Zagreb

Symbols

- no occurrence
... data not available
* corrected data
1) footnotes
< less than
> more than
≥ more than or equal to
≤ less than or equal to
% percentage
0 value not zero but less than 0.5 of
the unit of measure used
0.0 value not zero but less than 0.05 of
the unit of measure used
0.00 value not zero but less than 0.005
of the unit of measure used
0.000 value not zero but less than 0.0005
of the unit of measure used



00

Zagreb identities





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

31 May - DAY OF THE CITY OF ZAGREB

ARCHBISHOPS OF ZAGREB

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

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

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

- | | |
|---|----------------------------|
| 1. Juraj HAULIK de Varallya, cardinal
bishop
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⁾

Drago PRGOMET, PhD - president

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

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

1. Vladimir ANDRIĆ, M. Eng.
2. Rada BORIĆ, M. Sc.
3. Dubravka BREZAK STAMAĆ, PhD
4. Zvane BRUMNIĆ, M. Eng.
5. Prof. Irena CAJNER MRAOVIĆ, PhD
6. Tamara ČUBRETOVIĆ, M. Eng. in Graphic Technology
7. Ivan ČELIĆ, MD
8. Ilija ČORIĆ, M. Eng. Graphic Technology
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. Kazimir ILIJAŠ, LLM
16. Svibor JANČIĆ, M. Pol.
17. Grgo JELINIĆ, M. Sc.
18. Tomislav JONJIĆ, PhD
19. Krešimir KARTELO
20. Darko KATUŠA
21. Darko KLASIĆ, M. Eng. Radiology
22. Slavko KOJIĆ, M. Econ.
23. Stanko KORDIĆ, M. Pol.
24. Sonja KÖNIG, M. Pol.
25. Ivan KUJUNDŽIĆ, academic sculptor
26. Ana LEDERER, PhD
27. Nenad MATIĆ, M. Sc.
28. Jozo MILIČEVIĆ, M. Sc.
29. Prof. Tihomir MILOVAC
30. Ljerka MINTAS-HODAK, PhD
31. Matej MIŠIĆ, LLM
32. Saša MOLAN, M. Econ.
33. Anka MRAK-TARITAŠ, M. Eng. Arch.
34. Vesna NAĐ, LL. B.
35. Dragica NIKOLIĆ, LLB
36. Zlatko NIKOLIĆ
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. Gzim REDŽEPI, PhD
45. Prof. Gordana RUSAK, PhD
46. Prof. Ana STAVLJENIĆ-RUKAVINA, PhD
47. Tomislav STOJAK, M. Pol.
48. Marijana SUMPOR, PhD

49. Tomislav TOMAŠEVIĆ, M. Pol.

50. Radenko TOMIĆ, M. Eng.

51. Marko TORJANAC, MA

¹⁾ Data with the status as of 25 September 2019

Inactive City Assembly members and their deputies¹⁾

1. Milan Bandić, Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Gordana Rusak, non-partisan (as of 10 July 2017)
2. Jelena Pavičić Vukičević, Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Irena Cajner Mraović, 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, SMSH (Party of Croatian Intergenerational Solidarity) – substituted by Grgo Jelinić, SMSH (Party of Croatian Intergenerational Solidarity) (as of 10 July 2017)
5. Slavko Kojić, Stranka rada i solidarnosti (Labour and Solidarity Party) – substituted by Robert Hirc, Reformisti (Reformists) (as of 10 July 2017)
6. Ljubica Hrgović, SDP (Social Democratic Party) - substituted by Matej Mišić, SDP (Social Democratic Party) (as of 10 July 2017)
7. Draženko Pandek, SDP (Social Democratic Party) – substituted by Radenko Tomić, SDP (Social Democratic Party) (as of 10 July 2017). Radenko Tomić, 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, HDZ (Croatian Democratic Union) – substituted by Mislav Herman, HDZ (Croatian Democratic Union) (as of 10 July 2017)
10. Krunoslav Katčić, HDZ (Croatian Democratic Union) – substituted by Kazimir Ilijaš, HDZ (Croatian Democratic Union) (as of 10 July 2017)
11. Branko Lustig, non-partisan – substituted by Vjekoslav Jeleč, non-partisan (as of 10 July 2017)
As of 30 August 2017, Vjekoslav Jeleč, 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, non-partisan – substituted by Darko Katuša, non-partisan (as of 30 August 2017)

- 2017)
13. Iva Kvakić, "FOR THE CITY" – substituted by Svibor Jančić, "FOR THE CITY" (as of 19 October 2017)
 14. Mate Kapović, "Workers' Front" – substituted by Katarina Peović Vuković, "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, non-partisan – substituted by Natalija Prica Oreški, (as of 4 May 2018)
 16. Ana Lederer, "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, "Independent List of Sandra Švaljek" (as of 20 July 2018) – substituted by Marijana Sumpor, "Independent List Zagreb" (as of 21 August 2018)
 18. Katarina Peović Vuković, "Workers' Front" – substituted by Miljenka Čurković, "Workers' Front" (as of 4 September 2018)
 19. Darinko Kosor, HSLS (Croatian Social Liberal Party) - substituted by Vladimir Andrić, HSLS (Croatian Social Liberal Party), (as of 28 November 2018)
 20. Andrija Mikulić, HDZ (Croatian Democratic Union) (as of 9 April 2019)– substituted by Ivan Kujundžić, HDZ (Croatian Democratic Union) (as of 17 April 2019)
 21. Miljenka Čurković, "Workers' Front" – substituted by Zlatko Nikolić, "Workers' Front" (as of 31 May 2019)
 22. Milana Vuković Runjić, Stranka rada i solidarnosti (Labour and Solidarity Party) - substituted by Gzim Redžepi, non-partisan
- ¹⁾ Data with the status as of 25 September 2019.

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	36	15
By level of education			
Higher education – total	41	27	14
of which:			
Doctors of Science	13	6	7
Masters of Science	6	3	3
Post-secondary education	4	3	1
Secondary education	6	6	-
Primary education	-	-	-
By age groups			
up to 29 years	-	-	-
from 30 to 39 years	7	6	1
from 40 to 49 years	14	11	3
from 50 to 59 years	21	14	7
60 years and more	9	5	4
By distribution of seats			
Bandić Milan 365 – Labour and Solidarity Party	11	7	4
Bruna Esih – Zlatko Hasanbegović: Independents for Croatia	5	3	2
Croatian Democratic Union	7	6	1
Croatian People's Party – Liberal Democrats	1	1	-
Croatian Social Liberal Party	2	2	-
Civic Liberal Alliance	3	1	2
Forward Croatia! – Progressive Alliance	1	1	-
Zagreb Independent List	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	10	7	3

¹⁾ Data with the status as of 25 September 2019

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 2018	
Highest temperature, ° C	+34.5
Lowest temperature, ° C	-11.4
Average air pressure, hPa	996.9
Total sunshine hours, h	1 987
Precipitation (annually), mm	826.6
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 2018 (estimate)	
Population	804 507

NATURAL CHANGE IN POPULATION IN 2018		
		per thousand inhabitants
Births	8 235	10.2
Deaths	9 036	11.2
Natural increase/decrease	-801	-1.0
Vitality index (live births per 100 deaths)	91.1	
Marriages concluded	3 886	4.8
Divorces	1 372	1.7
MIGRATION OF POPULATION IN 2018		
Net migration rate		3 242
Immigrants		16 004
Emigrants		12 762
EMPLOYMENT IN 2018		
Employed persons – total, status as of 31 March		429 545
Persons employed in legal entities, status as of 31 March		399 809
Persons employed in crafts and freelance activities, status as of 31 March		29 216
Employed insured farmers, status as of 31 March		520
UNEMPLOYMENT IN 2018		
Unemployed persons, status as of 31 March		21 341
Unemployment rate, %		4.7
EARNINGS IN 2018		
Average monthly net earnings, in HRK		7 243
Average monthly gross earnings, in HRK		10 181
Nominal indices of net earnings		104.0
Nominal indices of gross earnings		104.6
PENSION INSURANCE IN 2018		
Number of pension beneficiaries, status as of 31 December		194 391
Average monthly pension deducted by tax and surtax, HRK		3 193

HEALTH CARE IN 2018	
Number of doctors of medicine	4 942
Of which specialists	3 468
Other health care workers	15 245
Health centres	4
Hospitals	18
Of which clinics	8
Specialised hospitals	10
Number of hospital beds	6 300
Number of patients in hospitals	254 661
Outpatient polyclinics (independent health care institutions)	173
Pharmacies	231
SOCIAL WELFARE IN 2018	
Number of beneficiaries of social welfare and services of the City of Zagreb	
Allowance to pensioners	9 753
Entitlement to free transit pass by ZET	74 467
Soup kitchen beneficiaries	2 727
number of beneficiaries of paid baby bonuses	21 177
Governmental benefits for children	
Number of children's allowance beneficiaries	16 605
Paid children's allowance, thousands of HRK	170 950
GROSS DOMESTIC PRODUCT IN 2016	
GDP, millions of HRK	118 100
GDP per capita, HRK	147 166
FOREIGN TRADE IN GOODS IN 2018	
Export, thousands of HRK	33 381 275
Import, thousands of HRK	86 104 137
Balance of foreign trade, thousands of HRK	-52 722 862
Coverage of import by export, %	38.8
ENERGY, WATER SUPPLY, DRAINAGE IN 2018	
Electricity consumption, thousands of GWh	2 745
Gas consumption, millions of kWh	3 432
Water consumption, thousands of m ³	54 779
Length of water supply pipeline, km	2 717

Number of water pipeline connections	86 567
Sewerage network length, km	2 125
Number of storm drains	55 630
Disposed waste, tonnes	216 631
Number of firefighting interventions	2 837
TRANSPORT AND COMMUNICATION IN 2018	
Urban transport	
Tram – transported passengers, thousands	186 693
Bus – transported passengers, thousands	85 849
Number of taxis, status as of 31 December 2018	2 110
Number of registered motor vehicles	388 263
Of which	
Personal cars	321 967
Goods vehicles and work vehicles	38 287
Motorcycles	9 625
Length of cycle lanes in transport infrastructure	
transport network, km	277
Air traffic – departing and arriving passengers, thousands	3 336
Post offices	74
Number of postmen	441
FAIRS IN 2018	
Zagreb Fair	
Number of fairs	18
Number of exhibitors	1 136
Domestic	1 000
Foreign	136
Visitors, thousands	380
TOURISM IN 2018	
Hotels	57
Beds	6 632
Hostels	47
Beds	2 346
Tourist arrivals	1 400 201
Foreign	1 177 014
Overnight stays	2 511 817
Foreign	2 101 705

EDUCATION IN 2018

Kindergartens and other legal entities that implement pre-school programmes	330
Of which	
Kindergartens	305
Other legal entities	25
Number of children accommodated	39 953
Dormitories for secondary school students	15
Number of students in dormitories	2 352
Student dormitories	4
Number of students in dormitories	7 392
Primary schools – total, at the start of the school year 2018/2019	144
Number of students	60 563
Number of teachers	5 644
Secondary schools – total, at the start of the school year 2018/2019	109
Number of students	34 640
Number of teachers	4 791
Higher education institutions – total, at the start of the academic year 2018/2019	55
Students – total	74 968
Faculties	39
Enrolled students – total	59 432
Professional studies – students	5 207
University studies – students	54 225
Academies of Arts	3
Enrolled students	1 266
Post-secondary education institutions	9
Enrolled students – total	4 436
Polytechnics	4
Enrolled students – total	9 834
Students graduated from higher education institutions in 2018	16 282

CULTURE IN 2018

Theatres	95
Plays	6 729
Seats	10 518
Visitors	1 258 631
Movie theatres	49
Seats	9 149
Visitors, in thousands	2 212
Museums in 2018	37
Museum visitors	1 214 885
Zagreb Philharmonic Orchestra	
Concerts in Zagreb	57
Visitors in Zagreb	34 510
Professional orchestras, ensembles and choirs	32
ZOO – number of animals	8 089
Visitors	428 121
Of which children	192 302
at events	23 041
Botanical Garden of the Faculty of Science	
Surface area, m ²	47 000
Number of plant taxa	6 834
SPORTS IN 2018	
Sports associations	987
Types of sports	
Football	134
Bowling	33
Tennis	29
Handball	32
Basketball	30
Total number of active members	99 186

IMMOVABLE CULTURAL GOODS IN 2018 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	416
Religious architecture	46
Ethnological heritage	
Ethnological areas	4
Ethnological structures	47
Memorial heritage	
Commemorative and historical area	1
Memorial object, public monument and fountains	36

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

MOVABLE CULTURAL GOODS IN 2018 REGISTERED IN THE CULTURAL OBJECTS REGISTER OF THE REPUBLIC OF CROATIA

List of Protected Cultural Heritage and List of Preventively Protected Heritage

Individual items	59
Collections	227
Intangible cultural goods	11

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

PROTECTED NATURAL AREAS IN 2018

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 25 September 2019)	15

Persons below were given the status of honorary citizens of the City of Zagreb in 2018

In 2018, no one was named an honorary citizen of the City of Zagreb.

"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 Slišković
 2014 – Vernesa Smolčić, Assist. Prof., PhD
 2015 – Lovorka Galetić, Prof., PhD
 2016 – Sandra Perković
 2017 – Janica Kostelić
 2018 – Mirjana Bohanec Vidović
 2019 – dr. sc. Jasna Kovačević, senior librarian

"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 Gnjiđić, 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
 2019 – Niko Radujković, a student of Primary School "Dr Ivan Merz" Matija Ostoić, a student of Industrial Mechanical Engineering 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
2019	15	13	2	-

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, 10/18 and 2/19)

Winners of the City of Zagreb Award in 2019

1. Biserka Baretić-Petlevski, academic painter
2. Academician Goran Durn, full professor in permanent degree at the Faculty of Mining, Geology and Petroleum Engineering University of Zagreb
3. Prof. PhD Nikica Gabrić, MD, specialist ophthalmologist, a specialist in front eye segment
4. Građanski nogometni klub Dinamo
5. Assoc. Prof. Zlatko Karač, PhD Alen Žunić, M.Arch, MdesS
6. Prof. PhD Marijan Klarica, Dean of Medical Faculty of the University of Zagreb
7. President of the Volunteer Hrašće Fire Company, President of the City of Zagreb Fire Department
8. Ivica Kunčević, director
9. Academician Pavao Pavličić
10. Prljavo kazalište, rock band
11. Davor Rostuhar, freelance artist (photographer, travel writer, adventurer, lecturer)
12. Dražen Sirišćević, director of the Concert hall Vatroslav Lisinski
13. Tin Srbić, gymnast
14. Association of Young Gifted Mathematicians Marin Getaldić
15. Herman Vukušić, MD, psychiatrist

Source: City of Zagreb, City Assembly professional service

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
- 2019 – Daruvar, Republic of Croatia

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
Havičić Selo	1.95	53	24	29	17	12	71	23
Horvati	20.77	1 490	705	785	419	346	504	451
Hrašće Turopoljsko	2.74	1 202	594	608	370	301	438	430
Hrvatski Leskovac	3.33	2 687	1 367	1 320	818	686	951	935
Hudi Bitek	1.93	441	203	238	134	112	150	146
Ivanja Reka	3.37	1 800	874	926	579	475	652	652
Jesenovec	2.72	460	230	230	116	102	170	125
Ježdovec	7.71	1 728	835	893	487	413	612	572

SETTLEMENTS OF THE CITY OF ZAGREB – 2011 Census

(Continued)

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

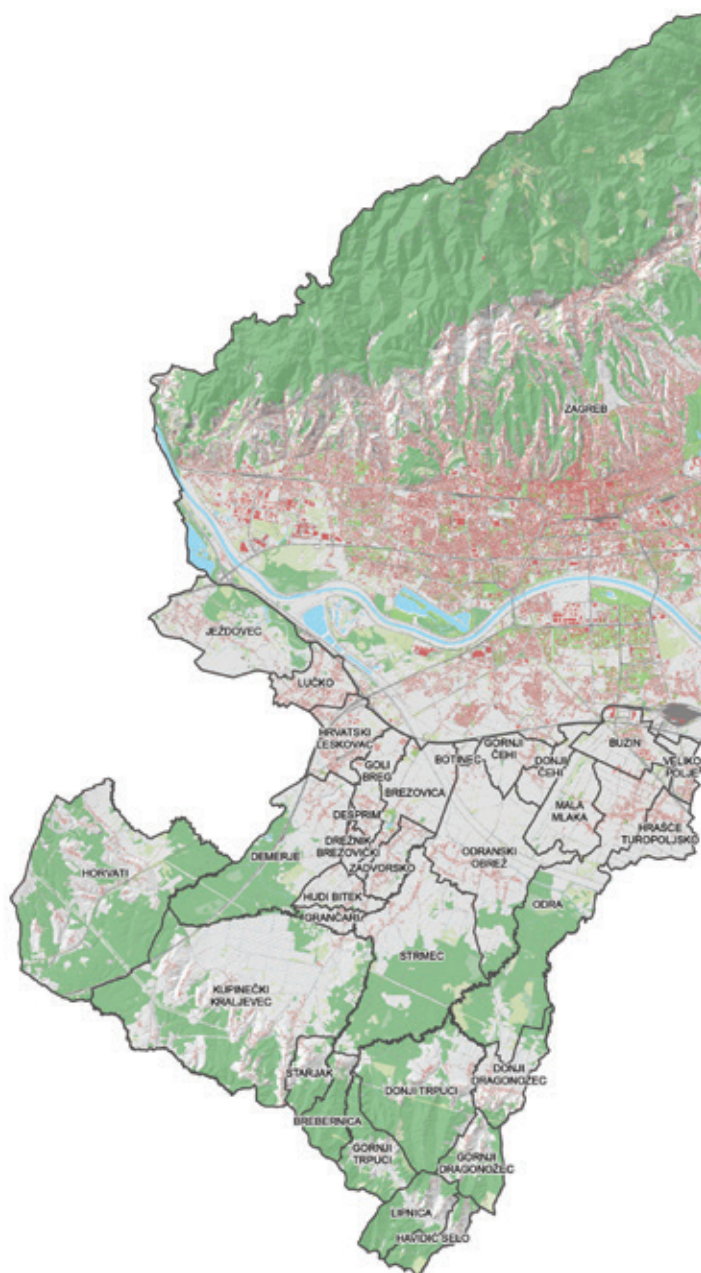
¹⁾ Settlements of the City of Zagreb are presented according to the Act on the Territories of Counties, Towns and Municipalities in the Republic of Croatia (Official Gazette 10/97).

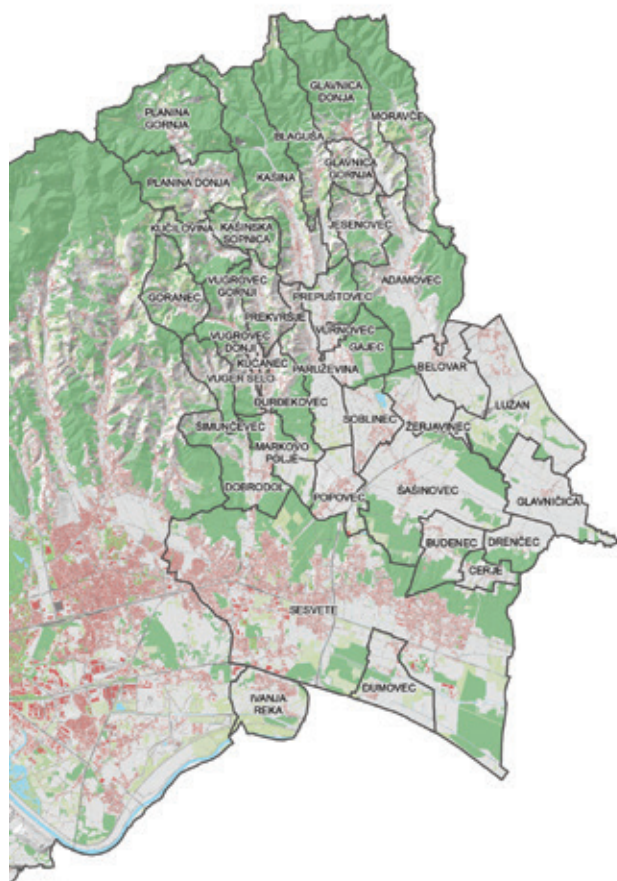
Changes in the territory and borders of the settlement Dobrodo, Markovo Polje and Šimunčevac – Decision on the Boundaries of Settlements of the City of Zagreb (Official Gazette of the City of Zagreb 07/07).

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

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

SETTLEMENTS OF THE CITY OF ZAGREB





CITY DISTRICTS OF THE CITY OF ZAGREB – 2011 Census

City districts		Surface area ¹⁾ , km ²	Population			Private households		Dwellings	
			Total	Men	Women	Total	Of which: family households	Total	Dwellings for permanent housing
CITY OF ZAGREB – total		641.32	790 017	369 339	420 678	303 441	209 430	384 333	373 538
I	Donji Grad	3.02	37 024	16 334	20 690	16 616	9 673	23 397	21 571
II	Gornji grad – Medveščak	10.19	30 962	14 162	16 800	12 904	8 180	17 088	16 558
III	Trnje	7.36	42 282	19 202	23 080	18 352	11 340	23 366	22 935
IV	Maksimir	14.97	48 902	22 437	26 465	19 098	12 966	24 525	24 104
V	Peščenica – Žitnjak	35.30	56 487	26 381	30 106	21 628	14 723	26 711	26 483
VI	Novi Zagreb – 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).

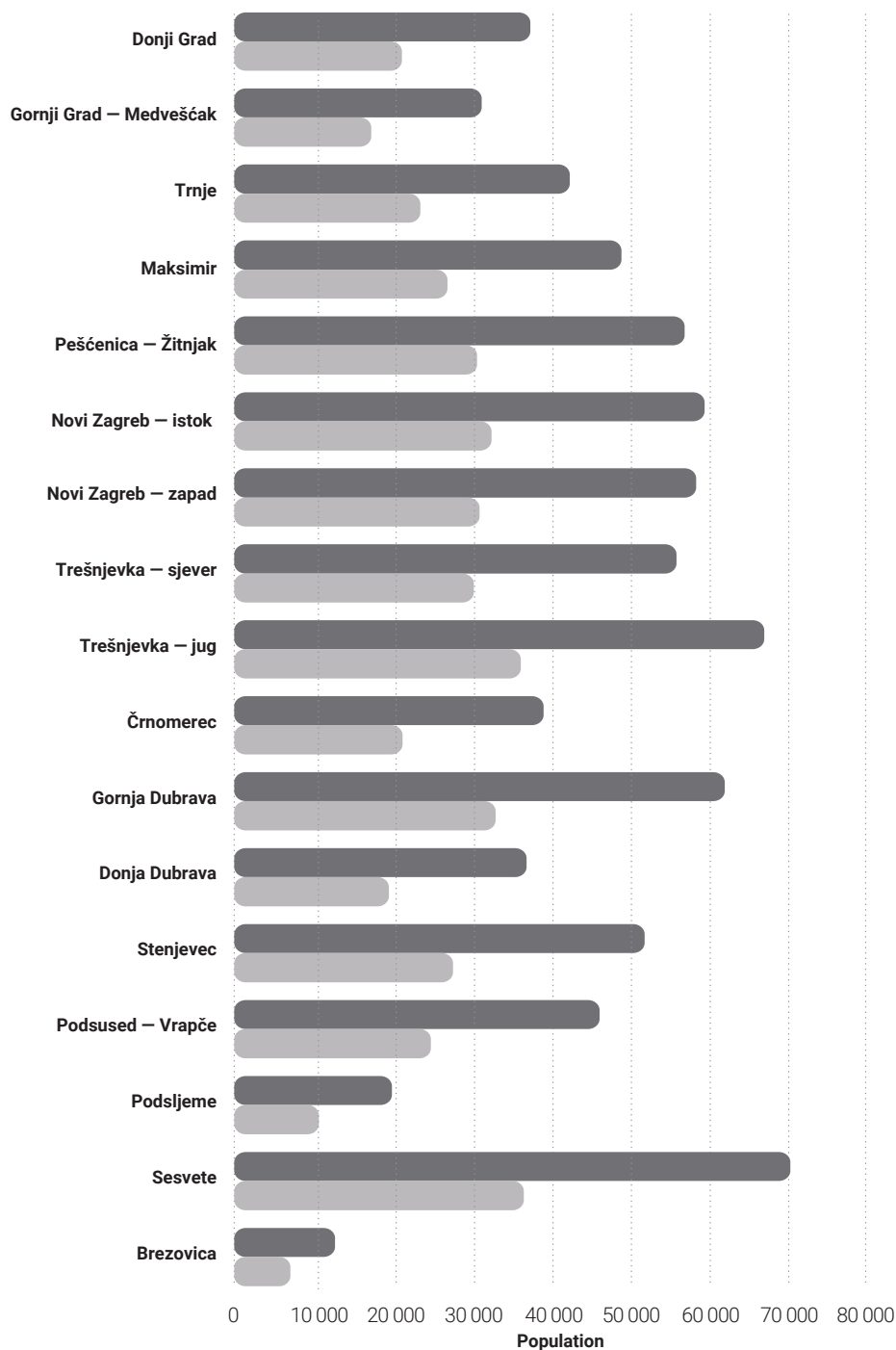
Source: City Office for Cadastre and Geodetic Activities; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

CITY DISTRICTS OF THE CITY OF ZAGREB



City quarters, population, 2011 Census

● Total ● Women



In 2018, there were 120 warm days in the City of Zagreb with the maximum temperature equal to or above 25°C and 39 cold days with the minimum temperature under 0°C.

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 (m³/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.

Earthquake magnitude is measured according to the international European Macroseismic Scale (EMS). The EMS 92 scale was in use from 1992, while in 1998, the 12-degree EMS 98 scale was introduced and has been in use since. Degrees have been determined according to the estimate of earthquake effect on people, buildings and nature. 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	21 512	Trnje, Peščenica – Žitnjak, Donja Dubrava, Sesvete
Brezovička road	13 183	Novi Zagreb - west, Brezovica
Bologne boulevard	8 541	Podsused – Vrapče
Sljemenska road	8 100	Črnomerec
Kneza Branimira	7 699	Donji Grad, Maksimir, Donja Dubrava, Peščenica – Žitnjak
M. Ljubek boulevard	7 630	Trešnjevka – south
Radnička road	7 254	Peščenica – Žitnjak, Trnje
Zagrebačka avenue	6 377	Trešnjevka – north
“Grad Vukovar” street	6 313	Trešnjevka – north/Trnje/Peščenica – Žitnjak
Ilica	5 865	Vrapče/Črnomerec
Miroševačka road	5 346	Gornja Dubrava
Ježdovečka road	4 645	Novi Zagreb – west (Ježdovec, Lučko)
Štefanovec	4 520	Gornja Dubrava
Dr. L. Naletilića	4 516	Novi Zagreb – west, Brezovica
Jadranska avenue	4 316	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	3 549	Maksimir/Gornja Dubrava
Vrhovec	3 409	Črnomerec
Selska road	3 378	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 2018 as measured by the Meteorological Observatory Zagreb – Grič

	Day	January	February	March	April	May	June	July	August	September	October	November	December
Average daily air temperatures (°C)	1	0.8	1.2	4.7	10.5	14.4	18.7	21.2	22.4	19.2	15.2	9.0	3.9
	2	0.9	1.7	4.7	10.4	14.6	18.8	21.5	22.6	19.2	14.7	8.9	3.7
	3	1.1	1.7	4.8	10.9	14.9	19.1	21.6	22.3	19.4	14.6	8.9	3.3
	4	0.7	1.8	5.0	11.1	14.8	19.1	21.7	22.1	19.2	14.2	8.9	3.3
	5	0.4	2.0	5.3	11.1	14.3	19.1	21.7	22.1	18.7	13.9	8.8	3.3
	6	0.6	2.0	5.5	11.1	15.1	19.3	21.8	22.0	18.7	13.8	8.5	3.2
	7	0.8	1.9	5.8	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	21.9	18.7	13.4	8.2	2.8
	9	0.4	1.9	6.0	10.7	15.6	19.7	21.7	21.9	18.4	13.2	8.1	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	2.3
	11	0.8	2.3	6.5	10.9	15.7	19.5	21.5	21.4	18.2	12.7	7.2	2.2
	12	0.7	2.2	6.4	11.3	16.1	19.5	21.5	21.4	17.9	12.6	7.2	2.2
	13	0.3	1.9	6.2	11.5	16.2	19.5	21.9	21.5	17.3	12.5	7.0	2.3
	14	0.0	1.8	6.4	11.4	16.6	19.4	21.9	21.5	17.4	12.5	6.9	2.3
	15	0.0	1.8	6.9	11.9	16.5	19.6	22.0	21.7	17.4	12.3	6.7	2.0
	16	0.3	2.3	7.2	12.1	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	19.2	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	16.9	11.2	5.4	1.7
	19	0.3	3.0	7.9	12.2	17.1	19.8	22.2	21.2	16.7	11.0	5.3	1.9
	20	0.5	3.1	7.9	12.6	17.0	20.2	22.3	21.3	16.7	10.9	5.4	1.7
	21	0.5	3.2	8.2	12.6	17.1	20.3	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	1.4
	23	0.4	3.5	8.2	13.1	17.3	20.5	22.3	20.4	16.0	10.7	4.7	1.2
	24	0.2	3.8	8.4	13.0	17.3	20.4	22.3	20.6	15.7	10.4	4.8	1.3
	25	0.5	4.2	9.0	13.4	17.7	20.3	21.6	20.2	15.7	10.2	4.7	1.2
	26	0.6	4.3	9.1	13.8	17.8	20.7	21.9	20.2	15.5	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	9.8	4.2	1.0
	28	0.6	4.7	9.5	13.5	18.1	20.8	22.1	19.9	15.2	9.7	4.1	1.1
	29	0.6	5.1	9.6	13.7	18.4	20.7	22.1	20.0	15.1	9.7	4.2	1.3
	30	0.6		9.8	14.0	18.5	20.9	22.1	19.7	15.2	9.2	3.9	1.4
	31	1.1		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	21.2	17.2	11.9	6.5	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

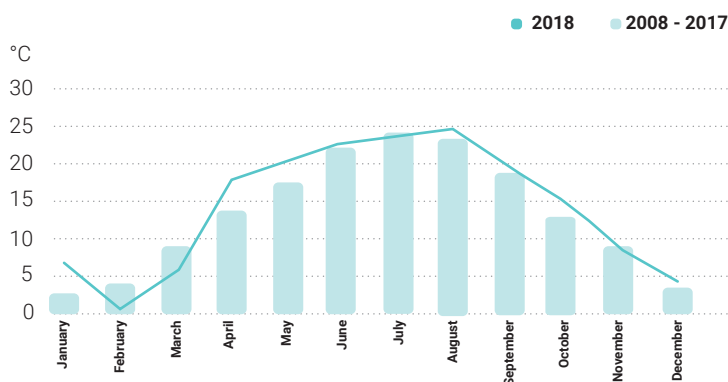
1.4 Air temperature and total precipitation in the period between 1862 and 2018 as measured by the Meteorological Observatory Zagreb – Grič

(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

G 1.1 Average monthly air temperatures in 2018, and 2008 – 2017



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													
2009 – 2018	2.7	3.7	9.0	14.3	17.8	21.7	24.0	23.5	18.3	12.8	8.6	3.8	13.4
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
2018	6.3	0.9	5.8	17.3	20.4	22.4	23.6	25.0	19.2	15.0	8.8	4.2	14.1

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 air pressure, hPa (pressure altitude – 162.5 m)													
2009 – 2018	997.9	996.2	996.5	995.5	995.2	995.4	995.4	996.9	998.0	999.4	997.8	1 000.5	997.1
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
2018	998.1	996.3	988.0	996.2	995.0	994.6	994.8	996.8	1 001.0	999.7	1 000.9	1 001.6	996.9
Average Relative Humidity, %													
2009 – 2018	77	73	62	59	62	62	60	60	70	75	79	78	68
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
2018	77	77	72	56	62	61	62	60	66	71	81	75	68
Average monthly and annual cloud coverage (tenths of sky covered)													
2009 – 2018	7.3	7.5	6.2	5.9	5.8	5.4	4.6	4.2	5.6	6.0	7.1	6.6	6.0
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
2018	7.0	8.5	8.0	4.3	5.6	6.1	4.8	3.4	4.0	5.0	7.6	6.5	5.9
Absolute maximum air temperatures, °C													
2009 – 2018	16.6	17.9	23.5	29.8	31.8	36.2	37.6	38.8	33.0	25.9	22.5	19.1	38.8
day	11	16	29	29	27	30	8	8	11	7	9	25	8 Aug
year	2016	2014	2012	2012	2011	2012	2011	2013	2011	2009	2015	2009	2013
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	20*	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	11*	4	9	20*	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	11*	31	6	29	24	12	5	12	12*	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
2018	16.2	12.6	17.3	29.3	31.2	33.3	33.6	34.5	29.7	22.6	20.4	14.4	34.5
day	6	1	13	29	31	12	31	9	12	27	12	4	9 Aug

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
Absolute minimum air temperatures, °C													
2009 – 2018	-10.2	-11.6	-3.2	1.4	5.2	8.7	12.2	8.4	6.3	0.3	-3.8	-15.6	-15.6
day	11	9	6	10	4	1	3	31	27	30	21	20	20 Dec
year	2017	2012	2010	2013	2011	2010	2011	2010	2018	2012	2011	2009	2009
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	20*	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
2018	-1.0	-11.4	-10.7	6.4	10.6	10.7	16.4	13.5	6.3	6.3	-2.4	-1.8	-11.4
day	15	28	1	2	16	23	16	26	27	1	30	1	28 Feb
Monthly and annual precipitation, mm													
2009 – 2018	61.1	73.0	45.2	52.0	86.2	98.0	72.6	69.6	116.5	85.8	90.8	49.5	900.3
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
2018	55.7	102.3	72.6	59.5	108.3	66.6	102.1	44.3	54.6	65.6	77.5	17.5	826.6
Maximum daily precipitation, mm													
2009 – 2018	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
day	15	12	31	30	23	20	18	20	13	22	22	16	18 Jul
year	2013	2014	2013	2009	2015	2016	2010	2015	2012	2014	2015	2017	2010
2014	27.9	55.2	10.5	14.2	30.3	37.8	26.1	34.6	53.5	45.4	20.1	15.8	55.2
day	25	12	25	9	16	30	11	15	1	22	7	28	12 Feb
2015	12.2	15.3	7.8	6.1	44.9	31.0	19.9	43.2	39.8	33.9	37.7	0.3	44.9
day	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
day	3	16	4	28	15	20	17	22	6	3	7	29	20 Jul*
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
day	14	25	11	29	15	1	26	7	17	23	30	16	17 Sep
2018	15.4	22.5	31.2	32.3	27.4	19.7	15.4	25.8	18.4	44.8	33.4	10.7	44.8
day	2	3	18	1	5	23	4	26	24	29	26	9	29 Oct

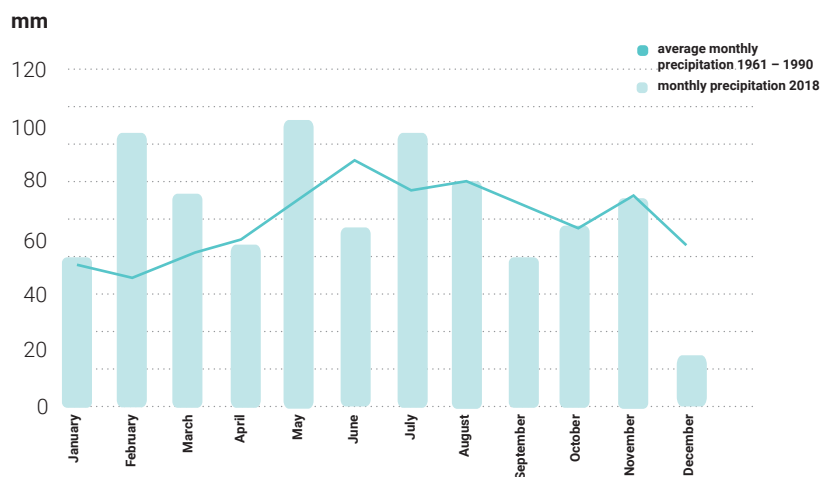
1.5 Monthly and annual meteorological data in the last five years as measured by the Meteorological Observatory Zagreb – Grič

(Continued)

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Sunshine duration, hours													
2009 – 2018	65.6	73.2	147.4	194.6	235.8	256.6	286.6	285.1	177.6	134.1	75.1	74.8	2 006.5
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
2018	81.8	51.9	90.9	235.5	251.8	218.0	264.8	283.9	221.4	161.3	59.4	66.5	1 987.2
Medium wind speed, Beaufort scale													
2009 – 2018	1.6	1.7	1.9	1.8	1.8	1.7	1.5	1.5	1.5	1.5	1.5	1.6	1.6
2014	1.6	1.8	2.2	1.9	2.2	1.7	1.8	1.8	1.6	2.0	1.7	2.2	1.9
2015	1.9	1.8	2.3	2.1	2.0	1.9	1.6	1.5	1.9	1.6	2.0	1.6	1.9
2016	1.8	2.0	2.2	2.1	1.8	1.8	1.6	1.6	1.5	1.5	1.6	1.3	1.7
2017	1.8	2.0	1.9	2.1	2.0	1.8	1.8	1.7	1.7	1.7	1.9	2.0	1.9
2018	1.9	2.1	2.1	2.0	1.9	2.0	1.7	1.5	1.3	1.3	1.4	1.6	1.7

Source: Meteorological and Hydrological Service

G 1.2 Annual precipitation change in 2018, and 1961 – 1990



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

[illegible]

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 days with hail	2014	-	-	-	1	1	-	-	-	-	-	-	-	2
	2015	-	-	-	-	-	-	-	-	-	-	-	-	-
	2016	-	-	-	-	-	-	-	-	-	-	-	-	-
	2017	-	-	-	-	-	-	-	-	1	-	-	-	1
	2018	-	-	-	-	1	-	-	-	-	-	-	-	1
Number of days with gale-force wind (number 8 or more on the Beaufort scale)	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
	2018	-	-	-	-	-	-	-	-	-	-	-	-	10

Source: Meteorological and Hydrological Service

1.7 Frequency of acid rains on weather stations in 2018

	RR _A ¹⁾	N _A ²⁾	N ³⁾ of occurrences of highly acidic rain 3.0 ≤ pH ≤ 4.0	N of occurrences of moderately acidic rain 4.01 ≤ pH ≤ 5.0	N of occurrences of slightly acidic rain 5.01 ≤ pH ≤ 5.6	Share of acid rains in total precipitation, %
Zagreb – Maksimir	847.8	99	0	9	13	24
Puntijarka – Medvednica	1 245.2	131	0	19	37	41

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⁾													
2009 – 2018	328	359	331	383	211	257	112	171	468	416	432	385	468
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
2018	117	-19	266	149	-23	-97	-50	-47	-83	-256	86	-118	266
Average water level (cm)													
2009 – 2018	-153	-110	-120	-148	-165	-191	-228	-242	-170	-175	-94	-129	-160
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
2018	-79	-138	-26	-74	-166	-204	-210	-251	-213	-231	-122	-216	-161

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

(Continued)

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Minimum water level (cm)³⁾													
2009 – 2018	-290	-286	-280	-282	-259	-287	-295	-307	-296	-295	-278	-284	-307
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
2018	-223	-231	-223	-202	-242	-258	-262	-286	-274	-282	-263	-267	-286

¹⁾ In 1849, the Hydrological Station Zagreb was founded.²⁾ Station Zagreb: topographic point "0" 112.26 m/AMSL; basin surface area 12 450 km².³⁾ Maximum recorded water level was **514** cm (on 26 October 1964), and minimum 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⁾													
2009 – 2018	1 921	2 092	2 024	2 156	1 364	1 565	1 012	1 207	2 851	2 435	2 484	2 246	2 851
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
2018	1 017	646	1 549	1 108	636	445	565	573	480	1 544	930	391	1 549

Average discharge rate (m³/s)													
2009 – 2018	325	444	404	335	287	230	162	143	317	285	486	399	318
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
2018	495	346	646	507	283	203	193	127	192	175	397	181	312

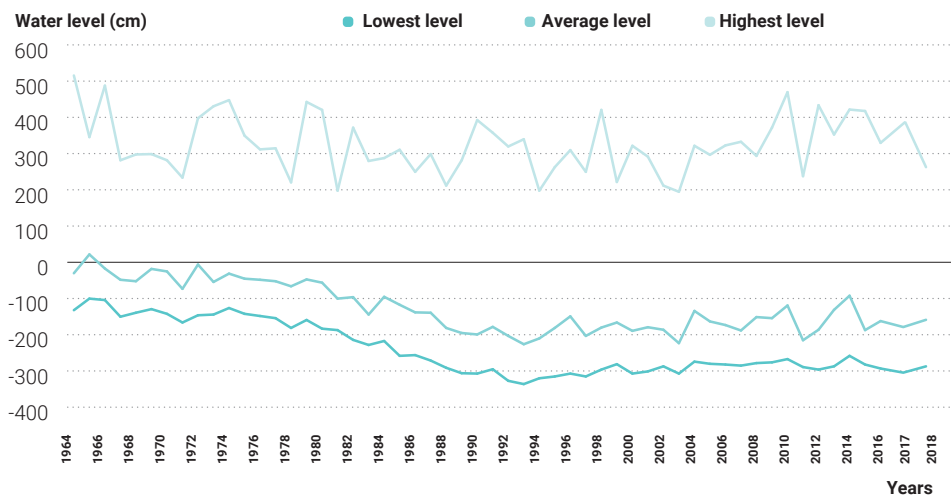
Minimum discharge rate (m³/s)³⁾													
2009 – 2018	80,2	69,2	76,2	73,8	104,0	83,9	75,5	56,9	63,8	69,2	78,6	75,0	56,9
2014	235	402	245	166	189	103	136	137	219	132	180	162	103
2015	168	189	175	125	115	114	94,3	90,9	96,6	122	100	80,2	80,2
2016	80,2	128	165	129	170	148	106	105	75,3	69,7	129	87,6	69,7
2017	80,7	91,6	125	99,7	129	83,9	75,5	63,9	74,5	79,6	108	207	63,9
2018	164	150	164	203	131	106	100	69,2	83,6	73,8	98,6	92,9	69,2

¹⁾ In 1849, the Hydrological Station Zagreb was founded.²⁾ Station Zagreb: topographic point "0" 112.26 m/AMSL; basin surface area 12 450 km².³⁾ Maximum recorded discharge was **3 126** m³/s (on 26 October 1964), and minimum was **46.5** m³/s (on 23 August 1993).

Source: Meteorological and Hydrological Service

G 1.3 Average annual Sava water level

Hydrological station: Zagreb – Sava / Period: 1964 – 2018



1.10 Earthquakes with epicentres near Zagreb¹⁾ that occurred between 1900 and 2018

	Total number of earthquakes	Strongest earthquake in the year		
		Intensity °MCS/°EMS	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
2018	815	V	Ozalj	14 Jun

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	
2018	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 2018)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				
Rijeka 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

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 2018)¹⁾

(Continued)

Waterflows	Corresponding surface area, km ²	Length, km	Maintained area, km	Waterflows	Corresponding surface area, km ²	Length, km	Maintained area, km
Črnomerec	...	10.00	7.50	Potočki	...	3.20	1.25
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.

In 2018, there were 8 235 live births in the City of Zagreb, i.e. 2.0% more than in 2017, and the number of City of Zagreb inhabitants increased by 1 745 in comparison to 2017, i.e. by 0.2%.

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, 74/13, 69/17 and 46/18) 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.

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

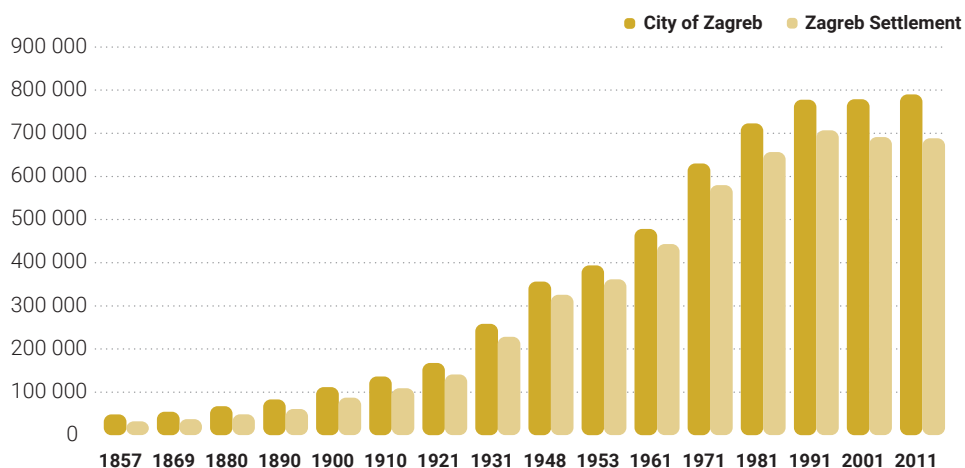
2.2 Population and households according to Censuses¹⁾

	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.

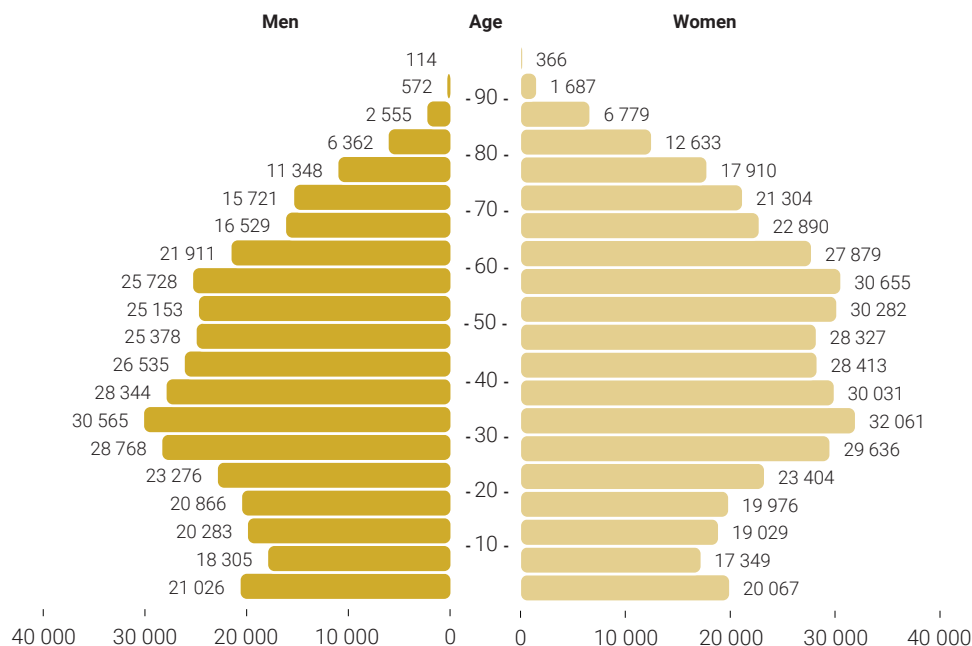
²⁾ End of a series of Censuses, see Notes on Methodology.

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 Zagreba by sex and age, 2011 Census



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

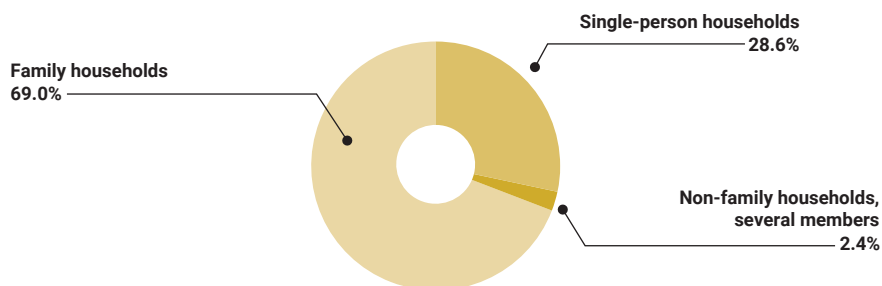
2.3 Population of the City of Zagreb and Zagreb Settlement according to the Censuses carried out between 1857 and 2011¹⁾

	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

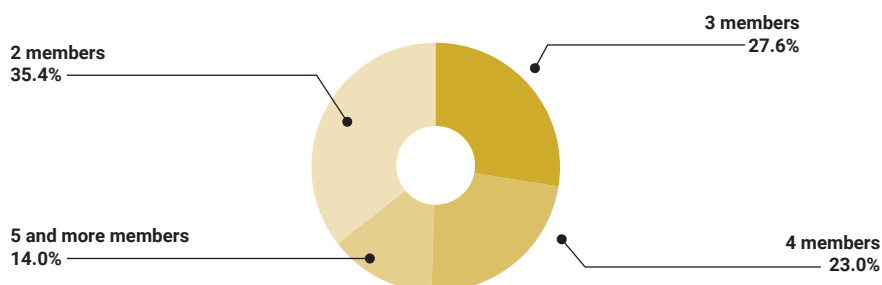
¹⁾ Data from the Censuses is compiled according to the administrative and territorial division pursuant to the Act on the Territories of Counties, Towns and Municipalities in the Republic of Croatia (Official Gazette 10/97).

²⁾ See Notes on Methodology.

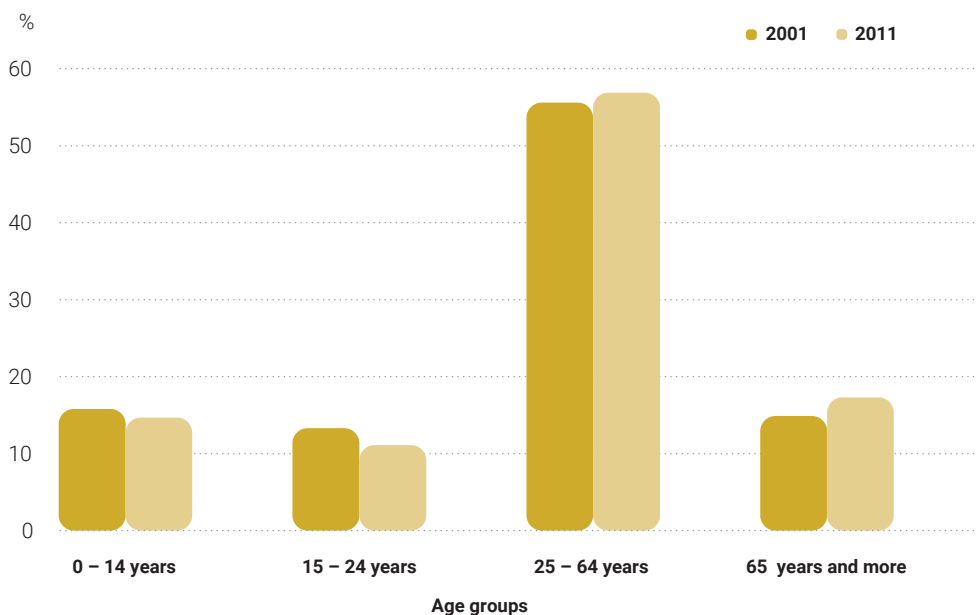
G 2.3 Private households by household structure, 2011 Census



G 2.4 Family households by number of members, 2011 Census

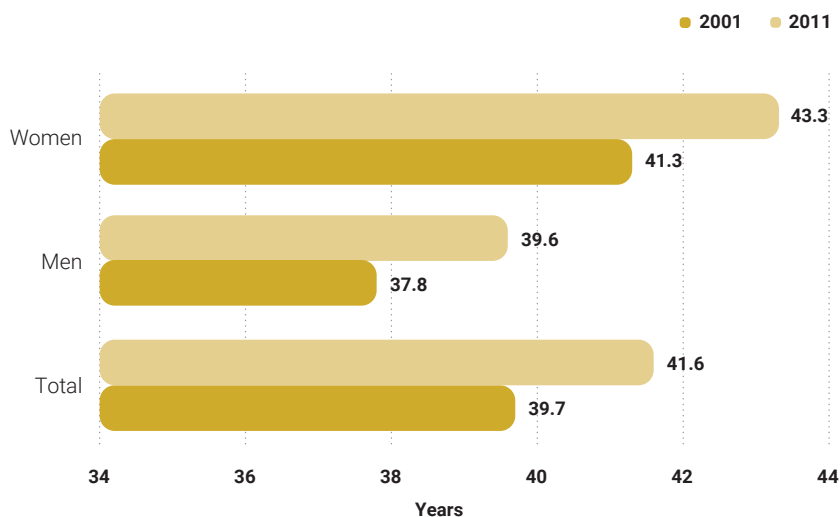


G 2.5 Age structure of citizens of the City of Zagreb according to 2001 and 2011 Censuses



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

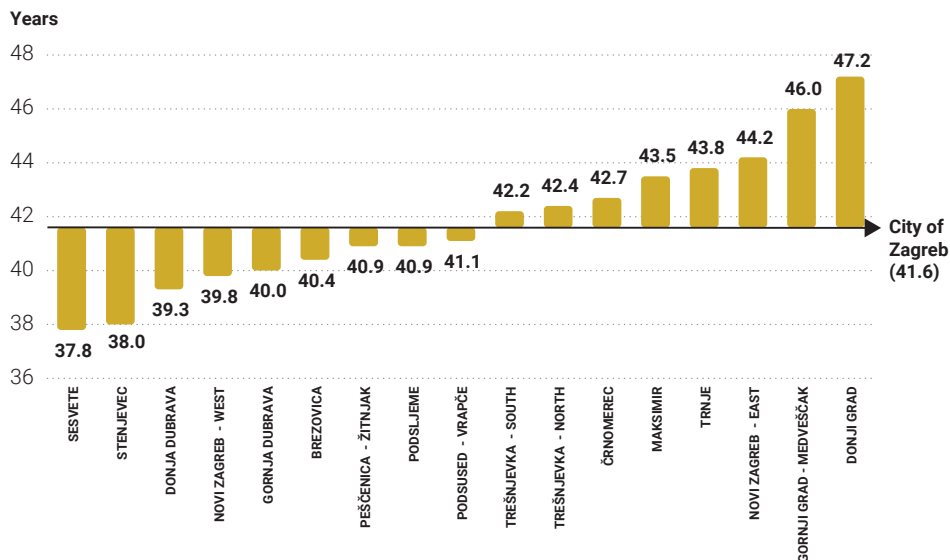


Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

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

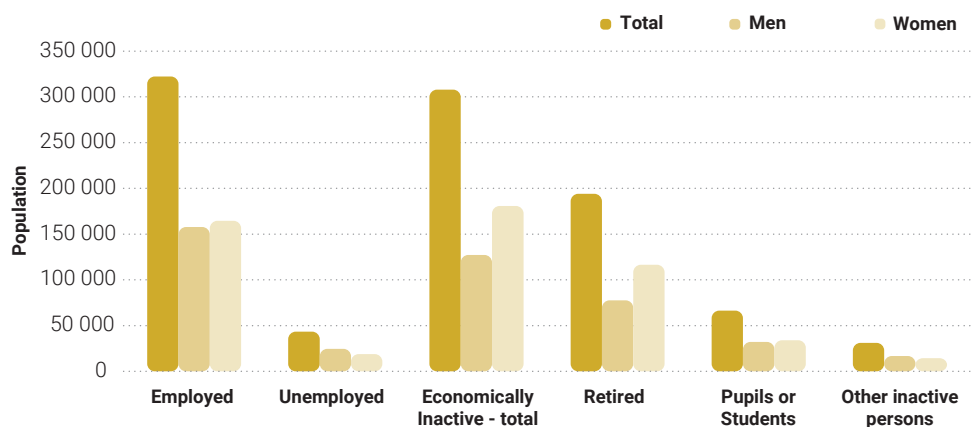
¹⁾ According to the Constitutional Act on Human Rights and Freedoms and the Rights of Ethnic and National Communities or Minorities in the Republic of Croatia (Official Gazette 105/2000).

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



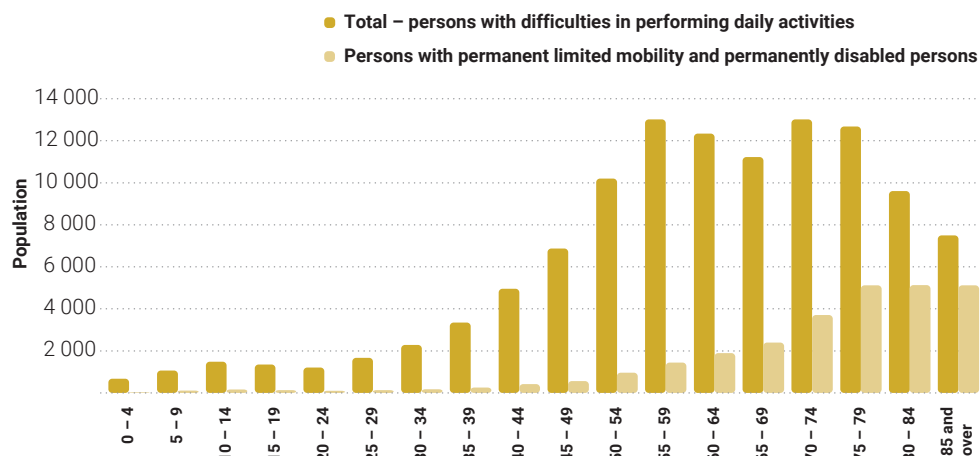
Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

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

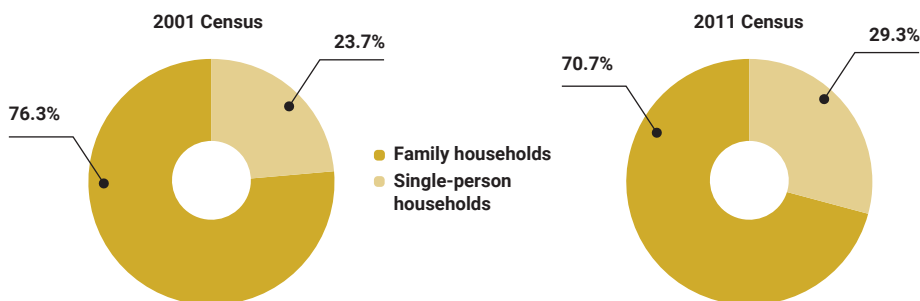
2.14 Family households by number of members, 2011 Census

	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					
		Owner-ship or co-owner-ship	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 Population by sex, mid-year estimate

2011=100

	Total	Men	Women	Indices		
				total	men	women
2011	790 450	369 499	420 951	100.0	100.0	100.0
2012	793 057	370 733	422 324	100.3	100.3	100.3
2013	795 505	371 945	423 560	100.6	100.7	100.6
2014	798 424	373 353	425 071	101.0	101.0	101.0
2015	799 565	374 004	425 561	101.2	101.2	101.1
2016	802 338	375 397	426 941	101.5	101.6	101.4
2017	802 762	375 616	427 146	101.6	101.7	101.5
2018	804 507	377 427	427 080	101.8	102.1	101.5

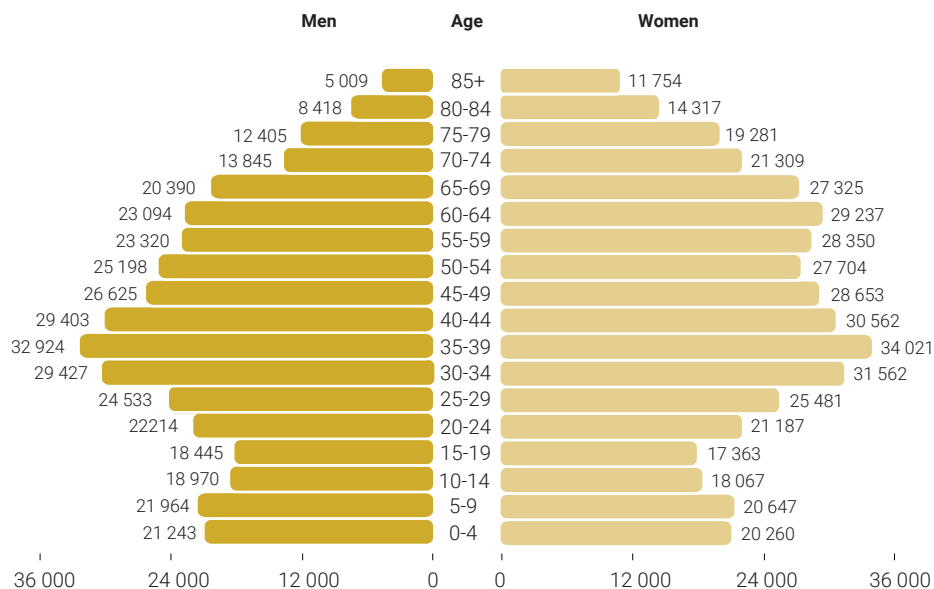
Source: CBS; processing: City Office for the Strategic Planning and Development of the City - Department of Statistics

2.22 Population by sex and age, mid-year estimate

Age groups	2014		2015		2016		2017		2018	
	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
Ukupno	798 424	425 071	799 565	425 561	802 338	426 941	802 762	427 146	804 507	427 080
0-4	43 399	20 973	42 949	20 736	42 334	20 511	41 744	20 260	41 503	20 260
5-9	38 921	19 118	40 124	19 681	41 431	20 274	42 574	20 795	42 611	20 647
10-14	35 340	17 085	35 241	17 064	35 504	17 295	35 803	17 449	37 037	18 067
15-19	40 903	19 840	40 381	19 643	39 039	18 944	37 295	18 106	35 808	17 363
20-24	43 529	21 618	43 116	21 316	42 746	21 040	43 123	21 217	43 401	21 187
25-29	53 992	27 848	52 478	27 100	52 264	26 838	51 095	26 154	50 014	25 481
30-34	65 029	33 166	64 703	33 124	63 812	32 844	62 124	32 162	60 989	31 562
35-39	61 661	31 563	63 370	32 294	65 035	33 196	66 238	33 803	66 945	34 021
40-44	56 862	29 243	57 743	29 712	58 665	30 184	59 047	30 326	59 965	30 562
45-49	54 612	28 509	54 431	28 360	54 060	28 095	54 384	28 203	55 278	28 653
50-54	52 704	28 387	52 098	27 882	52 410	27 813	52 644	27 731	52 902	27 704
55-59	55 299	30 470	54 001	29 862	52 871	29 257	52 166	28 886	51 670	28 350
60-64	52 116	28 881	52 713	29 239	53 114	29 522	53 287	29 648	52 331	29 237
65-69	40 624	23 795	43 097	25 051	45 776	26 419	46 277	26 615	47 715	27 325
70-74	37 341	22 105	35 978	21 492	34 889	21 076	35 181	21 316	35 154	21 309
75-79	30 858	18 498	31 058	18 688	31 098	18 728	31 310	18 919	31 686	19 281
80-84	21 104	13 829	21 344	13 841	21 739	13 877	22 299	14 152	22 735	14 317
85+	14 130	10 143	14 740	10 476	15 551	11 028	16 171	11 404	16 763	11 754

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

G 2.11 Population by sex and age, mid-2018 estimate



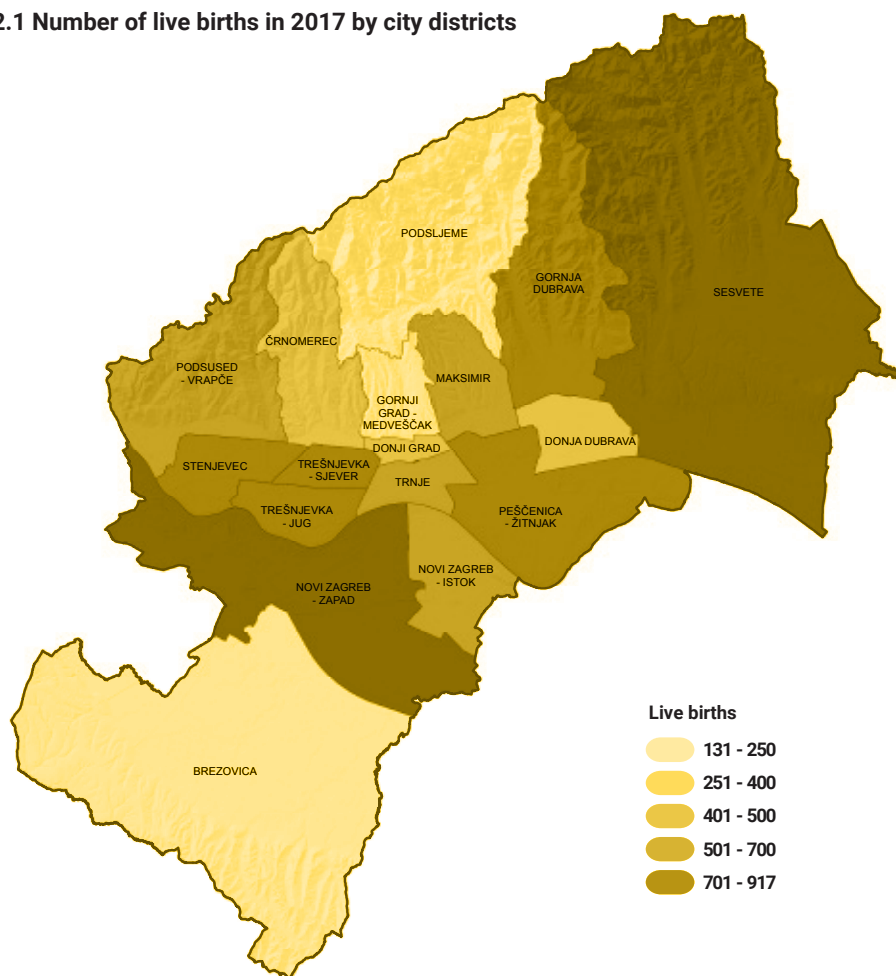
Source: City Office for the Strategic Planning and Development of the City - Department of Statistics

2.23 Natural change in population

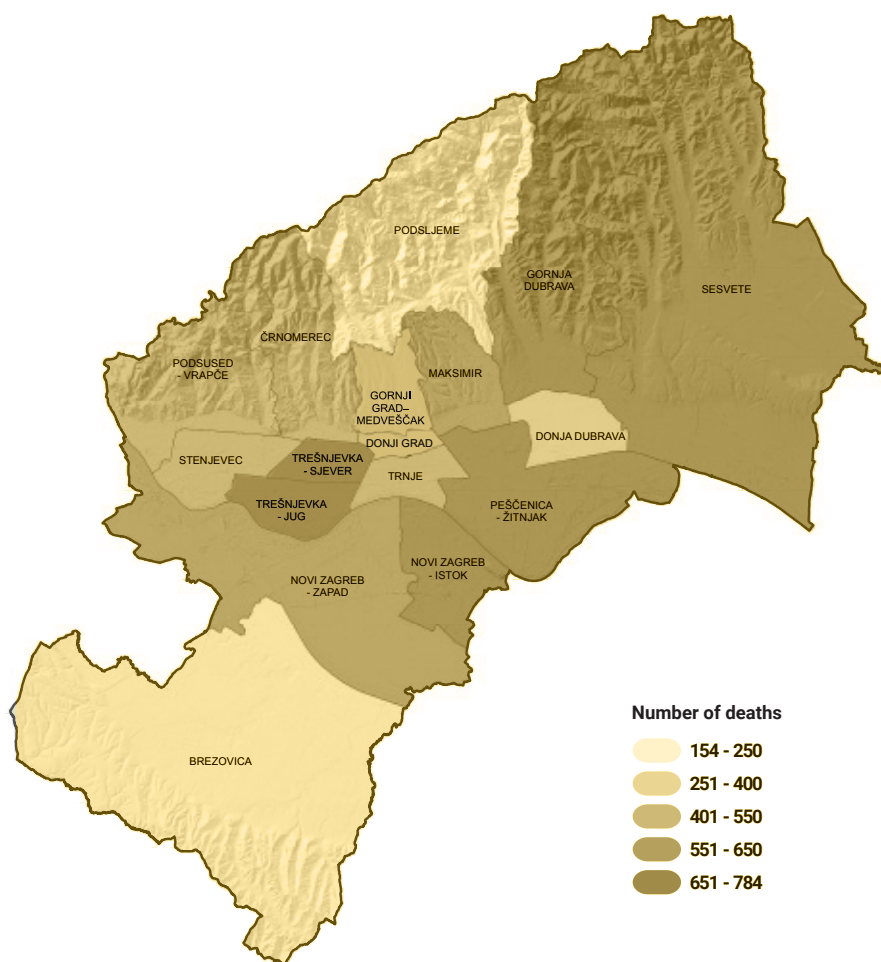
	Live births	Still-births	Stillbirths per 1,000 live births	Number of deaths		Infant mortality per 1,000 live- births	Natural population increase/decrease	Marriages		
				Total	Of which infants			Concluded	Divorces	Divorces per 1,000 concluded marriages
2014	8 452	25	3.0	8 359	30	3.5	93	3 647	1 680	460.7
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
2018	8 235	34	4.1	9 036	34	4.1	-801	3 886	1 372	353.1

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 city districts



K 2.2 Number of deaths in 2017 by city districts

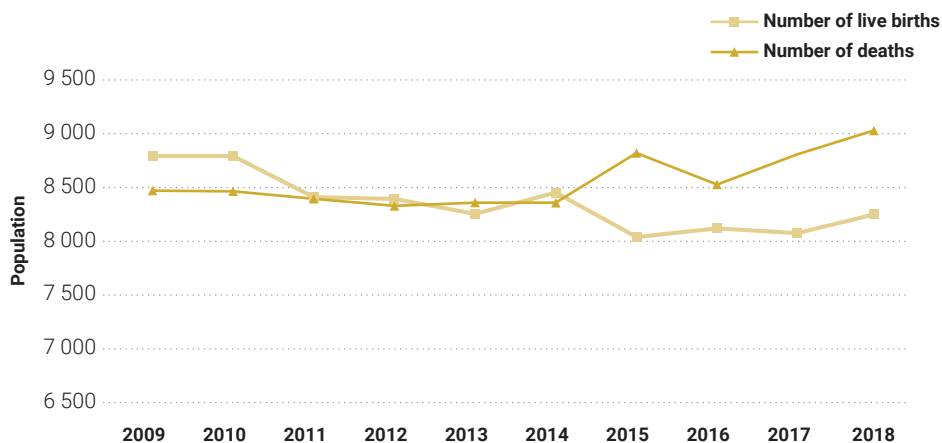


2.24 Rate of natural change in population

	Per 1 000 inhabitants				
	Live births	Deaths	Natural population increase/decrease	Concluded marriages	Divorces
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
2018	10.2	11.2	-1.0	4.8	1.7

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

G 2.12 Natural change in population

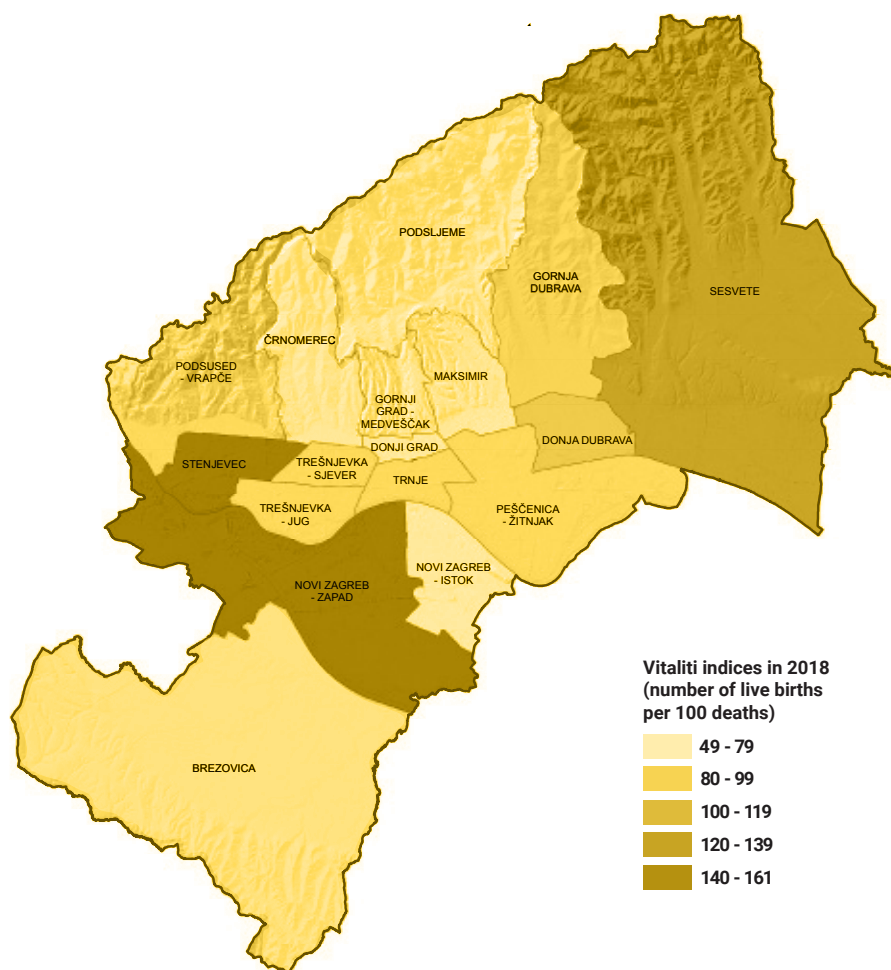


2.25 Live births and stillbirths by sex, marital status of parents, place of birth, and professional assistance

	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								
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
2018	8 235	4 297	3 938	6 691	1 544	8 220	13	2
Stillbirths								
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	-	-
2018	34	20	14	29	5	34	-	-

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

K 2.3 Vital indices in 2018 by city districts



2.26 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													
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
2018	8 235	-	86	2 537	5 177	435	-	3 702	2 871	1 193	290	162	17

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

(Continued)

		Age of mother						Birth order					
	Total	Less than 15 years	15 – 19	20 – 29	30 – 39	40 years and more	Unknown	First	Second	Third	Fourth	Fifth and over	Unknown
Stillbirths													
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
2018	34	-	-	10	23	1	-	21	10	2	-	-	1

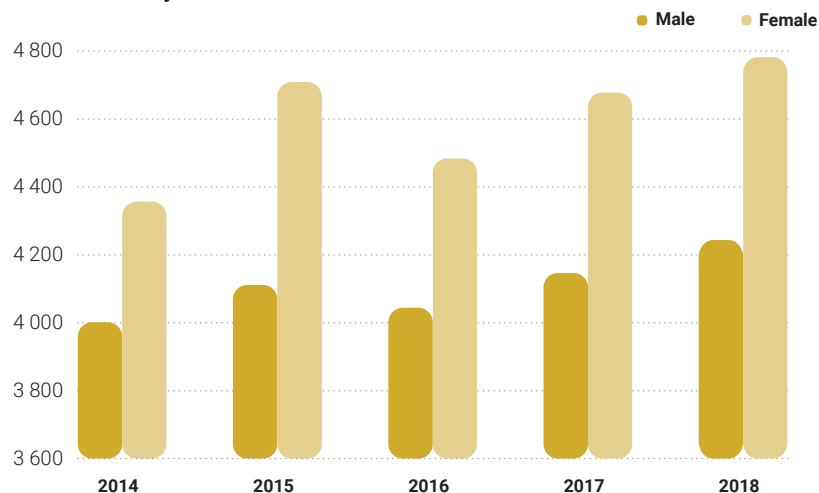
Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.27 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
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	-
2018	Male	4 273	25	1	1	4	9	25	47	119	331	812	2 899	-
	Female	4 763	9	2	1	-	6	7	31	64	197	486	3 960	

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

G 2.13 Deaths by sex



2.28 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
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	-
2018														
Total	9 036	4 586	28	1 987	2 149	286	8 738	196	102	7 103	260	859	811	3
Male	4 273	2 280	17	673	1 114	189	4 072	128	73	3 275	104	522	370	2
Female	4 763	2 306	11	1 314	1 035	97	4 666	68	29	3 828	156	337	441	1

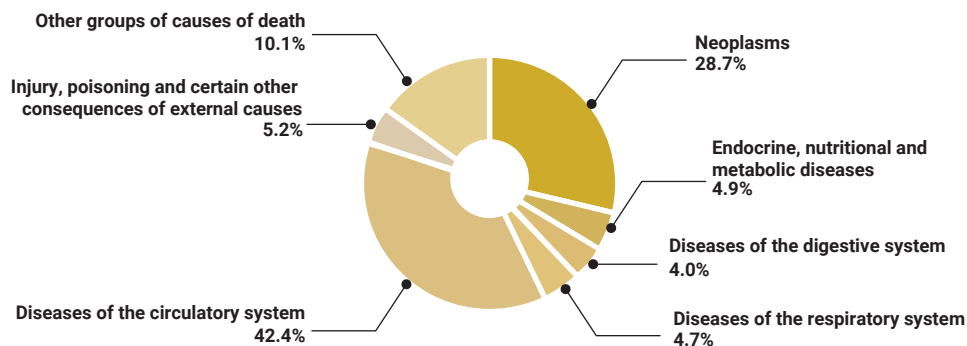
Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.29 Deaths by cause of death

	2014	2015	2016	2017	2018
Total	8 359	8 821	8 528	8 826	9 036
Infectious and parasitic diseases	78	107	121	164	56
Neoplasms	2 540	2 460	2 569	2 520	2 593
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1	5	9	10	9
Endocrine, nutritional and metabolic diseases	211	276	325	343	440
Mental and behavioural disorders	185	212	138	136	172
Diseases of the nervous system	166	190	202	220	268
Diseases of the eye and adnexa	-	-	-	-	-
Diseases of the ear and mastoid process	1	1	-	1	-
Diseases of the circulatory system	3 807	3 948	3 610	3 681	3 830
Diseases of the respiratory system	394	491	470	605	426
Diseases of the digestive system	296	346	293	308	365
Diseases of the skin and subcutaneous tissue	3	3	2	1	-
Diseases of the musculoskeletal system and connective tissue	26	26	22	22	20
Diseases of the genitourinary system	190	248	305	324	296
Pregnancy, childbirth and the puerperium	-	-	-	-	-
Certain conditions originating in the perinatal period	17	17	14	14	24
Congenital malformations, deformations and chromosomal abnormalities	18	14	18	16	13
Symptoms, signs, and abnormal clinical and laboratory findings not elsewhere classified	59	72	43	78	52
Injury, poisoning and certain other consequences of external causes	367	405	387	383	472

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

G 2.14 Deaths, by groups of causes of death, 2018



2.30 Violent deaths

	Total number of violent deaths		Accidental deaths		Murders		Suicides		Consequences of war injuries		Unknown, unsolved violent deaths	
	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
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
2018	472	201	346	157	4	2	101	36	-	-	21	6

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

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

	2014	2015	2016	2017	2018
Total violent deaths	367	405	387	383	472
By age of the deceased					
Less than 1 year	-	-	1	1	1
1 – 4	2	1	1	-	-
5 – 9	1	-	-	2	-
10 – 14	-	2	-	-	1
15 – 19	6	6	3	5	8
20 – 24	5	7	8	6	10
25 – 29	6	6	8	7	8
30 – 34	14	18	13	18	10
35 – 39	22	27	16	22	20
40 – 44	18	19	11	17	19
45 – 49	13	25	13	14	16
50 – 54	22	17	23	22	20
55 – 59	26	25	26	30	37
60 – 64	34	19	26	22	31
65 – 69	19	23	27	30	38
70 – 74	18	28	29	24	28
75 – 79	38	39	32	41	46
80 years and more	123	143	150	122	179
Unknown age	-	-	-	-	-
By month of death					
January	26	40	44	25	40
February	21	44	28	26	43
March	34	43	20	30	44
April	29	25	39	26	26
May	34	24	20	34	39
June	29	28	37	29	36

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

(Continued)

	2014	2015	2016	2017	2018
July	37	34	32	30	41
August	31	37	33	42	48
September	36	35	44	35	44
October	45	27	38	40	42
November	17	29	27	32	28
December	28	39	25	34	41
Share of violent deaths in the total number of deaths, %	4.4	4.6	4.5	4.3	5.2

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

2.32 Suicides by age of the deceased

	2014	2015	2016	2017	2018
Suicides – total	95	115	104	93	101
Age of the deceased					
up to 14 years	-	1	-	-	1
15 – 24	8	10	7	2	9
25 – 39	18	24	11	17	14
40 – 54	22	24	19	17	21
55 – 69	24	27	37	29	34
70 years and more	23	29	30	28	22
Unknown age	-	-	-	-	-
Suicide rate in total number of deaths, %	1.14	1.30	1.22	1.05	1.12
Suicide in the total number of violent deaths, %	25.90	28.40	26.87	24.28	21.40

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

2.33 Deaths in traffic accidents by age

	2014	2015	2016	2017	2018
Total deaths	48	30	32	39	42
Of which women	13	10	6	10	16
Age of the deceased					
0 – 4	-	-	-	-	-
5 – 9	1	-	-	1	-
10 – 14	-	1	-	-	-
15 – 19	-	-	1	2	2
20 – 24	2	-	1	3	3
25 – 29	1	-	1	1	4
30 – 34	4	1	4	2	2
35 – 39	3	2	2	4	1
40 – 44	2	4	1	5	-
45 – 49	4	3	1	4	1

2.33 Deaths in traffic accidents by age

(Continued)

	2014	2015	2016	2017	2018
50 – 54	2	2	6	1	1
55 – 59	4	4	2	3	3
60 – 64	6	1	2	1	5
65 – 69	2	2	2	2	3
70 – 74	3	1	4	3	3
75 – 79	2	5	1	4	2
80 years and more	12	4	4	3	12
Unknown age	-	-	-	-	-
Share of deaths in traffic accidents in the total number of the deceased, %	0.57	0.34	0.38	0.44	0.46
Share of deaths in traffic accidents in the total number of violent deaths, %	13.08	7.41	8.27	10.18	8.90

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

2.34 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												
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	-
2018	3 886	55	502	1 420	1 022	410	185	105	77	50	60	-
Grooms												
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	-
2018	3 886	16	273	1 053	1 179	655	269	153	107	58	123	-

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

2.35 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
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
2018	3 886	3 449	437	3 410	476	3 449	32	405	3 410	37	439

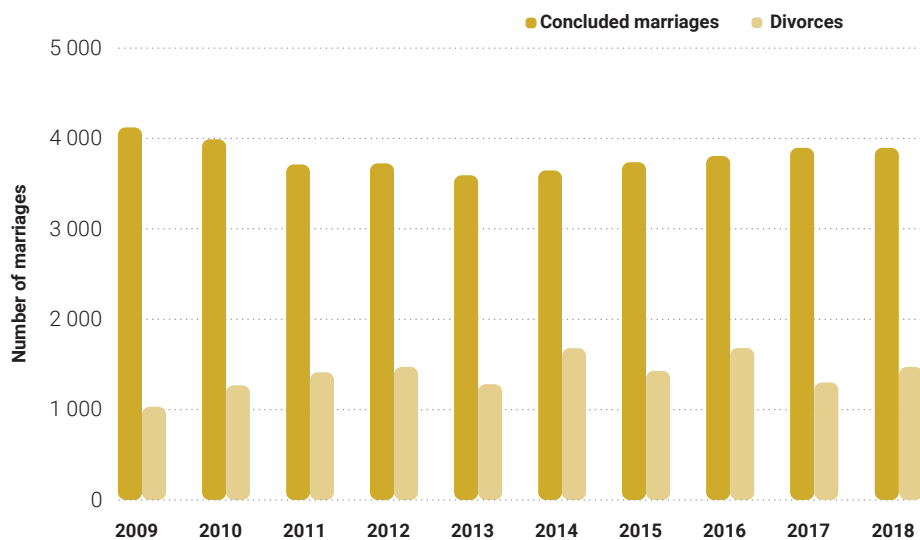
Source: CBS; processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

2.36 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
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
2018	3 886	5	3	34	372	1 232	1 764	476	3	-	25	550	1 363	1 453	492

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

G 2.15 Concluded marriages and divorces



2.37 Divorces

	2014	2015	2016	2017	2018
Divorces – total	1 680	1 428	1 682	1 298	1372
By husband's age					
up to 19	-	-	1	-	-
20 – 24	12	10	14	8	12
25 – 29	94	76	75	46	68
30 – 39	515	464	542	406	421
40 – 49	554	463	611	467	478
50 – 59	341	279	320	257	276
60 years and more	164	136	119	114	117
unknown	-	-	-	-	-
By wife's age					
up to 19	1	-	1	2	-
20 – 24	32	27	29	15	24
25 – 29	145	120	136	92	113
30 – 39	585	552	631	505	503
40 – 49	533	443	587	420	440
50 – 59	277	202	220	196	212
60 years and more	103	84	78	68	80
unknown	4	-	-	-	-
By duration of marriage					
up to 1 year	14	11	15	14	26
1 – 4	295	250	245	202	225
5 – 9	356	334	404	313	327
10 – 14	275	249	313	236	230
15 – 19	227	207	254	183	176
20 years and more	513	377	451	350	388
By number of dependent children born during the divorce procedure					
0	760	615	665	508	621
1	522	442	548	426	439
2	338	283	395	298	260
3 and over	60	88	74	66	52
unknown	-	-	-	-	-
By dependent children born to married parents currently undergoing divorce procedure, in cases of granted child custody					
no dependent children	760	615	665	508	621
custody granted to the husband	64	59	77	63	62
custody granted to the wife	822	722	896	691	651
custody granted to the husband and the wife	32	32	43	34	33
custody granted to other persons, institutions, and other	2	-	1	2	5

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

MIGRATION OF POPULATION

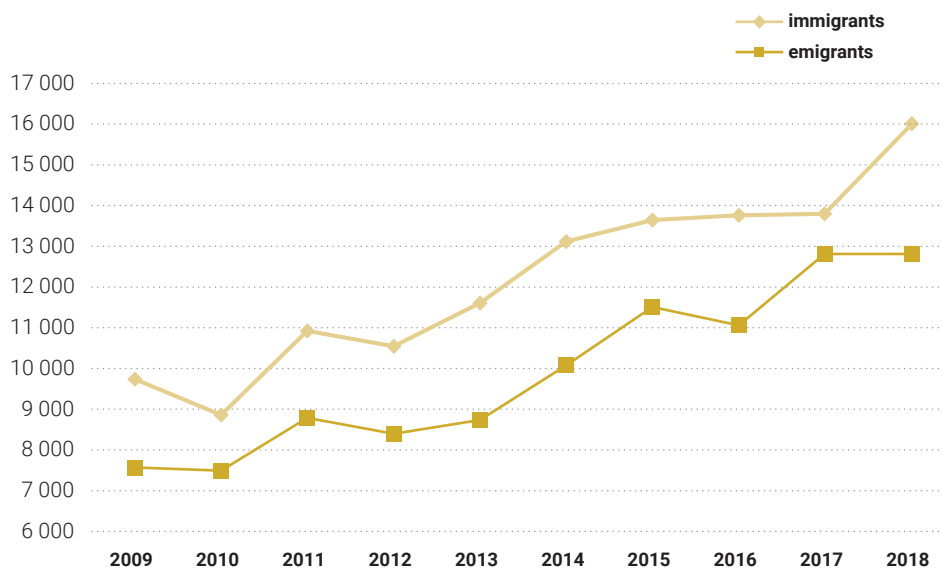
2.38 Immigrants and emigrants

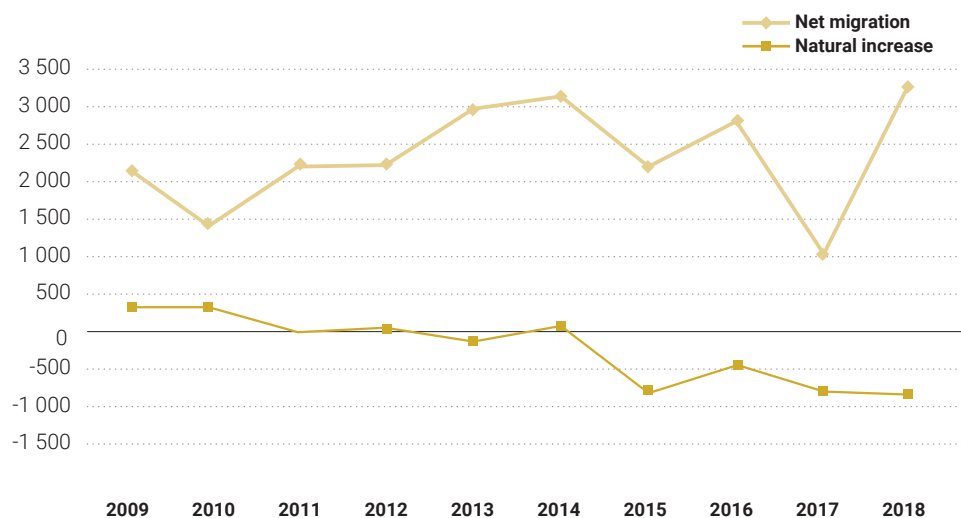
	2014	2015	2016	2017	2018
Immigrants – total	13 116	13 644	13 765	13 758	16 004
From other counties	10 376	10 886	10 435	10 043	9 606
From abroad	2 740	2 758	3 330	3 715	6 398
Emigrants – total	10 076	11 512	11 059	12 755	12 762
To other counties	6 955	6 466	6 183	5 941	6 193
Abroad	3 121	5 046	4 876	6 814	6 569
Net migration rate	3 040	2 132	2 706	1 003	3 242
Net migration between counties	3 421	4 420	4 252	4 102	3 413
Net migration to foreign countries	-381	-2 288	-1 546	-3 099	-171
Moved from another settlement ¹⁾	2 945	2 869	2 727	2 495	2 783
Moved to another settlement ¹⁾	2 945	2 869	2 727	2 495	2 783

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 2.16 Immigrants and emigrants



G 2.17 Natural increase and net migration of population, 2009 - 2018**2.39 Immigrants from foreign countries to the City of Zagreb according to country, age and sex, 2018**

		Total	Bosnia and Herzegovina	Serbia	Kosovo	Germany	Albania	North Macedonia ¹⁾	Ukraine	USA	China	Syria	Other countries	Unknown
	Total	6 398	2 669	643	594	375	268	192	108	96	85	75	1 073	220
	Women	1 495	503	79	67	150	4	37	18	43	27	23	437	107
0-4	Total	145	48	2	6	16	-	1	1	3	3	3	45	17
	Women	74	27	2	2	7	-	1	-	2	-	1	28	4
5-9	Total	121	32	-	10	10	-	2	3	-	1	3	49	11
	Women	49	12	-	5	4	-	2	2	-	-	2	18	4
10-14	Total	93	31	-	13	3	-	2	1	2	1	6	24	10
	Women	40	17	-	7	-	-	1	1	-	-	3	7	4
15-19	Total	296	136	11	52	10	5	7	1	7	6	2	37	22
	Women	82	37	4	8	4	-	-	1	2	1	1	12	12
20-24	Total	968	497	76	126	18	34	30	12	14	22	21	83	35
	Women	226	111	10	11	9	1	10	2	5	8	4	30	25
25-29	Total	997	442	80	118	39	46	24	14	5	16	14	174	25
	Women	254	104	12	9	21	1	6	1	4	9	3	72	12
30-34	Total	922	342	84	106	45	42	29	19	13	13	5	199	25
	Women	194	51	12	9	12	-	8	3	5	1	-	80	13
35-39	Total	790	317	95	58	41	38	24	21	12	8	6	141	29
	Women	163	38	9	2	18	1	4	3	5	2	1	64	16
40-44	Total	641	257	97	48	39	37	28	8	4	9	5	92	17

2.39 Immigrants from foreign countries to the City of Zagreb according to country, age and sex, 2018

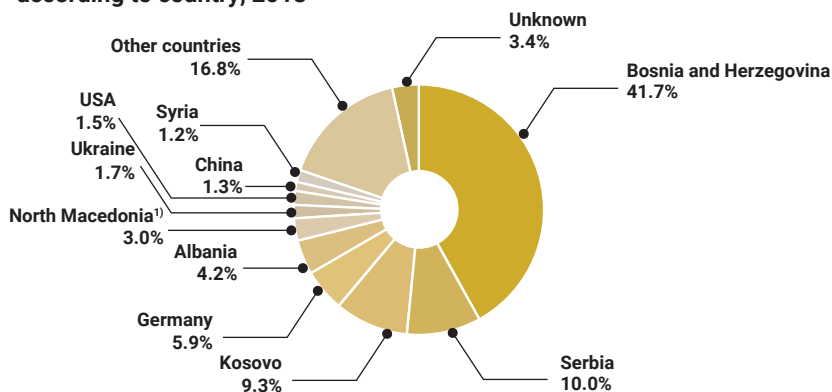
(Continued)

		Total	Bosnia and Herzegovina	Serbia	Kosovo	Germany	Albania	North Macedonia ¹⁾	Ukraine	USA	China	Syria	Other countries	Unknown
	Women	106	24	9	5	12	-	2	-	3	4	4	39	4
45-49	Total	480	198	67	28	37	29	15	15	5	3	2	69	12
	Women	72	13	7	3	13	-	1	3	3	1	-	23	5
50-54	Total	387	176	63	15	27	22	14	5	10	2	3	44	6
	Women	63	18	5	2	9	1	1	1	5	-	1	17	3
55-59	Total	236	110	37	7	9	13	11	4	2	-	1	38	4
	Women	49	16	5	1	3	-	1	1	1	-	1	17	3
60-64	Total	142	36	24	6	17	1	5	3	7	1	3	38	1
	Women	40	7	-	3	12	-	-	-	4	1	1	12	-
65-69	Total	95	23	4	1	37	1	-	1	7	-	-	19	2
	Women	44	11	1	-	19	-	-	-	3	-	-	9	1
70-74	Total	40	9	2	-	14	-	-	-	4	-	-	11	-
	Women	17	6	2	-	3	-	-	-	1	-	-	5	-
75 and more	Total	45	15	1	-	13	-	-	-	1	-	1	10	4
	Women	22	11	1	-	4	-	-	-	-	-	1	4	1

¹⁾ Since February 15, 2019, the Republic of Croatia uses "The Republic of North Macedonia" in all types of formal correspondence.

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

G 2.18 Immigrants from foreign countries to the City of Zagreb according to country, 2018

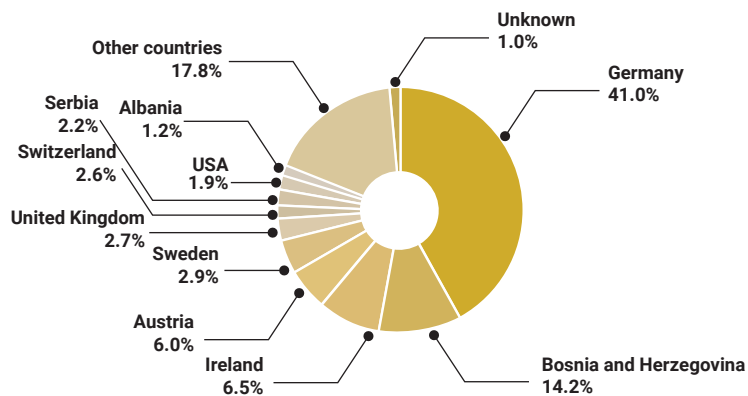


2.40 Emigrants from the City of Zagreb to foreign countries according to country, age and sex, 2018

		Total	Germany	Bosnia and Herzegovina	Ireland	Austria	Sweden	United Kingdom	Switzerland	Serbia	USA	Albania	Other countries	Unknown
	Total	6 569	2 693	930	427	394	193	180	173	147	128	82	1 171	51
	Women	2 964	1 198	354	198	197	89	90	97	76	70	-	571	24
0-4	Total	247	132	6	28	13	12	6	3	5	2	-	36	4
	Women	124	73	1	14	3	4	3	-	4	2	-	17	3
5-9	Total	384	181	41	34	24	14	13	5	4	6	-	54	8
	Women	193	102	14	17	9	8	6	4	4	2	-	22	5
10-14	Total	318	123	82	19	28	10	2	12	2	5	1	30	4
	Women	150	58	34	8	15	5	1	7	1	2	-	15	4
15-19	Total	338	114	113	7	22	7	10	3	5	8	1	43	5
	Women	161	52	58	4	9	2	5	1	2	6	-	20	2
20-24	Total	591	239	122	45	26	10	15	13	10	11	9	88	3
	Women	246	105	44	21	14	3	8	6	5	1	-	39	-
25-29	Total	919	360	90	59	62	38	35	32	11	14	7	211	-
	Women	450	181	27	25	36	19	19	21	5	6	-	111	-
30-34	Total	857	351	66	70	47	25	26	23	14	12	25	193	5
	Women	389	160	17	33	27	10	10	11	9	6	-	105	1
35-39	Total	789	286	73	80	42	43	30	12	21	16	10	174	2
	Women	335	106	18	38	24	23	18	5	7	11	-	83	2
40-44	Total	647	286	75	43	45	17	18	10	16	10	9	112	6
	Women	292	114	31	23	25	8	10	9	8	8	-	54	2
45-49	Total	527	247	59	20	36	6	14	17	16	10	8	89	5
	Women	216	97	20	7	12	3	5	12	6	8	-	44	2
50-54	Total	374	163	76	15	20	5	7	12	10	5	9	51	1
	Women	152	65	36	8	7	1	4	4	5	2	-	20	-
55-59	Total	230	102	52	6	14	3	3	9	8	3	2	25	3
	Women	87	39	13	-	10	2	-	7	4	1	-	9	2
60-64	Total	147	45	29	1	10	2	1	9	9	10	1	28	2
	Women	63	17	14	-	5	-	1	4	5	5	-	12	-
65-69	Total	89	33	14	-	2	1	-	5	4	10	-	17	3
	Women	45	17	5	-	1	1	-	2	3	6	-	9	1
70-74	Total	57	20	11	-	3	-	-	3	5	6	-	9	-
	Women	30	10	7	-	-	-	-	1	3	4	-	5	-
75 and more	Total	55	11	21	-	-	-	-	5	7	-	-	11	-
	Women	31	2	15	-	-	-	-	3	5	-	-	6	-

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

G 2.19 Emigrants from the City of Zagreb to foreign countries according to country, 2018



In 2018, the total number of health workers and associates equalled 22 369, representing a 3.3% growth in comparison to 2017, out of which 17 740 were women, i.e. 79.3% of the total number of health workers and associates.

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.

The collection of health care statistics is regulated by the Healthcare Act (Official Gazette No 150/08, in force since 1 January 2009), Official Statistics Act (Official Gazette Nos 103/03, 75/09, 59/12 and 12/13), Ordinance on the Implementation of the Act on Health Records in Primary and Specialist-Conciliar Health Care (Official Gazette No 4/95), Ordinance on the Implementation of the Act on Health Records in Stationary Health Care and Monitoring of Addiction Disease (Official Gazette No 44/00), Programme of Statistical Activities and Yearly Plan of Implementation of Statistical Activities of the Republic of Croatia. In accordance with the aforementioned acts, all health care institutions and health care workers are obliged to submit the necessary data regardless of the type of ownership and whether the institution is a partner of the Croatian Health Insurance Fund.

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.

Since 2011, emergency medical aid has been organised in accordance with the Emergency Medicine Network (Official Gazette Nos 71/12 and 49/16) as the independent Croatian Institute of Emergency Medicine. At the proposal of the Croatian Institute of Emergency Medicine and in accordance with the Health Care Act, the structure of the Emergency Medicine Network is adopted by the Minister of Health, who also adopts the ordinances which regulate the conditions, organisation and manner of carrying out the activity of emergency medicine which is a health care institute of special importance for the Republic of Croatia, and ordinances on minimum conditions in relation to space, workers and medical technical equipment which emergency medicine health care institutions have to satisfy.

Act on Maternity and Parental Benefits (OG 85/08, 110/08, 34/11, 54/13, 152/14 and 59/17) 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 and 26/93). 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, 22/14 and 130/17) 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 aid is a public medical emergency service organised according to expert medical doctrine and by using medical technology in order for the provision of uninterrupted emergency medical aid to all persons whose life is in danger due to illness, accident or injury, i.e. to all persons who could soon find themselves in life danger, with the aim of maximum shortening of the time between the occurrence of emergency and the provision of medical care.

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.

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

Special hospital is a health care institution specialised for a branch of medical activity, which can provide residential and outpatient health care and rehabilitation services (with or without beds).

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 ²⁾		
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
2018	1 120 158	986 552	459 081	274 023	94 712	158 736	131 603	2 003

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

²⁾ 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 Duration of leave of absence – incapacity for work¹⁾

	2014	2015	2016	2017	2018
Number of days, total - in thousands	5 328	5 834	6 054	6 368	6 734
Number of days per one active beneficiary	12	14	14	14	15
Cause of incapacity for work					
Disease					
Number of days, thousands	3 336	3 809	4 004	4 334	4 714
Per one active beneficiary	8	9	9	10	10
Occupational accidents and diseases					
Number of days, thousands	323	366	363	330	341
Per one active beneficiary	1	1	1	1	1
Family member care, isolation, and escort					
Number of days, thousands	241	290	284	292	318
Per one active beneficiary	1	1	1	1	1
Pregnancy and compulsory maternity leave					
Number of days, thousands	823	788	808	795	707
Per one active beneficiary	2	2	2	2	2
Pregnancy complications					
Number of days, thousands	605	581	595	617	654
Per one active beneficiary	1	1	1	1	1

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

	2014	2015	2016	2017	2018
Institutes of Public Health	2	2	2	2	2
Hospitals	17	18	18*	18*	18
Outpatient polyclinics (independent health care institutions)	158	168	167	167	173
Health centres	4	4	4	4	4
Nursing institutions	32	34	40	40	39
Other health institutions	9	9	8	8	9
Companies providing health care services	174	185	210	238	254

Source: Croatian Institute of Public Health

3.4 Health workers and associates

	2015	2016	2017	2018
Total	20 831	21 390	21 663	22 369
Medical doctors - total	4 636	4 680	4 840	4 942
Specialists	3 367	3 328	3 403	3 468
Medical doctors	1 269	1 352	1 437	1 474
Doctors of dental medicine	1 097	1 089	1 121	1 151
Pharmacists	796	816	779	814
Medical biochemists	202	204	195	217
Other health workers and associates by professional qualifications – total	14 100	14 601	14 728	15 245
Higher education	748	760	786	872
Post-secondary education	4 106	4 220	4 395	4 840
Secondary education	9 115	9 481	9 394	9 248
Primary education	131	140	153	285

Source: Croatian Institute of Public Health

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

	2015		2016		2017		2018	
	Total	Women	Total	Women	Total	Women	Total	Women
Health workers and associates – total	20 831	16 660	21 390	17 076	21 663	17 275	22 369	17 740
Higher education	7 479	5 133	7 549	5 197	7 721	5 354	7 996	5 582
Health workers	7 139	4 854	7 209	4 915	7 383	5 068	7 632	5 278
Medical doctors – total	4 636	2 832	4 680	2 875	4 840	3 007	4 942	3 086
Specialists	3 367	1 966	3 328	1 952	3 403	2 025	3 468	2 075
Medical doctors without specialty	300	228	319	248	317	245	313	242
Specialty trainees	762	501	830	538	889	580	918	609
Interns	207	137	203	137	231	157	243	160
Doctors of dental medicine	1 097	733	1 089	725	1 121	760	1 151	785
Pharmacists	796	739	816	755	779	724	814	756
Medical biochemists	202	188	204	189	195	180	217	197
Other health workers with higher education degrees ¹⁾	408	362	420	371	448	397	508	454
Health associates	340	279	340	282	338	286	364	304
Post-secondary education	4 106	3 459	4 220	3 538	4 395	3 669	4 840	3 998
Health workers	4 082	3 441	4 200	3 523	4 373	3 654	4 815	3 980
Nurses	2 170	2 010	2 230	2 050	2 343	2 151	2 620	2 374
Dentists	-	-	-	-	-	-	-	-
Medical laboratory technicians	493	449	506	461	531	487	556	505
Sanitary technicians	71	54	74	55	77	58	79	59
Physiotherapists	735	584	764	612	786	607	866	651
Radiology technicians	511	256	513	244	535	263	578	293
Pharmaceutical technicians	-	-	-	-	-	-	-	-
Dental Technicians	26	21	26	21	25	20	26	21
Work Therapists	76	67	87	80	76	68	90	77
Health associates	24	18	20	15	22	15	25	18
Secondary education	9 115	7 976	9 481	8 242	9 394	8 138	9 248	7 953
Health workers	9 020	7 898	9 318	8 099	9 307	8 068	9 165	7 888
Nurses	7 203	6 337	7 502	6 554	7 385	6 423	7 138	6 168
Laboratory technicians	688	610	705	620	695	615	711	623
Sanitary technicians	63	43	59	39	59	40	68	47
Physiotherapeutic technicians	170	138	157	125	144	108	144	102
Radiology technicians	1	1	-	-	-	-	-	-
Pharmaceutical technicians	504	489	523	501	543	515	569	535
Dental technicians	381	273	359	250	371	264	388	275
Dental assistant	-	-	-	-	98	94	139	131
Work therapy technicians	3	2	5	4	5	4	3	3
Child care worker	-	-	-	-	-	-	-	-
Wellness masseuse	7	5	8	6	7	5	5	4
Health associates	95	78	163	143	87	70	83	65
Primary education	131	92	140	99	153	114	285	207
Health workers	11	4	11	4	31	23	54	42
Child caregivers	2	2	1	1	1	1	1	1
Paramedics	9	2	10	3	29	21	52	40
Dental assistants	-	-	-	-	1	1	1	1
Health associates	120	88	129	95	122	91	231	165

¹⁾ Graduated nurses, physiotherapists, sanitary technicians.

3.6 Doctors by type of specialty

Type of specialty	2016		2017		2018	
	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾
Total	3 328	830	3 403	889	3 468	918
General medicine	72	-	66	-	63	-
Internal medicine	494	33	515	5	509	2
Cardiology	2	22	2	25	7	29
Pulmonology	-	18	-	20	3	22
Gastroenterology	-	14	-	19	6	22
Nephrology	-	12	-	20	5	20
Haematology	-	14	-	22	6	20
Laboratory Immunology	2	2	1	2	1	2
Endocrinology and diabetology	-	12	-	15	1	16
Internist oncology	-	12	-	17	4	15
Allergology and clinical immunology	-	4	-	6	1	5
Pneumophysiology	25	-	21	-	21	-
Infectiology	36	16	41	14	44	14
Paediatric infectiology	5	5	3	7	3	8
Neurology	117	29	124	32	123	28
Psychiatry	228	43	233	39	238	40
Child and adolescent psychiatry	-	5	-	6	1	5
Neuropsychiatry	6	-	7	-	5	-
Dermatology and venerology	68	12	71	12	73	9
Paediatrics	231	45	238	60	234	79
General surgery	247	14	231	8	242	4
Cardiothoracic surgery	-	4	-	6	3	7
Vascular surgery	-	4	-	8	1	9
Abdominal surgery	-	19	-	23	1	29
Neurosurgery	35	14	41	12	38	14
Child surgery	20	10	21	8	24	8
Maxillofacial surgery	14	3	13	4	15	4
Plastic and reconstructive surgery	1	3	1	3	3	2
Urology	55	13	54	13	58	12
Orthopaedics	46	3	50	-	43	-
Orthopaedics and traumatology	-	15	13	24	6	24
Otorhinolaryngology	91	17	89	20	88	18
Ophthalmology	124	7	129	1	128	-
Ophthalmology and optometry	1	24	4	27	9	31
Obstetrics and gynaecology	217	29	226	31	224	37
Anaesthesiology and reanimation	86	-	75	-	58	-

3.6 Doctors by type of specialty

(Continued)

Type of specialty	2016		2017		2018	
	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾	Specialists	Specialty trainees ¹⁾
Transfusiology	38	6	36	6	36	9
Radiology	171	8	183	-	174	-
Clinical radiology	-	35	-	45	8	49
Radiotherapy and oncology	42	20	44	17	47	14
Nuclear medicine	32	12	32	10	31	9
Physical medicine and rehabilitation	91	8	92	10	93	11
Occupational medicine	51	-	49	-	46	-
School medicine	40	-	40	-	39	-
Social medicine with health care organisation	6	-	5	-	4	-
Epidemiology	44	6	42	10	44	8
Medical microbiology and parasitology	71	3	74	-	72	-
Pathological anatomy	58	2	56	-	53	-
Pathology	-	6	-	12	2	13
Medical cytology	19	-	19	-	18	-
Clinical pharmacology	12	-	10	-	9	-
Public health	9	5	8	7	9	6
Family medicine	182	30	185	47	189	57
Clinical cytology	32	4	36	-	37	-
Anaesthesiology, reanimation and intensive care	147	122	159	126	187	127
Clinical pharmacology and toxicology	-	4	2	3	2	3
Occupational and sports medicine	25	10	27	11	28	11
Naval medicine	1	-	1	-	1	-
Emergency medicine	33	45	34	47	43	37
Clinical microbiology	-	4	-	6	2	6
General internal medicine	1	16	-	15	2	12
Rheumatology	-	3	-	3	1	6
Laboratory medicine	-	-	-	-	2	-
School and adolescent medicine	-	4	-	5	-	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

	2014	2015	2016	2017	2018
Number of health centres	4	4	4	4	4
Number of teams in health institutions – total	429	435	439	488	458
Doctor's offices under contract with the Croatian Health Insurance Fund	231	234	227	260	214
Doctor's offices without an agreement with the Croatian Health Insurance Fund	12	11	14	14	28
Doctor's offices in health centres	186	190	198	214	216
Health workers					
General medicine practitioners	196	176	201	251	225
General medicine specialists and other specialists	237	265	244	237	233
Other health workers	423	434	449	437	437
Visits – total	6 196 050	6 477 841	7 128 280	7 003 886	7 146 495
Of which: at the doctor's office	6 153 782	6 439 160	7 086 701	6 961 031	7 103 026
home visits	42 338	38 681	41 579	42 855	43 469
Exams – total	2 117 938	2 236 625	2 199 923	2 059 944	2 003 164
Of which: at the doctor's office	2 084 804	2 198 066	2 159 787	2 018 710	1 960 035
home visits	33 134	38 599	40 136	41 234	43 129

Source: Andrija Štampar Teaching Institute of Public Health

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

	2014	2015	2016	2017	2018
Primary health care for infants and preschool children					
Teams	61	60	60	59	60
Doctors: specialists and paediatricians	61	60	60	59	60
Other health workers	61	60	60	59	60
Visits – total	626 867	663 295	547 425	488 884	561 562
At the doctor's office	626 655	663 235	547 360	488 856	561 553
Home visits	212	60	65	28	9
Examinations – total	372 606	317 650	295 615	257 821	295 552
At the doctor's office	372 395	317 590	295 550	257 793	295 543
Home visits	211	60	65	28	9
Primary health protection of women					
Teams	61	59	63	61	62
Doctors specialists	60	59	63	61	62
Other health workers	59	56	60	58	62
Preventive examinations	85 772	110 547	129 320	121 978	121 023
Visits and examinations at the doctor's office					
Visits	332 772	406 961	424 705	421 177	418 968
Examinations	203 292	233 140	243 486	241 452	217 553
Pregnant women's visits to counselling centres					
Total	39 327	63 868	41 549	40 378	44 276
Pathological conditions in pregnancy	15 407	12 529	11 860	11 449	6 527

Source: Andrija Štampar Teaching Institute of Public Health

3.9 Counselling centres for family planning – primary health care

	2014	2015	2016	2017	2018
Number of visits	19 420	23 826	25 346	26 412	18 048
Number of first-time visits	7 098	9 421	9 874	9 952	8 139
Number of prescribed contraceptives	24 002	22 984	25 030	26 142	21 936

Source: Andrija Štampar Teaching Institute of Public Health

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

	2014	2015	2016	2017	2018
Teams	541	549	492	532	524
Health workers					
Dentists	534	523	473	515	511
Dental specialists	20	26	19	17	13
Dental technicians / dental assistants	458	470	453	456	467
Number of examinations	1 149 674	871 265	876 480	856 116	862 523
Number of full physical examinations	169 557	252 135	221 175	227 316	262 685

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	
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
2018	87 305	75 722	11 583	129 012	124 930	4 082	420

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 2018

	Number of services per day								Average
	Mon, Wed, Fri.	Tue, Thu.	Saturday	Sunday	Holiday (Mon, Wed, Fri.)	Holiday (Tue, Thu.)	Holiday (Sat.)	Holiday (Sun.)	
Number of days	150	100	51	50	7	4	1	2	365
Emergency medical care	242	239	234	240	229	213	257	206	239
Team 1 ¹⁾	183	182	178	182	168	164	193	115	181
Emergency ward	26	24	27	31	32	22	35	28	26
Team 2 ¹⁾	33	33	29	27	29	27	29	23	32
Medical transport	421	453	301	38	255	270	338	33	353
In the City of Zagreb	405	435	301	38	255	270	338	33	342
Dialysis	205	235	242	-	203	228	253	-	190
Other transports	200	200	59	38	52	42	85	33	152
Outside of the City of Zagreb	16	18	0	0	-	-	-	-	11

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			
			Doctors specialists	Other		Total	First	
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
2018	6	63	6	50	13	25 024	9 343	333 992

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⁾				
	2014	2015	2016	2017	2018
Internal	409 836	492 645	481 057	512 255	502 934
Surgery	154 486	493 353	310 513	310 371	326 825
Urology	79 968	106 542	100 962	124 421	131 333
Neurology	99 099	142 976	107 259	142 674	150 640
Psychiatry	172 171	269 712	224 750	263 071	265 010
Paediatrics	151 152	173 158	148 320	190 464	180 892
Gynaecology and maternity	204 344	256 540	214 785	285 422	304 549
Dermatovenerology	153 421	208 495	153 752	206 357	188 270
Otorhinolaryngology	152 000	195 236	182 924	204 707	220 304
Ophthalmology	298 290	381 780	353 983	384 146	401 694
Infectiology	49 525	56 723	52 051	53 726	57 118
Orthopaedics	74 117	95 242	89 206	84 156	84 764
Oncology and radiotherapy	97 540	36 406	21 981	27 422	142 530 ²⁾
Physical medicine and rehabilitation	163 932	519 734 ³⁾	243 941	187 216	258 100
Anaesthesiology	28 910	55 219	49 020	64 139	75 747
Maxillofacial surgery	...	32 106	33 557	15 363	16 308
Neurosurgery	17 174	26 939	25 383	28 180	27 725
Nuclear medicine	26 822	172 427	38 590	86 651	83 876
Pulmonology	69 651	117 307	63 541	106 282	184 938
Diabetology	25 559	22 812	28 804	29 434	29 520
Child surgery	56 834	38 905	33 708	8 229	35 541
Cardiology	88 193	118 666	124 136	170 533	174 777

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

²⁾ Data includes the most of health institutions/doctor's offices.

³⁾ Includes physical therapy and rehabilitation.

Source: Croatian Institute of Public Health

3.15 Persons suffering from infectious diseases¹⁾

	2014	2015	2016	2017	2018
Types of infectious diseases					
Dysentery	1	3	-	1	52
Enterocolitis	3 678	3 836	3 583	3 727	3 209
Toxicoinfectio alimentaris	24	37	35	32	77
Salmonellosis	206	230	183	143	130
Campylobacter	169	171	201	299	254
Hepatitis virosa	-	-	-	2 411	1 980
Hepatitis virosa A	2	1	2	11	40
Hepatitis virosa B	21	21	35	26	28
Hepatitis virosa C	31	37	53	41	52
Pertussis	52	14	32	29	87
Morbilli	9	109	4	4	1
Varicellae	3 963	4 959	4 946	3 728	4 157
Herpes zoster	945	1 047	979	962	901
Scarlatina	897	807	1 309	815	684
Angina streptococcica	4 833	3 580	4 977	3 218	3 503
Erysipelas	223	225	200	199	175
Parotitis epidemica	6	3	3	-	-
Meningitis epidemica	6	1	5	9	3
Meningitis purulenta	5	10	8	4	15
Meningitis virosa	36	13	19	9	18
Encephalitis	8	4	3	3	4
Mononucleosis infectiosa	591	663	660	635	657
Pneumonia- Bronchopneumonia	4 887	4 901	2 440	2 238	2 501
Gonorrhoea	4	7	5	15	11
Syphilis	20	8	10	6	7
Scabies	134	163	381	419	451
Pediculosis	380	364	411	417	406
Malaria	-	-	2	5	2
Dengue fever	-	-	3	-	3
Leptospirosis	5	1	-	1	1
Lyme borel.	107	135	141	148	291
Kala-azar	-	-	2	1	-
Toxoplasmosis	1	1	4	-	-
Legionellosis	15	21	13	20	23
Tularemia	-	-	-	2	-
Trichinellosis	-	-	-	1	-
TBC pulmonum	52	57	57	46	56
Febris haemorrhagica	28	2	5	120	2
Chlamidia	30	108	33	30	44
Echinococcosis	1	-	-	1	1
Q-febris	-	1	2	1	-
HIV Carriers	4	4	3	2	1
AIDS	1	-	-	-	-
Febris West Nile	-	-	-	2	3

¹⁾ See Notes on Methodology.

Source: Andrija Štampar Teaching Institute of Public Health

3.16 Hospital services

	2014	2015	2016	2017	2018
Hospitals – total	17*	18*	18*	18*	18
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*	10*	10*	10*	10
Number of beds ¹⁾	6 737	6 516	6 410	6 435	6 300
Number of patients – total	255 842	262 220	264 207	261 779	254 661
Of which: deceased	5 803	6 193	6 181	6 315	6 208
Inpatient days, thousands	2 006	1 982	1 948	1 876	1 797
Health workers and associates – total	...	12 969²⁾	13 343	13 469	14 046
Doctors ³⁾	...	3 141	3 186	3 235	3 358
Other workers by to professional qualifications – total	...	9 828	10 157	10 234	10 688
Higher education ⁴⁾	...	648	637	694	769
Post-secondary education	...	3 060	3 183	3 288	3 698
Secondary education	...	5 995	6 204	6 106	5 942
Primary education	...	125	133	146	279

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

³⁾ The number of doctors also includes specialists – staff from the School of Medicine, staff from the School of Dental Medicine, and specialty trainees.

⁴⁾ Health workers and health associates with higher education degrees. Administrative and technical staff has not been not included.

Source: Croatian Institute of Public Health

3.17 Indicators of hospital services in 2018

	Total	Treatment		Treatment in hospitals	
		Patients suffering from acute diseases	Patients suffering from chronic diseases	University Hospital Centre, clinical hospitals, and clinics	Special hospitals
Number of beds	6 300	5 144	1 156	5 464	836
Number of beds per 1 000 inhabitants	8	7	1	7	1
Number of doctors	2 514	2 458	56	2 395	119
Number of beds per one doctor	3	2	21	2	7
Number of discharged patients	254 661	242 220	12 441	240 613	14 048
Number of hospital treatment days	1 797 164	1 451 455	345 709	1 581 715	215 449
Average length of treatment (average number of days)	7	6	28	7	15
Annual bed occupancy	285	282	299	289	258
% of bed use	78.2	77.3	81.9	79.3	70.6
Number of patients per bed	40	47	11	44	17

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		
	2016	2017	2018	2016	2017	2018
Total	6 410	6 435	6 300	1 948	1 876	1 797
Internal	961	928	932	321	316	314
Pulmonology	183	181	181	59	59	55
Paediatrics	408	410	421	134	125	123
Surgery	715	777	788	209	219	217
Orthopaedics	134	135	136	31	29	31
Urology	132	141	143	43	43	42
Neurosurgery	106	105	105	39	39	37
Oncology	232	232	232	58	65	61
Gynaecology and maternity hospitals	618	603	562	166	150	141
Otorhinolaryngology	175	176	177	50	48	44
Ophthalmology	138	139	132	38	34	27
Neuropsychiatry	-	-	-	-	-	-
Dermatovenerology	63	64	64	16	13	11
Infectious diseases	180	180	214	48	46	55
Jaw surgery	-	-	-	-	-	-
Physical and medical rehabilitation	77	76	76	26	25	25
Nuclear medicine	-	-	-	-	-	-
Plastic surgery ²⁾	53	-	-	12	-	-
Psychiatry ³⁾	364	374	361	114	123	111
Maxillofacial surgery ³⁾	48	60	60	13	13	13
Neurology ³⁾	229	242	242	73	69	69
Child surgery ³⁾	119	122	120	23	21	20
Anaesthesiology, reanimation and intensive care ³⁾	252	239	198	71	68	55
Long-term treatment ³⁾	-	-	-	1	-	-
Chronic mental illness ³⁾	1 081	1 081	986	371	341	313
Chronic paediatric diseases ³⁾	40	40	40	5	5	3
Chronic pulmonary diseases ³⁾	80	100	100	20	17	18
Palliative care ³⁾	22	30	30	7	8	11

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

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

Source: Croatian Institute of Public Health

3.19. Hospital services in 2018

Hospitals	Number of hospitals	Number of beds ^{1), 2)}	Number of patients ¹⁾		In-patient days, thousands ¹⁾	Health workers and associates					
			Total	Deceased		Total	Doctors ³⁾	Other workers by professional qualifications			
								Higher education ⁴⁾	Post-secondary education	Secondary education	Primary education
Total	18	6 300	254 661	6 208	1 797	14 046	3 358	769	3 698	5 942	279
University Hospital Centre	2	2 944	140 833	3 002	845	7 779	1 864	398	2 165	3 160	192
University Hospital Centre Zagreb		1 795	83 569	1 655	488	4 809	1 120	278	1 193	2 040	178
Clinical Hospital Centre Sestre Milosrdnice		1 149	57 264	1 347	357	2 970	744	120	972	1 120	14
Clinical hospitals	3	1 450	67 841	2 399	409	3 671	971	161	889	1 577	73
Clinical Hospital Dubrava		630	27 529	1 192	177	1 653	426	87	407	680	53
Clinical Hospital Sveti Duh		484	21 521	895	142	1 124	288	47	234	555	-
Clinical Hospital Merkur ⁵⁾		336	18 791	312	90	894	257	27	248	342	20
Clinics	3	1 070	31 939	431	328	1 562	298	113	366	779	6
“Dr. Fran Mihaljević” Clinic		214	5 498	294	55	499	84	32	131	246	6
Psychiatric Clinic Vrapče		650	13 985	108	219	483	81	46	83	273	-
Clinic for Paediatric Disease		206	12 456	29	54	580	133	35	152	260	-
Special hospitals ⁶⁾	10	836	14 048	376	215	1 034	225	97	278	426	8
Special Hospital for Pulmonary Diseases		100	1 597	253	18	129	28	4	28	63	6
Specialized Hospital for the Protection of Children with Neurological Development Impairment		60	2 642	-	16	158	11	25	77	44	1
Children’s Hospital “Srebrnjak”		75	3 089	-	8	174	43	21	58	51	1
Psychiatric Hospital “Sveti Ivan”		551	5 577	123	162	279	55	31	50	143	-
Special Hospital for Children and Youth Psychiatry		37	659	-	9	64	16	11	13	24	-
Special Hospital Podobnik		13	484	-	2	25	5	1	2	17	-
Special Hospital Svjetlost		-	-	-	-	44	25	-	2	17	-
Special Hospital Aksis		-	-	-	-	13	4	-	4	5	-

3.19. Hospital services in 2018

(Continued)

Hospitals	Number of hospitals	Number of beds ^{1), 2)}	Number of patients ¹⁾		In-patient days, thousands ¹⁾	Health workers and associates					
			Total	Deceased		Total	Doctors ³⁾	Other workers by professional qualifications			
								Higher education ⁴⁾	Post-secondary education	Secondary education	Primary education
Special Hospital "Agram"		-	-	-	-	98	30	4	22	42	-
Special Hospital "Arithera"		-	-	-	-	50	8	-	22	20	-

¹⁾ According to the Annual Report on the Work of Hospitals (Form 3-21-60).

²⁾ 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.

³⁾ The number of doctors also includes specialists – staff from the School of Medicine, staff from the School of Dental Medicine, and specialty trainees.

⁴⁾ Health workers and health associates with higher education degrees. Administrative and technical staff has not been included.

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

⁶⁾ See Notes on Methodology.

Source: Croatian Institute of Public Health

3.20 Hospitalisation of patients by disease groups¹⁾

Disease group	Total number of admissions			Admissions of persons over the age of 65		
	Number of admissions		Share, %	Number of admissions		Share, %
	2017	2018		2017	2018	
Total	230 562	225 970	100.0	76 210	72 804	100.0
Infectious and parasitic diseases	4 653	4 486	2.0	2 352	2 392	3.3
Neoplasms	41 275	40 826	18.1	16 876	16 943	23.3
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1 714	1 701	0.8	713	731	1.0
Endocrine, nutritional and metabolic diseases	7 841	6 210	2.7	2 797	1 945	2.7
Mental and behavioural disorders	16 287	15 837	7.0	2 595	2 344	3.2
Diseases of the nervous system	5 826	5 904	2.6	1 445	1 357	1.9
Diseases of the eye and adnexa	12 850	8 205	3.6	8 461	4 866	6.7
Diseases of the ear and mastoid process	1 310	1 216	0.5	161	162	0.2
Diseases of the circulatory system	26 641	26 572	11.8	15 390	15 544	21.4
Diseases of the respiratory system	12 868	12 550	5.5	4 219	4 336	6.0
Diseases of the digestive system	15 059	14 909	6.6	5 207	5 240	7.2
Diseases of the skin and subcutaneous tissue	2 621	2 437	1.1	735	661	0.9
Diseases of the musculoskeletal system and connective tissue	9 173	9 464	4.2	2 641	2 904	4.0
Diseases of the genitourinary system	12 564	12 135	5.4	4 159	4 200	5.8
Pregnancy, childbirth and the puerperium	12 960	15 455	6.8	-	-	-
Certain conditions originating in the perinatal period	3 355	2 479	1.1	-	-	-
Congenital malformations, deformations and chromosomal abnormalities	3 438	3 295	1.5	58	62	0.1
Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified	6 162	6 057	2.7	1 506	1 493	2.1

3.20 Hospitalisation of patients by disease groups¹⁾

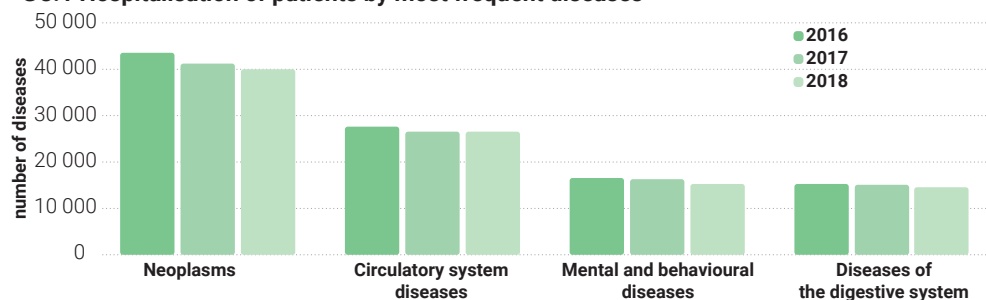
(Continued)

Disease group	Total number of admissions			Admissions of persons over the age of 65		
	Number of admissions		Share, %	Number of admissions		Share, %
	2017	2018	2018	2017	2018	2018
Injury, poisoning and certain other consequences of external causes	12 830	13 084	5.8	4 316	4 629	6.4
Factors influencing health status and contact with health services	21 135	23 148	10.2	2 579	2 995	4.1

¹⁾ Disease groups classified according to the International Classification of Diseases – 10th Revision, 2012.

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

G3.1 Hospitalisation of patients by most frequent diseases



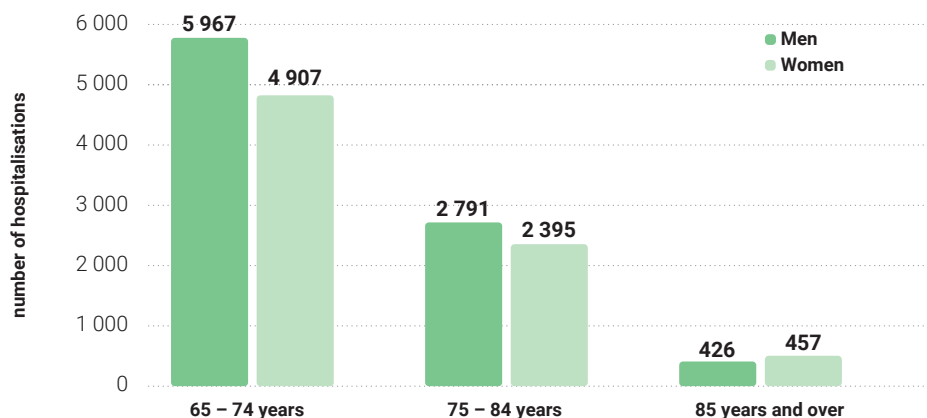
Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health

3.21 Hospitalisation of patients due to neoplasms

	Number of admissions			Indices	
	2016	2017	2018	$\frac{2017}{2016}$	$\frac{2018}{2017}$
Total	43 553	41 275	40 826	94.8	98.9
Age of patients					
0 – 64 years	25 925	24 399	23 883	94.1	97.9
65 and over	17 628	16 876	16 943	95.7	100.4

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 2018



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 of 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	
	2016	2017	2018	$\frac{2017}{2016}$	$\frac{2018}{2017}$
Total	26 797	26 641	26 572	99,4	99,7
Age of patients					
0 – 64 years	11 501	11 251	11 028	97.8	98.0
65 and over	15 296	15 390	15 544	100.6	101.0

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

3.23 Hospitalisation of patients due to mental and behavioural disorders

	Number of admissions			Indices	
	2016	2017	2018	$\frac{2017}{2016}$	$\frac{2018}{2017}$
Total	16 557	16 287	15 837	98.4	97.2
Age of patients					
0 – 64 years	13 982	13 692	13 493	97.9	98.5
65 and over	2 575	2 595	2 344	100.8	90.3

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

3.24 Hospitalisation of patients due to diseases of the digestive system

	Number of admissions			Indices	
	2016	2017	2018	$\frac{2017}{2016}$	$\frac{2018}{2017}$
Total	15 269	15 059	14 909	98.6	99.0
Age of patients					
0 – 64 years	10 061	9 852	9 669	97.9	98.1
65 and over	5 208	5 207	5 240	100.0	100.6

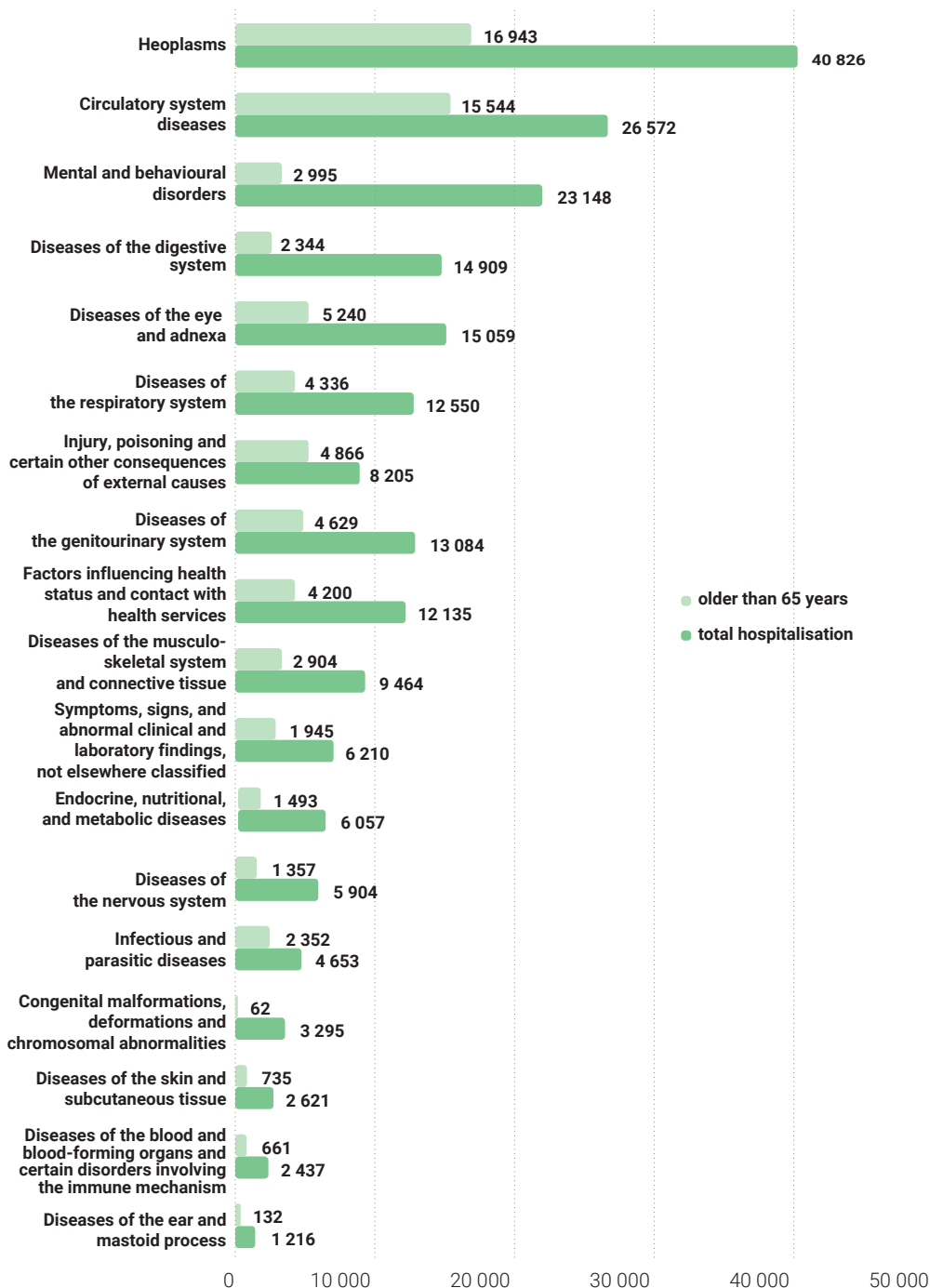
Source: Croatian Institute of Public Health and Reference Centre of the Ministry of Health of the Republic of Croatia for Health Protection of the Elderly – Centre for Health Gerontology of the Andrija Štampar Teaching Institute of Public Health, processing: City Office for the Strategic Planning and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

3.25 Main causes of hospitalisation of patients over the age of 65 by diagnoses in 2018

	Number of admissions			Share, %		
	Total	Men	Women	Total	Men	Women
Total	72 804	35 947	36 857	100.00	49.38	50.62
Diagnosis						
Senile cataract and other disorders of lens in diseases classified elsewhere	1 953	757	1 196	2.68	1.04	1.64
Cerebral infarction	1 918	862	1 056	2.63	1.18	1.45
Secondary malignant neoplasm of respiratory and digestive organs	1 822	1 009	813	2.50	2.81	2.21
Angina pectoris	1 742	1 049	693	2.39	1.44	0.95
Other types of sepsis	1 549	763	786	2.13	1.05	1.08
Acute myocardial infarction	1 450	809	641	1.99	1.11	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 2018



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 of Health Gerontology of the Andrija Štampar Teaching Institute of Public Health

The number of beneficiaries of allowance for social protection and persons with disabilities grew by 9.1% in 2018 in comparison to 2014.
In 2018, the average annual allowance per child amounted to 5 390 kuna, growing by 7.4% in comparison to 2014.

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 and Croatian Health Insurance Fund.

Social benefits and services of the City of Zagreb are based on the Social Welfare Act (Official Gazette Nos 157/13, 152/14, 99/15, 52/16, 16/17, 130/17) and the Decision on Social Welfare (Official Gazette of the City of Zagreb Nos 26/14, 19/15, 06/16, 16/16, 23/16, 4/19).

Social benefits for children are regulated by the Child Benefit Act (Official Gazette, Nos 94/01, 138/06, 107/07, 37/08, 61/11, 112/12, 82/15 and 58/18) and the Maternity and Parental Assistance Act (Official Gazette, Nos 85/08, 110/08, 34/11, 54/13, 152/14 and 59/17), while the payment of financial aid for newborn essentials is regulated by the Decision on Financial Aid for Newborn Essentials (Official Gazette of the City of Zagreb, Nos 8/09, 20/10, 6/11, 12/11, 17/11, 23/16 and 2/17 – consolidated version).

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:

1. 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
2. the second-level service is provided to a partially dependent beneficiary who needs assistance of others to meet his/her needs fully
3. the third-level service is provided to a functionally dependent beneficiary who needs assistance of others to meet his/her needs fully
4. 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 designated by the Maternity and Parental Assistance Act for assistance, maintenance and raising of children. 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.

ESSPROS (**European System of Integrated Social Protection Statistics**) is a harmonised system serving as means of analysis and comparison of flow of funds in relation to social care. It contains a database on expenditures and receipts in relation to social care and social benefits in the EU member states. The use of ESSPROS methodology enables a comprehensive and coherent description of social protection in the EU member states and candidate countries, financing of social benefits and a system practical for international comparison and alignment with other statistics.

Social protection includes all interventions (grant of monetary and non-monetary benefits, their financing and the related administrative expenses) of public or private bodies aimed at easing financial burdens on households and individuals in relation to the ascertained risks and needs, under the condition that no simultaneous mutual or single act is undertaken.

Social care expenditures according to the economic type (indicator of reason for expenditure), according to ESSPROS methodology, have been grouped into three main categories of expenditures. The first category encompasses social benefit expenditures, i.e. means that are given to users in the form of money or goods and services. The second category of expenditures refers to administration costs of programmes managed

by the institutional unit (local administration). The third category includes the transfer of funds to non-governmental organisations under the control of the local unit, aimed at the financing of specific projects and/or programmes in relation to social protection they provide.

Social protection expenditures according to functions, in line with the ESSPROS methodology, have been classified into eight social protection functions:

1. **Sickness/Health care** regards income maintenance and support in cash in connection with physical or mental illness, excluding disability. Health care regards the maintenance, restoration or improvement of health of the people protected irrespective of the origin of the disorder.
2. **Disability** regards income maintenance and support in cash or kind (except health care) in connection with the inability of physically or mentally disabled people to engage in economic and social activities.
3. **Old age** regards income maintenance and support in cash or kind (except health care) in connection with old age.
4. **Survivors** regards income maintenance and support in cash or kind in connection with the death of a family member.
5. **Family/Children** regards support in cash or kind (except health care) in connection with the costs of pregnancy, childbirth and adoption, bringing up children and caring for other family members.
6. **Unemployment** regards income maintenance and support in cash or kind in connection with unemployment.
7. **Housing** regards income maintenance and support in cash or kind in connection with unemployment.
8. **Social exclusion not elsewhere classified** regards benefits in cash or kind (except health care) specifically intended to combat social exclusion where they are not covered by one of the other functions.

4.1 Social benefits and services of the City of Zagreb

Type of benefit	Number of beneficiaries				
	2014	2015	2016	2017	2018
Allowance for social protection and people with disabilities					
Allowance to pensioners	12 590	12 223	11 766	11 731	9 753
For supplementary health insurance premium (measure from 2016)	-	-	3 116	3 351	2 722
For beneficiaries of basic needs allowance and for beneficiaries of disability allowance	10 186	10 426	10 826	11 405	12 264
For personal needs (personal allowance) for beneficiaries of homes for the elderly and the disabled	355	363	350	320	317
For persons with recognised status of parent caregiver, or the status of caregiver (measure from 2015)	-	32	46	61	71
Allowance for housing costs	2 564	2 765	2 960	2 783	2 527
For heating costs	1 426	2 020	2 327	2 161	1 936
Other benefits and services					
Provision of dairy products for children	107	111	82	50	41
Provision of "family packages"	878	446	355	308	278
Provision of packages for children on Easter and Saint Nicholas Day	7 200*	7 200*	7 200*	7 200*	7 000
Vacation	2 250	1 187	1 185	1 070	1 025
Meals in soup kitchens	4 837	4 529	3 987	3 154	2 727
Entitlement to free transit pass by ZET	85 986	86 406	81 637	82 898	74 467
House help	472	478	504	501	473
Coverage of funeral expenses	16	25	44	35	36
Health care for persons without health insurance	2 865	3 036	2 725	2 709	2 564

Source: City Office for Social Protection and People with Disabilities

4.2 Protection of persons with disabilities

Type of benefit	Number of uses				
	2014	2015	2016	2017	2018
Recreational and therapeutic vacation programmes for people with disabilities and children with developmental difficulties	280	400	382	396	398
Entitlement to free transit pass by ZET – people with disabilities	12 315	12 237	12 306	12 250	13 458
Entitlement to free transportation of persons with disabilities and children with developmental difficulties	1 000	1 100	1 300	1 402	1 644
Dental health care for children and adults with disabilities	1 498	1 085	1 323	1 250	1 169
Day Care Centre for Rehabilitation of Children and Young Adults "Mali Dom - Zagreb"	408	370	261	390	471
Rehabilitation Centre "Silver"	264	272	345	467	493

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	2018
In-home assistance	...	...	110	146	160
Individual and group counselling	1 073	926	1 132	841	752
Sports and recreation groups	1 821	1 904	2 045	1 751	1 928
Cultural/entertainment and working/creative groups	2 382	2 060	1 641	1 748	1 719
Public discussions and lectures	1 915	2 002	2 040	1 945	2 080
Various activities and manifestations	9 555	5 403	5 552	5 267	5 056

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		
	2016	2017	2018	2016	2017	2018	2016	2017	2018	2016	2017	2018	2016	2017	2018
Total	3 687	3 945	3 856	1 504	1 617	1 702	923	913	560	1 248	1 396	1 446	12	19	148
Centar	352	350	347	140	144	129	70	59	25	142	147	145	-	-	48
Dubrava	126	124	131	55	42	55	38	36	19	33	46	52	-	-	5
Ksaver	241	252	254	127	133	138	22	34	19	92	85	84	-	-	13
Maksimir	415	553	422	87	226	179	120	119	44	208	208	189	-	-	10
Medveščak	372	358	356	235	236	235	42	26	29	83	84	81	12	12	11
Park	173	301	346	60	116	112	63	64	71	50	114	154	-	7	9
Peščenica	334	334	334	134	132	137	61	66	65	139	136	132	-	-	-
Sveta Ana	309	310	301	106	131	159	149	107	12	54	72	130	-	-	-
Sveti Josip	353	353	353	155	153	151	144	133	71	54	67	79	-	-	52
Trešnjevka	622	620	622	224	130	224	123	153	81	275	337	317	-	-	-
Trnje	390	390	390	181	174	183	91	116	124	118	100	83	-	-	-

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	
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
2018	16 605	31 715	170 950	5 390	11 200

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
2014	23 774	42	58
2015	22 414	42	58
2016	22 012	43	57
2017	22 030	43	57
2018	21 177	43	57

Source: CO for Demography

4.7 Social protection expenditures according to ESSPROS methodology¹⁾

	Thousands of HRK		
	2016	2017	2018
Social protection expenditures – total	1 276 492	1 471 360	1 520 848
Social protection expenditures per functions	1 251 857	1 447 510	1 497 902
Sickness/Health care	3 463	6 950	5 464
Disability	60 365	58 703	61 608
Old Age	150 796	144 235	126 511
Survivors	1 879	1 381	1 130
Family/Children	969 823	1 185 013	1 259 300
Unemployment	8 473	6 557	4 909
Housing	1 895	1 782	1 619
Social exclusion not elsewhere classified	55 163	42 889	37 361
Administrative expenditures	1 414	1 196	1 001
Other expenditures (transfers of funds to NGOs)	23 221	22 654	21 945

¹⁾ See Notes on Methodology.

Source: City Office for Social Protection and People with Disabilities

In 2018, the number of pension insurance users equalled 450 287, representing a 1.7% growth in comparison to 2017, while the average monthly pension in 2018 equalled 3 193 kuna, growing by 4.1% in comparison to 2017.

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 Nos 157/13, 151/14, 33/15, 93/15, 120/16, 18/18, 62/18 and 115/18).

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

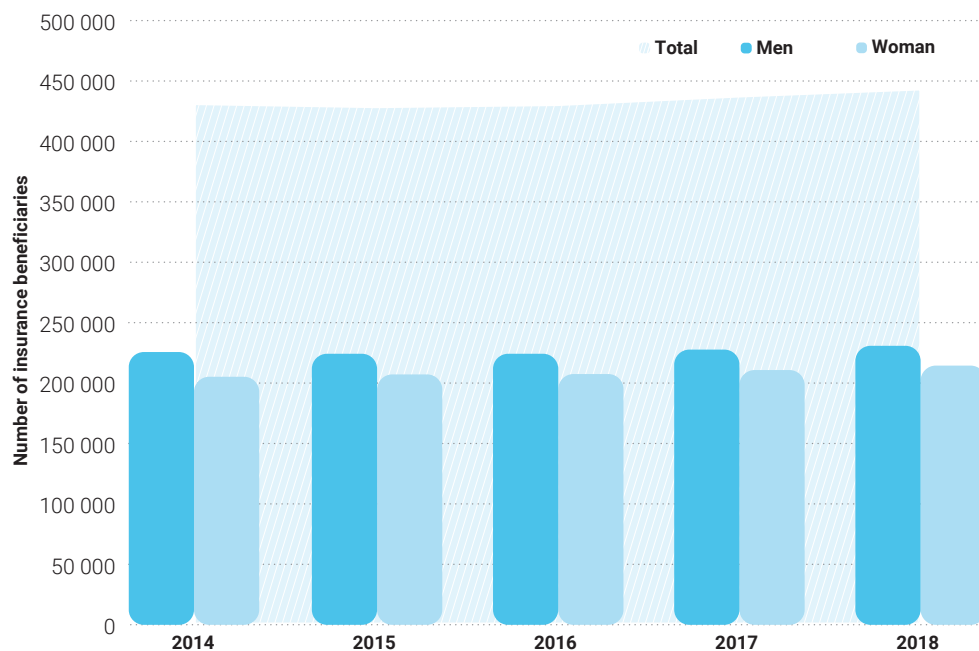
Status as of 31 December

	Number of insurance beneficiaries					
	2017			2018		
	Total	Men	Women	Total	Men	Women
Total	442 926	229 563	213 363	450 287	233 934	216 353
Employed persons and persons of equal status	427 603	220 545	207 058	434 196	224 467	209 729
Craftsmen and professional services	14 802	8 688	6 114	15 566	9 130	6 436
Farmers	521	330	191	525	337	188

Source: Croatian Pension Insurance Institute

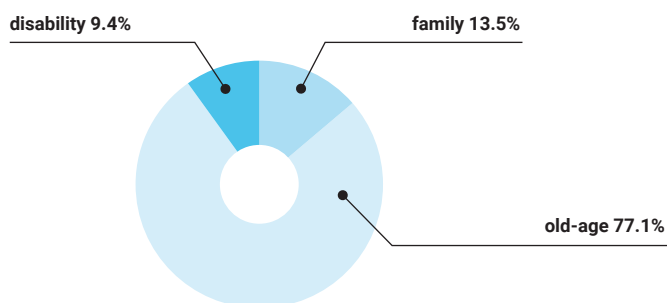
G 5.1 Insurance beneficiaries by sex

Status as of 31 December



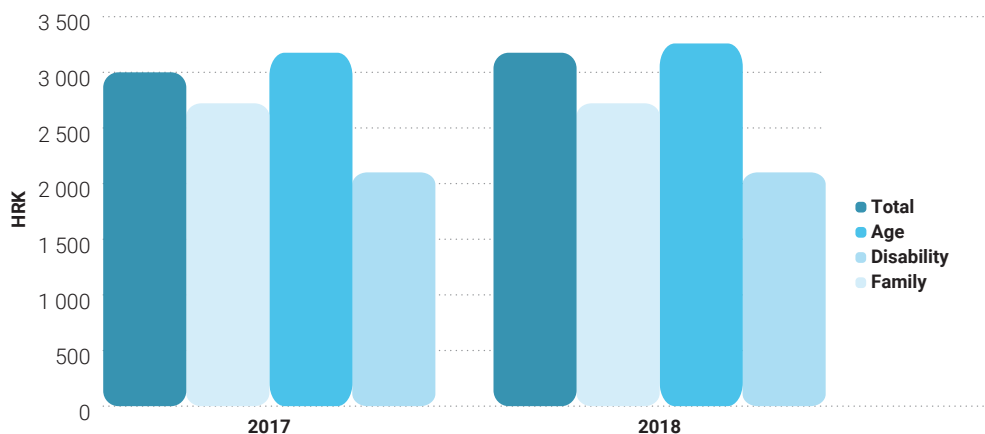
G 5.2 Pension beneficiaries by type of pension

Status as of 31 December 2018

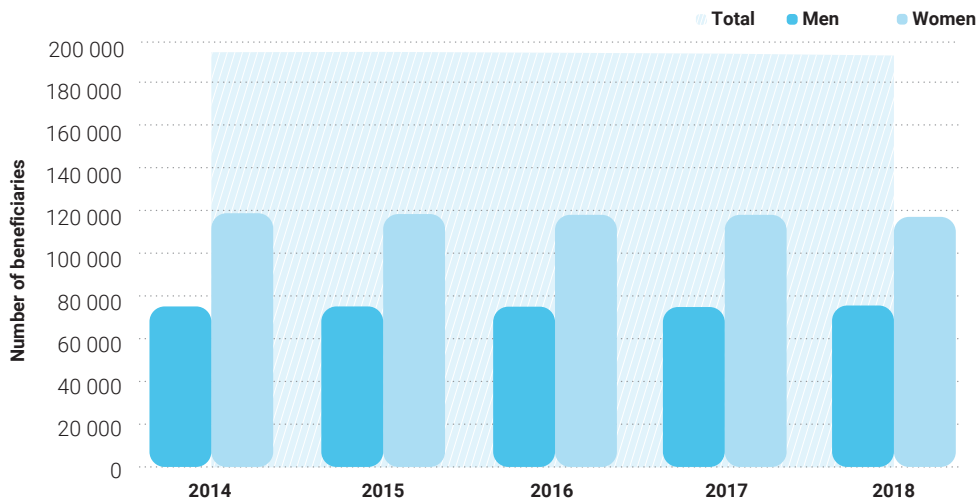


G 5.3 Average pension by type of pension

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

	2017 ³⁾			2018 ³⁾		
	Total	Men	Women	Total	Men	Women
Total						
Number of beneficiaries	195 059	75 551	119 508	194 391	75 209	119 182
Average length of service	32	34	31	32	34	31
Average monthly pension in HRK ¹⁾	3 066	3 381	2 866	3 193	3 518	2 987
Old-age pension						
Number of beneficiaries	148 852	61 744	87 108	149 875	62 182	87 693
Average length of service	34	36	32	34	36	32
Average monthly pension in HRK ¹⁾	3 262	3 637	2 996	3 391	3 771	3 121
Disability pension						
Number of beneficiaries	19 436	11 213	8 223	18 268	10 474	7 794
Average length of service	22	23	21	22	23	21
Average monthly pension in HRK ¹⁾	2 108	2 248	1 917	2 174	2 327	1 969
Family pension²⁾						
Number of beneficiaries	26 771	2 594	24 177	26 248	2 553	23 695
Average length of service	31	25	32	31	25	32
Average monthly pension in HRK ¹⁾	2 668	2 168	2 722	2 771	2 253	2 826

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 No. 94/09), which was in force until 1 November 2010 (Official Gazette No. 94/09).

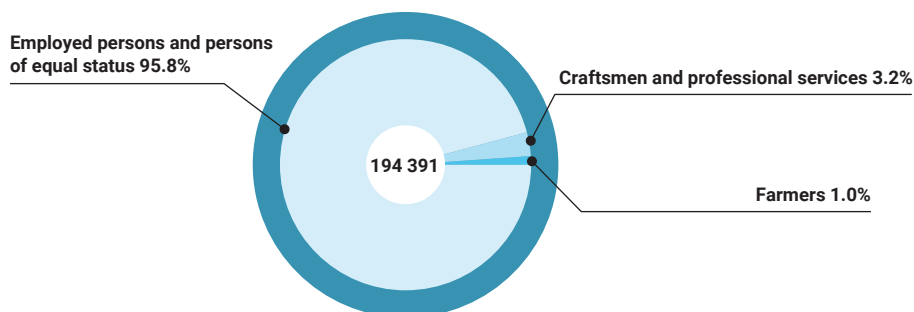
²⁾ Regarding family pensions, sex refers to the person (heir) to whom the pension is paid, while length of service refers to beneficiaries from whom the pension rights have been inherited.

³⁾ See Notes on Methodology.

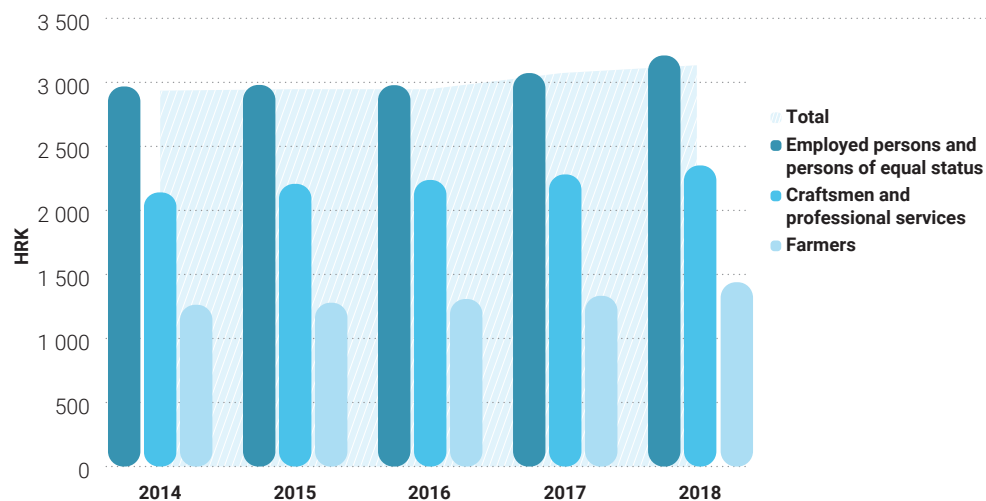
Source: Croatian Pension Insurance Institute

G 5.5 Pension beneficiaries by insurance eligibility criteria

Status as of 31 December 2018



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

	2017 ³⁾			2018 ³⁾		
	Total	Men	Women	Total	Men	Women
Employed persons and persons of equal status						
Total						
Number of beneficiaries	186 987	71 287	115 700	186 459	71 000	115 459
Average length of service	32	34	31	32	34	32
Average monthly pension in HRK ¹⁾	3 106	3 439	2 900	3 233	3 578	3 021
Age pension						
Number of beneficiaries	142 910	58 419	84 491	143 985	58 868	85 117
Average length of service	34	36	32	34	36	32
Average monthly pension in HRK ¹⁾	3 305	3 700	3 031	3 434	3 835	3 156
Disability pension						
Number of beneficiaries	18 260	10 372	7 888	17 160	9 683	7 477
Average length of service	22	23	21	22	23	21
Average monthly pension in HRK ¹⁾	2 122	2 269	1 927	2 187	2 346	1 980
Family pension²⁾						
Number of beneficiaries	25 817	2 496	23 321	25 314	2 449	22 865
Average length of service	31	25	32	31	26	32
Average monthly pension in HRK ¹⁾	2 700	2 195	2 754	2 803	2 283	2 859

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

(Continued)

Status as of 31 December

	2017 ³⁾			2018 ³⁾		
	Total	Men	Women	Total	Men	Women
Craftsmen						
Total						
Number of beneficiaries	6 389	3 804	2 585	6 395	3 786	2 609
Average length of service	30	31	28	30	31	28
Average monthly pension in HRK ¹⁾	2 333	2 503	2 083	2 421	2 600	2 161
Old-age pension						
Number of beneficiaries	4 539	2 950	1 589	4 605	2 971	1 634
Average length of service	32	34	30	32	33	30
Average monthly pension in HRK ¹⁾	2 503	2 667	2 199	2 587	2 755	2 281
Disability pension						
Number of beneficiaries	1 044	766	278	991	724	267
Average length of service	22	23	21	22	23	21
Average monthly pension in HRK ¹⁾	1 899	1 983	1 666	1 983	2 088	1 701
Family pension²⁾						
Number of beneficiaries	806	88	718	799	91	708
Average length of service	27	18	28	27	19	28
Average monthly pension in HRK ¹⁾	1 937	1 526	1 988	2 009	1 616	2 059
Farmers						
Total						
Number of beneficiaries	1 683	460	1 223	1 537	423	1 114
Average length of service	22	25	20	22	25	21
Average monthly pension in HRK ¹⁾	1 396	1 627	1 309	1 477	1 723	1 383
Old-age pension						
Number of beneficiaries	1 403	375	1 028	1 285	343	942
Average length of service	22	25	21	23	26	21
Average monthly pension in HRK ¹⁾	1 381	1 562	1 315	1 461	1 655	1 391
Disability pension						
Number of beneficiaries	132	75	57	117	67	50
Average length of service	21	23	19	21	22	20
Average monthly pension in HRK ¹⁾	1 895	2 033	1 713	2 015	2 189	1 781
Family pension²⁾						
Number of beneficiaries	148	10	138	135	13	122
Average length of service	16	18	16	16	19	16
Average monthly pension in HRK ¹⁾	1 092	1 031	1 096	1 157	1 117	1 162

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 No. 94/09), which was in force until 1 November 2010 (Official Gazette No. 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

In 2018, the number of total employed persons equalled 429 545, growing for the first time since 2009 (by 5 282).

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

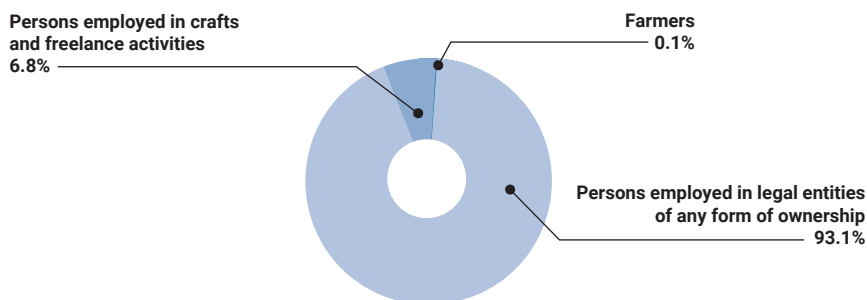
Status as of 31 March

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total	424 263	408 864	397 365	398 890	390 469	383 967	389 888	401 639	412 992	429 545
Persons employed in legal entities of any form of ownership ¹⁾	378 938	367 764	359 430	362 889	356 065	351 919	359 288	371 631	383 469	399 809
Persons employed in crafts and freelance activities	44 635	40 479	37 348	35 426	33 864	31 521	30 082	29 502	29 008	29 216
Farmers	690	621	587	575	540	527	518	506	515	520
Women	318	283	249	228	214	198	208	197	188	191

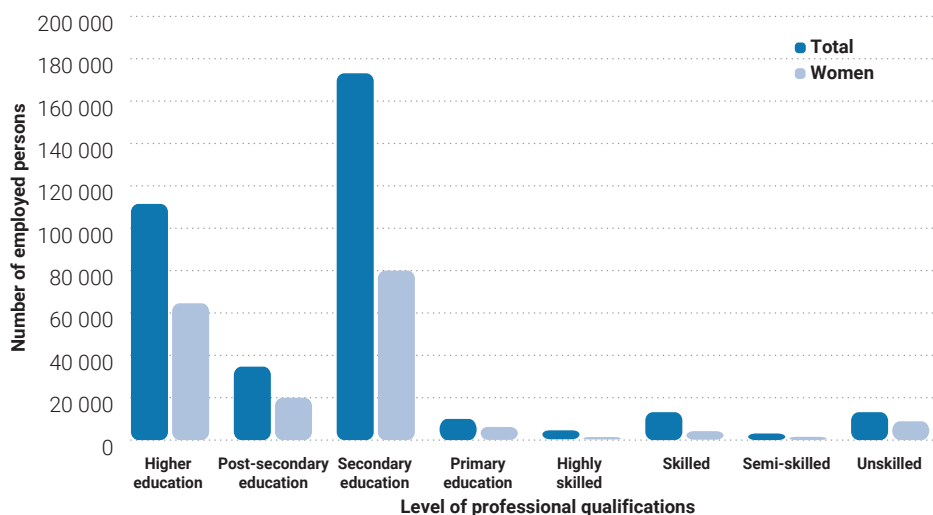
¹⁾ Data includes the estimated number of persons employed in legal entities that have fewer than ten employees, and for which no report has been received.

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 2018



G 6.2 Employed persons by level of professional qualifications and sex, Status as of 31 March 2018



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

Status as of 31 March

	2014		2015		2016		2017		2018	
	Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL	383 967	186 826	389 888	194 630	401 639	198 319	412 992	202 319	429 545	210 461
A Agriculture, forestry, and fishing	1 786	658	1 719	649	1 723	701	1 782	686	1 881	751
B Mining and quarrying	1 433	291	1 163	281	992	274	874	236	884	217
C Manufacturing	41 393	14 428	41 081	14 881	42 966	15 191	44 037	15 166	44 179	15 475
D Electricity, gas, steam, and air conditioning supply	3 390	954	3 411	997	3 276	1 024	3 427	1 072	4 257	1 524
E Water supply; sewerage, waste management, and remediation activities	3 734	541	3 459	502	3 666	521	3 984	641	4 417	712
F Construction	23 718	2 789	21 670	2 605	22 486	2 641	22 919	2 640	25 790	2 958
G Wholesale and retail trade; repair of motor vehicles and motorcycles	71 338	35 778	69 636	35 582	72 378	37 512	74 028	37 593	78 185	39 694
H Transportation and storage	19 451	5 094	19 358	4 988	20 038	5 287	20 761	5 066	20 603	4 893
I Accommodation and food service activities	14 786	7 203	14 764	7 059	16 174	7 263	17 937	8 365	18 109	8 715
J Information and communication	22 368	8 969	22 174	8 937	23 161	8 989	23 320	9 038	25 670	10 010
K Financial and insurance activities	19 422	12 933	20 040	13 349	19 966	13 361	20 261	13 498	20 147	13 436
L Real estate activities	4 075	2 346	3 501	1 883	4 155	1 926	4 495	2 185	5 040	2 568
M Professional, scientific, and technical activities	32 326	16 059	34 044	17 602	34 162	17 140	35 723	17 733	36 994	18 316
N Administrative and support service activities	17 576	7 720	20 822	9 244	22 151	9 784	23 950	10 940	24 622	11 300
O Public administration and defence; compulsory social security	33 872	17 772	33 924	17 988	34 507	18 524	34 429	18 321	34 612	18 946
P Education	27 717	20 824	28 769	21 649	29 329	22 110	28 914	21 844	30 307	22 817
Q Human health and social work activities	27 460	21 562	29 668	23 778	29 759	23 140	31 161	24 156	31 644	24 557
R Arts, entertainment, and recreation	8 795	4 726	9 522	5 126	9 323	4 968	9 677	5 131	10 421	5 459
S Other service activities	8 665	5 606	10 614	7 073	11 014	7 623	10 990	7 754	11 494	7 889
T Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	644	564	524	443	396	328	309	246	273	216
Persons unclassified by activities	18	9	25	14	17	12	14	8	16	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.

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

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

Status as of 31 March

		2014		2015		2016		2017		2018	
		Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL		351 919	171 444	359 288	179 832	371 631	183 699	383 469	187 986	399 809	196 074
A	Agriculture, forestry, and fishing	1 099	396	1 050	388	1 100	438	1 139	441	1 218	495
B	Mining and quarrying	1 428	290	1 158	280	987	273	869	235	879	216
C	Manufacturing	36 915	12 501	36 897	13 042	38 942	13 417	40 205	13 486	40 447	13 783
D	Electricity, gas, steam, and air conditioning supply	3 390	954	3 411	997	3 276	1 024	3 427	1 072	4 257	1 524
E	Water supply; sewerage, waste management, and remediation activities	3 721	538	3 447	499	3 654	518	3 973	639	4 405	710
F	Construction	21 452	2 603	19 645	2 439	20 488	2 490	20 941	2 499	23 844	2 824
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	67 228	33 931	65 831	33 897	68 739	35 871	70 643	36 087	74 897	38 240
H	Transportation and storage	17 363	4 996	17 294	4 898	17 959	5 203	18 673	4 978	18 520	4 809
I	Accommodation and food service activities	10 690	5 294	10 975	5 311	12 535	5 575	14 478	6 707	14 962	7 190
J	Information and communication	21 947	8 865	21 754	8 830	22 720	8 873	22 808	8 906	24 915	9 849
K	Financial and insurance activities	19 365	12 908	19 983	13 324	19 872	13 316	20 140	13 436	20 032	13 374
L	Real estate activities	3 995	2 307	3 416	1 844	4 079	1 886	4 413	2 141	4 945	2 524
M	Professional, scientific, and technical activities	27 871	13 470	29 668	15 100	29 804	14 642	31 287	15 203	32 317	15 686
N	Administrative and support service activities	16 908	7 372	20 086	8 824	21 355	9 316	23 170	10 498	23 702	10 791
O	Public administration and defence; compulsory social security	33 369	17 540	33 445	17 766	34 073	18 347	34 007	18 164	34 222	18 802
P	Education	27 604	20 784	28 630	21 597	29 166	22 035	28 723	21 747	30 033	22 681
Q	Human health and social work activities	25 070	19 666	27 321	21 906	27 393	21 252	28 758	22 235	29 261	22 645
R	Arts, entertainment, and recreation	7 329	4 209	8 122	4 624	7 981	4 486	8 353	4 639	9 013	4 927
S	Other service activities	5 175	2 820	7 155	4 266	7 508	4 736	7 462	4 873	7 940	5 004

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.

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

		2014		2015		2016		2017		2018	
		Total	Women	Total	Women	Total	Women	Total	Women	Total	Women
TOTAL		31 521	15 184	30 082	14 590	29 502	14 412	29 008	14 145	29 216	14 196
A	Agriculture, forestry, and fishing	160	64	151	53	117	55	128	57	143	65
B	Mining and quarrying	5	1	5	1	5	1	5	1	5	1
C	Manufacturing	4 478	1 927	4 184	1 839	4 024	1 774	3 832	1 680	3 732	1 692
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management and, remediation activities	13	3	12	3	12	2	11	2	12	2
F	Construction	2 266	186	2 025	166	1 998	151	1 978	141	1 946	134
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	4 110	1 847	3 805	1 685	3 639	1 641	3 385	1 506	3 288	1 454
H	Transportation and storage	2 088	98	2 064	90	2 079	84	2 088	88	2 083	84
I	Accommodation and food service activities	4 096	1 909	3 789	1 748	3 639	1 688	3 459	1 658	3 147	1 525
J	Information and communication	421	104	420	107	441	116	512	132	755	161
K	Financial and insurance activities	57	25	57	25	94	45	121	62	115	62
L	Real estate activities	80	39	85	39	76	40	82	44	95	44
M	Professional, scientific, and technical activities	4 455	2 589	4 376	2 502	4 358	2 498	4 436	2 530	4 677	2 630
N	Administrative and support service activities	668	348	736	420	796	468	780	442	920	509
O	Public administration and defence; compulsory social security	503	232	479	222	434	177	422	157	390	144
P	Education	113	40	139	52	163	75	191	97	274	136
Q	Human health and social work activities	2 390	1 896	2 347	1 872	2 366	1 888	2 403	1 921	2 383	1 912
R	Arts, entertainment, and recreation	1 466	517	1 400	502	1 342	482	1 324	492	1 408	532
S	Other service activities	3 490	2 786	3 459	2 807	3 506	2 887	3 528	2 881	3 554	2 885
T	Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	644	564	524	443	396	328	309	246	273	216
	Persons unclassified by activities	18	9	25	14	17	12	14	8	16	8

Source: Croatian Pension Insurance Institute

6.5 Persons employed in legal entities by form of ownership

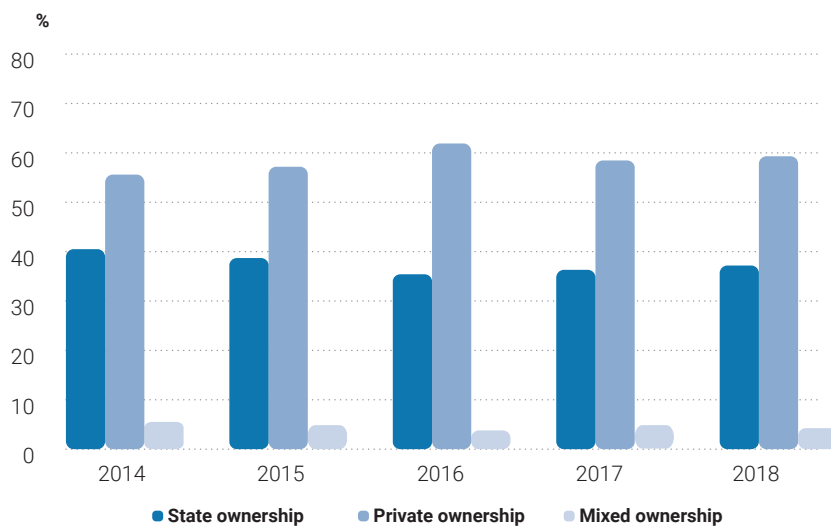
Status as of 31 March

	2014	2015	2016	2017	2018
	Number of employed persons				
Total	312 922	318 472	342 042	335 870	359 576
State ownership	126 786	122 063	121 538	123 685	133 914
Private ownership	173 771	184 431	211 718	198 329	213 687
Co-operative ownership	48	47	61	33	36
Mixed ownership	12 317	11 931	8 725	13 823	11 939
	Share of employed persons, %				
Total	100.0	100.0	100.0	100.0	100.0
State ownership	40.5	38.3	35.5	36.8	37.3
Private ownership	55.6	57.9	61.9	59.1	59.5
Co-operative ownership	0.0	0.0	0.0	0.0	0.0
Mixed ownership	3.9	3.8	2.6	4.1	3.2

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

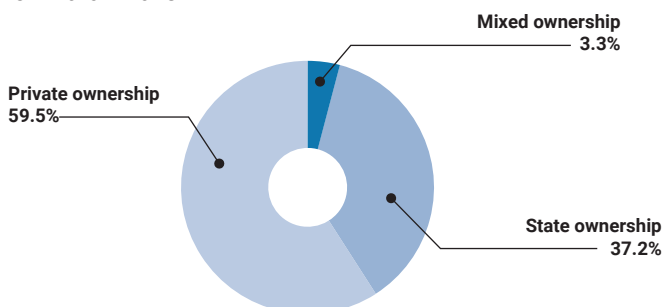
Status as of 31 March 2018

		Total	Ownership type			
			State	Private	Co-operative	Mixed
Total		359 576	133 914	213 687	36	11 939
A	Agriculture, forestry, and fishing	990	383	607	-	-
B	Mining and quarrying	856	-	86	-	770
C	Manufacturing	36 933	3233	30 775	5	2 920
D	Electricity, gas, steam, and air conditioning supply	4 163	3 823	189	-	151
E	Water supply; sewerage, waste management, and remediation activities	4 319	2 959	1 360	-	-
F	Construction	20 317	5 364	14 567	-	386
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	66 046	739	63 759	20	1 528
H	Transportation and storage	17 243	10 013	6 028	-	1 202
I	Accommodation and food service activities	11 205	2 388	8 650	-	167
J	Information and communication	22 049	3 665	18 229	3	152
K	Financial and insurance activities	19 542	3 804	14 741	-	997
L	Real estate activities	4 070	875	3 195	-	-
M	Professional, scientific, and technical activities	24 539	4 195	19 269	-	1 075
N	Administrative and support service activities	22 002	1 894	20 108	-	-
O	Public administration and defence; compulsory social security	34 164	33 744	84	-	336
P	Education	29 495	26 711	2 332	-	452
Q	Human health and social work activities	28 642	24 322	3 570	-	750
R	Arts, entertainment, and recreation	7 892	4 703	2 790	-	399
S	Other service activities	5 109	1 099	3 348	8	654

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 2018



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

Status as of 31 March

	2014	2015	2016	2017	2018
Total	312 435	318 472	342 042	335 870	359 576
Higher education	92 502	97 340	105 111	103 563	112 551
Doctors of Science	5 983	6 447	7 270	6 533	6 901
Masters of Science	4 310	4 731	4 799	3 894	4 059
Other	82 209	86 162	93 042	93 136	101 591
Post-secondary education	27 349	28 148	30 396	30 650	33 443
Secondary education	150 579	153 815	167 859	164 050	175 895
Primary education	7 364	7 641	7 273	7 676	8 383
Highly skilled	4 178	3 576	3 288	3 099	2 896
Skilled	14 500	13 358	13 274	12 264	11 752
Semi-skilled	4 073	3 249	2 850	2 946	2 789
Unskilled	11 890	11 345	11 991	11 622	11 867
Women	156 693	161 099	172 529	170 212	180 560
Higher education	52 256	55 184	59 691	59 209	64 414
Doctors of Science	2 904	3 140	3 554	3 242	3 445
Masters of Science	2 312	2 590	2 600	2 165	2 312
Other	47 040	49 454	53 537	53 802	58 657
Post-secondary education	16 276	16 773	18 122	18 115	19 630
Secondary education	71 009	72 922	78 257	76 406	80 273
Primary education	4 588	4 662	4 647	4 771	4 699
Highly skilled	543	496	546	605	466
Skilled	3 898	3 577	3 544	3 362	3 279
Semi-skilled	1 839	1 333	1 117	1 000	1 081
Unskilled	6 284	6 152	6 605	6 744	6 718
Total	100.0	100.0	100.0	100.0	100.0
Higher education	28.9	29.6	30.6	30.8	31.3
Doctors of Science	1.9	1.9	2.0	1.9	1.9
Masters of Science	1.3	1.4	1.5	1.2	0.1
Other	25.7	26.3	27.1	27.7	28.3
Post-secondary education	8.7	8.8	8.8	9.1	9.3
Secondary education	48.2	48.2	48.3	48.8	48.9
Primary education	2.5	2.4	2.4	2.3	2.3
Highly skilled	1.4	1.3	1.1	0.9	0.8
Skilled	5.0	4.6	4.2	3.7	3.3
Semi-skilled	1.3	1.3	1.0	0.9	0.8
Unskilled	4.0	3.8	3.6	3.5	3.3

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

(Continued)

Status as of 31 March

	2014	2015	2016	2017	2018
Women	50.2	50.2	50.6	50.7	50.2
Higher education	16.3	16.7	17.3	17.6	17.9
Doctors of Science	0.9	0.9	1.0	1.0	1.0
Masters of Science	0.7	0.7	0.8	0.6	0.6
Other	14.7	15.1	15.5	16.0	16.3
Post-secondary education	5.1	5.2	5.3	5.4	5.5
Secondary education	23.0	22.7	22.9	22.8	22.3
Primary education	1.6	1.5	1.5	1.4	1.3
Highly skilled	0.2	0.2	0.2	0.2	0.1
Skilled	1.3	1.3	1.1	1.0	0.9
Semi-skilled	0.6	0.6	0.4	0.3	0.3
Unskilled	2.1	2.0	1.9	2.0	1.9

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 2018

Status as of 31 March 2016

		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							
Total		359 576	112 551	6 901	4 059	101 591	33 443	175 895	8 383	2 896	11 752	2 789	11 867
A	Agriculture, forestry, and fishing	990	323	-	3	320	39	364	119	1	42	5	97
B	Mining and quarrying	856	412	7	19	386	56	318	5	24	33	-	8
C	Manufacturing	36 940	8 135	122	458	7 555	2 275	19 818	1 038	640	2 598	496	1 940
D	Electricity, gas, steam, and air conditioning supply	4 163	1 573	20	110	1 443	422	1 548	26	389	122	15	68
E	Water supply; sewerage, waste management, and remediation activities	4 319	488	4	20	464	200	2 037	629	188	269	109	399
F	Construction	20 315	2 200	9	13	2 178	1 304	10 918	564	334	2 660	840	1 495
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	66 002	12 168	35	345	11 788	4 277	44 627	1 214	301	1 704	197	1 514

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

(Continued)

Status as of 31 March 2018

		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	17 243	2 576	44	44	2 488	1 178	11 434	360	237	910	117	431
I	Accommodation and food service activities	11 212	765	-	16	749	356	8 031	292	116	610	266	776
J	Information and communication	22 049	10 893	39	520	10 334	2 616	8 165	82	107	96	16	74
K	Financial and insurance activities	19 542	9 821	31	327	9 463	2 378	7 190	70	6	45	2	30
L	Real estate activities	4 070	807	2	15	790	333	2 212	82	22	170	38	406
M	Professional, scientific, and technical activities	24 544	14 049	831	391	12 827	2 099	7 543	175	149	290	54	185
N	Administrative and support service activities	22 004	2 941	6	35	2 900	1 284	14 136	904	46	575	74	2 044
O	Public administration and defence; compulsory social security	34 184	15 956	302	699	14 955	3 091	14 218	346	93	311	49	120
P	Education	29 495	16 898	3 899	370	12 629	5 544	4 340	824	105	573	86	1 125
Q	Human health and social work activities	28 642	8 279	1 436	430	6 413	5 052	12 260	1 299	99	467	296	890
R	Arts, entertainment, and recreation	7 897	2 595	88	163	2 344	570	4 168	242	23	130	27	142
S	Other service activities	5 109	1 672	26	81	1 565	369	2 568	112	16	147	102	123

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 2018

		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		180 560	64 414	3 445	2 312	58 657	19 630	80 273	4 699	466	3 279	1 081	6 718
A	Agriculture, forestry, and fishing	457	121	-	1	120	21	159	74	-	13	5	64
B	Mining and quarrying	208	141	4	8	129	15	48	2	-	2	-	-
C	Manufacturing	13 232	3 617	58	234	3 325	731	6 533	546	76	670	205	854
D	Electricity, gas, steam, and air conditioning supply	1 498	676	3	40	633	188	570	20	1	8	3	32
E	Water supply; sewerage, waste management, and remediation activities	701	179	1	9	169	63	327	42	-	17	9	64
F	Construction	2 440	689	3	5	681	317	1 210	50	6	58	19	91
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	35 116	6 942	12	201	6 729	2 147	23 765	580	125	789	82	686
H	Transportation and storage	4 604	1 189	17	18	1 154	488	2 649	56	7	58	21	136
I	Accommodation and food service activities	5 988	450	-	10	440	194	3 975	237	47	321	213	551
J	Information and communication	8 709	4 729	10	268	4 451	866	3 018	33	6	25	8	24
K	Financial and insurance activities	13 098	6 323	14	207	6 102	1 559	5 113	57	1	26	2	17

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

(Continued)

Status as of 31 March 2018

		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							
L	Real estate activities	1 978	438	1	7	430	160	959	49	8	70	21	273
M	Professional, scientific, and technical activities	11 847	7 041	452	187	6 402	929	3 606	88	22	66	15	80
N	Administrative and support service activities	9 659	1 607	3	21	1 583	584	4 827	680	16	162	45	1 738
O	Public administration and defence; compulsory social security	18 788	9 981	159	411	9 411	1 566	6 645	248	60	165	36	87
P	Education	22 498	11 961	1 879	244	9 838	5 105	3 265	593	39	391	81	1 063
Q	Human health and social work activities	22 278	5 784	756	300	4 728	4 206	9 824	1 089	42	282	271	780
R	Arts, entertainment, and recreation	4 491	1 523	62	92	1 369	294	2 313	183	5	59	12	102
S	Other service activities	2 970	1 023	11	49	963	197	1 467	72	5	97	33	76

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

	2011	2012	2013	2014	2015	2016	2017	2018
	Number of employed persons							
Total	327 988	329 635	321 273	312 556	318 472	342 042	335 870	359 576
up to 18 years of age	109	115	95	93	140	294	263	485
19 – 24	14 438	13 114	11 272	10 450	11 403	13 979	14 651	18 153
25 – 29	42 459	40 938	37 068	33 562	34 236	37 207	36 381	38 843
30 – 34	53 683	53 639	52 319	49 950	50 235	52 635	50 075	51 393
35 – 39	50 417	51 330	51 133	49 864	51 072	55 548	53 777	56 281
40 – 44	44 621	45 189	45 130	44 929	46 456	49 953	48 658	52 459
45 – 49	42 340	42 715	41 934	41 631	41 835	43 601	42 466	45 754
50 – 54	38 912	39 066	38 396	37 771	37 925	39 926	39 625	41 925
55 – 59	27 853	28 820	28 880	29 185	29 925	31 955	32 564	34 789
60 – 64	11 881	13 275	13 621	13 701	13 763	15 249	15 710	17 478
65 years and more	1 275	1 434	1 425	1 420	1 482	1 695	1 700	2 016

6.10 Persons employed in legal entities by age and sex

(Continued)

Status as of 31 March

	2011	2012	2013	2014	2015	2016	2017	2018
	Number of employed persons							
Women	161 851	164 150	161 230	156 693	161 099	172 529	170 212	180 560
up to 18 years of age	58	57	23	32	52	109	101	199
19 – 24	6 436	5 711	4 922	4 232	4 734	5 763	6 141	7 721
25 – 29	20 748	20 098	18 348	16 306	16 983	18 324	18 008	19 010
30 – 34	26 528	26 674	25 940	24 802	25 357	26 364	24 899	25 647
35 – 39	24 957	25 699	25 621	25 097	25 786	27 885	27 106	28 211
40 – 44	22 839	23 123	23 231	22 973	23 594	25 427	25 028	26 353
45 – 49	22 198	22 576	22 214	22 014	22 188	23 095	22 663	24 010
50 – 54	20 845	21 185	20 975	20 509	20 661	21 664	21 601	22 566
55 – 59	12 168	13 245	13 800	14 247	15 141	16 547	16 889	18 171
60 – 64	4 674	5 324	5 689	5 995	6 106	6 793	7 195	7 976
65 years and more	400	458	467	486	497	558	581	696
	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	5.2
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	14.3
35 – 39	15.1	15.4	15.6	15.9	16.0	16.0	16.2	15.6
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	12.7
50 – 54	11.7	11.9	11.9	12.0	12.1	11.9	11.7	11.7
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	4.9
65 years and more	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6
Women	48.8	49.4	49.8	50.2	50.1	50.6	50.4	50.2
up to 24 years	2.2	2.0	1.8	1.5	1.4	1.5	1.7	2.2
25 – 29	6.7	6.3	6.1	5.7	5.2	5.3	5.4	5.3
30 – 34	8.0	8.1	8.1	8.1	7.9	8.0	7.7	7.0
35 – 39	7.4	7.6	7.8	8.0	8.0	8.1	8.2	7.9
40 – 44	6.9	7.0	7.0	7.2	7.4	7.4	7.4	7.3
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	6.3
55 – 59	3.5	3.7	4.0	4.3	4.6	4.8	4.8	5.1
60 – 64	1.3	1.4	1.6	1.8	1.9	1.9	2.0	2.2
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

Status as of 31 March 2018

		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		359 576	485	18 153	38 843	51 393	56 281	52 459	45 754	41 925	34 789	17 478	2 016
A	Agriculture, forestry, and fishing	990	1	25	79	94	136	170	146	145	129	54	11
B	Mining and quarrying	856	2	13	49	96	153	117	138	139	116	28	5
C	Manufacturing	36 940	44	2 039	3 775	5 228	5 341	5 276	4 326	4 748	4 201	1 799	163
D	Electricity, gas, steam, and air conditioning supply	4 163	4	50	279	509	551	578	563	647	682	297	3
E	Water supply; sewerage, waste management, and remediation activities	4 319	3	180	307	472	604	621	681	664	503	271	13
F	Construction	20 315	28	1 109	1 713	2 458	3 001	3 021	2 549	2 590	2 438	1 268	140
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	66 002	212	5 107	8 389	10 888	11 837	9 993	7 750	6 021	3 945	1 577	283
H	Transportation and storage	17 243	10	678	1 279	1 780	2 165	2 692	2 539	2 701	2 315	1 025	59
I	Accommodation and food service activities	11 212	37	1 444	1 679	1 601	1 443	1 264	1 201	1 200	939	376	28
J	Information and communication	22 049	9	648	3 115	4 065	4 088	3 818	2 810	1 810	1 108	535	43
K	Financial and insurance activities	19 542	7	349	1 852	3 522	4 052	3 332	2 689	1 735	1 429	526	49
L	Real estate activities	4 070	4	198	360	522	572	554	556	606	466	215	17
M	Professional, scientific, and technical activities	24 544	23	613	3 523	4 223	4 234	3 576	2 711	2 205	1 901	1 195	340

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

(Continued)

Status as of 31 March 2018

		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	22 004	69	2 575	3 407	3 089	2 969	2 548	2 366	2 253	1 849	775	104
O	Public administration and defence; compulsory social security	34 184	1	450	1 993	3 606	5 162	5 782	5 724	4 982	4 065	2 279	140
P	Education	29 495	13	302	2 469	3 693	4 291	3 914	4 016	4 214	3 815	2 463	305
Q	Human health and social work activities	28 642	4	1 664	3 197	3 677	3 643	3 356	3 394	3 868	3 674	1 962	203
R	Arts, entertainment, and recreation	7 897	10	464	828	1 084	1 189	1 069	969	866	790	574	54
S	Other service activities	5 109	4	245	550	786	850	778	626	531	424	259	56

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 2018

status as of 31 March 2016

		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		180 560	199	7 721	19 010	25 647	28 211	26 353	24 010	22 566	18 171	7 976	696
A	Agriculture, forestry, and fishing	457	-	12	30	36	67	85	75	70	59	21	2
B	Mining and quarrying	208	-	-	11	22	39	35	33	35	28	5	-
C	Manufacturing	13 232	10	522	1 254	1 734	1 892	1 970	1 802	1 991	1 608	422	27
D	Electricity, gas steam, and air conditioning supply	1 498	1	15	104	194	216	212	211	220	248	77	-
E	Water supply; sewerage, waste management, and remediation activities	701	-	18	48	80	97	95	107	114	93	48	1
F	Construction	2 440	-	40	148	255	382	399	363	356	353	128	16
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	35 116	115	2 662	4 664	5 876	6 231	5 233	4 225	3 308	2 079	634	89

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

(Continued)

Status as of 31 March 2018

		Total	Age										
			Up to 18 years	19 – 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 – 59	60 – 64	65 years and more
H	Transportation and storage	4 604	-	128	291	431	561	830	791	801	594	170	7
I	Accommodation and food service activities	5 988	13	657	726	751	711	713	754	827	608	218	10
J	Information and communication	8 709	2	189	1 183	1 602	1 540	1 554	1 130	836	457	208	8
K	Financial and insurance activities	13 098	6	208	1 189	2 331	2 724	2 222	1 857	1 219	1 009	302	31
L	Real estate activities	1 978	-	57	172	231	257	286	297	350	240	85	3
M	Professional, scientific, and technical activities	11 847	9	229	1 832	2 160	2 086	1 742	1 304	1 100	865	443	77
N	Administrative and support service activities	9 659	21	869	1 347	1 331	1 270	1 181	1 289	1 204	859	244	44
O	Public administration and defence; compulsory social security	18 788	-	137	896	1 965	2 983	3 165	2 956	2 799	2 482	1 330	75
P	Education	22 498	9	223	1 930	2 821	3 240	2 974	3 168	3 368	2 921	1 721	123
Q	Human health and social work activities	22 278	3	1 275	2 353	2 760	2 792	2 636	2 767	3 122	2 954	1 489	127
R	Arts, entertainment, and recreation	4 491	8	309	480	623	646	570	543	506	472	305	29
S	Other service activities	2 970	2	171	352	444	477	451	338	340	242	126	27

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

	2011	2012	2013	2014	2015	2016	2017	2018
Total	327 988	329 635	321 273	312 556	318 472	342 042	335 870	359 576
of which: women	161 851	164 150	161 230	156 693	161 099	172 529	170 212	180 560
Full-time employees	292 135	290 266	280 912	270 880	272 726	286 989	278 889	296 565
of which: women	142 918	143 499	140 862	137 112	138 512	145 142	141 749	148 483

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

(Continued)

Status as of 31 March

	2011	2012	2013	2014	2015	2016	2017	2018
Part-time employees	33 464	36 967	38 210	39 789	43 981	53 370	55 713	61 654
of which: women	17 517	19 256	19 162	18 606	21 532	26 393	27 719	31 321
Trainees	2 389	2 402	2 151	1 887	1 765	1 683	1 268	1 357
of which: women	1 416	1 395	1 206	975	1 055	994	744	756

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 2018

		Total	Women	Full-time employees		Part-time employees		Trainees	
				Total	Women	Total	Women	Total	Women
Total		359 576	180 560	296 565	148 483	61 654	31 321	1 357	756
A	Agriculture, forestry, and fishing	990	457	832	378	157	79	1	-
B	Mining and quarrying	856	208	817	206	34	1	5	1
C	Manufacturing	36 940	13 232	30 341	11 245	6 405	1 922	194	65
D	Electricity, gas, steam, and air conditioning supply	4 163	1 498	4 038	1 448	92	39	33	11
E	Water supply; sewerage, waste management, and remediation activities	4 319	701	3 930	619	389	82	-	-
F	Construction	20 315	2 440	16 592	2 244	3 690	187	33	9
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	66 002	35 116	49 370	25 143	16 570	9 945	62	28
H	Transportation and storage	17 243	4 604	15 136	4 264	2 080	327	27	13
I	Accommodation and food service activities	11 212	5 988	8 214	4 443	2 983	1 537	15	8
J	Information and communication	22 049	8 709	19 169	7 417	2 810	1 271	70	21
K	Financial and insurance activities	19 542	13 098	18 066	12 143	1 390	903	86	52
L	Real estate activities	4 070	1 978	3 546	1 664	522	314	2	-
M	Professional, scientific, and technical activities	24 544	11 847	21 246	10 191	3 106	1 545	192	111
N	Administrative and support service activities	22 004	9 659	11 607	4 049	10 395	5 610	2	-
O	Public administration and defence; compulsory social security	34 184	18 788	32 363	17 654	1 686	1 069	135	65
P	Education	29 495	22 498	24 904	19 224	4 194	2 979	397	295
Q	Human health and social work activities	28 642	22 278	25 853	20 163	2 702	2 050	87	65
R	Arts, entertainment, and recreation	7 897	4 491	6 183	3 514	1 701	968	13	9
S	Other service activities	5 109	2 970	4 358	2 474	748	493	3	3

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
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
2018	17 450	9 063	3 054	957	2 444	3 785	4 165	961	1 674	3 464
Share, %										
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
2018	100.0	51.9	17.5	5.5	14.0	21.7	23.9	5.5	9.6	19.8

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
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
2018	17 450	3 054	1 464	1 428	902	1 275	2 147	3 470	2 583	1 127
Share, %										
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
2018	100.0	17.5	8.4	8.2	5.2	7.3	12.3	19.9	14.8	6.4

Source: Croatian Employment Service

6.17 Unemployed persons by duration of unemployment

Status as of 31 December

	Total	Number of people waiting for employment in months							
		Up to 1 month	1 – 3	3 – 6	6 – 9	9 – 12	12 – 24	24 – 36	More than 36 months
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
2018	17 450	1 690	3 850	2 433	1 092	928	1 780	923	4 754
Share, %									
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
2018	100.0	9.7	22.1	13.9	6.3	5.3	10.2	5.3	27.2

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
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
2018	17 450	361	1 351	2 212	1 667	1 709	1 693	1 757	2 062	2 552	2 086
Share, %											
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
2018	100.0	2.1	7.7	12.7	9.5	9.8	9.7	10.1	11.8	14.6	12.0

Source: Croatian Employment Service

In 2018, the average gross monthly earnings per employee amounted to 10 181 kuna, representing a 4.6% growth in comparison to 2017, when it equalled 9 730 kuna. The average net monthly earnings per employee amounted to 7 243 kuna, representing a 4.0% growth in comparison to 2017, when it equalled 6 962 kuna.

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.

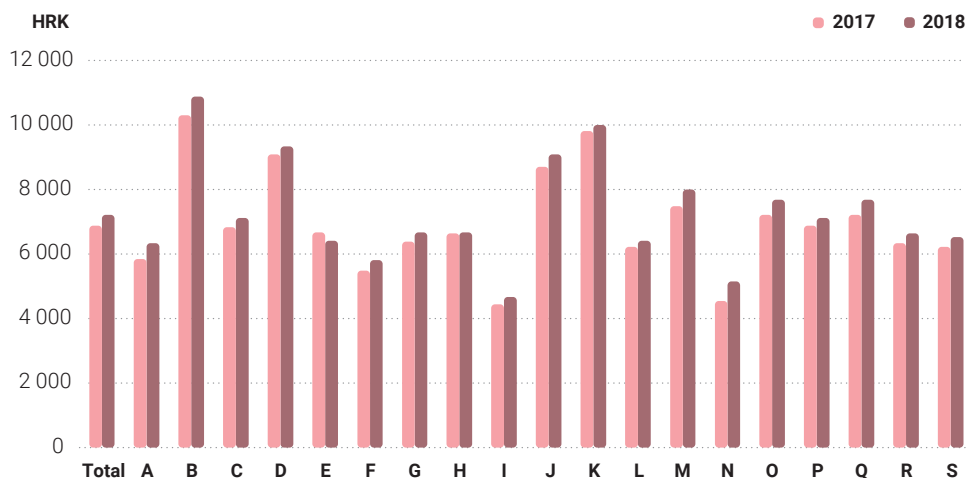
In data on average monthly earnings according to the level of professional qualifications, the term "professional qualifications" implies general and professional knowledge and skills of an employed person, which result from the range and complexity of tasks for a certain job position, as defined by regulations established by the employer. The 2015, 2016 and 2017 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 2018 2017
		2017	2018	
Total		6 962	7 243	104.0
A	Agriculture, forestry and fishing	6 006	6 333	105.4
B	Mining and quarrying	10 320	10 894	105.6
C	Manufacturing	6 938	7 102	102.4
D	Electricity, gas, steam and air conditioning supply	9 096	9 313	102.4
E	Water supply; sewerage, waste management and remediation activities	6 391	6 121	95.8
F	Construction	5 490	5 754	104.8
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	6 391	6 725	105.2
H	Transportation and storage	6 622	6 773	102.3
I	Accommodation and food service activities	4 466	4 691	105.0
J	Information and communication	8 850	9 204	104.0
K	Financial and insurance activities	9 805	9 990	101.9
L	Real estate activities	6 273	6 485	103.4
M	Professional, scientific and technical activities	7 606	8 008	105.3
N	Administrative and support service activities	4 545	5 160	113.5
O	Public administration and defence; compulsory social security	7 430	7 711	103.8
P	Education	6 955	7 133	102.6
Q	Human health and social work activities	7 365	7 607	103.3
R	Arts, entertainment and recreation	6 351	6 681	105.2
S	Other service activities	6 328	6 606	104.4

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 in legal entities of all forms of ownership by NCA 2007 sections for 2017 and 2018

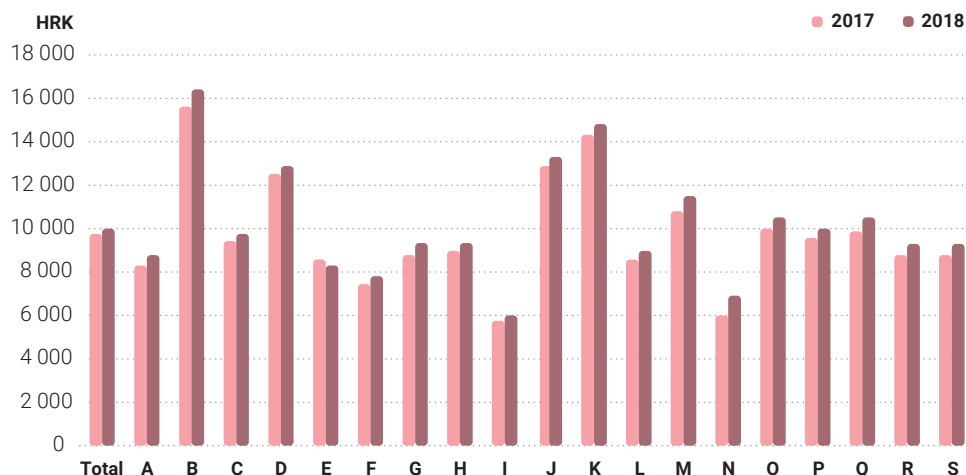


7.2 Average monthly gross earnings per person employed in legal entities of all forms of ownership by NCA 2007 sections

		Average monthly gross earnings per employed person in HRK		Nominal indices 2018 2017
		2017	2018	
Total		9 730	10 181	104.6
A	Agriculture, forestry and fishing	8 348	8 881	106.4
B	Mining and quarrying	15 528	16 527	106.4
C	Manufacturing	9 729	10 004	102.8
D	Electricity, gas, steam and air conditioning supply	12 586	12 960	103.0
E	Water supply; sewerage, waste management and remediation activities	8 690	8 323	95.8
F	Construction	7 458	7 876	105.6
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	8 947	9 468	105.8
H	Transportation and storage	9 137	9 392	102.8
I	Accommodation and food service activities	5 757	6 108	106.1
J	Information and communication	12 915	13 515	104.6
K	Financial and insurance activities	14 557	14 929	102.6
L	Real estate activities	8 785	9 131	103.9
M	Professional, scientific and technical activities	11 007	11 659	105.9
N	Administrative and support service activities	6 016	7 009	116.5
O	Public administration and defence; compulsory social security	10 097	10 537	104.4
P	Education	9 634	9 922	103.0
Q	Human health and social work activities	10 121	10 495	103.7
R	Arts, entertainment and recreation	8 830	9 374	106.2
S	Other service activities	8 874	9 290	104.7

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 2017 and 2018



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	Women	Higher education	Post-secondary education	Secondary education	Primary education	Highly skilled	Skilled	Semi-skilled	Unskilled
Net earnings in HRK											
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
2017 ¹⁾	6 990	7 489	6 481	9 843	7 249	5 492	4 130	7 466	5 051	4 788	3 890
Gross earnings in HRK											
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
2017 ¹⁾	10 050	10 789	9 296	14 890	10 345	7 519	5 373	10 433	6 774	6 303	5 111

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 2017 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		6 990	7 489	6 481	9 843	7 249	5 492	4 130	7 466	5 051	4 788	3 890
A	Agriculture, forestry and fishing	5 897	6 538	5 072	8 795	5 981	4 486	3 729	-	3 529	3 332	3 198
B	Mining and quarrying	9 637	9 816	9 168	10 965	9 324	6 246	4 396	8 684	3 979	7 598	5 003
C	Manufacturing	7 125	7 344	6 715	11 883	8 111	5 600	4 524	7 621	5 536	5 019	4 016
D	Electricity, gas, steam and air conditioning supply	8 599	8 582	8 642	11 003	7 997	7 139	5 334	7 654	7 290	5 433	5 282
E	Water supply; sewerage, waste management and remediation activities	6 173	6 219	5 931	8 246	7 564	6 093	5 370	7 514	5 941	5 266	5 968
F	Construction	5 809	5 715	6 405	9 827	7 572	5 334	3 997	5 901	5 002	4 752	3 917
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	6 756	7 451	6 076	12 063	8 129	5 372	4 315	7 062	4 700	3 634	4 946
H	Transportation and storage	6 699	6 787	6 466	9 731	8 749	5 278	4 615	8 089	5 213	5 582	4 597
I	Accommodation and food service activities	4 649	5 058	4 328	8 495	7 499	4 272	3 809	5 785	4 843	4 206	3 440
J	Information and communication	8 850	9 388	7 992	10 690	8 078	6 790	4 817	6 563	5 113	4 656	5 116
K	Financial and insurance activities	9 528	11 558	8 512	12 035	8 012	6 823	5 387	8 021	6 416	6 067	5 133
L	Real estate activities	6 323	6 895	5 652	10 412	6 937	5 680	4 948	5 690	4 439	3 311	3 977
M	Professional, scientific and technical activities	8 038	8 525	7 493	9 444	7 474	5 866	4 045	6 846	4 871	4 349	4 128
N	Administrative and support service activities	4 343	4 578	4 002	7 027	5 916	4 068	3 488	4 536	5 045	3 692	2 515

7.4 Average monthly net earnings per person employed in legal entities by sex and level of professional qualifications for 2017 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	7 205	7 964	6 537	8 795	6 826	5 785	3 868	5 775	4 820	5 443	3 272
P	Education	6 594	7 984	6 130	7 537	6 254	4 832	3 988	5 211	4 631	4 599	3 543
Q	Human health and social work activities	6 727	8 293	6 271	10 220	6 296	5 370	3 707	5 089	4 249	4 243	3 565
R	Arts, entertainment and recreation	6 451	7 030	5 991	8 058	6 906	5 512	4 764	7 073	5 470	4 497	4 670
S	Other service activities	6 407	7 023	5 932	8 681	7 023	5 209	3 977	6 914	4 185	5 021	3 729

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 2017 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		10 050	10 789	9 296	14 890	10 345	7 519	5 373	10 433	6 774	6 303	5 111
A	Agriculture, forestry and fishing	8 296	9 287	7 019	12 909	8 776	6 015	4 797	-	4 548	4 294	4 047
B	Mining and quarrying	14 275	14 503	13 676	16 661	13 413	8 649	5 835	12 310	4 974	10 259	6 575
C	Manufacturing	10 280	10 575	9 728	18 386	11 837	7 693	5 994	10 668	7 491	6 734	5 294
D	Electricity, gas, steam and air conditioning supply	12 459	12 346	12 745	16 554	11 374	9 993	7 152	10 698	10 136	7 274	7 096
E	Water supply; sewerage, waste management and remediation activities	8 391	8 435	8 154	11 859	10 661	8 214	7 117	10 534	7 952	6 897	8 249

7.5 Average monthly gross earnings per person employed in legal entities by sex and level of professional qualifications for 2017 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
F	Construction	8 064	7 888	9 172	14 811	10 772	7 272	5 170	7 905	6 733	6 321	5 084
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	9 792	10 862	8 744	19 025	11 928	7 396	5 678	10 206	6 274	4 659	6 733
H	Transportation and storage	9 390	9 481	9 152	14 489	12 766	7 124	6 020	11 364	6 954	7 464	6 039
I	Accommodation and food service activities	6 293	6 940	5 786	12 755	10 954	5 670	4 924	7 973	6 508	5 471	4 424
J	Information and communication	13 154	13 981	11 834	16 299	11 844	9 625	6 524	8 919	6 966	6 278	7 044
K	Financial and insurance activities	14 368	17 709	12 697	18 713	11 699	9 687	7 498	11 423	9 173	7 839	7 267
L	Real estate activities	8 978	9 827	7 981	16 069	9 876	7 803	6 644	7 717	5 866	4 209	5 173
M	Professional, scientific and technical activities	11 870	12 581	11 074	14 275	10 804	8 177	5 292	9 481	6 508	5 663	5 495
N	Administrative and support service activities	5 839	6 140	5 402	10 264	8 270	5 352	4 523	5 935	6 656	4 746	3 194
O	Public administration and defence; compulsory social security	10 140	11 150	9 252	12 811	9 391	7 751	4 957	8 014	6 350	7 431	4 166
P	Education	9 357	11 611	8 606	10 936	8 651	6 481	5 100	7 091	6 123	5 964	4 526
Q	Human health and social work activities	9 627	12 215	8 874	15 644	8 742	7 271	4 730	6 793	5 543	5 453	4 516
R	Arts, entertainment and recreation	9 117	9 996	8 420	11 739	9 932	7 584	6 291	9 781	7 363	5 981	6 344
S	Other service activities	9 112	10 002	8 425	12 917	10 035	7 111	5 191	9 941	5 506	6 597	4 899

¹⁾ See Notes on Methodology.

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

In 2018, retail price grew 1.7% in comparison to 2017, while cost of living in 2018 grew 1.8% in comparison to 2017.

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.

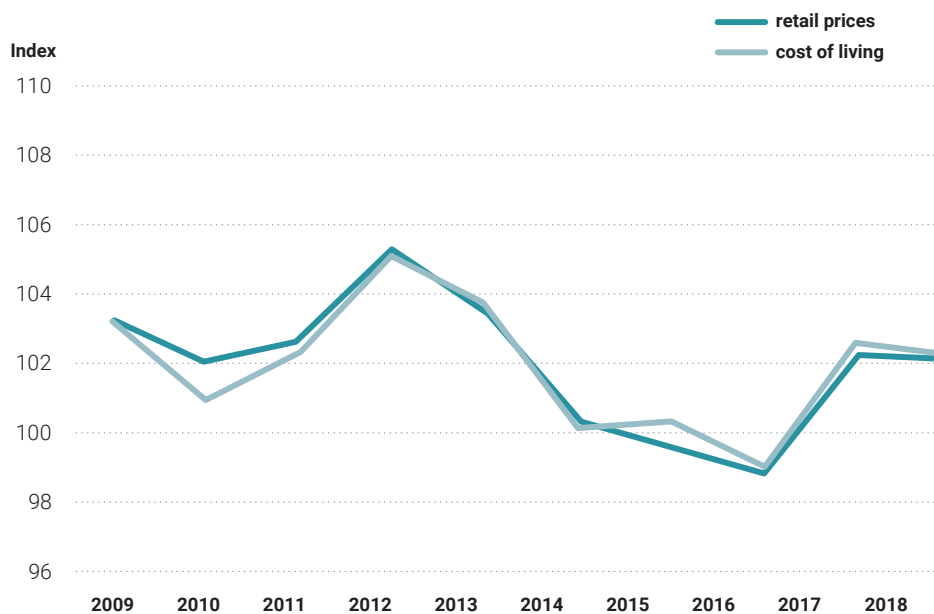
Index lists are the lists of products and services whose individual prices and the relevant weighting system are used to calculate the price index of a specific group. A separate, specific list exists for each price category. Elements of an index list, consisting of the above-mentioned goods and services,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

	2009 2008	2010 2009	2011 2010	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015	2017 2016	2018 2017
Retail prices – total	102.8	101.6	102.1	104.9	103.0	99.8	99.3	98.4	101.7	101.7
Goods	102.5	101.5	102.3	104.4	103.3	100.1	99.1	98.0	102.0	102.1
Agricultural food products	96.7	97.9	99.6	106.4	107.9	95.2	103.9	96.9	108.3	102.0
Industrial products – total	102.8	101.5	102.3	104.3	103.3	100.3	98.9	97.9	101.7	102.2
Food products	101.0	97.3	103.5	101.5	102.4	97.4	99.3	99.4	102.6	101.1
Non-food products	101.5	103.1	101.9	105.8	102.3	99.9	97.9	96.9	101.4	102.3
Beverages	103.9	97.3	100.4	97.4	101.5	101.5	100.7	100.7	100.4	100.5
Tobacco	120.0	103.4	105.9	105.2	113.4	108.3	102.0	100.1	102.8	103.4
Food products – total	100.5	97.3	102.9	102.2	103.2	97.3	99.9	99.0	103.4	101.1
Services	104.6	102.5	100.9	106.5	102.3	98.7	100.4	100.1	100.2	101.0

G 8.1 Changes in chain indices of retail prices and cost of living from 2009 to 2018



G 8.2 Changes in indices of retail prices and cost of living from 2010 to 2018



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

	2009 2008	2010 2009	2011 2010	2012 2011	2013 2012	2014 2013	2015 2014	2016 2015	2017 2016	2018 2017
Cost of living – total	102.8	100.5	101.8	104.7	103.3	99.6	99.8	98.5	102.1	101.8
Purpose of expenditure										
Food	100.5	96.1	102.3	103.7	104.4	97.1	99.5	97.8	104.6	101.1
Beverage	103.5	97.6	100.3	97.4	101.3	100.9	101.0	101.7	100.3	100.7
Tobacco	119.9	103.4	106.0	105.2	113.4	108.3	102.0	100.1	102.8	103.4
Clothing, footwear, and services	99.7	100.5	97.5	96.5	99.1	98.8	100.5	102.7	102.8	98.7
Housing and services	100.4	100.8	101.5	107.1	104.4	105.3	102.4	99.9	100.4	100.7
Heating, lighting, and services	109.6	109.3	101.6	116.4	105.7	99.9	99.1	91.8	95.2	102.6
Household equipment and services	104.1	101.5	102.4	101.8	100.7	98.9	97.0	97.6	100.1	101.1
Hygiene, health care, and services	111.5	101.3	101.8	101.8	103.2	101.3	101.6	102.2	101.5	100.1
Education, culture, leisure, and services	106.3	101.5	100.2	100.0	101.4	100.5	100.2	100.7	102.7	103.0
Means of transport, services, and post and telecommunication services	96.5	104.4	104.1	108.9	100.6	97.2	96.8	97.6	102.4	103.3
Administrative and other services	100.2	120.8	100.0	100.7	100.2	100.0	99.1	101.0	95.3	99.6
Goods										
Services	101.9	100.1	102.2	104.1	103.8	99.6	99.4	98.2	102.6	102.1
	105.1	102.5	100.9	106.0	102.6	100.1	100.9	99.4	100.2	100.7

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⁾

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
100.0	101.6	103.7	108.8	112.1	111.9	111.1	109.3	111.2	113.1
98.4	100.0	102.1	107.1	110.3	110.1	109.3	107.6	109.4	111.3
96.4	97.9	100.0	104.9	108.0	107.8	107.0	105.3	107.1	108.9
91.9	93.3	95.3	100.0	103.0	102.8	102.1	100.5	102.2	103.9
89.2	90.6	92.5	97.1	100.0	99.8	99.1	97.5	99.2	100.9
89.4	90.8	92.7	97.3	100.2	100.0	99.3	97.7	99.4	101.1
90.0	91.4	93.4	98.0	100.9	100.7	100.0	98.4	100.1	101.8
91.5	92.9	94.9	99.6	102.5	102.3	101.6	100.0	101.7	103.4
90.0	91.3	93.3	97.9	100.8	100.6	99.9	98.3	100.0	101.7
88.5	89.8	91.7	96.3	99.1	98.9	98.2	96.7	98.3	100.0

¹⁾ Data is to be read only horizontally.

8.5 Indices of cost of living¹⁾

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
100.0	100.5	102.3	107.1	110.6	110.2	110.0	108.4	110.7	112.7
99.5	100.0	101.8	106.6	110.1	109.7	109.5	107.9	110.2	112.2
97.7	98.2	100.0	104.7	108.2	107.8	107.6	106.0	108.2	110.1
93.3	93.8	95.5	100.0	103.3	102.9	102.7	101.2	103.3	105.2
90.3	90.8	92.4	96.8	100.0	99.6	99.4	97.9	100.0	101.8
90.7	91.2	92.8	97.2	100.4	100.0	99.8	98.3	100.4	102.2
90.9	91.4	93.0	97.4	100.6	100.2	100.0	98.5	100.6	102.4
92.3	92.8	94.4	98.9	102.1	101.7	101.5	100.0	102.1	103.9
90.4	90.9	92.5	96.9	100.0	99.6	99.4	97.9	100.0	101.8
88.8	89.3	90.9	95.2	98.2	97.8	97.6	96.2	98.2	100.0

¹⁾ Data is to be read only horizontally.

In 2018, the gross investments in fixed assets equalled 26.3 billion kuna, growing by 4.8% in comparison to 2015. Out of the total gross investments, 93% were gross investments in new fixed assets, which grew by 6.5% in comparison to 2015.

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

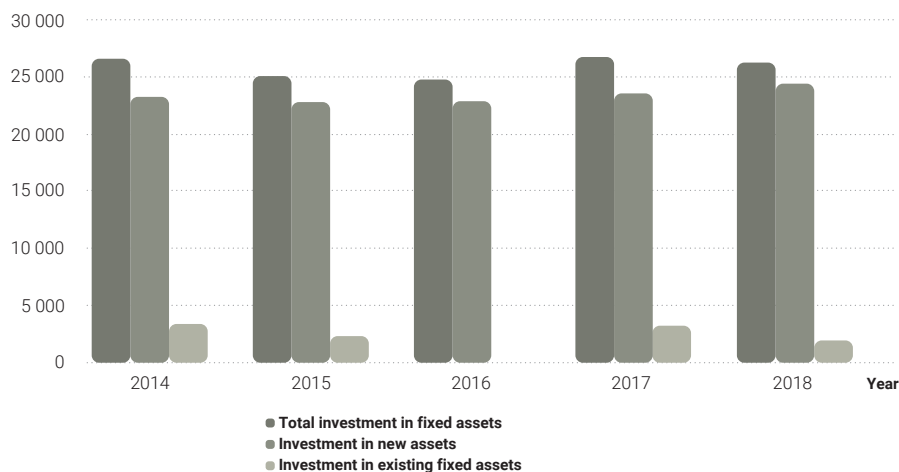
Thousands of HRK

	2014	2015	2016	2017	2018
Total	26 625 502	25 078 833	24 830 422	26 758 964	26 273 840
Investments in new fixed assets	23 291 397	22 828 609	22 924 846	23 586 374	24 311 286
In existing fixed assets	3 334 105	2 250 224	1 905 576	3 172 590	1 962 554

Source: CBS

G 9.1 Gross investment in fixed assets

mln. 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		26 758 964	14 570 642	207 838	7 288 482	890 355	2 484 131	1 317 516
2018 Total		26 273 840	14 568 230	222 219	6 005 737	939 093	3 250 102	1 288 459
A	Agriculture, forestry, and fishing	696 186	346 207	-	85 674	22 383	-	241 922
B	Mining and quarrying	162 955	162 955	-	-	-	-	-
C	Manufacturing	2 998 018	2 806 259	7 880	128 847	38 506	2 114	14 412
D	Electricity, gas, steam, and air conditioning supply	2 294 924	1 487 336	84 502	271 292	4 769	-	447 025
E	Water supply; sewerage, waste management, and remediation activities	445 332	171 385	96 254	112 898	-	61 816	2 979

9.2 Sources of financing/acquisition of investment in fixed assets

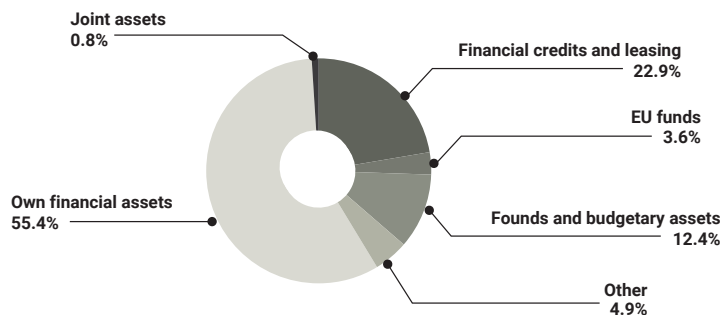
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Thousands of HRK

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
F	Construction	1 547 161	429 711	-	306 418	77 945	728 687	4 400
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	2 185 815	1 703 698	9 911	463 123	2 449	160	6 474
H	Transportation and storage	2 545 615	1 186 934	-	655 894	262 209	435 200	5 378
I	Accommodation and food service activities	353 744	215 527	2 549	130 286	106	1 557	3 719
J	Information and communication	3 224 378	2 886 769	-	97 224	40 764	4 522	195 099
K	Financial and insurance activities	3 509 277	1 463 979	-	2 035 198	5 458	-	4 642
L	Real estate activities	1 022 360	666 340	8 200	298 490	-	36 657	12 673
M	Professional, scientific, and technical activities	425 112	319 840	6 156	22 055	15 533	40 419	21 109
N	Administrative and support service activities	1 535 694	191 294	-	1 305 158	-	-	39 242
O	Public administration and defence; compulsory social security	2 604 869	120 868	4 982	48 437	382 122	1 814 082	234 378
P	Education	135 578	48 476	992	2 802	19 197	39 824	24 287
Q	Human health and social work activities	313 758	129 029	221	35 631	66 699	57 823	24 355
R	Arts, entertainment, and recreation	206 130	171 681	45	5 008	532	22 662	6 202
S	Other service activities	66 934	59 942	527	1 302	421	4 579	163

Source: CBS

G 9.2 Sources of financing/acquisition of investment in fixed assets in 2018



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 equipment	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		26 758 964	9 389 612	8 638 114	4 640 210	1 908 940	2 182 088
2018 Total		26 273 840	9 219 511	8 183 188	4 677 036	2 170 533	2 023 572
A	Agriculture, forestry, and fishing	696 186	101 080	101 660	31 632	1 580	460 234
B	Mining and quarrying	162 955	4 169	132 650	5 208	20 752	176
C	Manufacturing	2 998 018	808 715	1 818 310	63 768	179 643	127 582
D	Electricity, gas, steam, and air conditioning supply	2 294 924	957 423	1 287 549	16 814	23 161	9 977
E	Water supply; sewerage, waste management, and remediation activities	445 332	183 837	141 873	71 219	1 684	46 719
F	Construction	1 547 161	1 192 548	159 105	74 426	17 087	103 995
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	2 185 815	887 043	744 655	190 217	61 911	301 989
H	Transportation and storage	2 545 615	1 523 234	508 793	373 705	48 299	91 584
I	Accommodation and food service activities	353 744	203 038	82 454	8 326	2 308	57 618
J	Information and communication	3 224 378	482 850	1 366 777	7 214	1 183 093	184 444
K	Financial and insurance activities	3 509 277	247 839	433 584	2 212 693	393 596	221 565
L	Real estate activities	1 022 360	788 286	64 155	13 751	646	155 522
M	Professional, scientific, and technical activities	425 112	158 193	114 580	16 904	65 001	70 434
N	Administrative and support service activities	1 535 694	4 710	64 092	1 407 634	14 382	44 876
O	Public administration and defence; compulsory social security	2 604 869	1 546 928	636 190	158 017	133 439	130 295
P	Education	135 578	23 611	100 867	4 447	3 143	3 510
Q	Human health and social work activities	313 758	59 897	234 952	10 002	5 171	3 736
R	Arts, entertainment, and recreation	206 130	29 206	149 511	8 064	11 894	7 455
S	Other service activities	66 934	16 904	41 431	2 995	3 743	1 861

Source: CBS

9.4 Gross investment in new fixed assets by investment activity from Croatia and purpose activity by NCA 2007 in 2018

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
			A	B	C	D	E	F
Total		24 311 286	687 954	785 402	2 197 235	2 290 419	504 273	1 947 176
A	Agriculture, forestry, and fishing	690 289	687 659	-	-	-	-	-
B	Mining and quarrying	158 306	-	158 306	-	-	-	-
C	Manufacturing	2 828 145	-	555 176	2 130 068	312	-	446
D	Electricity, gas, steam, and air conditioning supply	2 287 051	-	-	-	2 287 051	-	-
E	Water supply; sewerage, waste management, and remediation activities	431 628	163	-	-	-	287 019	20 215
F	Construction	1 376 972	129	10 474	884	-	-	1 285 655
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	1 726 469	-	-	59 686	-	359	3 854
H	Transportation and storage	2 490 315	-	61 446	-	-	-	458 866
I	Accommodation and food service activities	312 201	-	-	1 651	-	-	-
J	Information and communication	3 216 579	-	-	1 662	-	-	-
K	Financial and insurance activities	3 074 195	-	-	-	-	-	-
L	Real estate activities	758 904	3	-	-	613	-	1 882
M	Professional, scientific, and technical activities	327 893	-	-	-	1 305	188	7 783
N	Administrative and support service activities	1 404 242	-	-	-	-	-	-
O	Public administration and defence; compulsory social security	2 529 153	-	-	-	1 138	216 707	168 475
P	Education	130 144	-	-	-	-	-	-
Q	Human health and social work activities	309 222	-	-	3 284	-	-	-
R	Arts, entertainment, and recreation	197 015	-	-	-	-	-	-
S	Other service activities	62 563	-	-	-	-	-	-

9.4 Gross investment in new fixed assets by investment activity from Croatia and purpose activity by NCA 2007 in 2018

(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		1 894 871	2 004 219	348 267	3 252 955	2 985 044	819 840	279 970
A	Agriculture, forestry, and fishing	368	2 217	-	-	-	-	-
B	Mining and quarrying	-	-	-	-	-	-	-
C	Manufacturing	135 674	-	-	4 834	-	-	1 298
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management, and remediation activities	-	21 698	5 899	3 154	-	69 973	-
F	Construction	934	-	15 604	-	-	61 057	2 056
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	1 620 554	10 976	-	10 861	-	17 486	883
H	Transportation and storage	26	1 968 124	-	-	-	787	-
I	Accommodation and food service activities	-	-	305 424	-	-	625	264
J	Information and communication	-	-	-	3 175 139	-	-	5 529
K	Financial and insurance activities	39 685	-	-	55 091	2 978 700	-	11
L	Real estate activities	39 640	-	5 455	-	323	637 763	5 513
M	Professional, scientific, and technical activities	44 245	-	15 328	-	-	1 088	247 584
N	Administrative and support service activities	13 697	525	360	-	40	-	15 307
O	Public administration and defence; compulsory social security	-	679	-	3 428	5 981	31 052	280
P	Education	-	-	-	-	-	-	1 245
Q	Human health and social work activities	48	-	-	-	-	-	-
R	Arts, entertainment, and recreation	-	-	197	-	-	-	-
S	Other service activities	-	-	-	448	-	9	-

9.4 Gross investment in new fixed assets by investment activity from Croatia and purpose activity by NCA 2007 in 2018

(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 activities of households for own use
		N	O	P	Q	R	S	T
Total		1 632 894	1 143 546	437 123	733 726	285 900	80 472	-
A	Agriculture, forestry, and fishing	45	-	-	-	-	-	-
B	Mining and quarrying	-	-	-	-	-	-	-
C	Manufacturing	-	-	-	-	337	-	-
D	Electricity, gas, steam, and air conditioning supply	-	-	-	-	-	-	-
E	Water supply; sewerage, waste management, and remediation activities	21 026	4	-	-	-	2 477	-
F	Construction	59	-	-	-	120	-	-
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	872	-	-	-	238	700	-
H	Transportation and storage	1 066	-	-	-	-	-	-
I	Accommodation and food service activities	3 932	-	305	-	-	-	-
J	Information and communication	-	-	34 187	-	-	62	-
K	Financial and insurance activities	708	-	-	-	-	-	-
L	Real estate activities	54 529	-	-	-	13 183	-	-
M	Professional, scientific, and technical activities	5 326	-	-	5 046	-	-	-
N	Administrative and support service activities	1 374 313	-	-	-	-	-	-
O	Public administration and defence; compulsory social security	168 196	1 142 451	276 955	422 847	75 810	15 154	-
P	Education	2 822	1 007	124 987	-	83	-	-
Q	Human health and social work activities	-	84	-	305 806	-	-	-
R	Arts, entertainment, and recreation	-	-	689	-	196 129	-	-
S	Other service activities	-	-	-	27	-	62 079	-

Source: CBS

In 2018, the total City budget revenues grew faster than the total expenditure in comparison to 2017 (9.6% growth of total revenues in comparison to 8.8% growth of total expenditure). In the total budget funds, most resources were designated to education (20.4%, i.e. 1.95 billion kuna).

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 on the Zagreb Holding Group d. o. o. structure, employees and financial report of the Group were obtained from the Zagreb Holding Group.

On 1 January 2018, the City Office for Economy, Work and Entrepreneurship became the City Office for Economy, Energetics and Environment Protection and took over the activities and staff of the abolished City Office for Energetics, Environmental Protection and Sustainable Development (Official Gazette of the City of Zagreb No. 19/17).

The City Office of International Relations and Human Rights was established on 1 January 2018 and took over part of the Mayor's Office activities and staff.

The City Office for Demography was established on 1 January 2018 and took over part of activities and staff of the City Office for Strategic Planning and Development of the City, City Office for Social Protection and People with Disabilities and City Office for Education, Culture and Sport (Official Gazette of the City of Zagreb No. 19/17).

The Professional Service of the City Assembly was established on 5 February 2019 as a city administrative body (Official Gazette of the City of Zagreb No. 2/19).

Definitions and explanations

City administrative bodies, which constitute the City Administration in a specific way, are established for performing tasks within the scope of the City of Zagreb and for performing the entrusted tasks of the state administration in accordance with the law, the Statute of the City of Zagreb and other regulations. City administrative bodies are established as sectors, bureaus and offices, which constitute the City Administration in the narrow sense. The official decision on their constitution and scope is made by the City Assembly of the City of Zagreb in line with the provisions of Article 13 of the City of Zagreb Act (Official Gazette Nos 62/01, 125/08, 36/09 and 119/14).

On 1 January 2017, Service for Local Self-Administration changed its name into City Office for the Local Self-Administration (Official Gazette of the City of Zagreb No. 23/16).

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. The local offices of city administration were established in accordance with Article 23 of the Decision on the Organisation and Scope of City Administrative Bodies (Official Gazette of the City of Zagreb Nos 11/05 and 16/09).

City Districts along with a local committees, is a form of local self-government in the City of Zagreb through which citizens participate in the decision-making process in a self-governing areas of the City and local affairs that directly affect their daily lives and work.

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

City districts were established by the Statute of the City of Zagreb (Official Gazette of the Republic of Croatia, No. 19/00), and the boundaries of City Districts are determined by the Decision on the boundaries of areas and headquarters of city districts (Official Gazette of the City of Zagreb Nos 7/09 and 5/17).

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) and it is based on the Accounting Act (OG Nos 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. The budget is adopted by the City Assembly at the proposal of the Mayor.

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.

Budget expenditure according to purpose refers to budgetary funds spent for education, health care, city transport service, maintenance of public areas, property owned by the City, culture, sport, environmental protection, social protection, construction and maintenance of utility infrastructure, aimed at the improvement of quality of life and living conditions of the citizens of Zagreb.

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 (public health institutions, health centres, polyclinics, hospitals and institutes, pre-schools, primary and secondary schools, social welfare institutions, fire departments etc.)

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. Zagreb Holding d. o. o. was established to perform public services and activities that are of interest of the City.

Its activities are grouped in four business areas: municipal, traffic, trade and energy. 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⁾

1.	Professional 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
25.	Professional Service of the City Assembly

¹⁾ See Notes on Methodology.

10.2 Branch offices of the City Administration¹⁾

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

¹⁾ See Notes on Methodology.

10.3 City districts of Zagreb¹⁾

Status as of 15 September 2019

	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	Mirjana Džaja ²⁾	President of the City District Council	15
		Luka Bogdan ³⁾	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
		Dražan Hrkač ⁴⁾	Vice-President of the City District Council	
8.	Trešnjevka - sjever	Ivan Butorac	President of the City District Council	19
		Kristijan Jelić ⁵⁾	Vice-President of the City District Council	
9.	Trešnjevka - jug	Ivan Magić ⁶⁾	President of the City District Council	19
		Danijel Samaržija	Vice-President of the City District Council	
10.	Črnomerec	Martin Postružin	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
		Ninoslav Vranješ ⁷⁾	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
		Jure Šarić ⁸⁾	Vice-President of the City District Council	
14.	Podsused - Vrapče	Dejan Kljajić	President of the City District Council	15
		Aljoša Bosnar	Vice-President of the City District Council	
15.	Podsljeme	Krešimir Kompesak	President of the City District Council	11
		Nenad Cebić	Vice-President of the City District Council	
16.	Sesvete	Stjepan Kezerić	President of the City District Council	19
		Dražan 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⁾ See Notes on Methodology.²⁾ Until 17 June 2019 Luka Bogdan was acting President.³⁾ Until 17 June 2019 Dijana Pečkaj Vuković was acting Vice-President.⁴⁾ Until 19 March 2019 Željko Fiočić was acting Vice-President.⁵⁾ Until 16 May 2019 Gabrijela Ivanov was acting Vice-President.⁶⁾ Until 29 August 2019 Jasmina Zuber Majerić was acting President.⁷⁾ Until 1 July 2019 Miroslav Kožul was acting Vice-President.⁸⁾ Until 2 August Zdravko Barešić was acting Vice-President.

10.4 Employees in administrative bodies of the City of Zagreb by age groups

Status as of 31 December

Age groups	Number of employees					Structure of employees, %		Indices 2018 2017
	2014	2015	2016	2017	2018	2017	2018	
Total	2 997	2 893	2 860	2 935	3 022	100.0	100.0	103.0
19 - 24	22	10	12	17	26	0.6	0.9	152.9
25 - 34	491	422	383	422	457	14.4	15.1	108.3
35 - 44	871	868	875	877	874	29.9	28.9	99.7
45 - 54	820	829	844	878	939	29.9	31.1	106.9
55 - 64	745	725	703	700	692	23.8	22.9	98.9
65 and over	48	39	43	41	34	1.4	1.1	82.9

Source: City of Zagreb, Professional Service of the Mayor;
processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

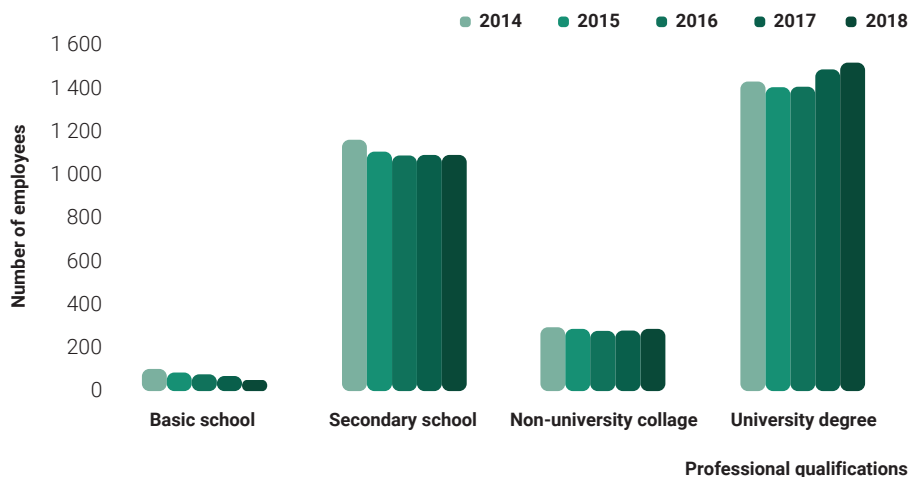
10.5 Employees in administrative bodies of the City of Zagreb by professional attainment and sex

Status as of 31 December

	Total	Professional attainment level				Sex	
		Basic school	Secondary school	Non-university college	University degree	Women	Men
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
2018	3 022	61	1 097	289	1 575	1 951	1 071

Source: GZ, SSG

G 10.1 Employees in administrative bodies of the City of Zagreb by professional attainment from 2014 to 2018



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

Name of administrative body	Status as of 31 December				
	2014	2015	2016	2017	2018
Total	2 997	2 893	2 860	2 935	3 022
Professional service of the Mayor	128	126	129	146	161
The Mayor's Office	340	344	359	364	342
City Control Office	22	27	27	24	24
City Office for the Strategic Planning and Development of the City	63	64	73	82	78
City Assembly Professional Service	329	308	304	301	291
City Office for Economy, Business and Entrepreneurship ¹⁾	96	95	95	94	-
City Office for Energetics, Environment protection and Sustainable development ¹⁾	47	48	46	47	-
CO for Economy, Energetics and Environment Protection ¹⁾	-	-	-	-	153
City Office for Education, Culture and Sport ¹⁾	129	122	126	123	-
CO for Education ¹⁾	-	-	-	-	81
City Office for Health	43	41	39	36	41
City Office for social protection and people with disabilities	74	70	69	83	72
City Office for Agriculture and Forestry	49	49	51	52	58
City Office for Physical Planning, Construction of the City, Utility Services and Transport	762	717	652	661	652
City Office for Legal-Property Relations and the City's assets	237	228	238	242	248
City Office for Cadastre and Geodetic activities	174	167	166	163	162
City Office of emergency management	20	22	23	24	24
City Institute for the Conservation of Cultural and Natural Meritage	32	33	34	33	39
CO for Demography ¹⁾	-	-	-	-	27
CO for Sport and Youth ¹⁾	-	-	-	-	20
CO for Culture ¹⁾	-	-	-	-	29
CO of International Relations and Human Rights ¹⁾	-	-	-	-	37
City Office for the Local Self-Administration ¹⁾	130	128	128	146	156
City Office for Financing	138	116	118	119	129
City Office for War Veterans	52	50	48	51	49
Public Procurement Office	74	73	73	79	76
Office for EU programs and projects	13	18	16	20	29
Professional Service of the City Assembly ¹⁾	45	47	46	45	44

¹⁾ See Notes on Methodology.

Source: GZ, SSG

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

Status as of 31 December

Name of administrative body	2017					2018				
	Total	Level of Education				Total	Level of Education			
		Primary	Secondary	Higher	High		Primary	Secondary	Higher	High
Total	2 935	68	1 095	280	1 492	3 022	61	1 097	289	1 575
Professional service of the Mayor	146	2	39	23	82	161	2	46	25	88
The Mayor's Office	364	7	208	16	133	342	5	198	16	123
City Control Office	24	-	2	1	21	24	-	2	-	22
City Office for the Strategic Planning and Development of the City	82	-	22	12	48	78	-	20	10	48
City Office for General Administration	301	47	195	15	44	291	45	190	12	44
City Office for Economy, Business and Entrepreneurship ¹⁾	94	-	25	13	56	-	-	-	-	-
City Office for Energetics, Environment protection and Sustainable development ¹⁾	47	-	7	3	37	-	-	-	-	-
CO for Economy, Energetics and Environment Protection ¹⁾	-	-	-	-	-	153	-	32	15	106
City Office for Education, Culture and Sport ¹⁾	123	1	20	15	87	-	-	-	-	-
CO for Education ¹⁾	-	-	-	-	-	81	-	15	14	52
City Office for Health	36	-	4	6	26	41	-	4	4	33
City Office for social protection and people with disabilities	83	-	17	10	56	72	-	10	8	54
City Office for Agriculture and Forestry	52	-	6	2	44	58	-	8	2	48
City Office for Physical Planning, Construction of the City, Utility Services and Transport	661	4	165	79	413	652	3	166	78	405
City Office for Legal-Property Relations and the City's assets	242	2	94	22	124	248	2	98	23	125
City Office for Cadastre and Geodetic activities	163	5	89	12	57	162	4	89	12	57
City Office of emergency management	24	-	7	3	14	24	-	7	3	14
City Institute for the Conservation of Cultural and Natural Meritage	33	-	5	1	27	39	-	6	1	32
CO for Demography ¹⁾	-	-	-	-	-	27	-	9	5	13

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

(Continued)

Status as of 31 December

Name of administrative body	2017					2018				
	Total	Level of Education				Total	Level of Education			
		Primary	Secondary	Higher	High		Primary	Secondary	Higher	High
CO for Sport and Youth ¹⁾	-	-	-	-	-	20	-	1	2	17
CO for Culture ¹⁾	-	-	-	-	-	29	-	4	2	23
CO of International Relations and Human Rights ¹⁾	-	-	-	-	-	37	-	5	3	29
City Office for the Local Self-Administration ¹⁾	146	-	75	15	56	156	-	78	14	64
City Office for Financing	119	-	55	23	41	129	-	52	30	47
City Office for War Veterans	51	-	16	6	29	49	-	16	7	26
Public Procurement Office	79	-	22	2	55	76	-	22	2	52
Office for EU programs and projects	20	-	3	1	16	29	-	3	1	25
Professional Service of the City Assembly ¹⁾	45	-	19	-	26	44	-	16	-	28

¹⁾ See Notes on Methodology.

Source: GZ, SSG

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

Status as of 31 December

Name of administrative body	2017			2018		
	Total	Women	Men	Total	Women	Men
Total	2 935	1 903	1 032	3 022	1 951	1 071
Professional service of the Mayor	146	104	42	161	112	49
The Mayor's Office	364	134	230	342	116	226
City Control Office	24	17	7	24	16	8
City Office for the Strategic Planning and Development of the City	82	61	21	78	58	20
City Office for General Administration	301	242	59	291	233	58
City Office for Economy, Business and Entrepreneurship ¹⁾	94	75	19	-	-	-
City Office for Energetics, Environment protection and Sustainable development ¹⁾	47	31	16	-	-	-
CO for Economy, Energetics and Environment Protection ¹⁾	-	-	-	153	113	40
City Office for Education, Culture and Sport ¹⁾	123	90	33	-	-	-
CO for Education ¹⁾	-	-	-	81	61	20
City Office for Health	36	27	9	41	34	7

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

(Continued)

Status as of 31 December

Name of administrative body	2017			2018		
	Total	Women	Men	Total	Women	Men
City Office for social protection and people with disabilities	83	72	11	72	59	13
City Office for Agriculture and Forestry	52	29	23	58	32	26
City Office for Physical Planning, Construction of the City, Utility Services and Transport	661	362	299	652	351	301
City Office for Legal-Property Relations and the City's assets	242	178	64	248	178	70
City Office for Cadastre and Geodetic activities	163	98	65	162	98	64
City Office of emergency management	24	10	14	24	11	13
City Institute for the Conservation of Cultural and Natural Meritage	33	27	6	39	33	6
CO for Demography ¹⁾	-	-	-	27	23	4
CO for Sport and Youth ¹⁾	-	-	-	20	8	12
CO for Culture ¹⁾	-	-	-	29	24	5
CO of International Relations and Human Rights ¹⁾	-	-	-	37	33	4
City Office for the Local Self-Administration ¹⁾	146	89	57	156	94	62
City Office for Financing	119	106	13	129	109	20
City Office for War Veterans	51	43	8	49	41	8
Public Procurement Office	79	60	19	76	57	19
Office for EU programs and projects	20	12	8	29	19	10
Professional Service of the City Assembly ¹⁾	45	36	9	44	38	6

¹⁾ See Notes on Methodology.

Source: GZ, SSG

10.9 City of Zagreb Budget revenues

Thousands of HRK

	2016	2017	2018	Indices	
				2017 2016	2018 2017
Total revenues	8 169 749	8 322 285	9 122 568	101.9	109.6
Operating revenues	8 118 020	8 169 848	9 065 269	100.6	111.0
Tax revenues	4 825 406	4 592 510	5 394 842	95.2	117.5
Personal income tax and surtax	4 528 495	4 299 628	4 928 652	94.9	114.6
Property taxes	171 229	193 781	376 741	113.2	194.4
Taxes on goods and services	125 682	99 101	89 449	78.9	90.3
Aid (grants)	175 677	433 788	298 536	246.9	68.8
Revenues from assets	415 291	420 079	480 559	101.2	114.4
Revenues from financial assets	7 058	1 828	69 286	25.9	¹⁾
Revenues from non-financial assets	407 975	418 052	411 048	102.5	98.3

10.9 City of Zagreb Budget revenues

(Continued)

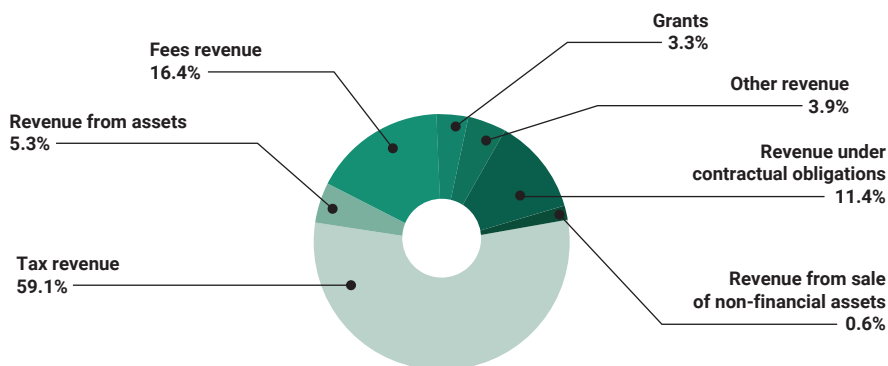
Thousands of HRK

	2016	2017	2018	Indices	
				<u>2017</u> 2016	<u>2018</u> 2017
Revenues from interest on loans extended	258	199	225	77.1	113.1
Revenues from administrative fees, fees from special regulations	1 381 003*	1 396 462	1 501 572	101.1	107.5
Administrative fees	49 597	46 968	40 440	94.7	86.1
Revenues generated as per special regulations	499 843	514 578	548 206	102.9	106.5
Communal contributions and fees	831 563	834 916	912 926	100.4	109.3
Revenue from applicable budget under contractual obligations	1 016 888	1 017 487	1 044 745	100.1	102.7
Other revenues	303 755	309 522	345 015	101.9	111.5
Revenues from sale of non-financial assets	51 729	152 437	57 299	294.7	37.6
Revenues from sale of non-produced fixed assets	22 294	120 804	21 088	541.9	17.5
Revenues from sale of tangible assets – natural resources	21 345	118 455	15 799	555.0	13.3
Revenues from sale of non-tangible assets	949	2 349	5 290	247.5	225.2
Revenues from sale of produced fixed assets	29 435	31 633	36 211	107.5	114.5
Revenues from sale of buildings	28 830	30 972	35 937	107.4	116.0
Other revenues from the sale of plants and equipment	312	477	112	152.9	23.5
Revenue from sale of means of transport	293	184	163	62.8	88.6

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 2018



10.10 City of Zagreb Budget expenditures

Thousands of HRK

	2016	2017	2018	Indices	
				<u>2017</u> 2016	<u>2018</u> 2017
Total expenditures	8 168 401	8 762 208	9 530 416	107.3	108.8
Business expenditures	7 582 700	8 078 017	8 428 090	106.5	104.3
Employee expenses	2 542 695	2 701 594	2 797 789	106.2	103.6
Material expenditures	3 021 186	3 120 156	3 191 704	103.3	102.3
Financial expenses	106 907	95 175	140 536	89.0	147.7
Subsidies	650 627	694 527	734 603	106.7	105.8
Grants	78 665	55 570	71 693	70.6	129.0
Compensation to citizens and households based on insurance and other compensations	441 657	645 820	727 526	146.2	112.7
Other expenses	740 963	765 175	764 239	103.3	99.9
Expenses for acquisition of non-financial assets	585 701	684 191	1 102 326	116.8	161.1
Expenses for acquisition of non-produced assets	21 410	30 160	31 092	140.9	103.1
Expenses for acquisition of produced fixed assets	498 856	574 977	936 061	115.3	162.8
Expenses for purchase of precious metals and other valuables	76	178	97	234.2	54.5
Expenses for additional investments in nonfinancial assets	65 359	78 876	135 076	120.7	171.3

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

10.11 City of Zagreb financing account

Thousands of HRK

	2016	2017	2018	Indices	
				<u>2017</u> 2016	<u>2018</u> 2017
Receipts from financial assets and borrowing	221 302	394 824	633 255	178.4	160.4
Extended loans principles repayment receipts (returns)	4 435	25 981	37 440	585.8	144.1
Receipts from sale of shares and stakes	358	106	26	29.6	24.5
Receipts from sale of shares and stakes	216 509	368 737	595 789	170.3	161.6
Financial assets and loan repayment expenses	282 824	404 006	364 053	142.8	90.1
Expenses for extended loans and deposits	23 371	25 597	28 751	109.5	112.3
Expenses for investments in securities	-	-	-	-	-
Expenses for principal repayment of loans received	259 410	378 409	335 292	145.9	88.6
Expenses for shares and stakes	43	-	10	-	-
Net lending/borrowing	- 61 522	- 9 182	269 202	14.9	¹⁾

¹⁾ The index exceeds 999.9.

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

10.12 Administrative bodies of the City of Zagreb Budget expenditures

	Thousands of HRK		
	2016	2017	2018
Total	8 451 225	9 166 214	9 894 469
Professional service of the Mayor	78 929	80 418	93 159
The Mayor's Office	134 925	140 481	118 270
City Control Office	5 528	5 769	5 607
City Office for the Strategic Planning and Development of the City	23 578	29 228	31 844
City Office for General Administration	48 395	54 135	53 146
City Office for Economy, Work and Entrepreneurship ¹⁾	798 799	948 161	-
City Office for Energetics, Environmental Protection and Sustainable Development ¹⁾	92 757	86 348	-
City Office for Economy, Energetics and Environment Protection ¹⁾	-	-	1 157 449
City Office for Education, Culture and Sport ¹⁾	2 680 339	3 028 862	-
City Office for Education ¹⁾	-	-	1 795 625
City Office for Health	1 442 899	1 508 049	1 649 530
City Office for Social Protection and People with Disabilities	588 622	593 203	505 032
City Office for Agriculture and Forestry	99 899	83 527	78 965
City Office for Physical Planning, Construction of the City, Utility Services and Transport	1 295 433	812 196	1 094 881
City Office for Legal – Property Relations and the City's assets	456 746	501 731	512 127
City Office for Cadastre and Geodetic activities	29 027	31 313	32 457
City Office of emergency management	99 907	100 179	104 222
City Institute for the Conservation of Cultural and Natural Heritage	6 844	7 981	8 356
City Office for Demography ¹⁾	-	-	408 101
City Office for Sport and Youth ¹⁾	-	-	576 875
City Office for Culture ¹⁾	-	-	620 495
City Office of International Relations and Human Rights ¹⁾	-	-	24 220
City Office for the Local Self-Administration ¹⁾	285 278	825 259	760 279
City Office for Financing	213 771	243 203	195 786
City Office for War Veterans	20 240	21 792	21 271
Public Procurement Office	13 658	17 099	16 335
Office for EU programs and projects	6 203	5 142	6 777
Professional Service of the City Assembly ¹⁾	29 448	42 138	23 660

¹⁾ See Notes on Methodology.

Source: GUF

10.13 City of Zagreb Budget expenditures by purpose

Thousands of HRK

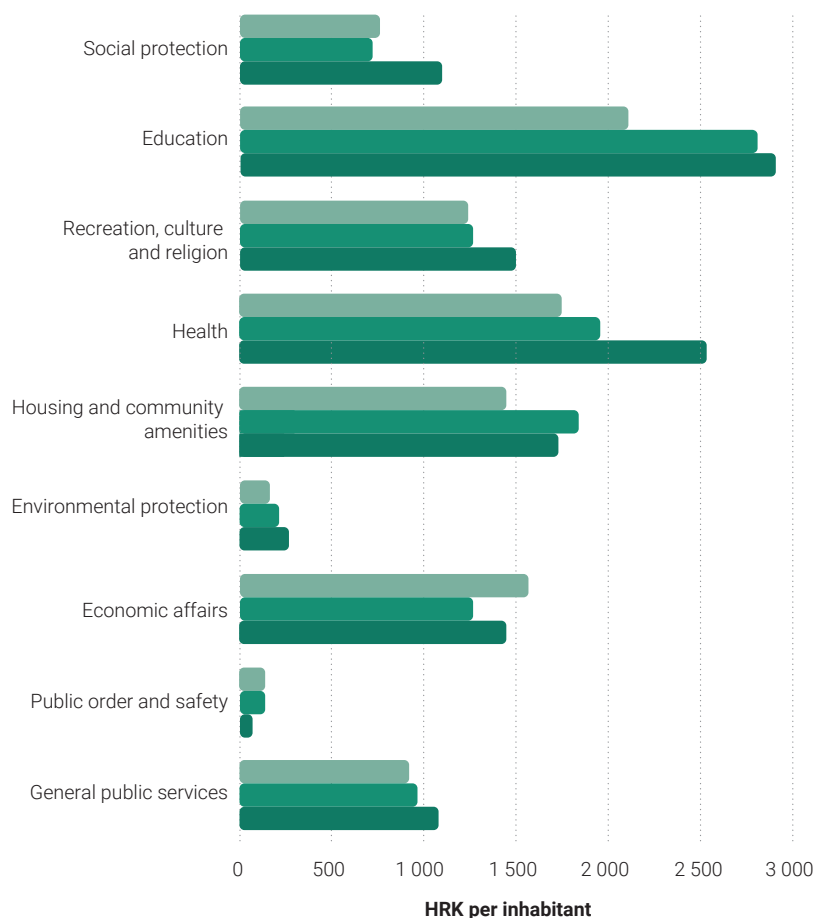
	2016	2017	2018	Structure, % 2018	Indices	
					2017 2016	2018 2017
Total	8 168 401	8 762 208	9 530 416	100.0	107.3	108.8
General public services	737 314	797 900	883 653	9.3	108.2	110.7
Public order and safety	94 416	94 837	85 466	0.9	100.4	90.1
Economic affairs	1 258 708	1 020 437	1 162 974	12.2	81.1	114.0
Environmental protection	137 421	163 986	298 711	3.1	119.3	182.2
Housing and community amenities	1 170 515	1 486 118	1 426 605	15.0	127.0	96.0
Health	1 403 724	1 476 862	1 635 004	17.2	105.2	110.7
Recreation, culture and religion	1 020 007	1 076 226	1 207 050	12.7	105.5	112.2
Education	1 726 489	2 031 894	1 945 082	20.4	117.7	95.7
Social protection	619 807	613 948	885 871	9.3	99.1	144.3

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

G 10.3 City of Zagreb Budget expenditures by purpose, per inhabitant¹⁾, 2016–2018

Expenditures by purpose

2016 2017 2018



¹⁾ The population data is estimated on the basis of the 2011 Census, natural change and net migration data.

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

Status as of 31 December 2018

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.	Zagrebparking	Services at public parking lots and garages
13.	ZGOS Landfill Management	Waste collection and disposal
14.	Zrinjevac	Landscaping and maintenance of green spaces
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
	1. Elektrometal - distribucija plina d.o.o. ¹⁾	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

¹⁾ Since 16 August 2018, 100 percent owned by Zagreb City Gasworks d.o.o.

Source: ZH

10.15 Employees in the Zagreb Holding Group

Status as on 31 December

	2016	2017	2018 ¹⁾
Employees - total	10 394	11 286	7 529
Women			
In the total number of employees, %	23	23	26
In management positions, %	57	54	46

¹⁾ In January 2018, the subsidiaries of the Zagreb Holding Company: Zagreb Electric Tram and Zagreb Fair were separated and established as d.o.o.

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

10.16 Employees of the Zagreb Holding Group, by age groups

Status as on 31 December

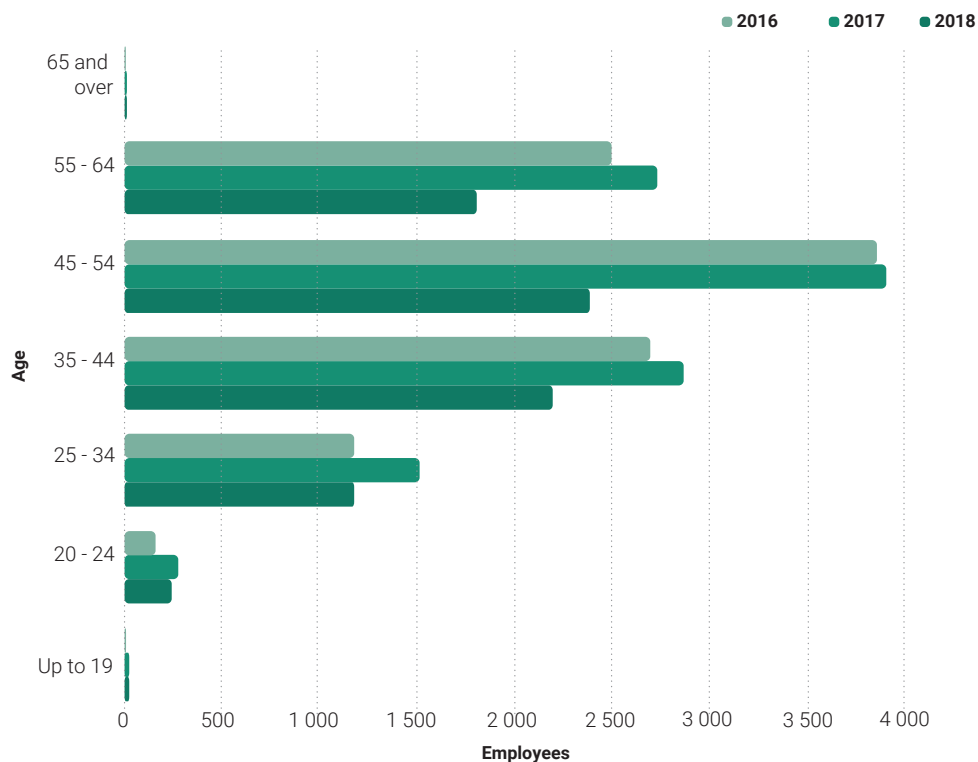
Age groups	Number of employees			Employment structure, %			Indices	
	2016	2017	2018 ¹⁾	2016	2017	2018 ¹⁾	<u>2017</u> 2016	<u>2018</u> 2017
Total	10 394	11 286	7 529	100.0	100.0	100.0	108.6	66.7
Up to 19	1	20	13	0.0	0.2	0.2	²⁾	65.0
20 - 24	155	272	267	1.5	2.4	3.5	175.5	98.2
25 - 34	1 173	1 508	1 206	11.3	13.4	16.0	128.6	80.0
35 - 44	2 689	2 859	2 113	25.9	25.3	28.1	106.3	73.9
45 - 54	3 849	3 898	2 399	37.0	34.5	31.9	101.3	61.5
55 - 64	2 525	2 724	1 526	24.3	24.1	20.3	107.9	56.0
65 and over	2	5	5	0.0	0.1	0.1	250.0	100.0

¹⁾ In January 2018, the subsidiaries of the Zagreb Holding Company: Zagreb Electric Tram and Zagreb Fair were separated and established as d.o.o.

²⁾ Index exceeds 999.9.

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

G 10.4 Employees of the Zagreb Holding Group, by age groups, 2016 - 2018



10.17 Profit and loss account of the Zagreb Holding Group

Thousands of HRK

	2016	2017	2018 ¹⁾	Indices	
				2017 2016	2018 2017
Total income	5 282 222	5 428 744	4 017 610	102.8	74.0
Operating income	5 045 106	5 221 257	3 847 177	103.5	73.7
Sales income	3 842 428	3 793 578	3 263 744	98.7	86.0
Other operating income	1 202 678	1 427 679	583 433	118.7	40.9
Financial income	237 116	207 487	170 433	87.5	82.1
Total expenses	5 171 912	5 413 318	3 916 607	104.7	72.4
Operating expenses	4 841 253	5 118 880	3 690 372	105.7	72.1
Cost of material and services	2 263 344	2 244 894	1 931 273	99.2	86.0
Staff costs	1 609 351	1 678 606	1 057 120	104.3	63.0
Depreciation	548 140	529 667	377 135	96.6	71.2
Value adjustment of assets	167 283	423 624	152 475	253.2	36.0
Provisioning	107 998	106 342	67 037	98.5	63.0
Other operating expenses	145 137	135 747	105 332	93.5	77.6
Financial expenses	330 659	294 438	226 235	89.0	76.8
Profit before tax	110 310	15 426	101 003	14.0	654.8
Tax (expense)	- 35 378	- 13 722	28 493	38.8	-
Profit in the year	74 932	1 704	72 510	2.3	²⁾
Other comprehensive profit					
Profit from revaluation of real estate properties (net)	86 675	-	4 945	-	-
Profit from valuation of available-for-sale financial assets	4 610	- 2 606	1 008	-	-
Other changes in comprehensive profit	- 37 137	-	-	-	-
Total comprehensive profit in the year	129 080	- 902	78 463	-	²⁾

¹⁾ In January 2018, the subsidiaries of the Zagreb Holding Company: Zagreb Electric Tram and Zagreb Fair were separated and established as d.o.o.

²⁾ Index exceeds 999.9.

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

	2016		2017		2018	
	Plots		Plots		Plots	
	Area, ha	Number	Area, ha	Number	Area, ha	Number
Total	7 336	17 230	7 541	17 696	7 469	17 917
Arable land	5 108	10 189	5 293	10 488	5 295	10 480
Greenhouses	39	390	39	398	41	441
Meadows	1 713	3 982	1 697	4 030	1 628	4 139
Grazing land	82	130	57	108	64	113
Vineyards	101	1 015	100	1 003	100	982
Orchards	258	1 384	288	1 533	301	1 599
Plant nurseries	11	9	14	13	3	11
Permanent cropland, mixed crops	12	82	12	76	12	75
Other types of land	12	49	41	47	25	77

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

11.2 Number of domestic animals

	2016	2017	2018
Cattle			
Number of heads	3 030	3 145	2 600
Number of farms	479	448	344
Average number of livestock per farm	6.3	7.0	7.6
Pigs			
Number of heads	9 522	9 073	5 481
Number of farms	1 064	1 037	378
Average number of livestock per farm	8.9	8.8	14.5
Sheep			
Number of heads	2 461	2 345	3 125
Number of farms	68	74	79
Average number of livestock per farm	36.2	31.7	39.6
Goats			
Number of heads	473	506	599
Number of farms	62	69	70
Average number of livestock per farm	7.6	7.3	8.6
Horses			
Number of heads	559	588	601
Number of farms	101	102	105
Average number of livestock per farm	5.5	5.8	5.7

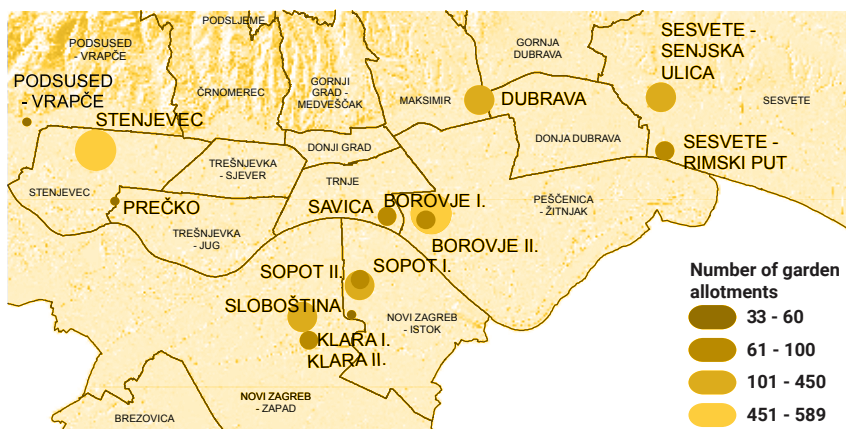
Source: Croatian Agricultural Agency

11.3 Allotment gardens

City garden name	City district	2016		2017		2018		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	2 081	1 780	2 083	1 772	2 124	1 796	225 720
Savica	Trnje	62	62	64	64	64	64	20 000
Dubrava	Maksimir	129	129	129	129	129	129	11 500
Borovje I.	Peščenica – Žitnjak	90	90	90	90	90	90	14 264
Borovje II.	Peščenica – Žitnjak	589	288	589	278	591	263	48 719
Sopot I.	Novi Zagreb – east	227	227	227	227	229	229	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	117	117	18 800
Klara II.	Novi Zagreb – west	64	64	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
Podsused – Vrapče	Podsused – Vrapče	-	-	-	-	38	38	3 622

Source: City Office for Agriculture and Forestry

K 11.1 Allotment gardens



11.4 Ecological agriculture

	2017	2018
Organic holdings – total	229	228
Agricultural producers	194	195
Agricultural processors	35	33
Area of ecologically used agricultural land by categories – total, ha	1 846	1 087
Arable land and gardens	1 398	732
Permanent grassland	95	65
Permanent cropland (no strawberries)	353	290
Ecological production of used agricultural land, t		
Grains	1 418	106
Industrial plants	555	34
Silage	1 229	341
Vineyards	21	152
Number of ecologically bred livestock by species		
Cattle	209	-
Pigs	...	-
Sheep	165	83
Goats	57	50

Source: CBS

11.5 Area of forest land

ha

	Forest land by ownership, status as of 31 December								
	2016			2017			2018		
	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	20 168	10 241	9 927	20 464	10 241	10 223
Forests – total	19 515	9 838	9 677	19 732	9 838	9 894	19 997	9 838	10 159
Non-coniferous wood	16 257	8 354	7 903	18 177	8 354	9 823	18 442	8 354	10 088
Common beech	3 426	2 642	784	5 522	2 642	2 880	5 552	2 642	2 910
Common oak	3 153	2 525	628	3 615	2 525	1 090	3 694	2 525	1 169
Sessile oak	3 831	2 274	1 557	5 322	2 274	3 048	5 381	2 274	3 107
Downy oak	-	-	-	48	-	48	48	-	48
Holm oak	-	-	-	-	-	-	-	-	-
Turkey oak	1	1	-	1	1	-	1	1	-
Narrow-leafed ash	71	42	29	70	42	28	70	42	28

11.5 Area of forest land

(Continued)

ha

	Forest land by ownership, status as of 31 December								
	2016			2017			2018		
	Total	State-owned forests	Private forests	Total	State-owned forests	Private forests	Total	State-owned forests	Private forests
Common hornbeam	279	183	96	1 301	183	1 118	1 398	183	1 215
Other hardwood	5 070	338	4 732	1 816	338	1 478	1 816	338	1 478
Black alder	124	105	19	228	105	123	228	105	123
Poplar and willow plantations	253	243	10	243	243	-	243	243	-
Other non-coniferous softwood	49	1	48	11	1	10	11	1	10
Coniferous wood	3 194	1 442	1 752	1 455	1 442	13	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	146	146	-	146	146	-
Degraded forest stands	64	42	22	100	42	58	100	42	58
Other forest land – total	267	267	-	298	267	31	329	267	62
Bare land:									
Production (clearings, rocky terrain, etc.)	119	119	-	142	119	23	142	119	23
Non-production (clearcuts, sods, plan, etc.)	148	148	-	156	148	8	187	148	39
Barren land – total (forest roads, waterways, canals etc.)	136	136	-	138	136	2	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	2018	2013	2018	2013	2018
Forests – total	18 350	19 997	8 745	9 838	9 605	10 159
For economic purposes	11 014	11 230	3 819	4 095	7 195	7 135
Protection forests	-	91	-	91	-	-
Special-purpose forests	7 336	8 676	4 926	5 652	2 410	3 024
Forests and parts of forests intended for production of forest seed	-	-	-	-	-	-
Protected areas	7 336	7 644	4 926	4 620	2 410	3 024
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

	2015	2016	2017	2018
Total	73 910	68 202	81 353	64 133
Hardwood	65 148	56 692	68 545	57 762
Oak	25 099	23 749	22 500	22 943
Beech	25 855	23 287	31 512	23 310
Poplar	2	-	66	5
Other softwood	14 192	9 656	14 467	11 504
Softwood	8 762	11 510	12 808	6 371
Fir, spruce, and Douglas fir	6 178	7 628	5 098	3 655
Pine and larch	1 384	2 470	6 320	1 583
Other softwood	1 200	1 412	1 390	1 133

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

	2017			2018			Indices 2018/2017		
	Total	State forests	Private forests	Total	State forests	Private forests	Total	State forests	Private forests
Total amount of harvested wood	68 084	61 997	6 087	53 887	49 387	4 500	79.1	79.7	73.9
Coniferous wood	11 102	11 102	-	5 431	5 423	8	48.9	48.8	-
Non-coniferous wood	56 982	50 895	6 087	48 456	43 964	4 492	85.0	86.4	73.8
Firewood	34 186	31 751	2 435	28 791	26 541	2 250	84.2	83.6	92.4
Coniferous wood	3 918	3 918	-	2 036	2 036	-	52.0	52.0	-
Non-coniferous wood	30 268	27 833	2 435	26 755	24 505	2 250	88.4	88.0	92.4
Industrial wood	33 898	30 246	3 652	25 096	22 846	2 250	74.0	75.5	61.6
Coniferous wood	7 184	7 184	-	3 395	3 387	8	47.3	47.1	-
Non-coniferous wood	26 714	23 062	3 652	21 701	19 459	2 242	81.2	84.4	61.4
Logs (sawlog and veneer)	32 721	29 069	3 652	24 597	22 347	2 250	75.2	76.9	61.6
Coniferous wood	6 553	6 553	-	2 896	2 888	8	44.2	44.1	-
Non-coniferous wood	26 168	22 516	3 652	21 701	19 459	2 242	82.9	86.4	61.4
Pulpwood	631	631	-	499	499	-	79.1	79.1	-
Coniferous wood	631	631	-	499	499	-	79.1	79.1	-
Non-coniferous wood	-	-	-	-	-	-	-	-	-
Other industrial wood	546	546	-	-	-	-	-	-	-
Coniferous wood	-	-	-	-	-	-	-	-	-
Non-coniferous wood	546	546	-	-	-	-	-	-	-

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 No. 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

In 2018, in section “Manufacturing” the highest growth in the value of industry products sold and export was registered in division Manufacture of motor vehicles, trailers and semi- trailers (34% growth), while the most significant fall was registered in division Manufacture of basic metals (41% in comparison to 2017).

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.

PRODCOM Surveys on Industrial Production (IND-21/PRODCOM form) were carried out by the Croatian Bureau of Statistics for long period of time on the basis of the Official Statistics Act (Official Gazette Nos 103/03, 75/09, 59/12 and 12/13 – consolidated text). Concepts and definitions used in the PRODCOM Survey of the Republic of Croatia are harmonised with the Council Regulation (EEC) No. 3924/95 and with the Commission Regulation (EC) No. 912/2004 concerning statistics on PRODCOM 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 Nos 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). The value of production includes packaging costs even if they are charged separately, but the following costs are excluded: any turnover tax and consumer tax charged (VAT and excises), separately charged freight costs and any discounts granted to customers.

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					
			2016		2017		2018 ^{1) 2)}	
			Total	of which abroad	Total	of which abroad	Total	of which abroad
Total			26 739 767	11 172 525	33 707 484	22 104 957	22 462 862	10 421 694
B	Mining and quarrying		118 362	3 704	53 699	343	73 246	-
	08	Other mining and quarrying	4 518	-	2 505	-	2 379	-
	09	Mining support service activities	113 844	3 704	51 194	343	70 867	-
C	Manufacturing		21 604 150	10 435 741	22 254 737	10 962 717	22 389 616	10 421 694
	10	Manufacture of food products	4 413 173	861 759	4 812 033	942 689	4 863 809	983 518
	11	Manufacture of beverages	1 957 104	257 162	2 117 834	286 744	2 343 903	286 623
	13	Manufacture of textiles	70 846	23 840	63 533	22 571	65 174	20 302
	14	Manufacture of apparel	127 084	18 661	149 875	24 310	166 297	28 976
	15	Manufacture of leather and related products	13 697	3 026	28 559	6 524	31 384	10 083
	16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	283 255	145 305	326 840	134 155	255 606	157 993
	17	Manufacture of paper and paper products	799 577	266 815	772 238	257 160	819 829	287 039
	18	Printing and reproduction of recorded media	846 032	99 215	710 123	85 845	860 257	84 989
	19	Manufacture of coke and refined petroleum products	178 876	42 799	167 934	36 595	166 969	39 484
	20	Manufacture of chemicals and chemical products	484 245	200 154	489 335	224 685	497 829	240 194
	21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	2 948 919	2 712 469	3 375 157	3 139 955	2 970 012	2 782 562
	22	Manufacture of rubber and plastic products	478 671	271 493	532 519	306 641	575 465	333 271

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					
			2016		2017		2018 ^{1) 2)}	
			Total	of which abroad	Total	of which abroad	Total	of which abroad
23	Manufacture of other non-metallic mineral products		329 132	122 728	399 667	164 557	476 700	167 012
24	Manufacture of basic metals		31 866	10 071	31 066	10 807	18 416	7 113
25	Manufacture of fabricated metal products, except machinery and equipment		601 009	297 559	664 520	368 117	599 319	253 924
26	Manufacture of computer, electronic, and optical products		818 077	452 256	879 189	454 861	1 007 603	504 319
27	Manufacture of electrical equipment		3 863 367	2 977 515	3 815 216	2 943 086	3 325 404	2 572 658
28	Manufacture of machinery and equipment n. e. c.		380 699	264 914	272 430	163 282	286 165	173 540
29	Manufacture of motor vehicles, trailers, and semi- trailers		341 560	327 883	324 034	317 486	433 677	397 881
30	Manufacture of other transport equipment		259 535	24 478	99 562	27 201	85 778	29 030
31	Manufacture of furniture		212 819	109 161	238 544	123 379	242 595	128 220
32	Other manufacturing		147 760	7 688	150 925	4 678	142 342	14 733
33	Repair and installation of machinery and equipment		2 016 847	938 790	1 833 604	917 389	2 155 083	918 230
D	Electricity, gas, steam and air conditioning supply		4 775 702	733 080	11 141 897	1 147 721	-	-
35	Electricity, gas, steam, and air conditioning supply		4 775 702	733 080	11 141 897	1 147 721	-	-
E	Water supply; sewerage, waste management, and remediation activities		241 553	-	257 151	-	-	-
36	Water collection, treatment, and supply		241 553	-	257 151	-	-	-

¹⁾ Provisional data.²⁾ Since 2018 data for section D and E cannot be presented.

Source: CBS

In 2018, the construction of 2 746 flats was finished, i.e. 1 074 flats or 64% more than in 2017.

The average price of sold new flats equalled 12 090 kuna per 1 m², which is 570 kuna, i.e. 5% more than in 2017.

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⁾

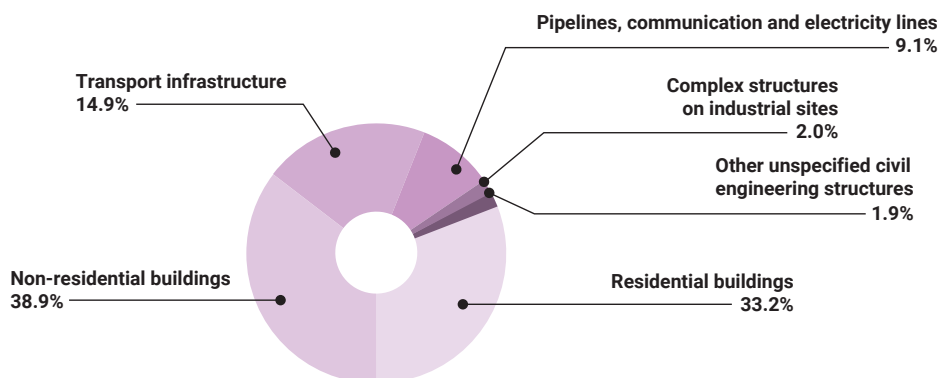
Thousands of HRK

	2014	2015	2016	2017	2018
Value of completed construction work by type of building – total	2 400 008	2 314 290	2 331 291	2 643 798	2 859 795
On buildings	1 364 976	1 347 905	1 497 560	1 781 689	2 062 833
Residential	478 762	607 887	551 469	846 610	949 053
Non-residential	886 214	740 018	946 091	935 079	1 113 780
On other structures	1 035 032	966 385	833 731	862 109	796 962
Transport infrastructure	810 564	713 807	538 191	546 083	427 125
Pipelines, communication, and electricity lines	162 468	190 697	249 307	250 730	258 976
Complex structures on industrial sites	26 225	29 622	19 242	13 713	55 506
Other unspecified civil engineering structures	35 775	32 259	26 991	51 583	55 355

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 2018

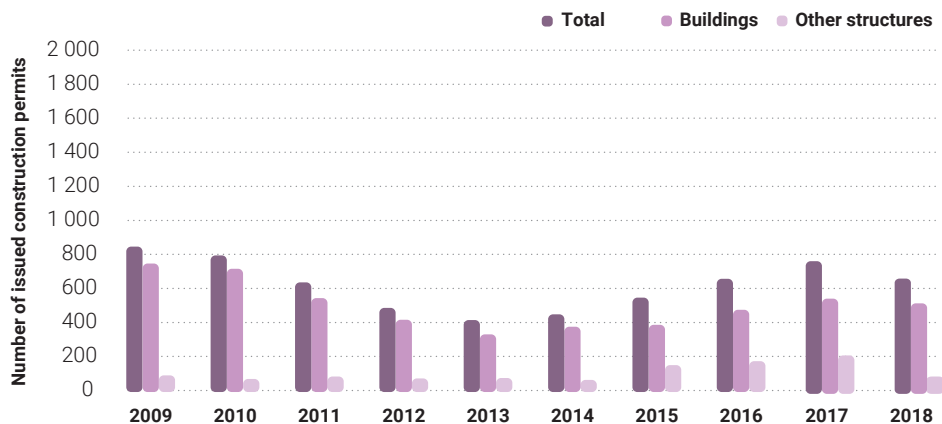


13.6 Issued construction permits by type of structure

	2014	2015	2016	2017	2018
Number of issued construction permits	458	556	667	774	629
Buildings	385	397	485	558	520
Other structures	73	159	182	216	109
Estimated value of construction work – total, thousands HRK					
Buildings	1 765 876	1 304 364	2 488 414	3 007 870	2 064 836
Other structures	304 939	413 712	477 396	565 507	504 951
Dwellings					
Number	1 292	995	2 016	3 170	2 080
Available surface area, m ²	103 421	82 517	154 915	233 861	166 837

Source: CBS

G 13.2 Issued construction permits by type of structure

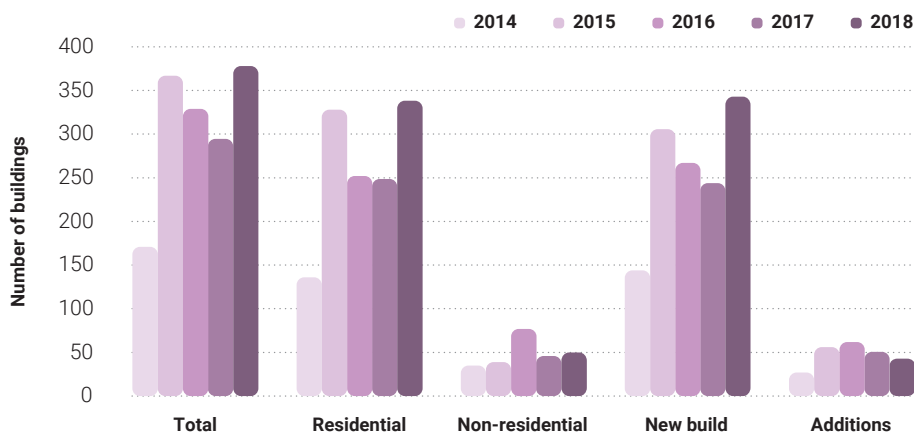


13.7 Issued construction permits for buildings by purpose, size and type of construction

	2014	2015	2016	2017	2018
Construction permits – total	385	397	485	558	520
Permits for residential buildings – total	276	327	372	451	430
By size	199	210	258	302	320
With 1 apartment	97	103	115	134	161
With 2 apartments	27	25	37	16	37
With 3 and more apartments	75	80	105	151	121
Residential buildings for communities	-	2	1	1	1
By type of construction					
New build					
Number of permits	199	210	258	302	320
Surface area, m ²	146 447	103 174	214 742	349 480	232 734
Volume, m ³	444 627	316 649	676 568	1 119 312	723 843
Additions					
Number of permits	34	41	38	40	32
Surface area, m ²	5 968	9 478	6 812	6 234	6 578
Volume, m ³	17 329	28 652	20 813	18 246	20 539
Conversions and other reconstructions					
Number of permits	43	76	76	109	78
Permits for non-residential buildings – total	109	70	113	107	90
By type of construction					
New build					
Number of permits	48	25	58	45	53
Surface area, m ²	110 700	50 505	234 221	148 596	65 528
Volume, m ³	589 702	177 175	956 520*	533 742	302 986
Additions					
Number of permits	20	9	24	27	11
Surface area, m ²	12 923	29 559	20 572	47 797	3 249
Volume, m ³	48 311	115 243	71 874	184 566	11 297
Conversions and other reconstructions					
Number of permits	41	36	31	35	26

Source: CBS

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

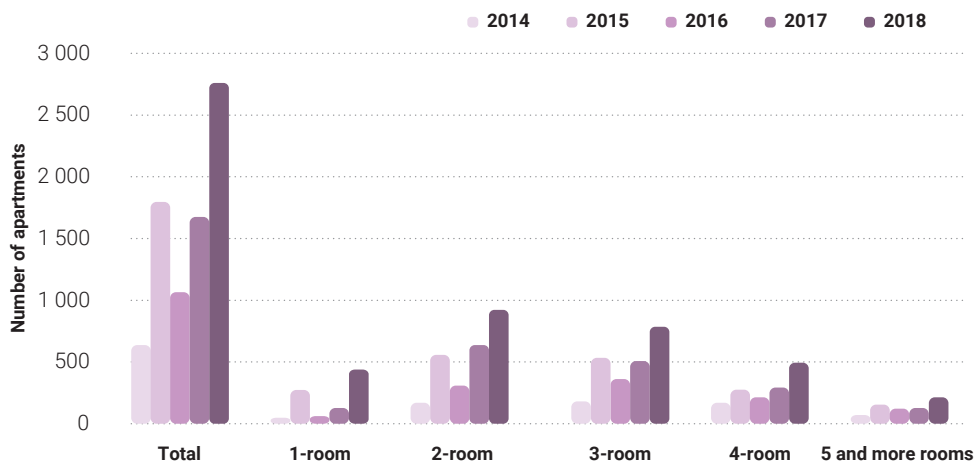


13.8 Completed buildings and apartments by number of rooms

	Completed buildings and apartments					Indices				
	2014	2015	2016	2017	2018	<u>2014</u> 2013	<u>2015</u> 2014	<u>2016</u> 2015	<u>2017</u> 2016	<u>2018</u> 2017
Completed buildings – total	171	367	329	295	383	68.4	214.6	89.6	89.7	129.8
Residential	136	328	252	249	334	65.4	241.2	76.8	98.8	134.1
With 1 apartment	72	190	125	117	157	72.7	263.9	65.8	93.6	134.2
With 2 apartments	27	37	37	36	34	96.4	137.0	100.0	97.3	94.4
With 3 and more apartments	36	101	90	96	143	44.4	280.6	89.1	106.7	149.0
Residential buildings for communities	1	-	-	-	-	-	-	-	-	-
Non-residential	35	39	77	46	49	83.3	111.4	197.4	59.7	106.5
Completed apartments – total	638	1 798	1 065	1 672	2 746	52.0	281.8	59.2	157.0	164.2
By number of rooms										
1-room	48	273	62	137	398	28.7	568.8	22.7	221.0	290.5
2-room	169	560	308	599	904	40.0	331.4	55.0	194.5	150.9
3-room	181	534	362	504	764	51.6	295.0	67.8	139.2	151.6
4-room	170	275	214	299	471	86.7	161.8	77.8	139.7	157.5
5 and more rooms	70	156	119	133	209	77.8	222.9	76.3	111.8	157.1

Source: CBS

G 13.4 Completed apartments by number of rooms



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

	Completed buildings			Completed apartments		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of apartments	Available surface area, m ²	Average available surface area, m ²
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
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

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

(Continued)

	Completed buildings			Completed apartments		
	Number of buildings	Surface area, m ²	Volume, m ³	Number of apartments	Available surface area, m ²	Average available surface area, m ²
2018 Total	383	376 328	1 263 356	2 746	204 902	74.6
By type of building						
Residential buildings	334	329 948	1 058 983	2 744	204 552	74.5
Non-residential buildings	49	46 380	204 373	2	350	175.0
By type of construction work						
New build	339	365 406	1 229 121	2 679	199 482	74.5
Additions	44	10 922	34 235	59	4 867	82.5
Conversion of non-residential structures into residential structures	-	-	-	8	553	69.1

Source: CBS

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

	2016			2017			2018		
	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	329	253 840	1 011 451	295	240 992	806 588	383	376 328	1 263 356
By type of building									
Residential	252	119 641	376 527	249	168 243	522 509	334	329 948	1 058 983
With 1 apartment	125	27 861	87 062	117	25 064	77 682	157	35 171	111 501
With 2 apartments	37	9 751	30 377	36	10 293	31 392	34	10 441	32 597
With 3 and more apartments	90	82 029	259 088	96	132 886	413 435	143	284 336	914 885
Non-residential	77	134 199	634 924	46	72 749	284 079	49	46 380	204 373
Hotels and similar buildings	2	1 859	5 348	1	1 436	4 715	-	-	-
Restaurants, bars, and other similar facilities	3	1 617	5 926	1	20	48	1	25	83
Office buildings	12	43 936	142 619	12	32 160	101 423	8	5 997	17 899
Wholesale and retail trade buildings	15	53 467	320 678	8	6 091	22 325	5	3 594	11 981
Other traffic and communications facilities	1	20	70	-	-	-	-	-	-
Garages	9	658	2 079	6	5 772	17 178	7	3 229	9 447

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

(Continued)

	2016			2017			2018		
	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
Industrial buildings	13	15 821	75 305	8	19 945	110 303	7	7 069	34 838
Reservoirs and silos	1	-	775	-	-	-	-	-	-
Closed warehouses	2	5 071	38 619	4	1 371	7 328	1	106	314
Covered warehouses	1	197	473	1	880	4 662	1	100	463
Buildings for performing art and culture activities	1	523	2 217	-	-	-	-	-	-
Kindergartens and primary schools	5	5 609	19 861	-	-	-	4	7 810	36 282
Scientific research facilities	1	159	1 104	-	-	-	-	-	-
Hospitals and clinics	-	-	-	-	-	-	2	2 264	8 150
Sports venues	2	1 706	6 880	-	-	-	2	13 721	74 302
Buildings for breeding and housing livestock and poultry, and storing agricultural products	3	671	2 807	1	4 135	12 585	1	200	562
Other agricultural facilities	3	194	673	1	367	1 830	6	943	4 202
Buildings for performing religious ceremonies	2	2 663	9 401	-	-	-	-	-	-
Buildings in cemeteries	-	-	-	-	-	-	2	1 070	4 900
Buildings for the purposes of armed forces, police, or firefighters	-	-	-	-	-	-	1	132	580
Other unclassified buildings	1	28	89	3	572	1 682	1	120	370

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

(Continued)

	2016			2017			2018		
	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
By type of construction work									
New build	267	221 336	893 983	244	226 832	758 136	339	365 406	1 229 121
Residential buildings	211	111 822	352 892	217	162 399	505 188	300	323 519	1 039 822
Non-residential buildings	56	109 514	541 091	27	64 433	252 948	39	41 887	189 299
Additions	62	32 504	117 468	51	14 160	48 452	44	10 922	34 235
Residential buildings	41	7 819	23 635	32	5 844	17 321	34	6 429	19 161
Non-residential buildings	21	24 685	93 833	19	8 316	31 131	10	4 493	15 074

Source: CBS

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

	Number of apartments	Available surface area, m ²	Apartments by number of rooms							
			1 – room	2 – room	3 – room	4 – room	5 – room	6 – room	7 – room	8- and more rooms
2015 Total	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	-	-	-

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

(Continued)

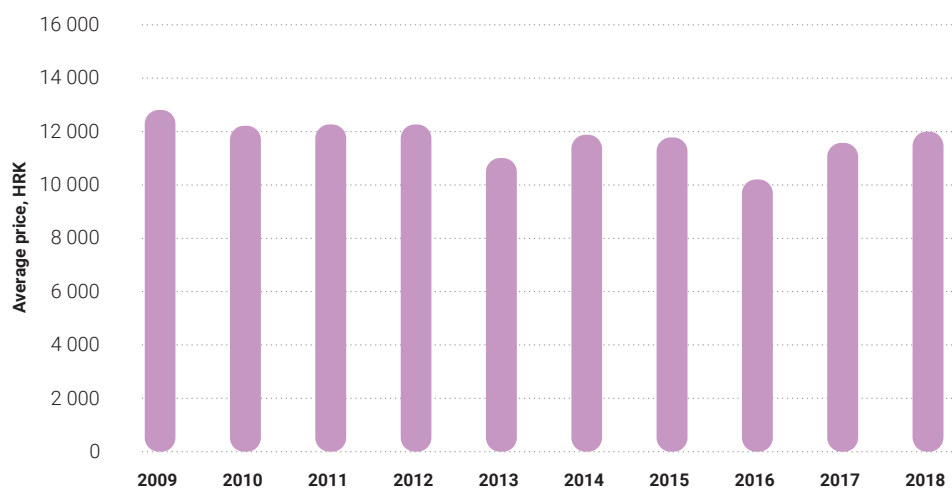
	Number of apartments	Available surface area, m ²	Apartments by number of rooms							
			1 - room	2 - room	3 - room	4 - room	5 - room	6 - room	7 - room	8- and more rooms
2016 Total	1 065	85 737	62	308	362	214	52	41	23	3
Apartments in new buildings	1 007	79 819	59	299	346	196	46	37	22	2
Residential buildings	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	-	-	-	-	-
2017 Total	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	-	-	-
2018 Total	2 746	204 902	398	904	764	471	148	38	16	7
Apartments in new buildings	2 679	199 482	394	882	741	461	142	37	15	7
Residential buildings	2 677	199 132	394	882	741	460	142	36	15	7
With 1 apartment	135	23 996	1	3	13	26	35	35	15	7
With 2 apartments	52	6 265	-	5	10	25	12	-	-	-
With 3 and more apartments	2 490	168 871	393	874	718	409	95	1	-	-
Non-residential buildings ¹⁾	2	350	-	-	-	1	-	1	-	-
Apartments built by additions	59	4 867	4	16	22	10	5	1	1	-
Apartments built by converting non-residential structures into residential structures	8	553	-	6	1	-	1	-	-	-

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

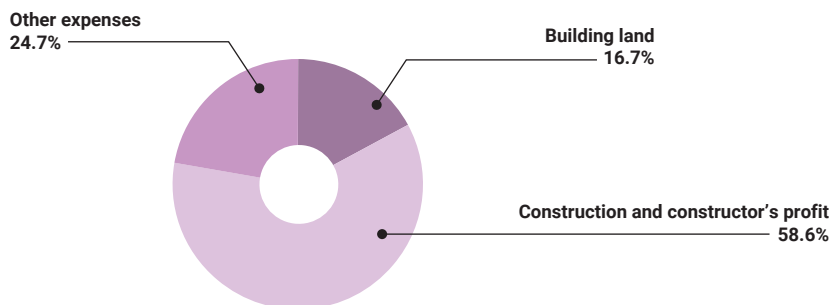
13.12 Average prices of sold new apartments

	2010	2011	2012	2013	2014	2015	2016	2017	2018
Sold apartments									
Number of apartments – total	1 247	1 389	1 501	1 213	1 153	843	1 570	1 225	1 503
Surface area, m ²	73 044	79 782	91 500	74 276	74 487	57 110	103 793	79 609	103 312
Average surface area, m ²	58.6	57.4	61.0	61.2	64.6	67.7	66.1	65.0	68.7
Average price per m², HRK									
Total	12 218	12 265	12 268	11 008	11 882	11 779	10 206	11 520	12 090
Building land	2 154	2 487	2 563	2 176	2 383	2 028	1 831	1 971	2 019
Construction and contractor's profit	6 932	7 276	7 281	6 885	7 141	7 313	6 374	6 980	7 085
Other costs	3 132	2 502	2 424	1 947	2 358	2 438	2 001	2 569	2 986

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 2018



In 2018, “Franjo Tuđman” International Airport registered the highest number of passengers in its history (3.3 million), i.e. 244 263 passengers more than in 2017 (3.1 million), representing an 8% growth.

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 Nos 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 No. 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.

Length of one line is the distance between the starting and final station, and it is calculated in one way only.

Work-day average number of trains means the number of rails that participate on average on working days in urban railway transport on the territory of the City of Zagreb.

Number of city transport passengers equals the sum of sold public city transport tickets.

Railway sections are the sections of main international railways and other railways which belong to 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.

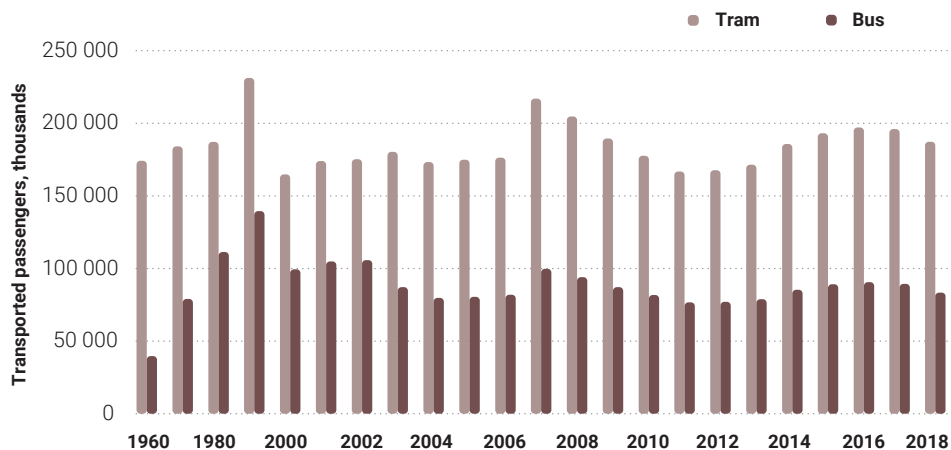
HP Express service provides collecting, directing, transport and delivery of hpekspres consignments, business packages and e-parcels. Such consignments may contain printed documents, goods, money and other items. The sender receives the corresponding delivery receipt, while the recipient signs for the 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			
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
2018	388 263	282 241	266	51	186 693	432	85 849

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

G 14.1 Number of passengers transported in city transport from 1960 to 2018



14.2 Registered vehicles, status as of 31 December

	Total	Mopeds	Motorcycles	Personal vehicles	Buses	Goods vehicles and work vehicles	Other vehicles
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
2018							
Total	388 263	7 889	9 625	321 967	986	38 287	9 509
Natural persons	282 241	6 471	8 684	258 622	8	4 801	3 655
Legal entities	106 022	1 418	941	63 345	978	33 486	5 854

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
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
2018	15 545	13 169	2 376	2 479 420	963 884	1 515 536

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
2018	116	743	1 486

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
2018	422	277	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				
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
2018	19	15	4	206	46 028	12 899	186 693

¹⁾ Horsecar was first used on 5 September 1891 and it transported the citizens of Zagreb until 18 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				
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
2018	153	146	4	3	1 562	42 540	29 280	85 849

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
2014	60	56	621	687
2015	60	56	648	741
2016	60	56	709	715
2017	60	56	799	759
2018	60	56	774	800

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

Source: ZET d. o. o.

14.9 Rail transport¹⁾

	Railway length, km	Work-day average number of trains	Number of transported passengers, thousands	Railway sections
2014	58	236	7 768*	4
2015	58	240	7 839*	4
2016	58	238	8 129*	4
2017	58	231	8 374	4
2018	58	247	8 660	4

¹⁾ See Notes of Methodology.

Source: HŽ Passenger Transport

14.10 Passengers on halts in the City of Zagreb¹⁾

Direction	Entry/Exit of passengers ²⁾			
	2015	2016	2017	2018
1. Savski Marof – Zagreb Main Station and Zagreb Main Station – Dugo Selo				
Railway halt				
Sesvetski Kraljevec	327 859	364 532	362 480	371 980
Sesvete	1 226 819	1 235 696	1 260 698	1 294 731
Čulinec	422 882	429 976	457 599	436 525
Trnava	445 214	448 978	464 517	449 743
Maksimir	652 316	672 780	695 841	645 855
Zagreb Main Station	7 106 006	7 163 790	7 240 390	7 450 641
Zagreb West Station	940 954	932 291	983 954	995 838
Kustošija	509 029	508 623	518 863	497 209
Vrapče	756 226	775 759	751 410	867 803
Gajnice	654 041	644 172	645 103	703 067
Podsused	459 113	443 412	450 208	435 066
2. Zagreb Main Station – Rijeka				
Railway halt				
Zagreb Main Station	891 085	943 875	871 915	908 826
Remetinec	94 888	97 464	90 972	101 081
Hrvatski Leskovac	66 922	59 234	57 204	53 104
Horvati	45 107	41 291	40 824	40 661
Mavračići	11 934	10 677	11 340	9 552

14.10 Passengers on halts in the City of Zagreb¹⁾

(Continued)

Direction	Entry/Exit of passengers ²⁾			
	2015	2016	2017	2018
3. Zagreb Main Station – Sisak – Novska				
Railway halt				
Zagreb Main Station	779 647	943 643	990 979	1 011 863
Zagreb Klara	39 507	42 957	46 273	49 397
Buzin	35 000	39 695	49 967	53 563
Odra	50 653	47 029	43 383	47 403

¹⁾ See Notes of Methodology.

²⁾ Estimate of entry/exit of passengers.

Source: HŽ Passenger Transport;
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	2014	2015	2016	2017	2018
Tickets	number	1 402 363	1 503 566	1 494 890	1 448 296	1 328 697
Station services	HRK	1 415 363	1 506 578	1 503 245	1 449 925	1 320 590
Departing buses	number	165 339	179 570	185 993	176 842	174 673
Luggage storage	HRK	39 001	43 042	46 548	50 946	55 924

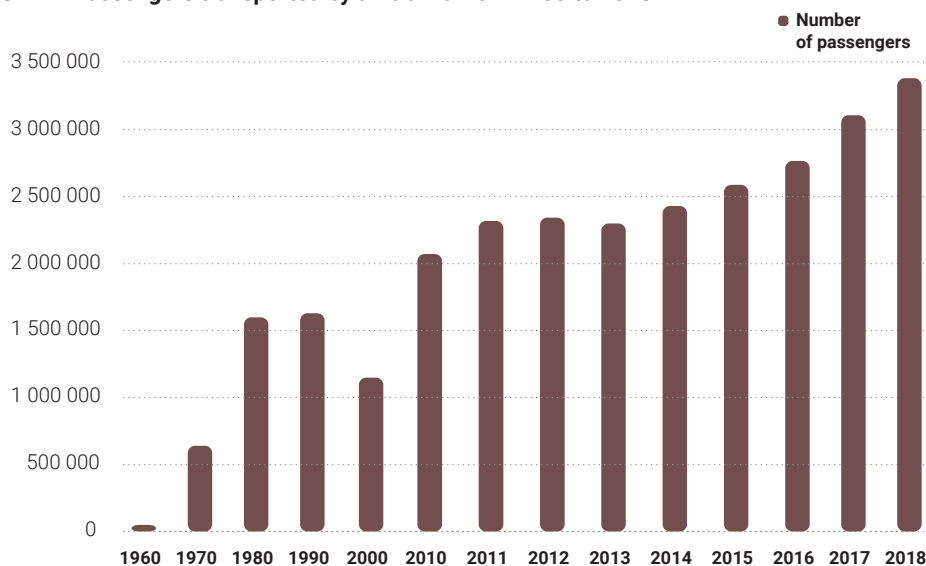
Source: Zagreb Holding, subsidiary Zagreb Bus Station

14.12 Traffic at the airport of Zagreb¹⁾

	Traffic		
	airplanes (departed and arrived)	passengers (departed and arrived)	cargo, tonnes (dispatched and received)
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
2018	43 688	3 336 310	13 675

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 1960 to 2018**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	
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
2018							
Total	43 688	8 529	35 159	3 336 310	525 204	2 811 106	13 675
Domestic traffic	8 529	8 529	-	525 204	525 204	-	403
International traffic	35 159	-	35 159	2 811 106	-	2 811 106	13 272

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
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	...	...	...	...	...	...
2018								
Total	43 688	3 336 310	851 854	825 023	613	825 308	823 704	4 408
Regular flights	38 229	3 285 752	843 338	817 207	-	812 031	811 568	1 608
Special flights	1 307	45 158	8 516	7 816	613	13 277	12 136	2 800
Other non-commercial flights	4 152	5 400	...	...	...	...	...	...

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
2014	3 252*	45	9	4	19	10	20	152	4	8	10	13	-
2015	3 252*	45	8	3	17	10	25	140	5	8	10	13	-
2016	3 252*	45	8	3	17	10	25	140	5	8	10	13	8
2017	3 252*	45	9	3	19	10	23	160	5	10	10	13	8
2018	3 252	45	9	4	24	10	23	180	5	10	10	13	8

Source: MZLZ "Franjo Tuđman"

14.16 Traffic accidents and persons injured in traffic accidents

	Traffic accidents			Injured persons		
	Total	Involving material damage	Involving injured persons	Total	Dead	Injured
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
2018	5 678	4 033	1 645	2 046	25	2 021

Source: Ministry of the Interior

14.17 Electronic communication services

	2014	2015	2016	2017	2018
Number of fixed network connections, thousands	...	296 601	283 198	276 667	290 529
Number of broadband Internet connections (DSL, cable networks, etc.)	239 839	248 422	263 334	273 682	291 857
Density of broadband Internet connections (number of connections per population)	30.36%*	31.45%*	33.33%*	34.64%	36.94%

Source: HAKOM

14.18 Postal offices and capacity

	2014	2015	2016	2017	2018
Postal offices	74	74	74	74	74
Counters	273	270	270	242	258
Post-boxes	408	373	393	396	394
Deliverable regions	458	391	364	393	395
Postmen	508	428	390	439	441

Source: Croatian Post d. d.

14.19 Mail

	2014	2015	2016	2017	2018
Letters and others, thousand	210 163	239 951	176 308	174 531	178 160
National shipments, received	201 481	231 430	169 227	167 092	170 319
International shipments, received/dispatched	8 682	8 521	7 081	7 439	7 841
EMS and HP Express, thousands	1 437	1 824	2 446	3 254	4 068
National shipments, received	1 422	1 809	2 431	3 238	4 051
International shipments, received/dispatched	15	15	15	16	17
Packages, thousands	339	461	554	607	704
National shipments, received	242	332	389	394	432
International shipments, received/dispatched	97	129	165	213	272

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 Nos 1165/98, 1158/05, 1503/06 and 1893/06 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 Nos 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 Nos 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. Entrance to the five fairs held was free. The number of visitors at these fairs was estimated on the basis of parallel indicators.

The Zagreb International Autumn Fair was abolished in 2017.

Definitions and explanations

Turnover is the value of all goods sold and services provided on the market during reference period, 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.

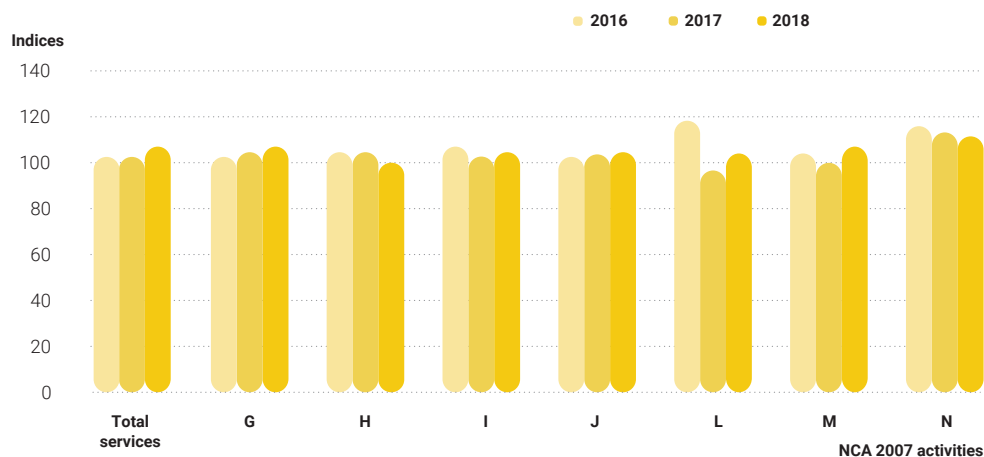
15.1 Nominal indices of service activities turnover by main activities of business entities

NCA 2007 Activities			Indices		
			<u>2016</u> 2015	<u>2017</u> 2016	<u>2018</u> 2017
Total services¹⁾			103.6	103.9	106.0
G	45 + 46 + 47	Wholesale and retail trade; repair of motor vehicles and motorcycles	102.6	104.3	107.0
H	49 + 50 + 52 + 53	Transportation and storage	104.2	104.3	100.8
I	55 + 56	Accommodation and food service activities	107.1	102.4	104.7
J	58 + 59 + 60 + 61 + 62 + 63	Information and communication	102.6	103.4	103.6
L	68	Real estate activities	118.3	96.3	101.8
M	69 + 70 + 71 + 73 + 74	Professional, scientific and technical activities	104.1	99.7	105.6
N	77 + 78 + 79 + 80 + 81 + 82	Administrative and support service activities	114.2	111.2	106.8

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 from 2016 to 2018



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

NCA 2007 Activities		Total trade					Retail trade turnover				
		2014 2013	2015 2014	2016 2015	2017 2016	2018 2017	2014 2013	2015 2014	2016 2015	2017 2016	2018 2017
Total		-	-	-	-	-	100.1	98.5	104.0	103.3	106.1
47	Retail trade, except of motor vehicles and motorcycles	99.1	99.0	98.7	103.3	104.7	102.1	98.7	103.7	103.6	106.2
47.11	Retail trade in non-specialised stores with food, beverages and tobacco predominating	96.0	98.3	91.4	98.1	102.6	94.4	101.4	102.1	100.4	103.7
47.19	Other retail trade in non-specialised stores	103.3	107.1	100.3	111.6	111.3	90.5	107.6	107.6	113.8	111.2
47.2	Retail trade of food, beverages and tobacco in specialised stores	104.6	95.7	97.6	84.5	94.4	105.1	97.3	96.8	89.8	96.8
47.3	Retail trade of motor fuels and lubricants in specialised stores	91.2	107.1	98.4	121.8	111.1	108.3	83.9	92.3	116.8	123.2
47.73; 47.74; 47.75	Pharmacies, retail trade of medical preparations and orthopaedic equipment, cosmetic and toilet products in specialised stores	98.0	106.3	103.4	94.2	106.1	97.7	105.0	103.5	94.2	105.9
47.51; 47.71; 47.72	Retail trade of textiles, wearing apparel, footwear and leather products in specialised stores	99.2	106.7	111.6	107.9	103.8	98.8	102.6	110.3	107.7	104.4

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

(Continued)

NCA 2007 Activities		Total trade					Retail trade turnover				
		<u>2014</u> 2013	<u>2015</u> 2014	<u>2016</u> 2015	<u>2017</u> 2016	<u>2018</u> 2017	<u>2014</u> 2013	<u>2015</u> 2014	<u>2016</u> 2015	<u>2017</u> 2016	<u>2018</u> 2017
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	115.7	112.4	110.7	107.1	100.6	122.5	120.8	101.5	106.8	104.6
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	64.4	99.5	123.4	108.0	106.8	89.6	107.4	113.5	104.2	105.9
Other activities (not pertaining to Section 47)		-	-	-	-	-	97.8	90.9	103.5	102.5	105.7

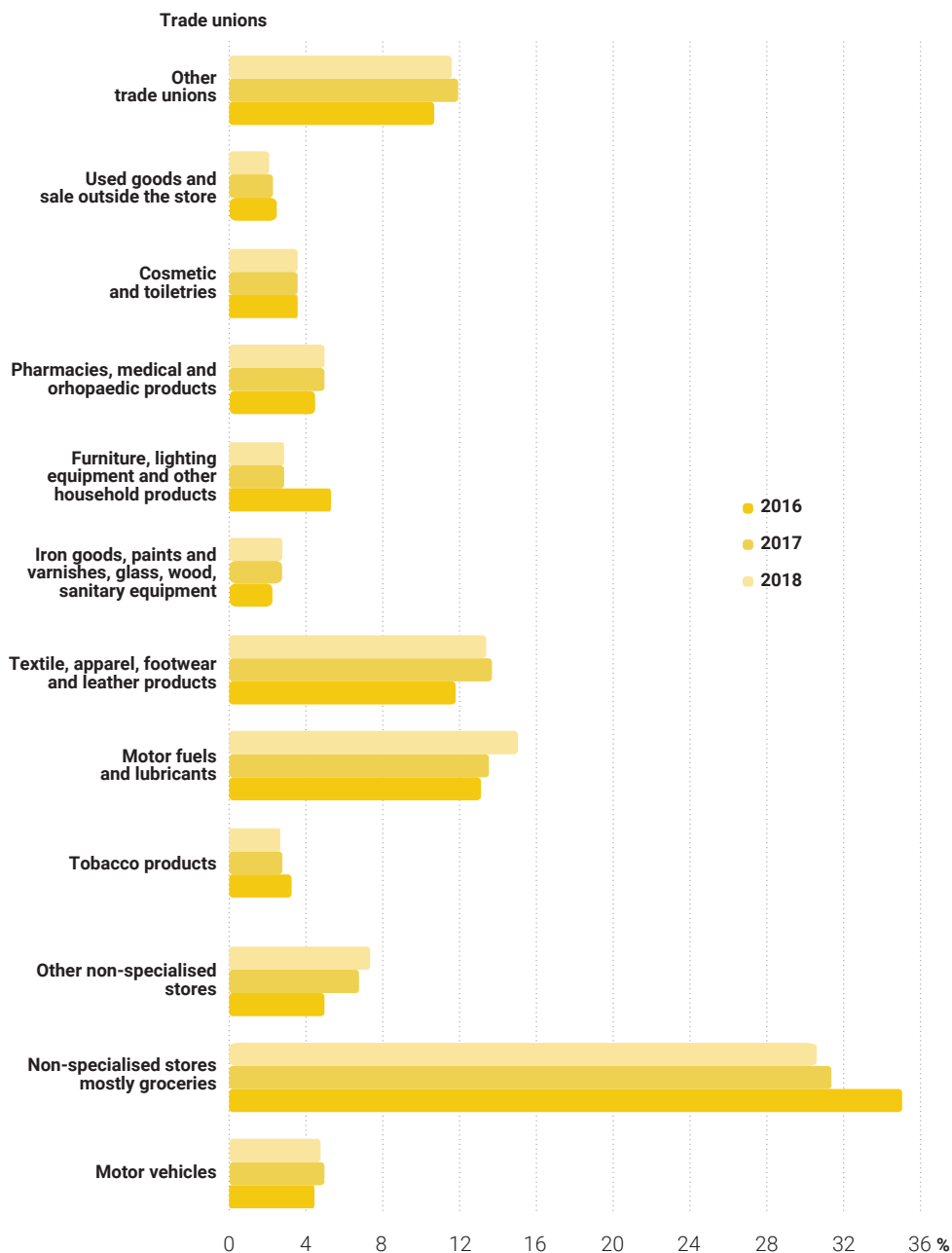
Source: CBS, processing: City Office for the Strategic Planning and Development of the City – Department of Statistics

15.3 Structure of retail trade turnover by type of trade¹⁾

	2014	2015	2016	2017	2018
Total	100.0	100.0	100.0	100.0	100.0
Motor vehicles	3.2	3.4	4.2	4.6	4.4
Parts and accessories for motor vehicles, motorcycles and accessories	1.2	0.8	0.9	0.9	0.9
Non-specialised stores selling mostly groceries	29.2	35.3	35.1	31.4	30.7
Other non-specialised stores	2.5	6.1	4.9	7.3	7.5
Specialised grocery stores	0.5	0.8	0.9	1.1	1.0
Bread, biscuits, pasta and sweets	1.3	1.4	1.5	1.5	1.5
Alcoholic and other beverages	0.5	0.4	0.4	0.5	0.5
Tobacco products	3.8	3.4	3.2	2.7	2.5
Motor fuels and lubricants	21.2	14.3	13.1	13.5	14.9
Computers, peripheral units, software and video games	0.7	0.7	0.9	1.0	1.1
Telecommunication equipment, audio, and video equipment	1.6	0.8	0.9	1.3	1.4
Textile, apparel, footwear and leather products	11.8	11.8	11.9	12.9	12.7
Iron goods, paints and varnishes, glass, wood, Sanitary and "DIY" equipment	2.7	2.6	2.6	2.7	2.7
Retail sale of carpets, rugs, curtains, wall and floor coverings in specialised stores	0.1	0.1	0.2	0.1	0.1
Home appliances	0.6	1.2	1.3	1.3	1.3
Furniture, lighting equipment and other household products	5.2	3.2	4.6	2.8	2.8
Books (except used)	0.9	0.3	0.3	0.2	0.2
Newspapers, paper goods and stationery	0.2	0.3	0.2	0.1	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	1.2	1.0	1.1	1.7	1.6
Other retail sale in specialized stores	1.5	1.4	1.4	1.6	1.5
Pharmacies, medical and orthopaedic products	3.8	4.2	4.3	4.5	4.5
Cosmetic and toiletries	3.6	3.8	3.5	3.5	3.5
Flowers, seedlings, seeds, fertilizers, pets and pet foods	0.6	0.5	0.6	0.6	0.5
Used goods and sale outside the store	2.1	2.2	2.0	2.2	2.1

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, 2017 and 2018

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	
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
2018	18	68.2	1 136	1 000	136	380

¹⁾ See Notes on Methodology.

Source: Zagreb Fair d. o. o.

In 2018, the City of Zagreb exported 5.3 billion kuna worth of goods to Bosnia and Herzegovina, representing 15.9% of City of Zagreb total exports.

In the same year, the City of Zagreb imported 12.5 billion kuna worth of goods from Germany, representing 14.5% of City of Zagreb total imports.

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 Nos 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 Nos 1915/2005, 91/2010, 96/2010 and 1093/2013), the Official Statistics Act (Official Gazette Nos 103/03, 75/09, 59/12 and 12/13 – consolidated text) and the Customs Administration Act (Official Gazette Nos 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 No. 40/16), the Official Statistics Act (Official Gazette Nos 103/03, 75/09, 59/12 and 12/13 – consolidated text), the Customs Administration Act (Official Gazette Nos 68/13, 30/14 and 115/16) and the Ordinance on Filling In the Single Administrative Document (Official Gazette No. 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 per counties, the City of Zagreb included, has been received by classifying enterprises which exported from and imported to the county of their incorporation according to the Statistical Business Register (SPR).

Data in the tables according to the 2007 National Classification of Activities and according to partner countries for 2015 and 2016 is shown as the SPR state of 1 June 2017, for 2017 as the SPR state on 10 May 2018 and for 2018 as the SPR state on 10 May 2019. The data in tables per SITC sectors for the period 2015-2018 as the SPR state on 26 June 2019.

Data by type of activities have been presented according to the NCA 2007. (NN, Nos 58/07 and 72/07), which entered into force on 1 January 2008 and is based on the European classification NACE, Rev. 2, which is obligatory in EU Member States..

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)

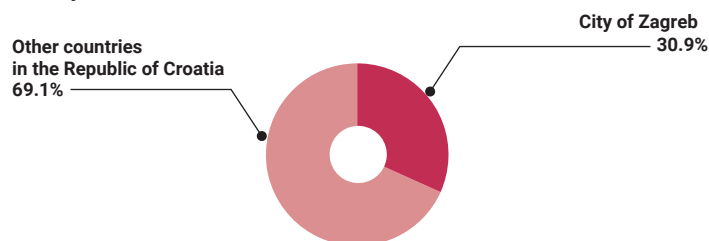
16.1 Export and import of the City of Zagreb and the Republic of Croatia

Thousands of HRK

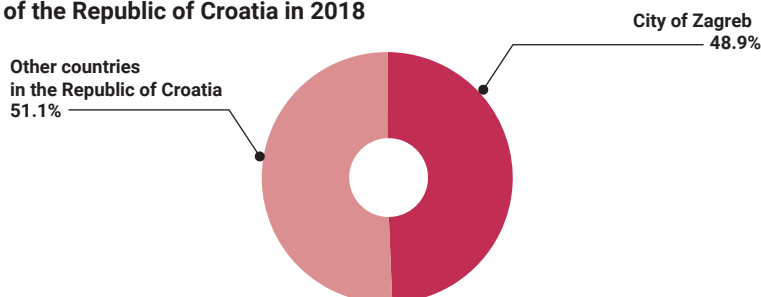
	2016	2017	2018
Export			
Republic of Croatia	92 763 217	104 600 956	107 913 440
City of Zagreb	30 630 374	33 283 999	33 381 275
Share of the City of Zagreb, %	33.0	31.8	30.9
Import			
Republic of Croatia	148 474 542	163 313 126	176 215 726
City of Zagreb	74 083 853	80 129 738	86 104 137
Share of the City of Zagreb, %	49.9	49.1	48.9
Balance of trade in goods			
Republic of Croatia	-55 711 325	-58 712 170	-68 302 286
City of Zagreb	-43 453 479	-46 845 739	-52 722 862
Share of the City of Zagreb, %	78.0	79.8	77.2
Coverage of import by export, %			
Republic of Croatia	62.5	64.0	61.2
City of Zagreb	41.3	41.5	38.8

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 2018



G 16.2 Share of the import of the City of Zagreb in total import of the Republic of Croatia in 2018



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

	Thousands of EUR		
	2016	2017	2018
Export	4 068 277	4 459 352	4 498 853
Import	9 837 986	10 740 534	11 604 392
Balance of trade in goods	-5 769 709	-6 281 182	-7 105 539

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		
		2016	2017	2018
Total		30 630 374	33 283 999	33 381 275
A	Agriculture, forestry, and fishing	202 525	178 533	185 689
B	Mining and quarrying	5 295 285	7 097 268	8 550 769
C	Manufacturing	12 128 269	12 530 853	11 478 488
D	Electricity, gas, steam, and air conditioning supply	2 205 128	2 285 589	1 388 021
E	Water supply; sewerage, waste management, and remediation activities	369 769	589 215	582 558
F	Construction	192 131	83 397	117 614
G	Wholesale and retail trade; repair of motor vehicles, and motorcycles	8 641 712	8 592 437	9 405 963
H	Transportation and storage	86 375	224 141	234 926
I	Accommodation and food service activities	27 758	41 966	42 494
J	Information and communication	338 760	319 300	360 454
K	Financial and insurance activities	12 320	64 620	41 934
L	Real estate activities	42 159	34 249	24 376
M	Professional, scientific, and technical activities	874 806	971 203	713 591
N	Administrative and support service activities	144 095	182 900	166 264
O	Public administration and defence; compulsory social security	2 901	2 781	829
P	Education	323	2 704	121
Q	Human health and social work activities	7 209	6 003	7 782
R	Arts, entertainment, and recreation	3 345	9 160	20 938
S	Other service activities	55 505	67 670	58 386
U	Activities of extraterritorial organizations and bodies	-	-	5
X	Unclassified	-	11	72

Source: CBS

16.4 Import according to NCA 2007

		Thousands of HRK		
		2016	2017	2018
Total		74 083 853	80 129 738	86 104 137
A	Agriculture, forestry, and fishing	213 807	245 756	275 600
B	Mining and quarrying	8 015 348	9 748 494	12 708 505
C	Manufacturing	10 675 619	11 546 047	11 186 993
D	Electricity, gas, steam, and air conditioning supply	4 068 551	4 713 183	4 062 809
E	Water supply; sewerage, waste management, and remediation activities	113 861	181 640	158 960
F	Construction	679 740	677 756	757 409
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	44 715 466	46 681 348	50 425 241
H	Transportation and storage	476 710	646 470	660 939
I	Accommodation and food service activities	129 135	142 337	170 632
J	Information and communication	2 173 085	2 158 264	2 028 411
K	Financial and insurance activities	255 895	326 344	353 049
L	Real estate activities	50 721	42 081	32 182
M	Professional, scientific, and technical activities	1 506 323	2 174 329	2 328 446
N	Administrative and support service activities	187 813	242 500	369 796
O	Public administration and defence; compulsory social security	211 998	117 274	57 710
P	Education	7 703	5 279	7 292
Q	Human health and social work activities	18 229	17 565	17 124
R	Arts, entertainment, and recreation	202 499	153 181	151 319
S	Other service activities	377 396	306 218	351 587
U	Activities of extraterritorial organizations and bodies	47	23	7
X	Unclassified	3 906	3 652	126

Source: CBS

16.5 Export of the City of Zagreb by SITC sectors

		Thousands of HRK			
		2015	2016	2017	2018
Total¹⁾		28 941 277	30 613 011	33 268 653	33 407 432
0 Food and live animals		2 081 058	2 272 040	2 230 564	2 393 136
00	Live animals	23 706	37 456	35 568	36 748
01	Meat and meat preparations	67 698	83 076	89 163	135 670
02	Dairy products and birds' eggs	239 906	287 763	324 790	395 224
03	Fish and preparations thereof	66 558	67 634	49 362	63 231
04	Cereals and cereal preparations	495 861	550 734	451 646	392 757
05	Vegetables and fruit	207 057	232 648	252 557	272 548
06	Sugars, sugar preparations and honey	73 713	85 017	63 574	66 638
07	Coffee, tea, cocoa, spices	316 008	347 201	350 724	342 832
08	Feeding stuff for animals (not including unmilled cereals)	105 642	87 549	84 831	80 371
09	Miscellaneous edible products and preparations	484 910	492 962	528 350	607 116
1 Beverages and tobacco		579 649	582 285	626 917	680 681
11	Beverages	576 773	579 137	623 711	676 390
12	Tobacco and tobacco manufactures	2 876	3 147	3 206	4 291
2 Crude materials, except fuels		1 837 046	1 716 120	1 963 349	1 847 356
21	Hides, skins and furskins, raw	44 128	58 193	50 336	56 476
22	Oil-seeds and oleaginous fruits	295 892	234 387	290 890	123 567
23	Crude rubber	230	1 100	558	282

16.5 Export of the City of Zagreb by SITC sectors

(Continued)

Thousands of HRK

		2015	2016	2017	2018
24	Cork and wood	847 963	809 882	766 620	802 682
25	Pulp and waste paper	57 412	58 150	86 887	73 725
26	Textile fibres and their wastes	2 563	595	5 060	11 789
27	Crude fertilizers and crude minerals	16 789	19 253	12 398	11 918
28	Metalliferous ores and metal scrap	545 374	507 106	722 211	740 884
29	Crude animal and vegetable materials, n. e. s.	26 695	27 454	28 390	26 033
3	Mineral fuels and lubricants	8 862 640	8 017 658	9 710 831	10 153 723
32	Coal, coke and briquettes	220	103	216	58 277
33	Petroleum and petroleum products	5 294 069	4 681 756	6 561 009	8 009 551
34	Gas, natural and manufactured	919 266	730 048	780 697	695 222
35	Electric current	2 649 085	2 605 752	2 368 909	1 390 674
4	Animal and vegetable oils and fats	88 282	147 823	175 539	121 468
41	Animal oils and fats	13 666	15 211	18 619	19 083
42	Fixed vegetable fats and oils	48 661	103 765	129 819	77 223
43	Animal or vegetable fats and oils, processed	25 955	28 847	27 101	25 162
5	Chemicals and related products	5 050 141	5 803 812	6 179 917	5 824 128
51	Organic chemicals	356 322	300 686	329 752	412 053
52	Inorganic chemicals	24 682	19 280	40 623	67 726
53	Dyeing, tanning and colouring materials	73 577	74 573	76 712	71 725
54	Medicinal and pharmaceutical products	3 489 328	4 197 523	4 315 735	3 691 417
55	Essential oils and perfume materials; toilet preparations	462 210	582 380	767 815	899 712
56	Fertilizers	38 684	22 696	3 947	5 513
57	Plastics in primary forms	245 475	237 133	257 090	237 055
58	Plastics in non-primary forms	132 255	142 597	178 034	214 318
59	Chemical materials and products, n. e. s.	227 607	226 943	210 208	224 608
6	Manufactured goods classified chiefly by material	1 554 086	1 585 144	1 670 619	1 885 296
61	Leather, leather manufactures, furskins	54 263	56 781	51 307	48 026
62	Rubber manufactures	42 343	52 539	58 425	79 768
63	Cork and wood manufactures	131 661	138 657	139 096	116 902
64	Paper, paperboard and articles of paper pulp	380 584	375 662	358 537	383 770
65	Textile yarn, fabrics and related products	143 309	158 105	130 216	129 157
66	Non-metallic mineral manufactures	129 511	162 995	159 476	204 172
67	Iron and steel	116 977	109 131	103 285	215 291
68	Non-ferrous metals	119 655	111 365	113 439	127 456
69	Manufactures of metals, n. e. s.	435 784	419 910	556 838	580 755
7	Machinery and transport equipment	6 109 902	7 370 834	7 797 053	7 273 862
71	Power-generating machinery and equipment	317 073	334 547	641 164	247 725
72	Machinery specialized for particular industries	178 782	309 921	269 366	278 522
73	Metalworking machinery	39 737	51 680	65 302	67 665
74	General industrial machinery and equipment, n. e. s.	354 317	432 804	467 138	562 570
75	Office machines and automatic data processing machines	352 545	314 282	284 004	318 121
76	Telecommunications and sound-recording and reproducing apparatus	712 639	946 799	596 075	704 265
77	Electrical machinery, apparatus and appliances	2 836 146	3 561 003	3 707 920	3 395 536
78	Road vehicles	852 772	1 192 330	1 397 225	1 428 922
79	Other transport equipment	465 890	227 468	368 860	270 535

16.5 Export of the City of Zagreb by SITC sectors

(Continued)

Thousands of HRK

		2015	2016	2017	2018
8	Miscellaneous manufactured articles	2 232 966	2 837 536	2 654 987	2 850 166
81	Prefabricated buildings; sanitary, plumbing, heating and lighting fixtures and fittings, n. e. s.	199 950	274 671	326 709	385 174
82	Furniture and parts thereof	191 566	181 193	186 549	184 695
83	Travel goods	20 950	33 311	30 894	26 151
84	Clothing	300 910	293 138	325 779	334 917
85	Footwear	117 666	161 578	197 458	211 503
87	Scientific and controlling instruments	509 698	447 899	470 193	548 954
88	Photographic apparatus and optical goods; watches and clocks	48 872	69 131	92 961	139 095
89	Miscellaneous manufactured articles, n. e. s.	843 354	1 376 614	1 024 443	1 019 677
9	Commodities and transactions, n. e. s.	296 348	183 388	110 073	119 502
97	Gold, non-monetary	296 348	183 388	110 073	119 502
	Unclassified	249 159	96 370	148 804	258 114
XX	Unclassified	249 159	96 370	148 804	258 114

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

		2015	2016	2017	2018
Total¹⁾		72 912 923	73 950 616	80 119 588	86 101 824
0	Food and live animals	7 029 027	7 169 412	7 329 383	7 611 010
00	Live animals	28 624	39 593	54 598	60 724
01	Meat and meat preparations	552 359	644 036	701 565	761 286
02	Dairy products and birds' eggs	522 592	597 164	737 015	824 070
03	Fish and preparations thereof	417 688	362 187	387 380	464 122
04	Cereals and cereal preparations	967 416	998 012	1 061 915	1 123 004
05	Vegetables and fruit	1 806 848	1 859 443	1 815 878	1 885 220
06	Sugars, sugar preparations and honey	303 809	318 217	279 689	262 460
07	Coffee, tea, cocoa, spices	1 031 108	1 055 116	1 050 897	1 019 773
08	Feeding stuff for animals (not including unmilled cereals)	611 169	525 976	466 327	361 461
09	Miscellaneous edible products and preparations	787 414	769 668	774 120	848 889
1	Beverages and tobacco	1 204 973	1 211 801	1 340 395	1 490 504
11	Beverages	738 089	795 183	900 165	1 038 703
12	Tobacco and tobacco manufactures	466 884	416 619	440 230	451 801
2	Crude materials, except fuels	522 568	663 894	738 987	808 969
21	Hides, skins and furskins, raw	38 204	35 451	34 843	26 530
22	Oil-seeds and oleaginous fruits	73 399	61 024	70 244	72 234
23	Crude rubber	10 809	10 952	11 344	15 823
24	Cork and wood	86 409	94 601	106 515	131 856
25	Pulp and waste paper	16 415	107 022	136 507	98 552
26	Textile fibres and their wastes	24 564	22 607	24 666	24 758
27	Crude fertilizers and crude minerals	50 083	64 615	52 374	93 367
28	Metalliferous ores and metal scrap	5 544	32 380	53 341	69 722
29	Crude animal and vegetable materials, n. e. s.	217 141	235 240	249 154	276 128

16.6 Import of the City of Zagreb by SITC sectors

(Continued)

Thousands of HRK

		2015	2016	2017	2018
3	Mineral fuels and lubricants	16 371 386	14 164 538	16 063 988	17 253 520
32	Coal, coke and briquettes	15 312	14 723	58 847	325 092
33	Petroleum and petroleum products	11 035 587	9 225 210	11 062 373	13 042 423
34	Gas, natural and manufactured	438 436	589 690	658 832	721 919
35	Electric current	4 882 050	4 334 915	4 283 936	3 164 087
4	Animal and vegetable oils and fats	403 967	456 173	448 620	399 784
41	Animal oils and fats	2 772	4 405	4 135	4 859
42	Fixed vegetable fats and oils	380 927	437 242	429 274	386 398
43	Animal or vegetable fats and oils, processed	20 268	14 525	15 211	8 527
5	Chemicals and related products	11 821 596	11 841 641	12 853 602	13 918 436
51	Organic chemicals	1 453 295	1 326 957	1 661 740	1 329 838
52	Inorganic chemicals	146 020	126 245	137 626	145 354
53	Dyeing, tanning and colouring materials	456 249	464 775	436 493	468 795
54	Medicinal and pharmaceutical products	4 905 438	5 112 664	5 350 182	6 116 523
55	Essential oils and perfume materials; toilet preparations	2 086 159	2 119 575	2 391 077	2 648 987
56	Fertilizers	66 274	86 667	55 805	27 504
57	Plastics in primary forms	527 441	538 249	551 156	591 242
58	Plastics in non-primary forms	808 045	818 081	860 643	908 454
59	Chemical materials and products, n. e. s.	1 372 676	1 248 426	1 408 881	1 681 738
6	Manufactured goods classified chiefly by material	7 908 495	7 843 846	8 394 251	8 967 083
61	Leather, leather manufactures, furskins	11 088	13 042	15 314	40 905
62	Rubber manufactures	789 703	752 705	785 050	859 920
63	Cork and wood manufactures	349 614	396 434	434 214	496 908
64	Paper, paperboard and articles of paper pulp	1 884 787	1 746 479	1 763 804	1 802 287
65	Textile yarn, fabrics and related products	706 022	731 737	737 712	829 766
66	Non-metallic mineral manufactures	728 349	772 930	772 342	899 994
67	Iron and steel	1 196 966	1 176 355	1 257 651	1 306 748
68	Non-ferrous metals	631 657	625 550	630 642	702 923
69	Manufactures of metals, n. e. s.	1 610 308	1 628 614	1 997 523	2 027 631
7	Machinery and transport equipment	18 677 244	20 390 635	22 271 367	24 055 650
71	Power-generating machinery and equipment	535 152	423 451	866 285	407 504
72	Machinery specialized for particular industries	796 749	905 467	1 061 414	1 223 212
73	Metalworking machinery	166 264	174 260	211 856	207 230
74	General industrial machinery and equipment, n. e. s.	2 476 975	2 636 472	2 793 345	2 905 388
75	Office machines and automatic data processing machines	1 986 861	1 874 650	2 080 206	2 104 695
76	Telecommunications and sound-recording and reproducing apparatus	3 636 869	3 711 950	3 679 103	3 987 150
77	Electrical machinery, apparatus and appliances	3 697 180	3 884 090	4 334 711	4 590 767
78	Road vehicles	4 788 227	6 016 590	6 718 803	7 896 248
79	Other transport equipment	592 966	763 705	525 645	733 457

16.6 Import of the City of Zagreb by SITC sectors

(Continued)

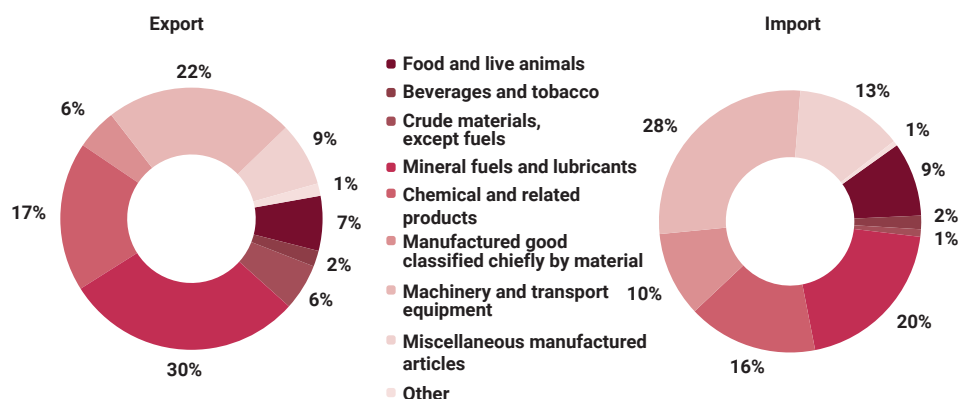
Thousands of HRK

		2015	2016	2017	2018
8	Miscellaneous manufactured articles	8 957 753	10 195 582	10 639 147	11 544 833
81	Prefabricated buildings; sanitary, plumbing, heating and lighting fixtures and fittings, n. e. s.	412 937	437 174	529 437	567 935
82	Furniture and parts thereof	680 744	735 628	860 332	972 203
83	Travel goods	225 605	255 094	263 443	286 523
84	Clothing	2 388 796	2 746 151	2 977 194	3 255 972
85	Footwear	1 108 089	1 239 715	1 253 690	1 326 580
87	Scientific and controlling instruments	1 205 136	1 267 873	1 286 426	1 484 615
88	Photographic apparatus and optical goods; watches and clocks	316 040	368 608	399 936	467 889
89	Miscellaneous manufactured articles, n. e. s.	2 620 407	3 145 338	3 068 689	3 183 115
9	Commodities and transactions, n. e. s.	14 211	13 047	39 735	51 767
96	Coin	2	4	1	11
97	Gold, non-monetary	14 208	13 044	39 735	51 755
	Unclassified	1 704	47	113	269
XX	Unclassified	1 704	47	113	269

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 2018



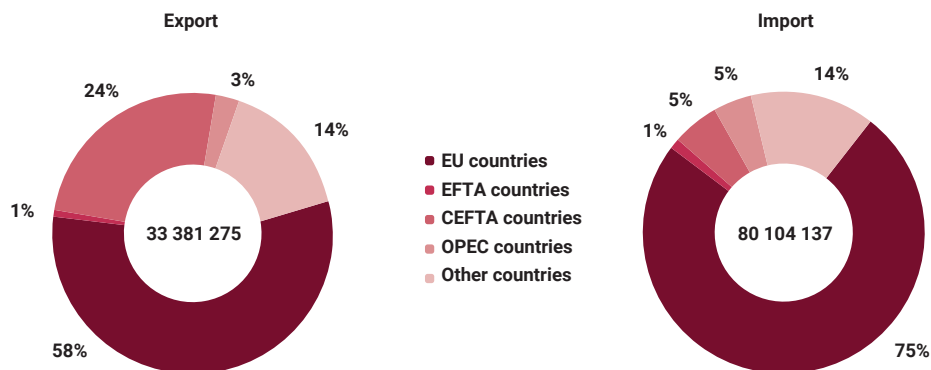
16.7 Export and import by economic classification of countries

Thousands of HRK

	Export			Import		
	2016	2017	2018	2016	2017	2018
Total	30 630 374	33 283 999	33 381 275	74 083 853	80 129 738	86 104 137
EU countries	17 008 565	18 200 584	19 443 167	55 375 418	59 872 142	64 136 000
EFTA countries	310 571	257 171	418 284	881 914	953 629	1 213 294
CEFTA countries	6 795 138	8 310 437	8 092 295	4 206 599	4 304 539	4 233 976
OPEC countries	1 548 269	903 398	837 195	2 389 524	3 534 438	4 302 844
Other countries	4 967 832	5 612 409	4 590 334	11 230 399	11 464 988	12 218 023

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 2018



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

	Export			Import		
	2016	2017	2018	2016	2017	2018
Total	30 630 374	33 283 999	33 381 275	74 083 853	80 129 738	86 104 137
Afghanistan	65	160	180	-	-	2
Albania	154 841	229 355	247 236	11 285	13 809	14 457
Algeria	181 097	123 031	364 288	7	-	972
US Virgin Islands	-	-	-	37	-	-
Andorra	-	-	-	-	34	-
Angola	199	1 236	255	30	-	-
Antigua and Barbuda	61	-	-	61	-	-
Argentina	11 848	5 409	51 784	38 670	39 727	36 245
Armenia	123 668	14 152	9 367	-	13	-
Australia	42 021	60 280	46 905	4 706	4 133	9 760
Austria	1 026 122	1 044 668	1 131 942	4 667 452	4 840 224	5 158 047
Azerbaijan	5 381	1 391	2 405	1 625 729	1 674 319	2 556 931
Bahamas	-	234	1 127	116	-	-
Bahrain	1 854	84	193	-	217	1 585
Bangladesh	26 449	25 438	6 995	16 162	15 741	17 053
Belgium	221 967	227 178	331 131	1 363 873	1 423 050	1 358 270
Benin	-	19	10 303	-	-	109
Bermuda	-	-	655	-	-	-
Ivory Coast	537	2 537	2 980	22	-	-
Belarus	120 525	38 178	40 266	1 190	1 896	3 777
Bolivia, the Plurinational State of Bolivia	266	-	-	571	372	1 005
Bonaire, Saint Eustazia and Saba	-	-	8	-	-	-
Bosnia and Herzegovina	4 267 758	5 372 668	5 296 301	2 255 108	2 501 069	2 167 763

Thousands of HRK

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

(Continued)

Thousands of HRK

	Export			Import		
	2016	2017	2018	2016	2017	2018
Christmas Island	-	-	-	-	1	-
Brazil	4 973	7 183	26 645	296 438	125 706	62 551
British Virgin Islands	2 501	543	814	1 794	3 196	-
Brunei	-	68	2	-	-	108
Bulgaria	176 231	146 299	208 541	700 151	403 810	566 799
Burkina Faso	2 951	6 333	1 131	-	-	6
Burundi	-	2	8	-	-	-
Cyprus	20 879	41 702	18 823	58 074	32 227	32 656
Montenegro	400 840	443 134	535 203	6 685	6 923	4 928
Curaçao	245	-	-	-	-	-
Chad	11	-	13	-	1	4
Czech Republic	507 967	519 031	481 230	1 826 592	1 965 642	2 528 345
Chile	6 832	1 084	14 731	8 407	9 786	11 293
Denmark	68 026	85 493	83 141	610 802	1 061 704	485 476
Dominican Republic	398	331	4 076	591	897	800
Djibouti	276	7 130	88	-	-	-
Egypt	511 094	777 563	280 385	279 694	25 815	36 378
Ecuador	581	508	-	98 750	59 483	62 203
Eritrea	3 641	38	1 258	-	-	-
Estonia	41 873	59 890	21 647	6 913	10 819	14 059
Ethiopia	6 384	-	1 584	2 162	2 462	1 499
Faroe Islands	30	-	-	-	-	-
Fiji	-	-	1	-	-	-
Philippines	8 153	62 843	63 418	8 304	9 183	19 345
Finland	60 324	140 929	78 920	83 918	114 347	90 360
France	438 962	535 522	455 060	2 199 506	2 351 220	2 766 514
French Polynesia	-	1	2	-	-	-
French Southern Territories	-	-	4	-	-	-
Gabon	1 611	1 778	494	-	-	-
Ghana	420	1 012	1 692	31	5	777
Gibraltar	811 979	834 796	1 095 786	-	-	12 980
Greece	94 185	101 488	78 298	426 460	360 440	540 347
Georgia	409	3 043	16 470	451	1 199	144
Guam	-	-	-	2	-	-
Guyana	-	-	205	5	3	-
Guatemala	518	1 210	481	478	326	1 588
Guinea	-	-	1 078	-	-	-
Haiti	893	474	91	90	123	60
Honduras	-	-	-	1 681	3 943	2 252
Hong Kong	16 766	10 390	23 337	31 062	75 598	100 422

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

(Continued)

Thousands of HRK

	Export			Import		
	2016	2017	2018	2016	2017	2018
India	25 332	30 913	20 055	537 687	653 144	488 708
Indonesia	11 690	8 423	10 296	78 089	66 641	28 343
Iraq	6 588	14 660	18 101	1 192 475	1 649 644	2 952 153
Iran, Islamic Republic	3 744	2 755	12 786	2 852	396 516	440 228
Ireland	157 117	241 646	129 129	369 428	394 795	463 803
Iceland	16 717	13 487	10 343	3 808	7 693	3 346
Italy	2 373 762	3 224 754	3 805 419	5 998 903	6 792 251	7 192 057
Israel	157 786	259 732	86 647	71 012	53 655	125 964
Japan	18 558	30 202	61 122	182 640	140 056	184 198
Jordan	1 027	3 518	876	585	308	1 371
South Sudan	2 525	50	603	-	-	-
South Africa	6 628	58 754	59 543	10 786	14 985	4 966
Cayman Islands	1 566	26	21	-	-	-
Cambodia	-	-	978	9 963	10 774	5 519
Cameroon	85	-	-	269	-	1
Canada	136 683	136 374	116 641	49 116	57 161	377 942
Qatar	313 737	318 912	98 245	432	583	177
Kazakhstan	23 372	49 148	19 640	624 461	1 070 707	476 640
Kenya	699	49 362	3 173	4	33	-
China	102 534	157 692	112 714	2 086 186	2 098 106	2 142 990
Kyrgyz Rep.	-	3	-	361	489	687
Kiribati	-	-	-	18	-	-
Colombia	2 698	423	336	4 235	48 219	41 588
Congo	1 091	551	7 694	17	-	-
Congo, Democratic Republic	681	-	-	-	2	-
Korea, Republic	22 968	17 485	18 285	138 280	154 035	253 577
Kosovo	199 402	159 347	225 368	7 531	4 843	6 195
Costa Rica	100	-	-	892	398	14 126
Cuba	15 350	18 850	11 637	1 313	432	349
Kuwait	58 579	5 283	5 782	10	5	3
Laos, People's Democratic Republic	-	26	-	105	85	60
Latvia	40 548	24 080	16 361	18 234	24 442	25 844
Lebanon	22 033	14 474	81 970	288	56	55
Liberia	202	1	402	-	-	-
Libya	12 489	1 006	1 551	588 182	871 248	525 364
Liechtenstein	75	32	137	182	72	285
Lithuania	49 274	58 476	73 724	87 363	91 472	102 180
Luxembourg	9 770	23 351	27 710	61 650	55 901	56 453
Madagascar	-	12	24	55	-	2
Hungary	1 671 517	1 396 376	1 503 546	5 970 190	6 680 312	7 114 887

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

(Continued)

Thousands of HRK

	Export			Import		
	2016	2017	2018	2016	2017	2018
Macao	22	2	-	2 067	3 554	3 668
Malawi	-	-	254	2	-	-
Maldives	218	1 073	388	-	-	-
Malaysia	76 335	9 906	1 931	52 171	48 507	42 118
Mali	1 988	19	1 235	8	7	1
Malta	184 016	474 921	607 559	13 147	17 456	15 424
Morocco	20 112	527 075	17 413	5 875	3 614	5 836
Marshall Islands	1 453	18	9	-	-	-
Mauritius	88	200	3 169	2 712	1 639	1 668
Mauritania	-	1 154	2	-	-	-
Mexico	1 206	6 331	1 234	28 354	34 188	27 933
Myanmar	1 835	7 411	3 452	757	2 406	2 315
Moldova, Republic of	21 536	11 653	2 814	6 067	6 360	8 397
Mongolia	97	1 384	168	-	-	-
Mozambique	2 168	-	72	4	-	258
Namibia	76	132	53	23	3	-
Nepal	273	84	130	532	743	416
Niger	19	90	102	-	-	-
Nigeria	8 132	7 665	20 337	-	6	18
Nicaragua	-	-	-	111	124	1 033
Netherlands	448 281	332 887	474 242	3 201 736	3 489 303	3 687 618
Norway	154 833	104 588	212 685	25 090	36 890	332 030
New Caledonia	-	14	4	-	1	-
New Zealand	6 987	4 103	3 904	11 026	6 900	8 165
Germany	2 588 513	3 037 722	3 281 177	11 329 312	11 947 623	12 498 100
Occupied Palestinian Territory	1 754	4 072	401	-	-	-
Oman	1 486	21 079	1 667	5 383	398	1 927
Bouvet Island	-	-	-	1	-	-
Pakistan	525	558	499	30 563	35 460	37 985
Palau	-	1	-	-	-	-
Panama	2 177	171	422	22	279	65
Papua New Guinea	-	-	-	1 431	1 232	553
Paraguay	45	340	-	-	2	1 024
Peru	25 821	3 031	1 058	631	817	1 461
Poland	339 191	430 289	455 288	2 492 668	3 063 334	3 451 528
Portugal	45 474	96 210	80 249	81 563	91 004	92 924
Rwanda	1 633	4 753	819	-	805	-
Romania	150 553	207 999	277 526	292 048	316 912	517 898
Russia	624 243	223 503	91 774	1 647 375	1 413 280	2 327 323
Salvador	949	66 274	6 202	3	52	73

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

(Continued)

Thousands of HRK

	Export			Import		
	2016	2017	2018	2016	2017	2018
Samoa	-	-	-	47	-	-
San Marino	147	48	63	1 581	2 184	2 512
Saudi Arabia	756 277	350 795	334 648	504 972	554 548	320 573
Seychelles	303	337	212	-	-	-
Senegal	201	456	316	2	-	-
Sierra Leone	355	98	172	-	-	-
Singapore	50 417	9 980	6 801	30 192	24 349	24 366
Syria	98	23	-	25	38	-
United States of America	1 407 764	1 331 294	1 242 060	938 504	592 854	880 620
Northern Macedonia ¹⁾	326 067	326 131	347 122	227 037	259 752	310 597
Slovakia	254 798	251 902	356 245	1 325 809	1 721 520	1 760 912
Slovenia	4 909 430	4 226 321	4 241 464	9 138 059	9 392 806	10 192 540
Solomon Islands	96	-	-	6	-	-
Somalia	-	357	-	-	4	4
Serbia	1 424 694	1 768 149	1 438 251	1 692 886	1 511 783	1 721 639
Central African Republic	-	2 353	68	-	-	-
Sudan	3 085	544	1 489	-	-	-
Surinam	4	-	105	-	-	-
St. Lucia	-	1	-	-	-	-
Saint Christopher and Nevis	-	-	-	71	-	-
Saint Martin (the Dutch part)	138	199	-	-	-	-
Saint Vincent and the Grenadines	-	-	279	-	-	-
Spain	349 371	372 949	333 750	1 429 802	1 659 684	1 838 323
Sri Lanka	23	2 095	1 279	3 680	4 730	5 674
Sweden	401 398	304 659	301 300	638 295	587 024	566 294
Switzerland	138 946	139 064	195 119	852 834	908 974	877 633
Tajikistan	-	-	53	-	-	-
Thailand	1 969	2 874	12 077	70 800	167 597	84 943
Taiwan	4 043	4 683	4 648	90 512	125 099	174 598
Tanzania, United Republic of	4 771	1 364	794	11	26	-
Togo	24	118	37	-	-	-
Tokelau	-	-	-	3	-	-
Tonga	10	-	-	-	-	-
Trinidad and Tobago	-	1 204	-	5	-	48
Tunisia	57 632	209 953	257 059	2 320	3 237	2 453
Turkmenistan	-	1 130	104	-	-	-
Turkey	223 671	299 633	331 704	825 277	961 077	1 071 631
Tuvalu	-	-	-	-	-	4
Uganda	-	19	-	-	5	11
United Kingdom	379 016	593 842	589 745	983 470	982 820	1 018 342

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

(Continued)

Thousands of HRK

	Export			Import		
	2016	2017	2018	2016	2017	2018
United Arab Emirates	206 845	77 547	71 259	1 757	2 356	1 330
Ukraine	68 628	81 637	68 871	52 476	45 418	68 535
Uruguay	270	267	10	1	5	-
Uzbekistan	9	27	74	-	-	-
Vanuatu	-	730	1	-	-	-
Venezuela, Bolivarian Republic	1	-	-	57	49	-
Vietnam	40 025	14 867	23 093	79 081	99 854	84 965
Zambia	17 017	267	14 831	21	-	-
Cape Verde	-	2	-	-	-	-
Zimbabwe	-	657	2 711	2	59	29
Other countries	49 254	62 691	75 386	1 231 915	1 520 459	329 872

¹⁾ Since 15 February 2019, the Republic of Croatia has used the name Republic of Northern Macedonia in all forms of official communication.

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

16.9 Most important export partners

Thousands of HRK

	2016	2017	2018	2018 Share, %
Total	30 630 374	33 283 999	33 381 275	100.0
Bosnia and Herzegovina	4 267 758	5 372 668	5 296 301	15.9
Slovenia	4 909 430	4 226 321	4 241 464	12.7
Italy	2 373 762	3 224 754	3 805 419	11.4
Germany	2 588 513	3 037 722	3 281 177	9.8
Hungary	1 671 517	1 396 376	1 503 546	4.5
Serbia	1 424 694	1 768 149	1 438 251	4.3
United States of America	1 407 764	1 331 294	1 242 060	3.7
Austria	1 026 122	1 044 668	1 131 942	3.4
Gibraltar	811 979	834 796	1 095 786	3.3
Malta	184 016	474 921	607 559	1.8
United Kingdom	379 016	593 842	589 745	1.8
Montenegro	400 840	443 134	535 203	1.6
Czech Republic	507 967	519 031	481 230	1.4
Netherlands	448 281	332 887	474 242	1.4
Poland	339 191	430 289	455 288	1.4
France	438 962	535 522	455 060	1.4
Algeria	181 097	123 031	364 288	1.1
Slovakia	254 798	251 902	356 245	1.1
Northern Macedonia ¹⁾	326 067	326 131	347 122	1.0
Saudi Arabia	756 277	350 795	334 648	1.0
Other countries	5 932 323	6 665 766	5 344 699	16.0

¹⁾ Since 15 February 2019, the Republic of Croatia has used the name Republic of Northern Macedonia in all forms of official communication.

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			
	2016	2017	2018	2018 Share, %
Total	74 083 853	80 129 738	86 104 137	100.0
Germany	11 329 312	11 947 623	12 498 100	14.5
Slovenia	9 138 059	9 392 806	10 192 540	11.8
Italy	5 998 903	6 792 251	7 192 057	8.4
Hungary	5 970 190	6 680 312	7 114 887	8.3
Austria	4 667 452	4 840 224	5 158 047	6.0
Netherlands	3 201 736	3 489 303	3 687 618	4.3
Poland	2 492 668	3 063 334	3 451 528	4.0
Iraq	1 192 475	1 649 644	2 952 153	3.4
France	2 199 506	2 351 220	2 766 514	3.2
Azerbaijan	1 625 729	1 674 319	2 556 931	3.0
Czech Republic	1 826 592	1 965 642	2 528 345	2.9
Russia	1 647 375	1 413 280	2 327 323	2.7
Bosnia and Herzegovina	2 255 108	2 501 069	2 167 763	2.5
China	2 086 186	2 098 106	2 142 990	2.5
Spain	1 429 802	1 659 684	1 838 323	2.1
Slovakia	1 325 809	1 721 520	1 760 912	2.0
Serbia	1 692 886	1 511 783	1 721 639	2.0
Belgium	1 363 873	1 423 050	1 358 270	1.6
Turkey	825 277	961 077	1 071 631	1.2
United Kingdom	983 470	982 820	1 018 342	1.2
Other countries	10 831 445	12 010 671	10 598 224	12.3

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

In 2018, there were 1.4 million tourist arrivals, which represents a 37% growth compared to 2015, i.e. a 9% growth compared to 2017. The total number of overnight stays equalled 2.5 million in 2018, representing a 44% growth compared to 2015, i.e. 11% growth compared to 2017.

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 No. 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 Nos 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 2015 and 2016 data have been revised in order to make them comparable with 2017 (business entities sleeping cars and couchettes are excluded).

Data on the number of accommodation facilities for persons with reduced mobility and persons with disabilities have been collected from accommodation facilities of the group Hotels and Similar Accommodation which dispose of one or more accommodation units for persons with reduced mobility and persons with disabilities, via the form Annual report on accessibility of tourist accommodation facilities to persons with reduced mobility.

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 Nos 48/02, 108/02, 132/03, 73/04, 67/06, 88/07, 58/08, 62/09, 63/13, 33/14, 92/14, 9/16, 54/16, 56/16 61/16 and 69/17) as follows: hotels, heritage hotels, all-suite hotels, integral hotels, diffuse hotels, boarding houses, special-standard hotels, camps, campsites outside camps, rooms for rent, apartments, studio apartments, holiday homes, overnight accommodations, hostels, mountain lodges, hunting lodges, pupils or students dormitories (when used for tourism purposes), households.

Pursuant to the Catering Act (Official Gazette Nos 85/15, 121/16 and 99/18), 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.

Person with reduced mobility is a person with temporary or permanent mobility difficulties due to disability, age, pregnancy etc.

Person with disability is any person with permanent or temporary physical, mental, intellectual and/or sensory impairment which, in interaction with various spatial obstacles, can prevent them from participating in society as equals.

Accessible building is every building, part of building or equipment which enables the satisfaction of obligatory preconditions of accessibility. Accessibility is the result of application of technical solutions in the designing of structures which allow persons with disabilities or reduced mobility to freely access, move around, reside and work in the facility.

The accessibility of buildings to persons with disabilities is regulated by the Building Act (Official Gazette No. 153/13), while the obligations related to the construction of new buildings, as well as obligations of adjustment of the existing buildings being reconstructed, are defined by the Ordinance on ensuring access to the disabled and to persons with reduced mobility (Official Gazette No. 78/13).

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

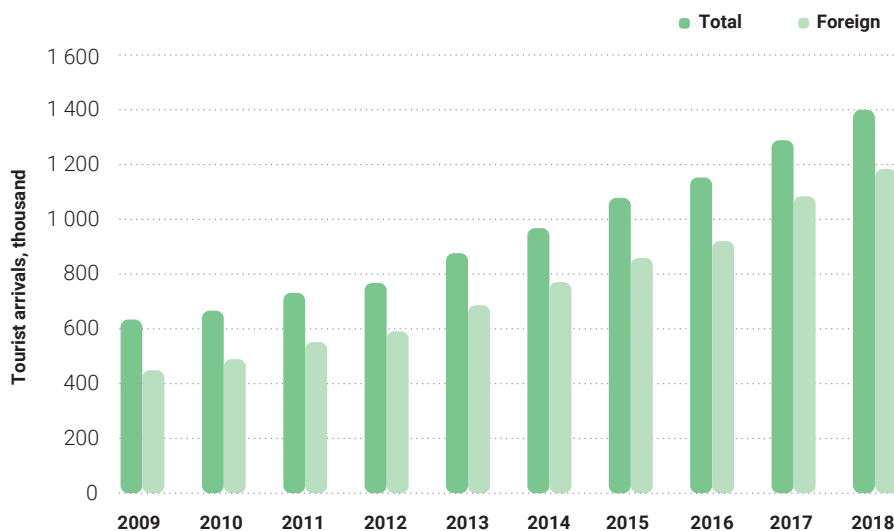
Status as of 31 August

	2017				2018			
	Facilities	Rooms	Apartments and camping sites	Beds – total ¹⁾	Facilities	Rooms	Apartments and camping sites	Beds – total ¹⁾
Total	289	5 061	1 595	16 059	335	6 841	2 003	20 721
Hotels and similar accommodation ²⁾	57	3 907	189	7 849	63	3 985	190	7 787
Hotels	52	3 621	148	7 253	57	3 498	111	6 632
Rooms for rent, apartments, studio apartments, holiday homes ³⁾	187	529	1 406	5 924	225	2 211	1 813	10 588
Hostels	45	625	-	2 286	47	645	-	2 346

¹⁾ Permanently available and extra beds.²⁾ Hotels, all-suite aparthotels, integral hotels, heritage hotels and special standard hotels.³⁾ Including rooms, apartments, studio apartments, holiday homes in which accommodation services were rendered by hotel and restaurant entrepreneurs (legal entity or natural person), households and private family farms, overnight accommodations, inns offering accommodation services, pupils and students dormitories.

Source: CBS

G 17.1 Tourist arrivals

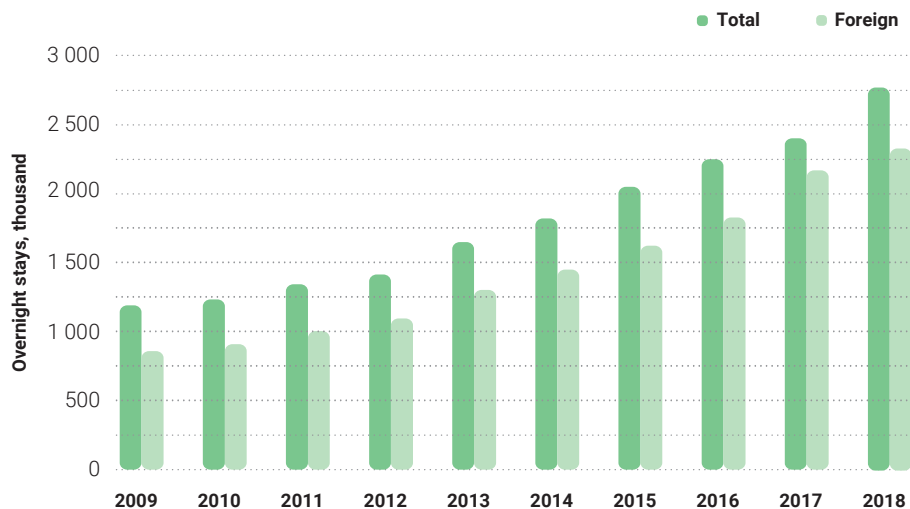


17.2. Hotels and similar accommodation for persons with reduced mobility and persons with disabilities¹⁾

	2015		2018	
	Total	Structure,%	Total	Structure,%
Total accommodation facilities	23	-	33	-
Total accommodation units	217	100.0	142	100.0
Rooms	206	94.9	133	93.7
Apartments	11	5.1	9	6.3

¹⁾ See Notes on Methodology.

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 type of tourist accommodation facilities**

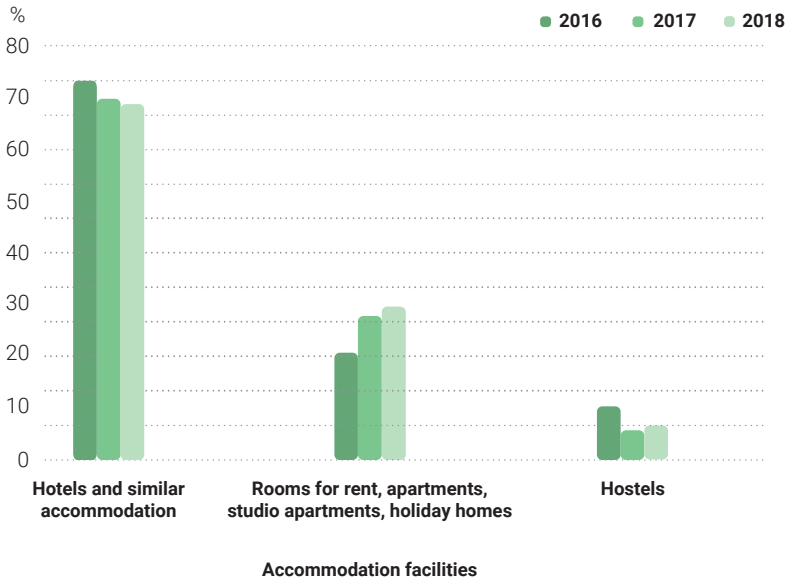
	2017				2018			
	Arrivals		Overnight stays		Arrivals		Overnight stays	
	Total	Foreign	Total	Foreign	Total	Foreign	Total	Foreign
Total	1 286 087	1 082 222	2 263 758	1 901 153	1 400 201	1 177 014	2 511 817	2 101 705
Hotels and similar accommodation ¹⁾	950 875	816 129	1 509 507	1 299 954	1 001 022	861 408	1 591 690	1 376 070
Hotels	872 785	746 531	1 378 866	1 181 678	875 108	747 970	1 376 963	1 180 445
Rooms for rent, apartments, studio apartments, holiday homes ²⁾	213 068	169 986	523 045	419 592	277 677	217 773	688 138	538 981
Hostels	122 144	96 107	231 206	181 607	121 502	97 833	231 989	186 654

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

²⁾ Including rooms, apartments, studio apartments, holiday homes in which accommodation services were rendered by hotel and restaurant entrepreneurs (legal entity or natural person), households and private family farms, overnight accommodations, inns offering accommodation services, pupils and students dormitories.

Source: CBS

G 17.3 Overnight stays of foreign tourists by type of tourist accommodation facilities



17.4 Tourist arrivals and overnight stays by country of residence

	2015		2016		2017		2018	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Total	1 019 617	1 746 129	1 108 600	1 972 109	1 286 087	2 263 758	1 400 201	2 511 817
Domestic	191 311	348 412	210 584	373 497	203 865	362 605	223 187	410 112
Foreign	828 306	1 397 717	898 016	1 598 612	1 082 222	1 901 153	1 177 014	2 101 705
Austria	24 807	41 120	28 545	47 072	34 695	57 469	36 218	59 215
Belgium	9 833	16 703	12 098	22 531	14 148	26 910	16 022	30 005
Bosnia and Herzegovina	26 800	44 749	35 960	61 381	41 267	72 136	46 829	85 386
Bulgaria	28 853	37 288	31 334	42 297	31 972	43 350	30 905	44 205
Montenegro	4 589	9 273	5 138	10 462	5 480	11 470	5 808	12 592
Czech Republic	8 017	14 193	9 647	16 860	10 864	18 295	11 241	18 998
Denmark	5 602	10 576	5 781	11 476	6 116	12 776	7 526	16 826
France	26 715	48 249	26 964	51 715	28 040	54 696	30 130	60 048
Greece	8 123	14 549	10 245	16 381	11 770	19 167	11 936	20 474
Ireland	3 009	6 484	2 824	6 472	3 564	8 066	4 223	9 231
Italy	47 588	91 520	55 446	105 826	61 049	117 586	61 321	121 534
Hungary	12 158	20 196	13 264	23 577	17 165	30 622	20 002	33 290
Macedonia	8 417	15 311	8 739	15 885	9 616	18 400	11 700	24 716
Netherlands	17 415	30 323	17 629	34 031	20 560	39 532	22 678	42 732
Norway	3 202	6 302	3 321	7 642	4 489	10 694	5 462	13 725

17.4 Tourist arrivals and overnight stays by country of residence

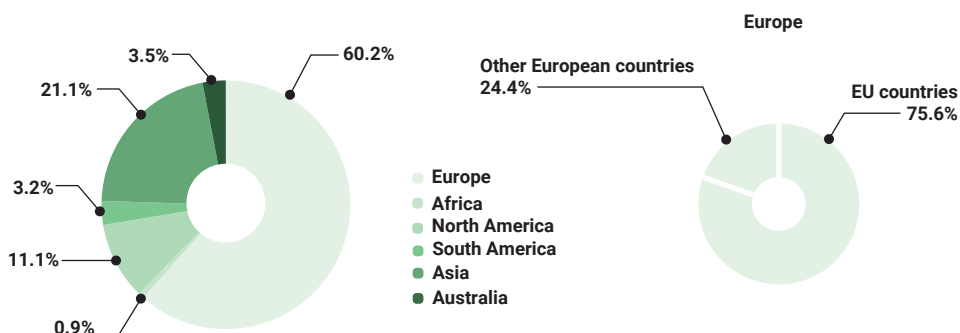
(Continued)

	2015		2016		2017		2018	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Germany	55 025	98 784	55 676	103 270	65 882	121 932	68 501	132 968
Poland	17 963	27 402	19 545	33 052	24 476	37 981	24 336	39 231
Portugal	7 982	13 512	7 483	15 461	9 258	17 258	10 007	17 609
Romania	10 636	19 434	12 192	25 199	14 302	27 524	18 257	33 763
Russia	9 436	18 236	9 956	22 247	11 479	23 667	11 301	23 474
Slovakia	5 724	9 682	6 583	11 750	7 946	13 838	8 778	14 659
Slovenia	20 892	34 550	25 470	41 197	27 099	43 370	30 325	50 036
Serbia	25 490	45 934	28 871	54 782	30 042	57 412	33 811	65 236
Spain	33 441	54 971	31 477	56 545	35 513	66 527	41 202	74 932
Sweden	7 669	14 580	8 037	16 500	8 774	17 595	9 794	20 649
Switzerland	11 162	20 966	12 875	26 151	14 961	29 786	16 492	31 215
Turkey	7 420	13 367	9 999	21 234	10 898	19 955	10 427	18 273
United Kingdom	32 244	64 519	33 366	75 413	39 959	92 845	37 262	84 561
Ukraine	3 565	6 497	5 489	11 033	7 360	12 566	7 101	12 612
Other European countries	19 167	38 173	19 969	43 530	23 028	46 816	24 605	52 756
Australia	16 874	33 189	17 516	36 953	24 528	51 008	30 574	64 177
Israel	13 362	26 345	14 612	29 737	14 995	30 546	14 647	30 307
Japan	28 123	37 372	21 795	30 554	27 641	40 614	32 677	48 685
Canada	16 283	30 881	18 766	37 284	23 543	46 602	31 057	59 682
China	29 944	38 581	31 453	44 618	42 104	56 258	57 703	81 696
Republic of Korea	90 787	102 238	94 537	107 655	112 328	132 139	101 639	120 217
USA	53 457	113 086	53 541	113 086	68 151	143 943	79 723	171 372
Other non-European countries	76 532	128 582	91 873	167 753	137 160	229 802	154 794	260 618

¹⁾ See Notes on Methodology.

Source: CBS

G 17.4 Foreign tourist nights by continent of residence in 2018



17.5 Means of tourist arrivals

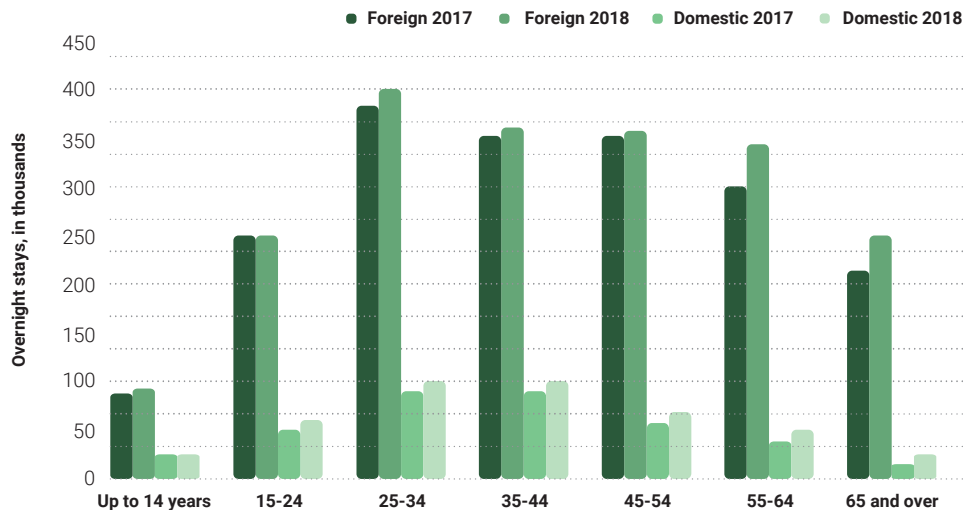
	2015		2016		2017		2018	
	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays	Arrivals	Overnight stays
Total	1 019 617	1 746 129	1 108 600	1 972 109	1 286 087	2 263 758	1 400 201	2 511 817
Individual	647 671	1 153 025	740 753	1 351 902	782 486	1 483 872	864 158	1 673 039
Domestic tourists	153 332	267 378	170 808	295 751	158 331	285 036	174 470	326 995
Foreign tourists	494 339	885 647	569 945	1 056 151	624 155	1 198 836	689 688	1 346 044
Organized	371 946	593 104	367 847	620 207	503 601	779 886	536 043	838 778
Domestic tourists	37 979	81 034	39 776	77 746	45 534	77 569	48 717	83 117
Foreign tourists	333 967	512 070	328 071	542 461	458 067	702 317	487 326	755 661

Source: CBS

17.6 Foreign tourist overnight stays by age groups

Age groups	2017			2018		
	Total	Foreign	Domestic	Total	Foreign	Domestic
Total	2 263 758	1 901 153	362 605	2 511 817	2 101 705	410 112
up to 14 years	101 283	80 570	20 713	109 297	87 567	21 730
15-24	298 541	251 347	47 194	331 759	272 502	59 257
25-34	476 433	384 787	91 646	518 655	417 255	101 400
35-44	429 751	337 271	92 480	472 986	369 608	103 378
45-54	394 001	332 926	61 075	432 660	362 608	70 052
55-64	335 169	299 623	35 546	375 914	337 419	38 495
65 and over	228 580	214 629	13 951	270 546	254 746	15 800

Source: CBS

G 17.5 Tourist overnight stays by age groups in 2017 and 2018

In 2018, the length of pipelines of public water mains in the City of Zagreb equalled 2 717 kilometres, and in the period between 2014 and 2018, the length of pipelines of mains increased by 336 kilometres, i.e. 14%.

18

Utility services



NOTES ON METHODOLOGY

Data sources

Data on utility services were obtained directly from utility companies.

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.

Data on public spaces for dogs were obtained from the City Office for Agriculture and Forestry.

Coverage and comparability

Data pertains to all business entities engaged in municipal activities.

Definitions and explanations

Provision of utility services refers to the comprehensive system of performing utility activities, construction and maintenance of utility infrastructure and maintenance of municipal order in the area of units of local and regional self-government. The basic principles of functioning of utility services and important matters for utility services are regulated by the Utility Management Act (Official Gazette Nos 26/03 – consolidated version, 174/14 and 36/15) and the Utility Management Act (Official Gazette Nos 68/18 and 110/18), in force since 4 August 2018.

In accordance with national legislation, the City Assembly of the City of Zagreb promulgates decisions and ordinances on the maintenance of municipal order and on the manner of provision of utility services in the City of Zagreb. They are published in the Official Gazette of the City of Zagreb.

Utility activities are activities which ensure the construction and/or maintenance of utility infrastructure in a functional state (maintenance of the utility infrastructure) and utility services provided to individual users which are necessary for everyday life and work in the City (utility services). Utility services are provided as a public service of general interest.

Utility services are utility activities implying the provision of services to individual users necessary for everyday life and work.

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. They usually have more than one pool but shall be considered as one public pool.

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 No. 31/11), which is the secondary regulation of the Fire Protection Act (Official Gazette Nos 106/99, 117/01, 36/02, 96/03, 174/04, 38/09, 80/10).

Cemetery is an area used for burial of the dead, and consists of the interior area (burial grounds, ceremonial, utility and mortuary areas) and the external area (traffic areas, car park and other services). Cemetery construction, use and management is regulated by the Act on Cemeteries (Official Gazette Nos 19/98, 50/12 and 89/17) and the Decision on Cemeteries (Official Gazette of the City of Zagreb No. 24/17).

Grave site is any grave, tomb, urn casket, columbarium niche, chapel, mausoleum, post in the pavilion, arcade or Mirogoj Church of Christ the King.

Mirogoj cemetery opened in 1876, while the crematorium opened in 1986, the same year in which burials in the Grove of Urns began to take place. Miroševac cemetery opened in 1952, and in 1996, Markovo Polje cemetery was proclaimed a city cemetery.

Burials do not take place at the Old Catholic cemetery, Hospital cemetery and Old Sesvete cemetery.

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.

Public parking area is any area designated for the parking of vehicles which is maintained as an outdoor street car park, allocated car park or garage.

Public paid car park is a maintained and duly marked street or segregated area at which parking is paid and which is marked by appropriate traffic signs and information on the parking zone, prices of parking depending on the parking time and manner of payment.

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 2018

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	+	+	-	Šašincec	+	+	-
Gornji Dragonožec	+	-	-	Šimunčevac	+	-	-
Gornji Trpuci	+	-	-	Veliko Polje	+	+	-
Grančari	+	+	-	Vuger Selo	+	+	-
Haviđić Selo	+	-	-	Vugrovec Donji	+	+	-

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

(Continued)

Status at the end of 2018

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 (-).²⁾ The town of Zagreb makes almost 90% of the population of the City of Zagreb.

Source: ZH – 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 households	To economic operators	To other users
thousands of m³										
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
2018	2 717	35	123.0	86 567	114 687	59 908	54 779	38 401	15 193	1 185

Source: ZH – 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		
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
2018	2 125	308	1 817	73 912	55 630

Source: ZH – 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 with bulbs	
				MWh							Floodlights	Sodium floodlights
2014	5 028	3 578	653	952 137	1 646 720	81 213	421 401	365	86	124 260	894	14
2015	5 095	3 578	747	958 838	1 719 175	81 294	424 239	365	483	128 750	935	14
2016	5 174	3 575	926	940 792	1 730 184	79 926	426 889	365	1 611	129 800	955	14
2017	5 220	3 581	1 838	942 219	1 740 790	72 125	428 983	365	2 460	130 150	970	14
2018	5 323	3 572	1 268	921 241	1 751 797	71 639	432 821	1 795	5 730	109 700	1 375	

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

	2014	2015	2016	2017	2018
Total quantity of distributed process steam, tons	315 387	331 648	325 789	317 856	312 918
Total quantity of distributed heat, MWh	1 208 051	1 266 274	1 279 831	1 261 953	1 191 437
Heating of dwellings by heating plants and boiler rooms in housing estates					
Number of dwellings	94 658	94 779	96 085	96 586	97 251
Dwellings area, m ²	5 188 743	5 199 459	5 252 223	5 277 668	5 338 340
Distributed heat, MWh	893 990	917 824	905 743	895 559	848 641

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
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
2018	3 111	3 432	265 329	237

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 No. 104/13).

Source: ZH, 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	
		2017	2018	2017	2018
Total		3 502	3 432	263 176	265 329
TM1	≤ 5 000 kWh	166	190	100 951	99 325
TM2	> 5 000 kWh ≤ 25 000 kWh	1 524	1 537	147 125	150 314
TM3	> 25 000 kWh ≤ 50 000 kWh	457	418	11 831	12 353
TM4	> 50 000 kWh ≤ 100 000 kWh	127	120	1 727	1 764
TM5	> 100 000 kWh ≤ 1 000 000 kWh	429	398	1 323	1 350
TM6	> 1 000 000 kWh ≤ 2 500 000 kWh	201	195	140	140
TM7	> 2 500 000 kWh ≤ 5 000 000 kWh	163	171	47	52
TM8	> 5 000 000 kWh ≤ 10 000 000 kWh	145	131	21	20
TM9	> 10 000 000 kWh ≤ 25 000 000 kWh	110	95	6	6
TM10	> 25 000 000 kWh ≤ 50 000 000 kWh	128	126	4	4
TM11	> 50 000 000 kWh ≤ 100 000 000 kWh	52	51	1	1
TM12	> 100 000 000 kWh	-	-	-	-

Source: ZH, 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	Surface area, thousands of m ²	Number	Surface area, thousands of m ²	Length, km	Number
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
2018	45	592	10 850	2	71	1	70	243	760

¹⁾ Data refers to the areas maintained by Zagreb Holding, subsidiary Zrinjevac.

Source: ZH - 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 2018

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	Ulica Ivana Gorana Kovačića	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	Bistrička ulica	6 234	Jagičeva	1 884

¹⁾ Data refers to the areas maintained by Zagreb Holding, subsidiary Zrinjevac.

Source: ZH - subsidiary Zrinjevac

18.10 Markets

	2014 ¹⁾	2015 ¹⁾	2016 ¹⁾	2017 ¹⁾	2018 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	2 479	3 077	2 728
Surface area, m ²	7 035	7 035	6 701	6 299	5 488
Number of shops at markets	523	523	523	523	674

¹⁾ The data includes Sesvete Market and Green Market.

Source: ZH - subsidiary Zagreb Markets

18.11 Swimming pools

	2014	2015	2016	2017	2018
Number of swimming pool complex ¹⁾	5	5	7	7	8
Number of pools ¹⁾	16	16	22	25	25
Surface area, m ²	8 247	8 247	11 066	11 941	12 141
Number of swimmers in thousands	331	323	500 ²⁾	995 ²⁾	554 ²⁾

¹⁾ See Notes on Methodology.²⁾ 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⁾		
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
2018	636	12	209	16	14	-	8	377	8	4

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

	2014	2015	2016	2017	2018
Firefighting interventions – total	4 102	2 814	2 772	3 436	2 837
Interventions by the Public Fire Department	2 970	2 642	2 574	3 166	2 544
Centre	1 084	1 007	957	1 057	972
Žitnjak	419	346	343	436	336
Jankomir	406	371	373	441	337
Novi Zagreb	489	410	397	542	367
Dubrava	572	508	504	690	532
Interventions by Volunteer Fire Departments	1 132	172	198	270	293
With assistance from the Public Fire Department	1 062	119	134	142	198
Independent	70	53	64	128	95

Source: Zagreb Public Fire Department

18.14 Participation of firefighters by type of intervention

	2014	2015	2016	2017	2018
Firefighters – total	17 266	12 741	12 925	16 633	14 164
Number of firefighters in the Public Fire Department – total	12 590	11 789	11 770	14 094	12 390
Fires	5 733	6 462	6 754	7 775	6 567
Technical interventions	5 387	4 059	3 662	4 654	4 094
Other	1 470	1 268	1 354	1 665	1 729
Number of firefighters in the Volunteer Fire Departments – total	4 676	952	1 155	2 539	1 774
With assistance from the Public Fire Department	4 052	489	635	1 404	931
Independent	624	463	520	1 135	843

Source: Zagreb Public Fire Department

18.15 Cemeteries¹⁾

	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											
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
2018	28	173.0	38.5	93.8	40.7	187 829	21	1	41	2	22	2	22	1	13	7

¹⁾ See Notes on Methodology.

Source: ZH - 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
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
2018	4	158.2	144 281	499 232	112 089

Source: ZH - subsidiary City Cemeteries

18.17 Number of parking spaces in public garages

Public garage	2015	2016	2017	2018
Total	2 407	2 612	2 612	2 849
Kvaternikov Square	354	354	354	354
Gorica	370	370	370	370
Petrinjska	134	134	134	134
Langov Square	305	305	305	305
Svetice	115	115	115	115
Jelkovec 1 ¹⁾	-	205	205	205
Jelkovec 2 ²⁾	-	-	-	237
Tuškanac	465	465	465	465
Rebro	664	664	664	664

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

²⁾ The public garage in Jelkovec 2 was opened 2 October 2018.

Source: ZH - Corporate Development Directorate

18.18 Number of parking places by parking zones¹⁾

Parking zones	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total	25 622	26 061	25 664	26 451	30 502	30 618	33 212	35 105	35 937
I. zone	6 595	6 195	6 262	6 276	7 540	7 649	7 656	7 683	7 668
I. 1. zone	-	-	-	-	-	213	213	213	213
I. 2. zone	-	-	-	-	-	-	-	225	225
II. zone	13 331	13 980	13 741	14 495	17 817	17 373	17 672	18 039	18 258
III. zone	4 246	4 436	4 211	4 230	2 620	2 626	4 531	5 719	5 847
IV. 1. zone	1 450	1 450	1 450	1 450	1 660	1 410	1 410	1 410	1 410
IV. 2. zone	-	-	-	-	865	1 347	1 730	1 816	2 316

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: ZH - Corporate Development Directorate

18.19 Public spaces for dogs

	Spaces for dogs		Dog parks	
	2017	2018	2017	2018
Total	63	63	9	10
Donji Grad	1	1	-	-
Gornji Grad - Medveščak	4	4	-	-
Trnje	4	4	-	-
Maksimir	4	4	2	2
Peščenica-Žitnjak	3	3	2	2
Novi Zagreb-east	3	3	1	1
Novi Zagreb-west	4	4	1	1
Trešnjevka-north	5	5	1	1
Trešnjevka-south	6	6	-	-
Črnomerec	2	2	-	-
Gornja Dubrava	10	10	-	-
Donja Dubrava	4	4	-	-
Stenjevec	3	3	-	-
Podsused-Vrapče	6	6	2	3
Podsljeme	1	1	-	-
Sesvete	3	3	-	-
Brezovica	-	-	-	-

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

In 2018, the total of 341 605 tons of municipal waste was collected, which is 18 198 tons (5.1%) fewer than in 2017.

19

Protection of nature and environment



NOTES ON METHODOLOGY

Data sources

Data on Protected natural areas of the City of Zagreb were obtained from the Ministry of Environmental Protection and Energy.

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.

The data on supply, use and industry water discharges has been taken over from the Croatian Bureau of Statistics, which collects data via annual reports of business entities involved in mining, manufacturing and electricity and gas supply, which use water and pollute it.

The data on waste water and purified sewage (polluted) water has been collected from the business entity which manages public sewer and from the business entity which purifies discharged polluted water.

The source of data on waste is the Environmental Pollution Register to which waste holders, business entities / companies and natural persons / crafts, classified according to the 2007 National Classification of Activities (Official Gazette Nos 58/07 and 72/07), electronically submit data on the types and quantities of waste and on waste management. Environmental Pollution Register has been established, is managed and maintained by the Ministry of Environmental Protection and Energy. The obligation to keep data on waste has been prescribed by the Act on Sustainable Waste Management (Official Gazette Nos 94/13, 73/17, 14/19 and 98/19), Ordinance on Waste Management (Official Gazette Nos 23/14, 51/14, 121/15, 132/15 and 117/17) and Ordinance on the Environmental Pollution Register (Official Gazette No 87/15), and the waste classification by type has been set out by the Ordinance on Waste Catalogue (Official Gazette No. 90/15).

The total quantity of municipal waste includes the waste collected by the system of collection of municipal waste (waste from households, recycling centres, mobile recycling centres, public area containers), waste taken over from citizens at locations of waste purchase and service sector waste similar to municipal waste.

Definitions and explanations

Nature protection is carried out by protecting biodiversity, landscape diversity, geodiversity and protection of parts of nature.

Ecological network is a system of connected or spatially close ecologically important areas which, by a balanced biogeographic distribution significantly contribute to the protection of natural balance and biological diversity. Its parts are connected by natural or artificial ecological corridors.

Sediment and mass concentration mean – 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 Nos 117/12 and 84/17).

The symbols and abbreviations used in tables 19.2. – 19.18 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

C_M – 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

Measurement of noise levels of road traffic was carried out for the needs of drafting of the 2017 City of Zagreb Map of Strategic Noise, primarily at crossroads connecting main city corridors burdened by road traffic, which represent an important source of noise. Strategic maps of noise are periodically renewed on a five-year basis (Noise Protection Act, Official Gazette Nos 30/09, 55/13, 153/13, 41/16 and 114/18).

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 all potentially polluted industry, sanitary, precipitation and other waters r drained to the purification device after use, or water discharged into underground waters, watercourses, accumulations, lakes and sea.

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 No. 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	

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⁾
Leustekov Park		0.47	1963	
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	
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¹⁾ Nature Protection Act (Official Gazette Nos 80/13, 15/18)

²⁾ Within the City of Zagreb

³⁾ Regulation on the Ecological Network (Official Gazette Nos 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 2018 – summary results¹⁾

	N	OP (%)	C	C ₅₀	C _m	C _M	C ₉₈
Sulphur dioxide, µg/m ³	363	99.50	1.90	1.30	0.30	13.60	6.00
Carbon monoxide, mg/m ³	363	99.50	0.34	0.28	0.11	1.25	0.88
Benzene, mg/m ³	191	52.70	1.35	1.04	0.15	4.78	3.97

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.3 Concentration of nitrogen dioxide in the air in 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	365	100.0	39	37	3	84	68
Ksaverska Road	363	99.5	17	14	3	53	43
Peščenica	363	99.5	28	25	3	84	64
"Barun Filipović" Alley	359	98.4	47	43	1	126	101
Siget	362	99.2	49	47	9	123	88
Susedgrad	365	100.0	46	42	8	138	103

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.4 Concentration of ozone in the air in 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	365	100.0	40	41	3	128	89
Ksaverska Road	362	99.2	54	59	2	123	103
Peščenica	364	99.7	52	45	2	160	125
"Barun Filipović" Alley	334	91.5	33	29	0	94	78
Siget	342	93.7	36	33	7	101	91

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	µg/m ³			
				C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	363	99.2	31	25	5	116	81
Ksaverska Road	365	100.0	27	22	5	100	72
Peščenica	362	99.2	32	25	2	141	90
"Barun Filipović" Alley	365	100.0	30	25	6	118	84
Siget	365	100.0	34	29	6	142	90
Susedgrad	358	98.1	32	26	4	125	84

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	µg/m ³			
				C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	363	99.5	0.005	0.004	0.001	0.027	0.016
Ksaverska Road	363	99.5	0.005	0.004	0.000	0.046	0.002
Siget	364	99.7	0.009	0.007	0.000	0.008	0.037
Susedgrad	358	98.1	0.009	0.006	0.000	0.065	0.034

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	ng/m ³			
				C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	363	99.5	0.161	0.113	0.000	1.008	0.496
Ksaverska Road	363	99.5	0.145	0.109	0.001	0.765	0.476
Siget	364	99.7	0.209	0.164	0.001	1.092	0.707
Susedgrad	358	98.1	0.181	0.136	0.006	1.971	0.596

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	ng/m ³			
				C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	363	99.5	0.425	0.299	0.041	5.105	1.272
Ksaverska Road	363	99.5	0.388	0.269	0.000	4.018	1.282
Siget	364	99.7	0.479	0.361	0.000	2.263	1.344
Susedgrad	358	98.1	0.422	0.328	0.003	3.700	1.256

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	C ₅₀	C _m	C _M	C ₉₈
Đorđićeva Street	363	99.5	0.511	0.000	0.000	12.645	3.284
Ksaverska Road	363	99.5	0.242	0.000	0.000	2.825	1.798
Siget	364	99.7	1.001	0.864	0.000	17.939	3.034
Susedgrad	358	98.1	0.584	0.000	0.000	7.908	3.118

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	C ₅₀	C _m	C _M	C ₉₈
Ksaverska Road	365	100.0	1.118	0.364	0.005	11.046	6.073
Siget	365	100.0	1.993	0.694	0.009	24.487	12.259

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	C ₅₀	C _m	C _M	C ₉₈
Ksaverska Road	365	100.0	21.0	15.0	3.0	88.0	66.0
Siget	349	95.6	24.0	17.0	2.0	129.0	80.0
Susedgrad	365	100.0	22.0	16.0	1.0	113.0	75.0

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.12 Quantity of total suspended particulate matter in 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	CM
Đorđićeva Street	12	100.0	63	184
Ksaverska Road	12	100.0	63	205
Peščenica	12	100.0	70	274
"Barun Filipović" Alley	12	100.0	63	171
Siget	12	100.0	95	240
Susedgrad	12	100.0	80	206

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 2018 – summary results¹⁾

µg/m ² d				
Measuring station	N	OP (%)	C	CM
Đorđićeva Street	12	100.0	3.52	5.56
Ksaverska Road	12	100.0	2.01	4.50
Peščenica	12	100.0	1.76	3.23
"Barun Filipović" Alley	12	100.0	2.57	4.55
Siget	12	100.0	2.01	3.39
Susedgrad	12	100.0	33.62	216.93

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 2018 – summary results¹⁾

µg/m ² d				
Measuring station	N	OP (%)	C	CM
Đorđićeva Street	12	100.0	0.06	0.13
Ksaverska Road	12	100.0	0.05	0.09
Peščenica	12	100.0	0.06	0.14
"Barun Filipović" Alley	12	100.0	0.05	0.11
Siget	12	100.0	0.05	0.11
Susedgrad	12	100.0	0.12	0.24

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 2018 – summary results¹⁾

µg/m ² d				
Measuring station	N	OP (%)	C	CM
Đorđićeva Street	12	100.0	0.016	0.049
Ksaverska Road	12	100.0	0.016	0.049
Peščenica	12	100.0	0.015	0.039
"Barun Filipović" Alley	12	100.0	0.017	0.005
Siget	12	100.0	0.016	0.004
Susedgrad	12	100.0	0.034	0.010

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 2018 – summary results¹⁾

µg/m ² d				
Measuring station	N	OP (%)	C	CM
Đorđićeva Street	12	100.0	1.51	4.06
Ksaverska Road	12	100.0	1.27	3.53
Peščenica	12	100.0	1.26	2.80
"Barun Filipović" Alley	12	100.0	1.70	3.91
Siget	12	100.0	1.71	3.81
Susedgrad	12	100.0	7.75	49.32

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 2018 – summary results¹⁾

Measuring station	N	OP (%)	C	µg/m ² d
				C _M
Đorđićeva Street	12	100.0	0.45	1.05
Ksaverska Road	12	100.0	0.40	1.07
Peščenica	12	100.0	0.37	1.06
"Barun Filipović" Alley	12	100.0	0.39	0.93
Siget	12	100.0	0.42	1.00
Susedgrad	12	100.0	0.97	5.28

¹⁾ See Notes on Methodology.

Source: Institute for Medical Research and Occupational Health

19.18 Categorisation of areas near measuring stations in Zagreb in 2018¹⁾

Pollution	Pollution category	Measuring station					
		Đorđićeva Street	Ksaverska Road	Peščenica	"Barun Filipović" Alley	Siget	Susedgrad
SO ₂	I. Category C > LV		•				
	II. Category C > GV						
NO ₂	I. Category C > GV	•	•	•			
	II. Category C > GV				•	•	•
O ₃	I. Category C > GV	•					
	II. Category C > GV		•	•			
CO	I. Category C > GV		•				
	II. Category C > GV						
Benzen	I. Category C > GV		•				
	II. Category C > GV						
PM ₁₀	I. Category C > GV		•				
	II. Category C > GV	•		•	•	•	•
Pb in PM ₁₀	I. Category C > GV	•	•			•	•
	II. Category C > GV						
Cd in PM ₁₀	I. Category C > GV	•	•			•	•
	II. Category C > GV						
As in PM ₁₀	I. Category C > GV	•	•			•	•
	II. Category C > GV						
Ni in PM ₁₀	I. Category C > GV	•	•			•	•
	II. Category C > GV						
BaP PM ₁₀	I. Category C > GV						
	II. Category C > GV		•			•	
PM _{2.5}	I. Category C > GV		•			•	•
	II. Category C > GV						
Total suspended particle matter	I. Category C > GV	•	•	•	•	•	•
	II. Category C > GV						

19.18 Categorisation of areas near measuring stations in Zagreb in 2018¹⁾

(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 > GV	.	.	.	.	.	.
	II. Category C > GV						
Cd in total suspended particle matter	I. Category C > GV	.	.	.	.	.	.
	II. Category C > GV						
Tl in total suspended particle matter	I. Category C > GV	.	.	.	.	.	.
	II. Category C > GV						
Ni in total suspended particle matter	I. Category C > GV	.	.	.	.	.	.
	II. Category C > GV						
As in total suspended particle matter	I. Category C > GV	.	.	.	.	.	.
	II. Category C > GV						

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
	$L_{\text{day}, T=12 \text{ h}} / \text{dB (A)}$	$L_{\text{evening}, T=4 \text{ h}} / \text{dB (A)}$	$L_{\text{night}, T=8 \text{ h}} / \text{dB (A)}$	$L_{\text{den}} / \text{dB (A)}$
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	
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
2017	137 476	3 120	132 174	2 182
2018	90 175	3 174	84 828	2 173

Source: CBS

19.21 Water use in industry

Thousands of m³

	Total	For technological processes			For sanitation	For other purposes
		Total	For production	For cooling		
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
2017	137 889	137 128	4 016	133 112	463	298
2018	91 579	90 773	4 127	86 646	472	334

Source: CBS

19.22 Discharged and treated industrial waters

Thousands of m³

	Discharged waters			Treated waters		
	Total	Into public sewerage	Into the ground, watercourses, and reservoirs	Total	Primary treatment	Secondary treatment
2014	58 266	2 877	55 389	1 667	61	1 606
2015	48 059	3 103	44 956	1 409	832	577
2016	66 024	2 770	63 254	1 382	824	558
2017	134 223	2 024	132 199	2 037	861	1 176
2018	86 715	1 869	84 846	1 764	597	1 167

Source: CBS

19.23 Sewage

Thousands of m³

	Total	Sewage			Sewage treatment level	
		From households	From economy	Other waste water	Primary treatment	Secondary treatment
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
2018	163 337	37 374	13 131	112 832	127 932	127 932

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

19.24 Registered hazardous industrial waste by NCA 2007 sections

Tonnes

	2015	2016	2017	2018
Total	11 776	12 318	10 696	11 139
A Agriculture, forestry, and fishing	2	2	1	1
B Mining and quarrying	2	70	2	1
C Manufacturing	2 966 ¹⁾	3 324	3 208	3 776
D Electricity, gas, steam, and air conditioning supply	854	2 657	1 964	401
E Water supply; sewerage, waste management, and remediation activities	187	221	223	596
F Construction	198	198	320	334
G Wholesale and retail trade; repair of motor vehicles and motorcycles	4 726 ¹⁾	2 343	1 905	2 178
H Transportation and storage	450	871	349	635
I Accommodation and food service activities	24	29	11	11
J Information and communication	163	96	240	143
K Financial and insurance activities	74	66	74	70
L Real estate activities	87	89	102	89
M Professional, scientific, and technical activities	95	79	60	89
N Administrative and support service activities	57	15	19	25
O Public administration and defence; compulsory social security	80	60	16	120
P Education	22	27	37	38
Q Health and social work activities	1 735	1 950	1 840	2 118
R Arts, entertainment, and recreation	5	36	21	16
S Other service activities	49	185	304	498

¹⁾ The quantities of proprietary waste / retail or retail trade are shown in Table 19.26.

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

19.25 Registered non-hazardous industrial waste by NCA 2007 sections

		Tonnes			
		2015	2016	2017	2018
Total		373 770	444 468	433 909	453 805
A	Agriculture, forestry, and fishing	43	88	187	290
B	Mining and quarrying	-	-	-	-
C	Manufacturing	43 815	40 845	44 188	46 274
D	Electricity, gas, steam, and air conditioning supply	567	315	442	250
E	Water supply; sewerage, waste management, and remediation activities	119 955 ¹⁾	154 355	183 444	228 123
F	Construction	123 729	142 910	101 034	66 208
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	23 457 ¹⁾	25 359	21 921	20 961
H	Transportation and storage	2 839	2 291	4 108	3 336
I	Accommodation and food service activities	680	957	1 396	1 341
J	Information and communication	2 924	2 715	2 814	1 140
K	Financial and insurance activities	467	590	510	533
L	Real estate activities	2 682	2 758	3 396	3 711
M	Professional, scientific, and technical activities	49 188	51 415	50 211	50 566
N	Administrative and support service activities	729	16 158	16 668	27 358
O	Public administration and defence; compulsory social security	188	645	528	260
P	Education	-	-	25	-
Q	Health and social work activities	1 904	2 038	2 241	2 196
R	Arts, entertainment, and recreation	151	410	236	262
S	Other services	452	619	560	996

¹⁾ The quantities of proprietary waste / retail or retail trade are shown in Table 19.26.

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

19.26 Municipal waste

Tonnes								
	Collected municipal waste			For disposal ¹⁾ on landfills	Handed over ¹⁾ directly for composting	Handed over ¹⁾ for recovery	Export	Temporarily stored waste as of 31 December
	Total	of which in recycling stations						
		Stationary	Mobile					
2014	-	-	-	-	-	-	-	9 165
2015	279 338	-	-	215 380	11 925	46 270 ²⁾	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	-
2018	341 605	13 727	2 632	216 631	17 411	102 261	5 120	

¹⁾ See Notes on Methodology.

²⁾ Of which 3 445 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 ¹⁾		Recovered ¹⁾		Export ¹⁾	
	2017	2018	2017	2018	2017	2018	2017	2018
Mixed municipal waste	217 381	216 631	217 381	216 631	-	-	-	-
Construction waste and demolition waste	132 771	99 737	8	951	126 602	96 840	4 586	1 097
Biodegradable waste	28 468	18 540	-	-	28 467	17 411	-	-
Bulky waste	16 221	17 042	-	-	16 221	17 042	-	-

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

In 2018, a total of 16 988 students obtained academic qualifications, representing a 2.5% growth in comparison to 2017.

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 day-care centres which carry out the activity of pre-school education in their capacity as public institutions. Local branches are dislocated branches of day-care centres which include one or more groups, and are established by day-care centres according to needs. Day-care centres can be established by the Republic of Croatia and by local self-government units (**state day-care centres**), religious communities (**religious community day-care centres**) and other national legal entities and natural persons (**private day-care centres**).

Apart from day-care centres, pre-school education programmes are implemented by **other legal entities**, i.e. primary schools, health care / social institutions for children with developmental difficulties, in library playrooms, by sport/cultural facilities and in associations as shorter programmes.

Pre-school education in day-care centres is offered to children aged between six months and up to the beginning primary school education.

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, children by age groups and employees

Start of the kindergarten year

	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019
Total	292	295	341	335	330
Day-care centres	279	281	309	308	305
Other legal entities ¹⁾	13	14	32	27	25
By founder					
Republic of Croatia	-	-	-	-	17
City of Zagreb	-	-	-	-	221
Private	47	50	88	82	76
Religious communities	14	14	15	16	16
Children – total	39 761	39 549	43 684	40 573	39 953
By age					
Up to 3 years	9 862	9 675	10 104	9 868	9 735
From 3 to 5	15 371	15 684	16 408	15 269	14 873
From 5 to 7 and older than 7 years	14 528	14 190	17 172	15 436	15 345
Employees – total	6 088	6 065	6 653	6 774	6 772
Of which:					
Educators and teachers	3 574	3 656	4 039	4 120	4 086
Healthcare personnel	196	183	183	179	182
Other personnel	2 318	2 226	2 431	2 475	2 504

¹⁾ See Notes on Methodology.

Source: CBS

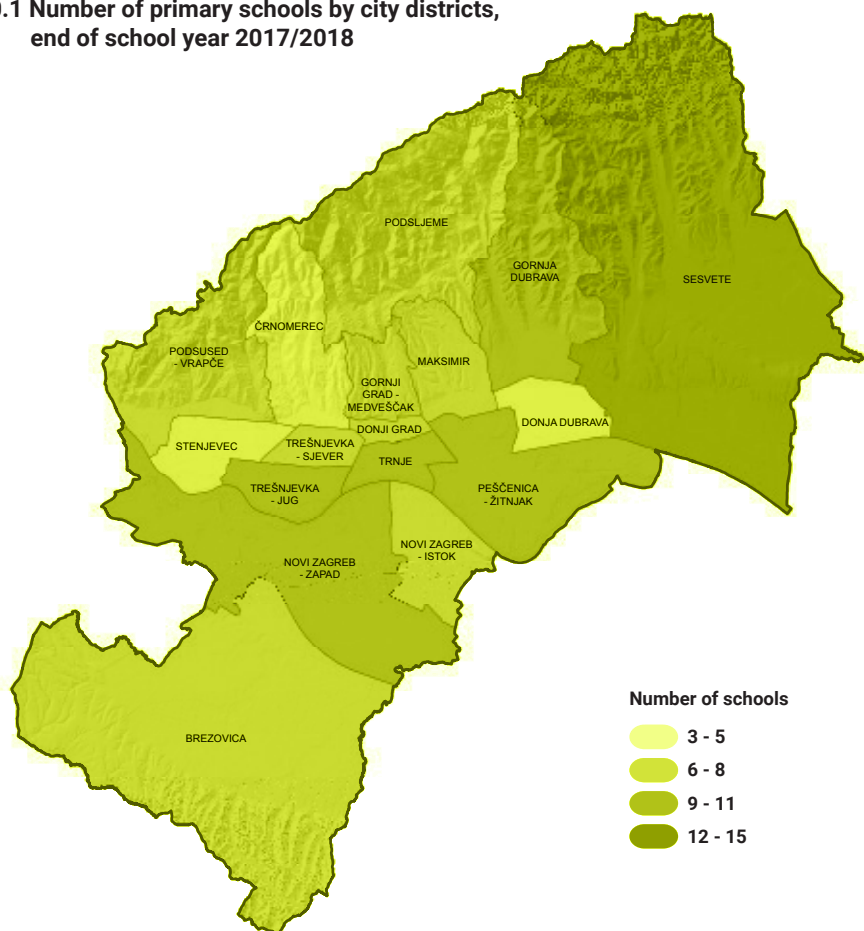
20.2 Day-care centres and other legal entities carrying out pre-school education programmes, beginning of 2018/2019 school year

	Total	Day-care centres				Other legal entities			
		Total	Independent	With local branches	Local branches	Total	Primary schools	Library playrooms	Other institutions and associations
Day-care centres and legal entities¹⁾ - total	330	305	41	79	185	25	5	2	18
By founder									
Republic of Croatia	17	14	1	3	10	3	-	-	3
City of Zagreb	221	212	1	57	154	9	4	2	3
Private	76	63	33	13	17	13	1	-	12
Religious communities	16	16	6	6	4	-	-	-	-

¹⁾ See Notes on Methodology.

Source: CBS

K 20.1 Number of primary schools by city districts, end of school year 2017/2018



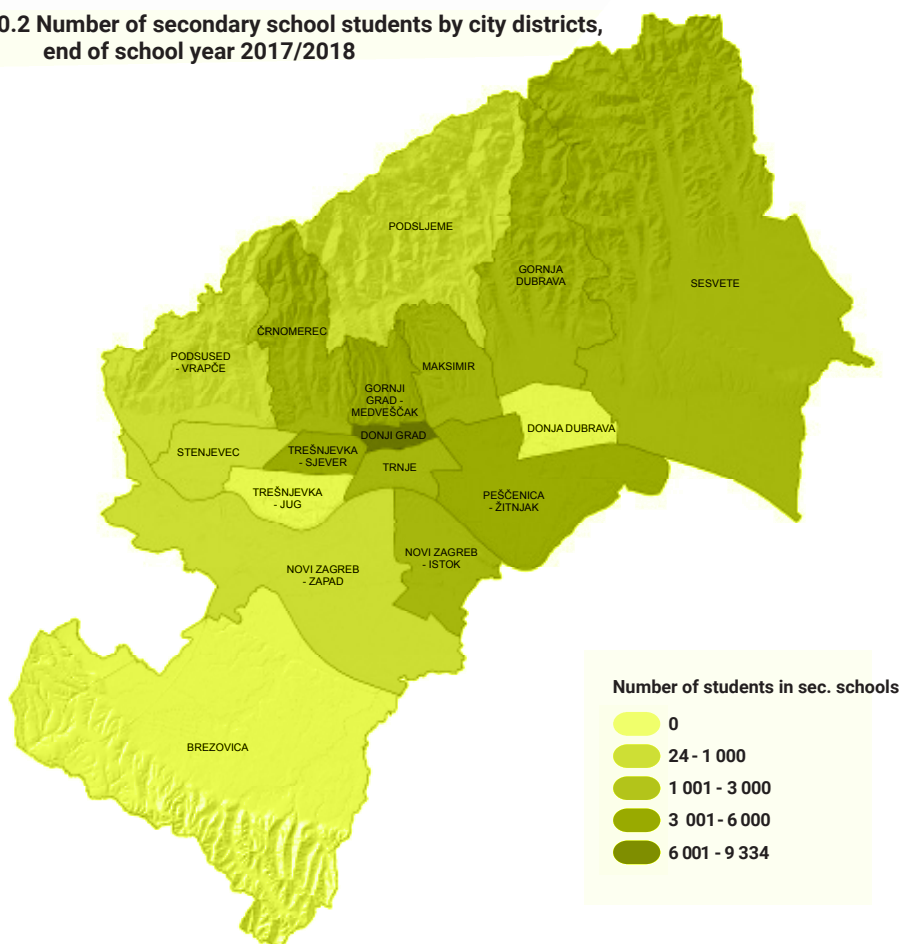
20.3 Children by the type of pre-school education programme and sex, beginning of 2018/2019 school year

	Programmes - total		Regular programmes		Pre-school programme ¹⁾		Shorter programmes	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls
Day-care centres and other legal entities²⁾ - total	39 953	19 407	35 585	17 051	1 243	552	3 125	1 804
By founder								
Republic of Croatia	2 263	1 069	1 764	874	87	35	412	160
City of Zagreb	31 525	15 095	29 587	14 152	1 020	447	918	496
Private	5 185	2 797	3 260	1 582	130	67	1 795	1 148
Religious communities	980	446	974	443	6	3	-	-

¹⁾ Data is related to the pre-school education programme carried out during 2017/2018 school year.

²⁾ See Notes on Methodology.

K 20.2 Number of secondary school students by city districts, end of school year 2017/2018



20.4 Day-care centres and other legal entities shortened programmes, beginning of 2018/2019 school year

	Total	Children taking part in shortened pre-school education programmes ¹⁾					
		Total	Music programmes	Dance programmes ²⁾	Foreign languages	Sport programmes	Other
Day-care centres and other legal entities³⁾ - total	330	3 125	81	640	470	1 138	796
By founder							
Republic of Croatia	17	412	-	-	-	412	-
City of Zagreb	221	918	81	79	25	4	729
Private	76	1 795	-	561	445	722	67
Religious communities	16	-	-	-	-	-	-

¹⁾ Children taking part in several programmes are shown under every programme.

²⁾ Dance programmes include rhythmic, dance, ballet, folklore.

³⁾ See Notes on Methodology.

Source: CBS

20.5 Children by day-care education duration in hours and by sex, beginning of 2018/2019 pedagogic year

	Children		Day-care education duration					
			less than 5 hours		from 5 to 8 hours		8 hours and longer	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls
Day-care centres and other legal entities¹⁾ - total	39 953	19 407	4 672	2 404	3 006	1 383	32 275	15 620
By founder								
Republic of Croatia	2 263	1 069	517	202	7	3	1 739	864
City of Zagreb	31 525	15 095	2 327	1 085	2 495	1 091	26 703	12 919
Private	5 185	2 797	1 821	1 114	285	196	3 079	1 487
Religious communities	980	446	7	3	219	93	754	350

¹⁾ See Notes on Methodology.

Source: CBS

20.6 Primary education – regular schools

End of school year

	Schools	Students		Teachers
		Total	Female students	
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
2017/2018	131	58 960	28 805	5 255

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

20.7 Secondary education – regular schools

End of school year

	Schools	Students		Teachers
		Total	Female students	
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
2017/2018	105	34 500	17 526	4 635

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

20.8 Students who acquired academic degrees

Academic year

	Higher education institutions	Students			
		Total	University degree	Master's degrees	Doctors of Science
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
2018	55	16 988	16 282	277	429

Source: CBS

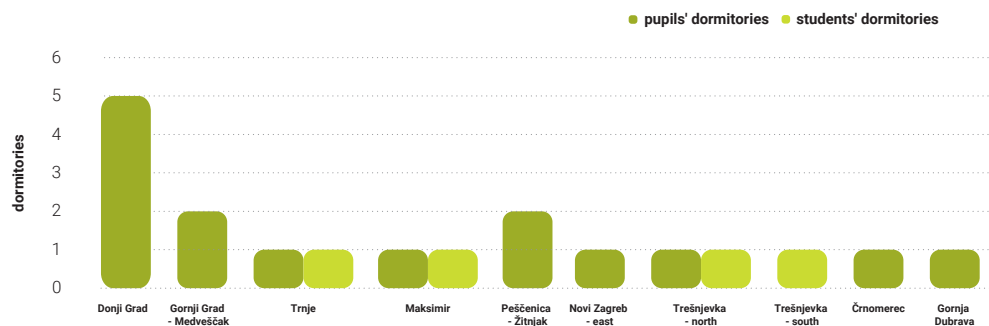
20.9 Student dormitories

School/academic year

	Accommodation for secondary school students			Accommodation for college students		
	Total	Students		Total	Students	
		Total	Female		Total	Female
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
2018	15	2 352	1 420	4	7 392	4 579

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

G 20.1 Number of pupils' and students' dormitories by city districts, in 2018/2019 school/academic year



20.10 Primary education

End of school year

	Schools	Classes	Students		Teachers	
			Total	Female students	Total	Women
PRIMARY SCHOOLS – TOTAL						
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
2017/2018	144	2 839	59 480	28 958	5 507	4 731

20.10 Primary education

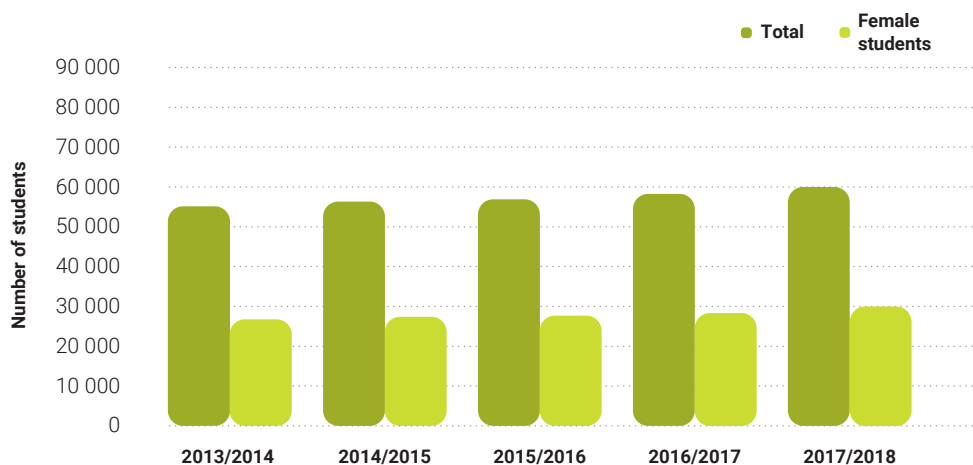
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End of school year

	Schools	Classes	Students		Teachers	
			Total	Female students	Total	Women
Primary schools – regular						
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
2017/2018	131	2 753	58 960	28 805	5 255	4 517
Primary schools for children and young people with developmental difficulties						
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
2017/2018	13	86	520	153	252	214
SPECIALISED PRIMARY EDUCATION						
Primary art schools						
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
2017/2018	23	-	4 380	2 762	594	406
Primary education for adults						
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
2017/2018	2	15	76	32	20	11

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

G 20.2 Primary education by sex, end of school year



20.11 Secondary education

End of academic year

	Schools	Class Departments	Students		Teachers	
			Total	Female students	Total	Women
SECONDARY SCHOOLS – TOTAL						
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
2017/2018	110	1 628	35 009	17 744	4 753	3 375
Secondary schools – regular						
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
2017/2018	105	1 546	34 500	17 526	4 635	3 279
Grammar schools						
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
2017/2018	38	581	14 267	8 485	1 460	1 136
Technical and related schools						
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
2017/2018	36	653	14 831	6 677	1 894	1 316
Industrial and crafts schools						
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
2017/2018	16	202	3 980	1 334	671	402
Secondary art schools – total						
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
2017/2018	15	110	1 422	1 030	610	425
Music schools						
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
2017/2018	10	59	626	379	393	267

20.11 Secondary education

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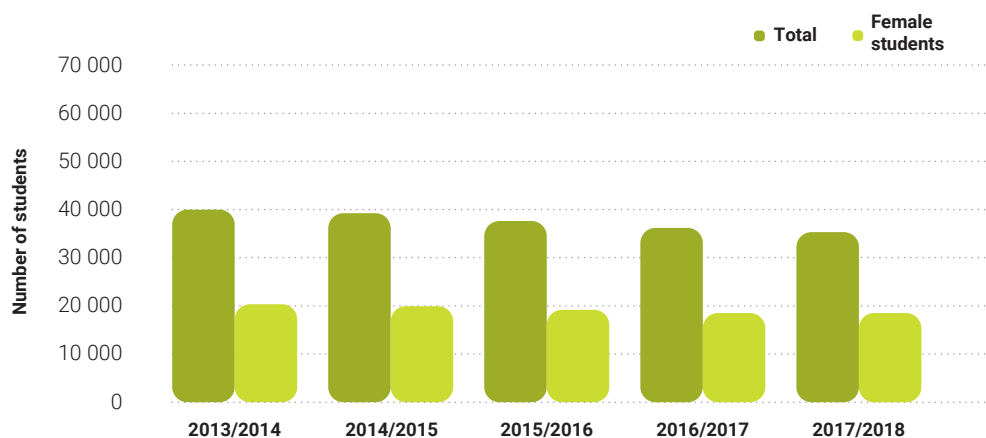
End of academic year

	Schools	Class Departments	Students		Teachers	
			Total	Female students	Total	Women
Dance schools						
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
2017/2018	3	26	171	154	102	73
Visual arts and design						
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
2017/2018	2	25	625	497	115	85
Secondary schools for young people with developmental disabilities						
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
2017/2018	5	82	509	218	118	96
SECONDARY EDUCATION FOR ADULTS ¹⁾						
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
2017/2018	10	122	1 592	821	263	152

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 20.3 Secondary education by sex, end of school year



20.12 Students who completed education by type of school

	End of school year				
	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018
Regular schools					
Primary schools	6 965	6 928	6 538	6 417	6 680
Secondary schools	9 157	9 884	9 668	9 370	8 959
Grammar schools	3 881	4 002	3 872	3 753	3 641
Technical schools	3 521	4 195	4 143	3 983	3 632
Industrial and crafts schools	1 448	1 370	1 331	1 326	1 368
Art schools					
Music schools	110	108	120	100	100
Dance schools	31	31	24	38	41
Visual arts and design	166	178	178	170	177
Schools for children and young people with developmental difficulties					
Primary schools	78	82	75	58	65
Secondary schools	175	151	167	155	141
Adult education schools					
Primary schools	80	37	31	67	42
Secondary schools	520	636	725	502	567
Schools for specialised primary education					
Primary music and dance schools	730	570	592	603	577

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

20.13 Students who completed grammar school

	End of school year									
	2013/2014		2014/2015		2015/2016		2016/2017		2017/2018	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	3 881	2 249	4 002	2 333	3 872	2 320	3 753	2 166	3 641	2 140
Grammar school	2 448	1 507	2 482	1 579	2 267	1 408	2 193	1 344	2 104	1 327
Science and mathematics programme grammar school	655	297	747	293	717	331	660	253	625	257
Language grammar school	325	195	313	232	405	303	427	317	396	294
Classical grammar school	316	170	291	157	293	167	263	131	283	149
International Baccalaureate Diploma Programme (IBDP)	29	19	32	13	52	31	51	29	59	21
Art programme grammar school	20	11	18	10	17	12	24	14	25	17
Science programme grammar school	88	50	119	49	111	65	78	55	99	56
Vocational grammar school	-	-	-	-	10	3	57	23	50	19

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

20.14 Students who completed technical and related secondary schools

	End of school year									
	2013/2014		2014/2015		2015/2016		2016/2017		2017/2018	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	3 521	1 525	4 195	1 974	4 143	1 947	3 983	1 884	3 632	1 670
Engineering	231	11	286	28	278	18	208	14	212	7
Electrical engineering	852	27	887	47	963	54	913	31	835	28
Geology, mining, and oil	19	13	30	8	31	12	28	13	28	8
Economics and trade	811	504	943	593	780	504	840	548	743	482
Hospitality and tourism	229	145	265	179	244	151	251	141	203	147
Agriculture	66	38	85	29	83	52	76	54	76	48
Nutrition	85	69	75	65	128	105	108	93	89	72
Veterinary medicine	92	62	116	95	101	70	98	71	95	71
Forestry	42	8	51	13	56	18	55	16	45	13
Wood processing	21	4	25	9	31	18	21	3	46	12
Construction and geodesy	194	60	183	53	199	80	205	66	193	73
Road traffic	88	17	95	12	88	20	92	28	77	21
Marine, river, and port traffic	20	5	25	6	24	10	20	7	25	6
Posts and telecommunications	44	39	54	48	47	40	43	37	39	32
Railway traffic	77	33	64	14	84	22	62	22	70	17
Chemical technology	58	32	61	35	57	32	53	39	25	8
Graphics	112	60	144	78	115	63	137	84	122	53
Textile	26	25	31	31	40	39	25	23	40	35
Health care	373	328	695	585	706	588	673	557	592	494
Optics and glass processing	27	15	29	17	30	22	24	13	28	17
Inter-vocational programmes ¹⁾	54	30	51	29	58	29	51	24	49	26

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

20.15 Students who completed industrial and craft secondary schools

	End of school year									
	2013/2014		2014/2015		2015/2016		2016/2017		2017/2018	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Total	1 448	568	1 370	527	1 331	510	1 326	495	1 368	486
Engineering	287	11	326	20	310	17	312	16	346	14
Electrical engineering	70	-	86	-	89	-	95	1	113	1
Economics and trade	109	63	66	42	138	102	128	85	110	76
Hospitality and tourism	219	67	175	61	161	63	172	75	160	75
Agriculture	47	36	52	32	48	28	43	32	43	33
Nutrition	73	44	66	42	44	15	41	28	25	4
Wood processing	59	4	52	13	50	-	38	-	48	1
Construction and geodesy	45	-	57	7	65	2	75	-	79	3
Road traffic	114	8	97	3	84	7	91	2	99	5
Railway traffic	26	9	19	5	17	5	23	7	23	14
Graphics	26	8	24	13	-	-	20	7	23	9
Textile	43	43	56	55	51	51	42	42	37	37
Leather processing	16	12	16	13	19	19	18	15	17	14

20.15 Students who completed industrial and craft secondary schools

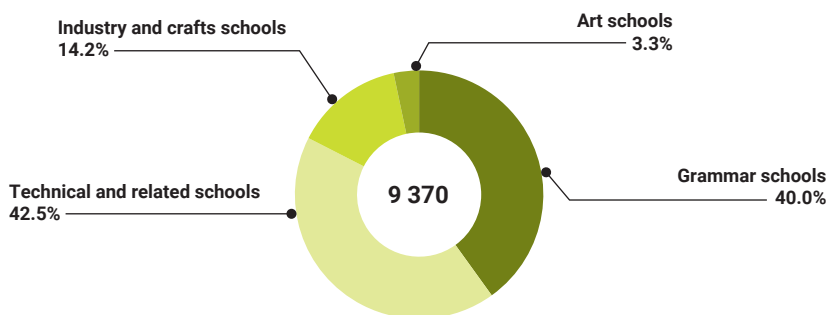
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End of school year

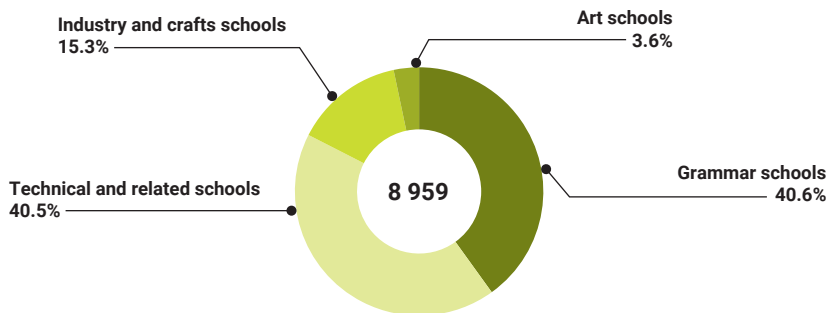
	2013/2014		2014/2015		2015/2016		2016/2017		2017/2018	
	Total	Female	Total	Female	Total	Female	Total	Female	Total	Female
Personal services (beauticians)	231	231	191	190	185	179	172	167	173	171
Other services	81	31	76	25	65	20	49	14	60	25
Optics and glass processing	2	1	11	6	5	2	7	4	12	4

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

G 20.4 Students who completed regular secondary school by type of school in 2016/2017



G 20.5 Students who completed regular secondary school by type of school in 2017/2018



20.16 Students enrolled in primary and secondary schools and higher education institutions by level of education

	Start of school/academic year				
	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019
Pre-school education					
Kindergartens	292	295	341	335	330
Children	39 761	39 549	43 684	40 573	39 953
Educators and teachers	3 574	3 656	4 039	4 120	4 086
Primary education					
Schools	142	144	144	144	144
Students	55 557	57 108	58 447	59 756	60 563
Teachers	5 028	5 216	5 303	5 452	5 644
Secondary education					
Schools	111	110	107	108	109
Students	39 717	38 162	36 775	35 601	34 640
Teachers	4 613	4 547	4 565	4 630	4 791
Higher Education					
Colleges and faculties	58	58	58	57	55
Students	71 447	71 902	73 494	73 873	74 968
Teachers and associates in teaching ¹⁾	8 136	8 189	8 280	8 500	8 516

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

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

	Academic year					
	2016/2017		2017/2018		2018/2019	
	Total	Female students	Total	Female students	Total	Female students
Higher education institutions	73 903*	42 044*	73 873	42 255	74 968	43 071
Faculties	59 465*	35 896*	59 782	36 093	59 432	35 968
Professional studies	4 949*	3 068*	5 177	3 158	5 207	3 120
Faculty of Forestry ¹⁾	61	20	66	23	39	13
Faculty of Economics	1 498	1 013	1 599	1 080	1 692	1 124
Faculty of Law – Study Centre for Public Administration and Public Finances	1 571	1 319	1 509	1 282	1 357	1 158
Faculty of Kinesiology	926	234	1 066	290	1 130	292
Libertas International University	809	429	881	447	943	504
Catholic Faculty of Theology	84	53	56	36	46	29
University studies	54 516	32 828	54 605	32 935	54 225	32 848
Faculty of Science	4 135	2 543	4 205	2 524	4 045	2 375
Faculty of Architecture	966	605	990	633	994	652
Faculty of Civil Engineering	1 213	541	1 251	579	1 265	587
Faculty of Graphic Arts	620	334	568	301	581	325
Faculty of Geodesy	513	222	500	215	526	228

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

(Continued)

Academic year

	2016/2017		2017/2018		2018/2019	
	Total	Female students	Total	Female students	Total	Female students
Faculty of Mechanical Engineering and Naval Architecture	2 143	344	2 237	384	2 304	452
Faculty of Transport and Traffic Sciences	2 093	443	2 010	439	1 755	401
Faculty of Electrical Engineering and Computing	3 259	638	3 348	683	3 417	758
Faculty of Mining, Geology and Petroleum Engineering	822	231	792	246	758	242
Faculty of Chemical Engineering and Technology	1 096	807	1 065	776	1 113	809
Faculty of Textile Technology	1 058	906	857	746	740	646
School of Medicine	2 322	1 434	2 370	1 467	2 373	1 480
School of Dental Medicine	648	523	645	514	634	505
Faculty of Pharmacy and Biochemistry	933	743	963	776	989	795
Faculty of Veterinary Medicine	858	649	882	683	934	738
Faculty of Food Technology and Biotechnology	971	840	1 073	922	1 100	946
Faculty of Agriculture	2 429	1 575	2 334	1 517	2 142	1 413
Faculty of Forestry	1 042	401	888	381	736	308
Faculty of Economics and Business	6 488	4 065	6 354	3 907	6 427	3 960
Faculty of Law	5 672	4 207	5 484	4 045	5 212	3 884
Faculty of Political Science	1 462	1 014	1 445	1 000	1 370	940
Faculty of Humanities and Social Sciences	6 458	4 796	6 511	4 865	6 428	4 782
Catholic University of Croatia	851	675	1 095	861	1 176	938
University Department of Croatian Studies	1 317	989	1 248	927	1 222	912
Faculty of Teacher Education	1 484	1 428	1 574	1 513	1 591	1 536
Faculty of Education and Rehabilitation Sciences	775	738	820	786	819	786
Faculty of Kinesiology	1 265	371	1 256	370	1 310	388
Catholic Faculty of Theology	606	271	511	225	462	194
Institute of Philosophy and Theology of the Society of Jesus	113	22	83	9	103	8
Faculty of Philosophy of the Society of Jesus ²⁾	274	206	251	179	231	157
University of Zagreb – Military Studies	269	65	354	94	493	126
Libertas International University	361	202	641	368	923	542
Matija Vlačić Ilirik Faculty of Theology ³⁾	-	-	-	-	52	35
Art Academies	1 293*	760*	1 260	716	1 266	729
Music Academy	540	303	534	278	538	282
Academy of Fine Arts	405	274	389	264	393	272
Academy of Dramatic Art	348*	183*	337	174	335	175

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

(Continued)

Academic year

	2016/2017		2017/2018		2018/2019	
	Total	Female students	Total	Female students	Total	Female students
Polytechnics	8 378	3 484	8 417	3 685	9 834	4 633
Zagreb University of Applied Sciences	3 818	457	3 647	468	3 895	547
University of Applied Sciences VERN	1 707	829	1 671	829	1 468	710
University of Applied Health Sciences	2 853	2 198	3 099	2 388	4 077	3 144
Zagreb School of Business ⁴⁾	-	-	-	-	394	232
Post-secondary education institutions	4 767	1 904	4 414	1 761	4 436	1 741
College of Occupational Safety and Health	324	72	139	27	-	-
College for Information Technologies	551	68	392	42	543	61
Zagreb School of Economics and Management	685	311	569	255	766	367
Post-secondary Police School	487	144	501	147	514	172
Zagreb School of Business	376	216	410	245	-	-
Agora School of Market Communication ⁵⁾	44	24	37	21	-	-
RRIF College of Financial Management	211	150	158	114	147	108
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	254	123	232	109	245	118
Effectus – University College for Law and Finance	596	367	580	350	580	367
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	67	40	64	43	-	-
Edward Bernays College of Communication Management	292	192	253	159	347	228
Algebra University College	737	118	946	173	1 161	247
University College of International Relations and Diplomacy Dag Hammarskjöld	142	78	133	76	133	73
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.

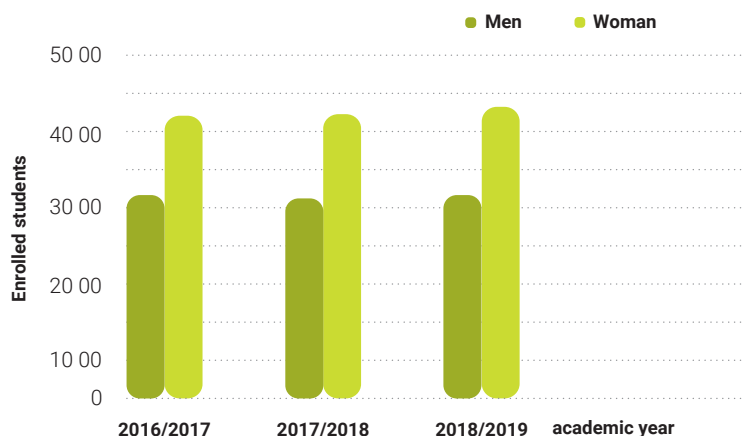
³⁾ In the 2018/2019 academic year, the Matija Vlačić Ilirik Faculty of Theology is listed among faculties.

⁴⁾ Up to the 2017/2018 academic year, Zagreb Higher School of Business.

⁵⁾ Since the 2018/2019 academic year part of the Algebra University College.

Source: CBS

G 20.6 Students enrolled in higher education institutions by sex



20.18 Students enrolled in higher education institutions by years of study in 2018/2019

Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Higher education institutions	74 968	43 071	58 744	34 001	28 394	23 315	16 298	4 048	2 297	616
Faculties	59 432	35 968	50 218	30 170	23 080	18 203	11 770	3 654	2 109	616
Professional studies	5 207	3 120	2 008	1 303	1 836	1 705	1 666	-	-	-
Faculty of Forestry	39	13	39	13	28	6	5	-	-	-
Faculty of Economics	1 692	1 124	663	468	582	616	494	-	-	-
Faculty of Law – Study Centre for Public Administration and Public Finances	1 357	1 158	544	464	570	447	340	-	-	-
Faculty of Kinesiology	1 130	292	187	59	226	330	574	-	-	-
Libertas International University	943	504	558	286	430	306	207	-	-	-
Catholic Faculty of Theology	46	29	17	13	-	-	46	-	-	-
University studies	54 225	32 848	48 210	28 867	21 244	16 498	10 104	3 654	2 109	616
Faculty of Science	4 045	2 375	4 039	2 370	1 530	1 478	765	122	150	-
Faculty of Architecture	994	652	994	652	422	379	193	-	-	-
Faculty of Civil Engineering	1 265	587	1 265	587	603	490	172	-	-	-
Faculty of Graphic Arts	581	325	581	325	261	195	125	-	-	-
Faculty of Geodesy	526	228	526	228	211	204	111	-	-	-
Faculty of Mechanical Engineering and Naval Architecture	2 304	452	2 294	448	1 081	823	284	116	-	-
Faculty of Transport and Traffic Sciences	1 755	401	1 179	292	799	571	385	-	-	-
Faculty of Electrical Engineering and Computing	3 417	758	3 417	758	1 519	1 261	637	-	-	-

20.18 Students enrolled in higher education institutions by years of study in 2018/2019

(Continued)

Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Faculty of Mining, Geology and Petroleum Engineering	758	242	758	242	312	311	135	-	-	-
Faculty of Chemical Engineering and Technology	1 113	809	1 113	809	589	389	135	-	-	-
Faculty of Textile Technology	740	646	740	646	224	316	200	-	-	-
School of Medicine	2 373	1 480	2 319	1 431	457	497	389	349	335	346
School of Dental Medicine	634	505	634	505	131	104	93	94	110	102
Faculty of Pharmacy and Biochemistry	989	795	989	795	221	175	168	177	248	-
Faculty of Veterinary Medicine	934	738	934	738	215	153	156	116	126	168
Faculty of Food Technology and Biotechnology	1 100	946	1 082	929	426	439	235	-	-	-
Faculty of Agriculture	2 142	1 413	2 142	1 413	994	826	322	-	-	-
Faculty of Forestry	736	308	736	308	356	277	103	-	-	-
Faculty of Economics	6 427	3 960	4 538	2 840	3 624	942	863	998	-	-
Faculty of Law	5 212	3 884	2 926	2 165	1 854	691	1 160	1 020	487	-
Faculty of Political Science	1 370	940	1 362	936	622	390	238	120	-	-
Faculty of Humanities and Social Sciences	6 428	4 782	6 273	4 645	1 859	2 773	1 585	194	17	-
Catholic University of Croatia	1 176	938	916	702	450	493	233	-	-	-
University Department of Croatian Studies	1 222	912	1 222	912	464	502	256	-	-	-
Faculty of Teacher Education	1 591	1 536	1 231	1 181	472	532	246	144	197	-
Faculty of Education and Rehabilitation	819	786	819	786	302	365	152	-	-	-
Faculty of Kinesiology	1 310	388	1 310	388	351	255	246	153	305	-
Catholic Faculty of Theology	462	194	462	194	119	98	107	35	103	-
Institute of Philosophy and Theology of the Society of Jesus	103	8	102	7	16	17	23	16	31	-
Faculty of Philosophy of the Society of Jesus	231	157	224	153	87	87	57	-	-	-
University of Zagreb – Military Studies	493	126	493	126	198	128	167	-	-	-
Libertas International University	923	542	550	327	450	323	150	-	-	-
Matija Vlačić Ilirik Faculty of Theology	52	35	40	29	25	14	13	-	-	-
Art Academies	1 266	729	1 266	729	339	340	257	142	188	-
Music Academy	538	282	538	282	91	81	94	95	177	-
Academy of Fine Arts	393	272	393	272	137	122	76	47	11	-
Academy of Dramatic Art	335	175	335	175	111	137	87	-	-	-

20.18 Students enrolled in higher education institutions by years of study in 2018/2019

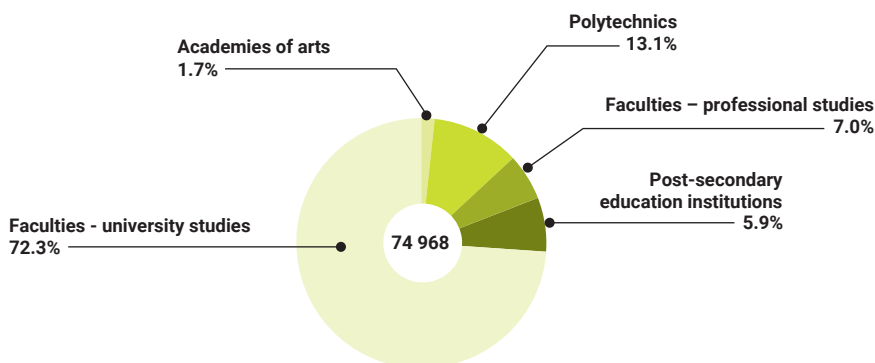
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Start of academic year

	Students		Regular		Students per study year					
	Total	Female	Total	Female	I	II	III	IV	V	VI
Polytechnics	9 834	4 633	4 923	2 129	3 423	3 247	3 084	80	-	-
Zagreb University of Applied Sciences	3 895	547	2 185	311	1 548	1 414	933	-	-	-
University of Applied Sciences VERN	1 468	710	1 193	582	459	461	468	80	-	-
University of Applied Health Sciences	4 077	3 144	1 383	1 136	1 285	1 218	1 574	-	-	-
Zagreb School of Business	394	232	162	100	131	154	109	-	-	-
Post-secondary education institutions	4 436	1 741	2 337	973	1 552	1 525	1 187	172	-	-
College for Information Technologies	543	61	156	18	140	153	250	-	-	-
Zagreb School of Economics and Management	766	367	724	352	251	178	165	172	-	-
Post-secondary Police School	514	172	177	66	183	209	122	-	-	-
RRIF College of Financial Management	147	108	36	27	55	61	31	-	-	-
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	245	118	44	21	79	94	72	-	-	-
Effectus – University College for Law and Finance	580	367	204	127	129	219	232	-	-	-
Edward Bernays College of Communication Management	347	228	213	147	145	145	57	-	-	-
Algebra University College	1 161	247	682	157	503	422	236	-	-	-
University College of International Relations and Diplomacy Dag Hammarskjöld	133	73	101	58	67	44	22	-	-	-

Source: CBS

G 20.7 Students enrolled in the academic year 2018/2019 by type of higher education



20.19 Graduates by name of higher education institution and sex

	2016		2017		2018	
	Total	Female students	Total	Female students	Total	Female students
Higher education institutions	16 320*	9 960*	15 779	9 406	16 282	9 841
Faculties	12 695*	8 187*	12 254	7 685	12 699	8 003
Professional studies	970	629	989	598	794	582
Faculty of Forestry ¹⁾	5	2	7	3	3	-
Faculty of Economics	266	192	299	221	288	218
Faculty of Law – Study Centre for Public Administration and Public Finances	179	142	166	140	177	151
Faculty of Kinesiology	103	26	182	38	120	32
Libertas International University	350	211	296	164	175	160
Catholic Faculty of Theology	19	11	11	6	13	7
Faculty of Teacher Education	38	36	11	11	7	7
Faculty of Textile Technology	10	9	17	15	11	7
University studies	11 725*	7 558*	11 265	7 087	11 905	7 421
Faculty of Science	858*	652*	892	592	1 021	668
Faculty of Architecture	266	177	246	162	266	167
Faculty of Civil Engineering	348	147	304	132	316	143
Faculty of Graphic Arts	198	124	163	107	157	85
Faculty of Geodesy	137	59	149	64	129	63
Faculty of Mechanical Engineering and Naval Architecture	436	40	397	59	420	59
Faculty of Transport and Traffic Sciences	399	88	377	102	364	97
Faculty of Electrical Engineering and Computing	797	174	978	194	929	157
Faculty of Mining, Geology and Petroleum Engineering	203	57	193	58	209	66
Faculty of Chemical Engineering and Technology	219	166	243	176	255	194
Faculty of Textile Technology	276	248	282	259	197	174
School of Medicine	366	256	291	187	389	249
School of Dental Medicine	92	74	101	77	112	90
Faculty of Pharmacy and Biochemistry	124	104	81	66	138	107
Faculty of Veterinary Medicine	78	50	83	58	92	72
Faculty of Food Technology and Biotechnology	221	187	265	236	264	225
Faculty of Agriculture	619	427	610	410	624	411
Faculty of Forestry	159	66	216	89	203	80
Faculty of Economics	2 114	1 417	1 488	1 006	1 626	1 055
Faculty of Law	426	333	568	473	537	442

20.19 Graduates by name of higher education institution and sex

(Continued)

	2016		2017		2018	
	Total	Female students	Total	Female students	Total	Female students
Faculty of Political Science	475	350	447	330	421	300
Faculty of Humanities and Social Sciences	1 179	927	1 177	878	1 208	943
Catholic University of Croatia	106	87	153	123	277	226
University Department of Croatian Studies	367	280	370	278	344	270
Faculty of Teacher Education	610	598	494	475	569	548
Faculty of Education and Rehabilitation	306	295	267	255	271	261
Faculty of Kinesiology	135	56	128	56	116	34
Catholic Faculty of Theology	102	53	117	66	112	64
Faculty of Philosophy of the Society of Jesus	19	2	15	4	26	4
Catholic Faculty of Theology – Institute for Theological Culture ²⁾	35	23	63	52	63	52
University of Zagreb - Military study programmes	-	-	-	-	94	21
Libertas International University	55	41	107	63	141	85
Matija Vlačić Ilirik Faculty of Theology ³⁾	-	-	-	-	15	9
Art Academies	295	178	316	192	299	190
Music Academy	69	32	89	55	93	51
Academy of Fine Arts	135	98	136	95	112	83
Academy of Dramatic Art	91	48	91	42	94	56
Polytechnics	1 916	1 067	1 927	1 010	2 198	1 174
Zagreb University of Applied Sciences	577	74	671	85	712	111
University of Applied Sciences VERN	421	229	368	199	407	222
University of Applied Health Sciences	918	764	888	726	964	771
Zagreb School of Business ⁴⁾	-	-	-	-	115	70
Post-secondary education institutions	1 414	528	1 282	519	1 086	474
College of Occupational Safety and Health	444	94	298	62	220	64
College for Information Technologies	45	3	51	7	26	-
Zagreb School of Economics and Management	281	141	278	133	207	98
Post-secondary Police School	184	36	176	46	221	84
Zagreb School of Business	95	57	115	66	-	-

20.19 Graduates by name of higher education institution and sex

(Continued)

	2016		2017		2018	
	Total	Female students	Total	Female students	Total	Female students
Agora School of Market Communication	16	13	22	7	17	12
RRiF College of Financial Management	12	11	26	21	37	28
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	29	18	47	27	72	38
Effectus – University College for Law and Finance	104	61	102	67	121	81
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	21	17	9	5	-	-
Edward Bernays College of Communication Management	42	27	44	36	40	32
Algebra University College	69	6	60	2	80	10
University College of International Relations and Diplomacy Dag Hammarskjöld	72	44	54	40	45	27

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

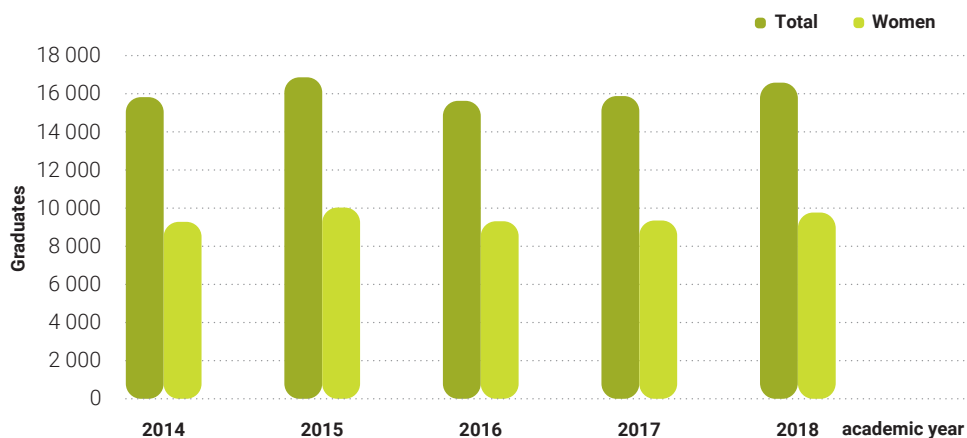
²⁾ In 2017/2018, the Faculty of Philosophy of the Society of Jesus changed its name.

³⁾ In the 2018/2019 academic year, the Matija Vlačić Ilirik Faculty of Theology is listed among faculties.

⁴⁾ Up to the 2017/2018 academic year, Zagreb Higher School of Business.

Source: CBS

G 20.8 Graduates by sex



20.20 Teachers and associates in higher education institutions by title in 2018/2019

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	8 516	1 491	1 020	1 604	181	1 169	89	37	2 125	800
Faculties	5 652	1 232	819	1 291	5	308	83	-	1 341	573
Faculty of Science	495	104	85	96	2	15	-	-	160	33
Faculty of Architecture	148	36	28	23	-	37	-	-	24	-
Faculty of Civil Engineering	124	27	9	36	-	7	-	-	42	3
Faculty of Graphic Arts	67	11	11	17	-	4	-	-	23	1
Faculty of Geodesy	66	13	3	15	-	4	-	-	28	3
Faculty of Mechanical Engineering and Naval Architecture	332	65	33	49	-	14	-	-	143	28
Faculty of Transport and Traffic Sciences	159	26	19	29	-	22	-	-	41	22
Faculty of Electrical Engineering and Computing	383	105	45	72	1	1	-	-	146	13
Faculty of Mining, Geology and Petroleum Engineering	107	26	14	27	-	4	-	-	31	5
Faculty of Chemical Engineering and Technology	131	34	16	13	-	5	-	-	58	5
Faculty of Textile Technology	115	19	19	19	-	14	-	-	36	8
School of Medicine	494	105	101	139	-	3	-	-	145	1
School of Dental Medicine	205	56	54	60	-	1	-	-	32	2
Faculty of Pharmacy and Biochemistry	109	20	25	20	-	1	-	-	43	-
Faculty of Veterinary Medicine	174	61	30	33	-	3	-	-	32	15
Faculty of Food Technology and Biotechnology	168	53	27	46	-	5	-	-	37	-
Faculty of Agriculture	270	68	37	86	-	2	-	-	46	31
Faculty of Forestry	147	49	17	36	-	5	-	-	26	14
Faculty of Economics	250	66	27	88	-	17	-	-	52	-
Faculty of Law	341	64	34	64	1	21	-	-	24	133
Faculty of Political Science	91	17	19	28	-	8	-	-	10	9
Faculty of Humanities and Social Sciences	680	111	81	150	-	20	83	-	109	126
Faculty of Teacher Education	156	18	19	27	-	46	-	-	20	26
Faculty of Education and Rehabilitation	98	26	25	32	-	7	-	-	8	-

20.20 Teachers and associates in higher education institutions by title in 2018/2019

(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	189	24	16	38	1	14	-	-	12	84
Catholic Faculty of Theology	107	21	18	36	-	11	-	-	10	11
Faculty of Philosophy of the Society of Jesus ¹⁾	46	7	7	12	-	17	-	-	3	-
Art Academies	456	113	102	91	1	35	-	37	66	11
Music Academy	182	52	37	35	-	19	-	20	12	7
Academy of Fine Arts	116	26	31	15	-	7	-	13	20	4
Academy of Dramatic Art	158	35	34	41	1	9	-	4	34	-
Polytechnics	1 236	41	28	45	93	440	-	-	504	85
Zagreb University of Applied Sciences	261	10	5	9	26	138	-	-	73	-
University of Applied Sciences VERN	235	8	9	14	20	132	-	-	52	-
University of Applied Health Sciences	694	18	11	19	45	149	-	-	368	84
Zagreb School of Business	46	5	3	3	2	21	-	-	11	1
Post-secondary education	633	32	14	31	75	310	5	-	124	42
College of Occupational Safety and Health	11	-	-	-	3	8	-	-	-	-
College for Information Technologies	69	1	-	-	4	33	-	-	21	10
Zagreb School of Economics and Management	82	-	-	-	24	51	-	-	7	-
Post-secondary Police School	50	7	2	6	10	25	-	-	-	-
RRiF College of Financial Management	29	1	1	1	8	15	-	-	-	3
University College of Economics, Entrepreneurship and Management Nikola Šubić Zrinski	28	2	-	1	1	24	-	-	-	-
Effectus – University College for Law and Finance	70	1	-	3	9	51	-	-	6	-
Faculty of Theology "Matija Vlačić-Ilirik" (evangelical)	31	4	3	7	-	-	-	-	-	17
Edward Bernays College of Communication Management	60	1	2	1	5	27	1	-	22	1

20.20 Teachers and associates in higher education institutions by title in 2018/2019

(Continued)

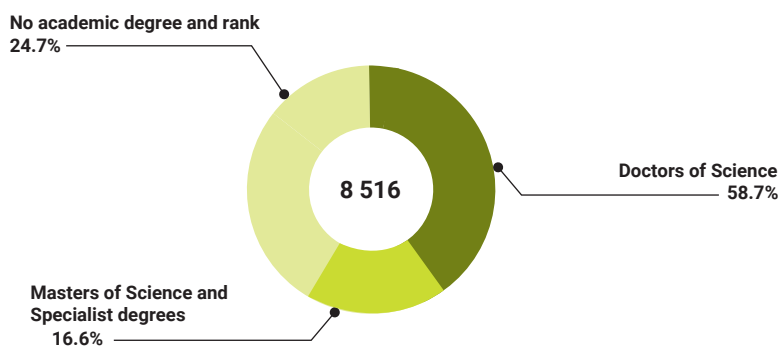
Academic year

	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
Algebra University College	152	3	4	9	6	67	-	-	63	-
University College of International Relations and Diplomacy Dag Hammarskjöld	51	12	2	3	5	9	4	-	5	11
University Departments	160	25	20	53	-	12	1	-	42	7
University Department of Croatian Studies	160	25	20	53	-	12	1	-	42	7
Institutes	24	4	4	7	-	9	-	-	-	-
Institute of Philosophy and Theology of the Society of Jesus	24	4	4	7	-	9	-	-	-	-
University	355	44	33	86	7	55	-	-	48	82
Croatian Catholic University	195	30	26	61	-	17	-	-	43	18
University of Zagreb - Military study programmes	74	1	2	6	-	1	-	-	-	64
Libertas International University	86	13	5	19	7	37	-	-	5	-

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

Source: CBS

G 20.9 Teachers and associates by academic degree and rank in the academic year 2018/2019

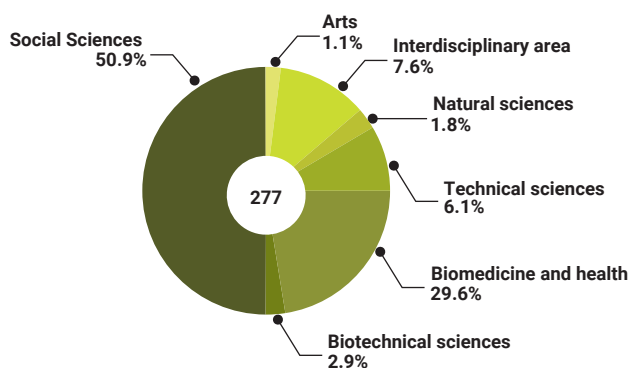


20.21 Masters of Science, Masters and University Specialists at higher education institutions

	2016		2017		2018	
	Total	Women	Total	Women	Total	Women
Total	337	195	318	191	277	179
Faculty of Science	3	3	2	1	5	3
Faculty of Civil Engineering	3	-	4	1	-	-
Faculty of Geodesy	4	4	1	-	-	-
Faculty of Mechanical Engineering and Naval Architecture	3	-	1	-	1	-
Faculty of Transport and Traffic Sciences	-	-	3	-	-	-
Faculty of Electrical Engineering and Computing	25	6	18	6	7	2
Faculty of Chemical Engineering and Technology	-	-	2	1	-	-
School of Medicine	12	8	30	20	26	20
School of Dental Medicine	8	7	7	5	7	5
Faculty of Pharmacy and Biochemistry	32	28	28	21	37	34
Faculty of Veterinary Medicine	23	6	33	8	12	5
Faculty of Food Technology and Biotechnology	1	1	5	4	1	1
Faculty of Agriculture	1	1	9	5	5	2
Faculty of Forestry	-	-	2	1	2	1
Faculty of Economics and Business	99	52	68	41	86	45
Faculty of Law	12	7	19	19	17	15
Faculty of Political Science	54	37	32	21	28	17
Faculty of Humanities and Social Sciences	2	2	10	8	3	3
Faculty of Teacher Education	-	-	-	-	2	2
Faculty of Education and Rehabilitation	5	5	7	7	1	1
Catholic Faculty of Theology	9	1	-	-	-	-
Music Academy	4	2	6	5	3	1
Academy of Fine Arts	2	-	-	-	-	-
Faculty of Chemical Engineering and Technology	35	25	31	17	34	22

Source: CBS

G 20.10 Masters of Science, Masters and University Specialists by scientific field of the thesis for acquiring the Master/Specialist degree in 2018



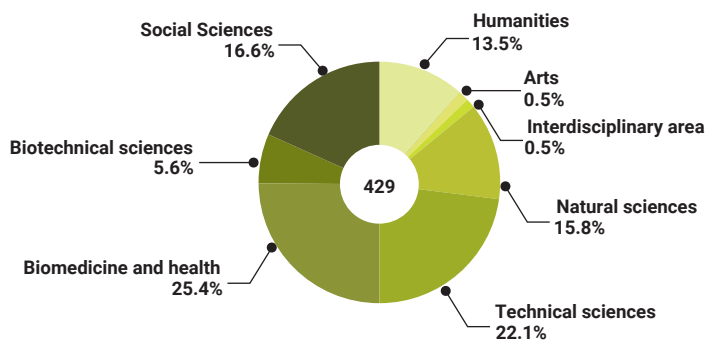
20.22 Doctors of Science at higher education institutions

	2016		2017		2018	
	Total	Women	Total	Women	Total	Women
Total	427	241	482	261	429	229
Faculty of Science	63	40	85	57	61	35
Faculty of Architecture	3	1	2	1	9	6
Faculty of Civil Engineering	5	2	8	3	4	2
Faculty of Graphic Arts	8	5	4	2	6	3
Faculty of Geodesy	4	2	5	3	6	1
Faculty of Mechanical Engineering and Naval Architecture	13	3	9	3	15	4
Faculty of Transport and Traffic Sciences	3	-	10	2	7	-
Faculty of Electrical Engineering and Computing	29	3	43	3	37	5
Faculty of Mining, Geology and Petroleum Engineering	7	4	8	2	5	2
Faculty of Chemical Engineering and Technology	6	3	10	6	13	6
Faculty of Textile Technology	1	1	1	1	-	-
School of Medicine	90	53	68	33	73	48
School of Dental Medicine	12	8	9	3	18	10
Faculty of Pharmacy and Biochemistry	8	7	8	6	11	10
Faculty of Veterinary Medicine	4	2	16	6	7	3
Faculty of Food Technology and Biotechnology	11	9	11	8	8	7
Faculty of Agriculture	16	9	13	9	12	6
Faculty of Forestry	6	2	5	2	4	1
Faculty of Economics and Business	11	7	10	7	6	6
Faculty of Law	16	12	6	3	10	4
Faculty of Political Science	4	2	2	1	8	6
Faculty of Philosophy	64	47	103	75	68	48
Croatian Studies	14	5	4	2	15	6
Faculty of Teacher Education	10	9	8	8	2	1
Faculty of Education and Rehabilitation	-	-	3	-	1	1
Faculty of Kinesiology	7	1	11	5	14	4
Catholic Faculty of Theology	2	-	4	1	4	1
Institute of Philosophy and Theology of the Society of Jesus ¹⁾	2	-	2	1	3	1
Music Academy	-	-	1	1	-	-
Academy of Arts	6	3	5	2	2	2
Centre for Postgraduate Studies of the University of Zagreb	2	1	8	5	-	-

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

Source: CBS

G 20.11 Doctors of Science by the area of science and arts of their doctoral dissertations in 2018



In the 2017/2018 theatre season, 95 theatres were active in the City of Zagreb, and 6 729 shows were performed. There was an average of 187 visitors per show in 2018.

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

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

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.

Museum and museum collection is a non-profit, permanent institution open to public and in service of the society, which collects, keeps, researches, communicates and exhibits material testimonies of the man and its surroundings for the purposes of study, education and pleasure.

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.

Zoo is an enclosed area in which living specimens of various animal species are kept, exhibited to the public, bred and researched for scientific and educational purposes. It was opened on 27 June 1925.

Zoo events include various types of educational and entertainment content, organised workshops, interactive exhibitions, games and quizzes on animals with the purpose of acquainting the public with the necessity of animal and nature protection, which are carried out under various titles (Bat Night, Red Panda, Winter Around the World).

Event participants include both adults and children.

Number of visitors reflects the number of sold tickets.

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 1970 to 2018

	Theatres ¹⁾			Cinematographs			Radio subscribers ²⁾	TV-subscribers ²⁾³⁾⁴⁾
	number	performances	attendance	number	performances	attendance, in thousands		
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
2018	95	6 729	1 258 631	9	70 497	2 212	272 309	222 835

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
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
2017/2018	95	6 729	4 456	2 273	691	1 258 631	848 619	410 012

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
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
2017/2018	64	4 171	2 830	1 341	449	950 786	652 781	298 005

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
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
2017/2018	20	2 385	1 483	902	205	293 688	185 971	107 717

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
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
2017/2018	11	173	143	30	37	14 157	9 867	4 290

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	Other	Total	In Zagreb	Outside of Zagreb
		In the theatre's permanent hall	Visiting performances							
			In Zagreb	Outside of Zagreb						
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
2017/2018	286	230	3	53	10	33	5	170 288	142 203	28 085

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
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
2017/2018	32	590	270	272	48	441 951	190 019	61 547	190 385

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
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
2018	33	25	58	43	15	51	45	6	58 000	53 000	5 000

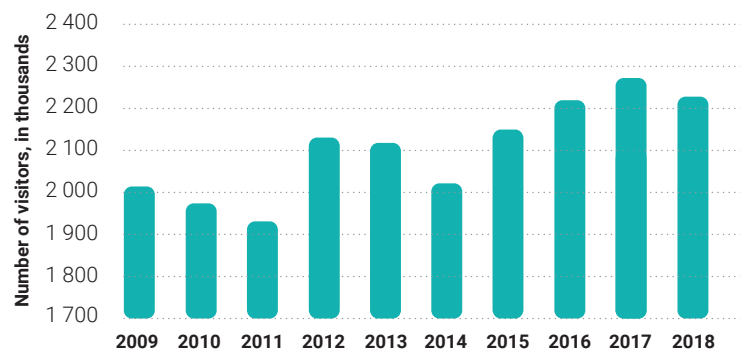
Source: Lado

21.10 Cinematographs

	Cinematographs	Movie theatres/ screens	Seats	Projections	Visitors in thousands	Employees
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
2018	9	49	9 149	70 497	2 212	96

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

G 21.1 Number of cinema visitors from 2009 to 2018



21.11 Museums and museum collections per type, permanently exhibited objects, occasional exhibitions and visitors in 2018

	Museums		Permanent exhibitions				Occasional exhibitions			
			Objects			Visitors	In a museum		Outside a museum	
	Total	Open for public	Catalogued	Exhibited	Non-catalogued		Exhibitions	Visitors	Exhibitions	Visitors
Total	37	29	1 309 653	40 809	1 226 594	555 885	251	659 000	104	805 192
General	7	4	37 486	2 267	9 980	35 177	25	9 703	-	-
Specialised	30	25	1 272 167	38 542	1 216 614	520 708	226	649 297	104	805 192
Historical	7	6	375 124	7 000	116 011	129 668	68	109 022	10	17 200
Archeological	1	1	392 169	14 028	-	18 920	53	32 213	13	22 250
Art	8	7	325 908	3 771	134 050	96 420	44	245 978	8	567 400
Ethnographic	1	1	77 678	1 399	-	19 096	13	31 784	22	45 512
Natural History	2	2	7 666	7 666	696 191	24 520	4	43 516	8	14 394
Tehnickal and technological	2	2	18 506	2 905	1 202	98 788	20	33 743	5	21 610
Other ¹⁾	9	6	75 116	1 773	269 160	133 296	24	153 041	38	116 826

¹⁾ Includes memorial, biographical and other museums and museum collections.

Source: CBS

21.12 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

21.13 Libraries in 2016

	Libraries	Catalogued library inventory		Active users	Employees		
		Total	Of which: books and brochures (volumes)		Total	Professional staff	Other staff
Total	330	6 250 707	6 030 145	389 973	1 390	1 100	290
National and University Library	1	1 695 514	1 651 313	12 853	300	190	110
Libraries of higher education institutions	50	1 262 371	1 225 901	70 223	186	164	22
Special libraries	66	1 268 859	1 212 074	20 468	131	111	20
National libraries	46	1 433 159	1 353 572	198 070	583	456	127
Primary school libraries	107	313 783	312 316	58 811	120	115	5
Secondary school libraries	60	277 021	274 969	29 548	70	64	6

Source: CBS

21.14 Zoological garden

	2014	2015	2016	2017	2018
Animals					
Individuals – total	5 968	7 533	7 737	8 687	8 089
Species – total	338	357	358	377	377
Mammals					
Individuals	656	625	648	669	719
Species	76	77	77	81	79
Birds					
Individuals	305	351	342	354	384
Species	75	76	77	80	73
Reptiles					
Individuals	453	620	624	813	733
Species	97	108	114	123	137
Fish					
Individuals	288	375	446	495	584
Species	33	37	32	32	31
Amphibians and invertebrates					
Individuals	4 266	5 562	5 677	6 356	5 669
Species	57	59	58	61	57
Visitors – total¹⁾	302 928*	282 970*	316 604*	403 070	428 121
adults	190 991	174 510	185 624	209 103	212 778
children	103 881	98 727	122 797	182 928	192 302
at events	8 056	9 733	8 183	11 039	23 041

¹⁾ See Notes on Methodology.

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 Nos 71/06, 150/08, 124/10, 124/11, 86/12, 94/13, 85/15 and 19/16). 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 Nos 6/10, 12/10, 5/11, 15/11, 22/15, 25/15, 2/17, 9/17 and 18/17) 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 2018

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	987	99 186	40 975	41 913	15 784	12 896	5 096	5 788	7 051	10 658	3 900
Athletics	7	1 300	723	784	288	129	39	26	21	13	52
Automobile racing	24	160	15	8	2	26	31	54	31	8	36
Badminton	7	329	176	186	70	31	12	14	15	1	25
Baseball	5	179	19	43	51	47	19	17	2	-	25
Bicycling	11	143	22	24	11	11	17	41	15	24	34
Billiards	10	152	11	9	18	29	27	22	27	20	21
Boules	25	388	52	19	-	52	58	52	78	129	60
Body building	3	135	31	-	11	53	33	18	14	6	10
Boxing	15	313	50	74	147	58	20	8	4	2	38
Bridge	7	261	122	-	-	39	106	116	-	-	22
Curling	5	91	39	-	-	45	26	20	-	-	15
Weightlifting	5	142	21	1	4	65	36	19	4	13	13
Gymnastics	9	1 100	901	1 035	22	14	10	7	7	5	52
Golf	4	350	51	44	28	88	33	17	50	90	11
Hockey	7	662	156	307	101	90	53	62	36	13	32
Ice Hockey	10	632	25	365	102	85	31	34	8	7	56
Wrestling	9	652	32	301	163	98	54	22	6	8	34
Sailing	10	147	39	25	7	16	24	17	19	39	24
Jet Ski	3	135	43	8	6	17	17	38	37	12	17
Judo	14	1 825	423	1 359	249	114	36	34	24	9	70
Jiu-jitsu	5	104	12	-	-	20	24	44	16	-	14
Kayak/canoe	4	595	66	25	80	178	216	82	10	4	16
Karate	38	1 520	538	941	240	158	72	34	36	39	100
Kickboxing	17	282	71	5	23	111	85	40	14	4	24
Ice skating	8	336	302	224	69	22	3	13	1	4	34
Equestrian sports	13	135	125	39	47	19	10	10	10	-	26
Basketball	30	1 650	496	888	490	135	57	27	21	32	211
Inline skating	9	247	127	56	7	184	-	-	-	-	27
Bowling	33	568	199	126	86	80	26	46	67	137	115
Fencing	9	512	272	370	76	33	22	-	-	11	29
Motorcycle sports	8	64	1	-	1	7	23	11	7	15	24
Nanbudo	8	380	135	26	60	165	83	33	8	5	20
Football	134	13 858	330	7 541	3 567	1 519	496	370	235	130	500
Arm Wrestling	3	100	8	3	7	46	28	10	4	2	9
Volleyball	18	2 060	1 869	1 462	411	98	31	15	25	18	149
Orienteering	5	327	170	57	26	19	31	98	68	28	12
Darts	30	527	31	-	1	25	143	229	107	22	62
Swimming	11	1 394	482	1 149	127	56	16	22	14	10	52
Rugby	8	617	49	81	206	151	95	65	12	7	28

22.1 Sports associations and active athletes by sport types and age groups in 2018

(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	
Rock'n'roll	5	513	442	364	48	31	7	5	3	55	46
Diving	5	132	45	2	10	55	40	20	5	-	12
Handball	32	1 510	447	1 005	258	144	34	32	15	22	139
Sambo	5	193	50	70	50	30	22	12	7	2	17
Savate	3	110	26	11	37	37	22	2	-	1	13
Synchronized swimming	4	280	274	199	37	19	6	9	8	2	23
Skiing	17	276	137	160	19	14	11	35	22	15	49
Water skiing and wakeboarding	3	12	3	-	3	3	1	2	2	1	8
Diving	4	269	133	175	39	21	5	5	-	24	19
Softball	7	720	298	145	139	222	92	109	13	-	23
Sports for the deaf	13	202	41	25	17	35	34	26	29	36	28
Disabled sports	44	1 056	267	25	50	140	220	178	373	70	90
Sport recreation	17	20 000	14 000	100	400	500	2 000	3 000	5 000	9 000	80
Sport dance	5	225	137	99	54	42	19	1	5	5	19
Sport fishing	26	145	22	14	9	23	-	-	83	16	32
Sport fishing at sea	5	71	7	7	8	1	4	26	8	17	12
Sport climbing	9	120	61	86	13	5	6	10	-	-	22
Squash	5	134	24	35	22	34	33	5	3	2	11
Table tennis	11	412	93	267	68	29	19	6	15	8	39
Archery	7	353	110	51	45	50	40	67	50	50	27
Shooting sports	17	305	93	53	56	33	18	44	36	65	50
University sports	32	6 782	2 358	-	-	6 782	-	-	-	-	66
Chess	24	548	79	173	30	42	31	45	74	153	75
School sports ¹⁾	215	24 963	11 628	18 162	6 531	-	-	-	-	-	503
Taekwondo	36	2 411	1 030	1 691	411	146	41	62	30	30	102
Tennis	29	960	404	470	139	84	62	77	69	59	120
Triathlon	6	679	239	252	101	65	71	107	64	19	30
Water polo	7	700	77	458	149	62	17	7	5	2	40
Rowing	6	711	145	214	190	72	50	50	39	96	33
Wushu	11	179	57	15	47	39	31	17	13	17	22
Air sports	11	113	14	-	-	3	17	42	27	24	51

¹⁾ School sports associations.

Source: Sports Association of the City of Zagreb

22.2 Number of medals won at international competitions¹⁾ from 2009 to 2018

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Medal total	208	232	320	235	296	268	192	170	200	203
By classes of medals										
Gold	85	64	135	111	90	82	68	78	58	86
Silver	56	86	52	48	94	102	74	47	57	62
Bronze	67	82	133	76	112	84	50	45	85	55
By sex										
Male	118	124	168	112	152	139	91	105	131	132
Female	42	53	71	56	59	66	48	37	69	71
By categories										
Cadets	7	11	20	9	15	6	1	10	8	9
Female cadets	8	22	13	2	2	1	12	1	7	10
Juniors	29	32	63	42	62	44	33	18	24	18
Female juniors	5	8	18	15	33	16	10	7	12	6
Seniors	112	120	145	103	129	137	85	99	99	105
Female seniors	47	39	61	64	55	64	51	35	50	55

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: Sports Association of the City of Zagreb, 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 Zagreb¹⁾

Status on 31 December 2018

Types of sports venues	Total	Categories				
		I	II	III	IV	V
Sports venues – total	162	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	46	-	-	12	14	21
Football	33	-	-	11	14	8
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⁾ See Notes on Methodology.

Source: City Office for Sports and Youth

Between 2015 and 2018, the number of adult persons sentenced to unconditional imprisonment was falling by the yearly average rate equalling 8.3%. In 2018, 476 such persons were convicted.

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

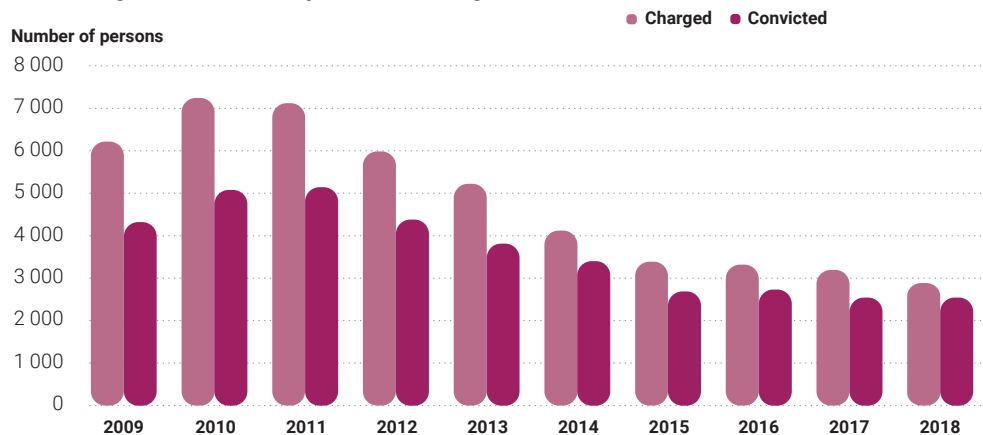
Courts		2014	2015	2016	2017	2018
Total	Total	472	494	481	469	463
	Women	376	389	381	373	371
County Court in Zagreb	Total	101	99	102	98	98
	Women	77	77	78	75	75
Municipal Civil Court in Zagreb	Total	132	124	120	118	121
	Women	109	102	101	100	102
Municipal Criminal Court in Zagreb	Total	40	40	37	36	30
	Women	28	28	27	26	23
Municipal Labour Court in Zagreb	Total	26	24	22	22	22
	Women	21	20	18	18	18
Municipal Court in Sesvete ¹⁾	Total	16	-	-	-	-
	Women	13	-	-	-	-
Municipal Court in Novi Zagreb ²⁾	Total	-	43	40	39	38
	Women	-	30	28	28	28
Misdemeanour Court in Zagreb	Total	81	78	73	71	70
	Women	71	72	68	66	65
Misdemeanour Court in Sesvete ¹⁾	Total	5	-	-	-	-
	Women	5	-	-	-	-
Misdemeanour Court in Novi Zagreb ²⁾	Total	-	17	17	17	15
	Women	-	9	9	9	8
Commercial Court in Zagreb	Total	58	56	53	51	52
	Women	43	42	39	38	39
Administrative Court in Zagreb	Total	13	13	17	17	17
	Women	9	9	13	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	2017		2018	
	Charged	Convicted	Charged	Convicted
Total	3 165	2 528	2 936	2 477
Offences against life and limb	196	156	165	133
Murders	12	10	9	5
Aggravated murders	5	3	4	2
Bodily injury	71	56	70	61
Aggravated bodily injury	96	75	77	60
Especially aggravated bodily injury	3	3	-	-
Other criminal offences	9	9	5	5
Against personal freedom	322	247	345	260
Unlawful deprivation of freedom	5	4	3	3
Threats	285	217	312	235
Other criminal offences	32	26	30	22
Against honour and reputation	83	27	49	10
Insult	23	9	21	6
Defamation	11	4	8	2
Slander and libel	49	14	20	2
Against sexual freedom	26	19	16	14
Rape	9	6	7	6
Lewd acts	11	7	6	6
Other criminal offences	6	6	3	2
Against sexual maltreatment and sexual exploitation of children	24	19	22	20
Sexual abuse of a child younger than fifteen years	15	13	14	14
Other criminal offences	9	6	8	6
Against marriage, family, and youth	260	222	279	239
Failure to provide maintenance	179	156	183	160
Violation of children's rights	62	51	71	62
Other criminal offences	19	15	25	17
Against people's health	131	110	111	104
Illicit drug production and trafficking	112	98	101	96
Enabling drug abuse	12	8	6	6
Other criminal offences	7	4	4	2

23.2 Charged and convicted persons of full age by criminal offences

(Continued)

Criminal offences	2017		2018	
	Charged	Convicted	Charged	Convicted
Against Public Safety	28	24	14	10
Endangering Life and Property by Dangerous Public Acts or Means	17	13	9	8
Dangerous execution of construction works	9	9	5	2
Other criminal offences	2	2	-	-
Against safety in traffic	177	165	197	184
Reckless driving	-	-	-	-
Endangering Road Traffic	177	165	197	184
Other criminal offences	-	-	-	-
Against property	1 138	950	1 131	1 007
Theft	350	309	391	362
Aggravated theft	278	240	225	210
Robbery	49	45	71	60
Aggravated robbery	13	11	16	16
Larceny	26	7	12	7
Embezzlement	40	34	30	29
Unauthorised use of movable property	11	11	2	-
Malicious Mischief	52	39	46	36
Fraud	263	211	280	245
Extortion	27	17	29	25
Concealing	12	10	9	9
Other criminal offences	17	16	20	8
Against the economy	242	168	191	139
Abuse of trust in economic business operations	98	53	48	30
Fraud in economic business operations	55	38	57	31
Embezzlement of taxes or custom	22	17	17	15
Avoiding customs control	7	4	3	3
Illicit trade	51	50	50	49
Other criminal offences	9	6	16	11
Against computer systems, programmes, and data	39	32	26	24
Unauthorized access	-	-	1	-
Computer fraud	39	32	25	24
Other criminal offences	-	-	-	-

23.2 Charged and convicted persons of full age by criminal offences

(Continued)

Criminal offences	2017		2018	
	Charged	Convicted	Charged	Convicted
Against Counterfeiting	194	172	162	145
Forgery of a document	177	156	127	117
Forgery of an official or business document	3	3	15	10
Certification of untrue content	6	5	5	5
Other criminal offences	8	8	15	13
Against Intellectual Property	6	4	-	-
Illicit use of an author's work or an artistic performance	1	-	-	-
Other criminal offences	5	4	-	-
Against official duty	72	46	47	35
Abuse of office and official authority	45	21	30	18
Accepting a bribe	9	8	2	2
Offering a bribe	11	11	13	13
Trading in influence	3	3	2	2
Offering a bribe for trading in influence	1	1	-	-
Other criminal offences	3	2	-	-
Against the judiciary	43	32	43	35
False report of a criminal offence	14	14	8	8
Making a false statement	23	14	25	19
Failure to fulfil court decision	1	-	1	1
Other criminal offences	5	4	9	7
Against public order	121	101	111	102
Coercion against an official person	22	18	14	13
Attacking an official	8	8	5	4
Removal and damage of an official seal or a mark	4	2	4	3
Illegal debt collection	9	9	11	10
Illegal entry, movement and stay in the Republic of Croatia	30	26	33	31
Illicit production, possession, or acquisition of weapons and explosive substances	41	35	37	34
Other criminal offences	7	3	7	7
Other criminal offences	63	34	27	16

¹⁾ On 1 January 2013, the new Criminal Code entered into force (Official Gazette Nos 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				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
City of Zagreb – total²⁾	4 121	3 388	3 320	3 165	2 936	3 402	2 688	2 735	2 528	2 477
County courts:										
Zagreb	791	400	301	294	269	701	318	250	246	240
Municipal courts:										
Zagreb	2 655	2 713	2 634	2 460	2 207	2 120	2 127	2 167	1 990	1 887
Sesvete	291	-	-	-	-	243	-	-	-	-
Krapina	-	-	-	-	-	-	-	-	-	-
Zabok	-	-	-	-	-	-	-	-	-	-
Zlatar	384	275	385	411	460	338	243	318	292	350

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 No. 128/14).

²⁾ Act on Areas and Court Seats (Official Gazette No. 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 2018¹⁾²⁾

	Total	Zagreb County Court	Municipal Criminal Court in Zagreb	Municipal Court in Zlatar ²⁾
TOTAL	2 477	240	1 887	350
Against humanity and human dignity	-	-	-	-
Against life and limb	133	8	80	45
Against labour relations and social insurance	6	-	4	2
Against personal freedom	260	-	205	55
Against privacy	4	-	4	-
Against honour and reputation	10	-	5	5
Against sexual freedom	14	6	7	1
Against sexual maltreatment and sexual exploitation of children	20	5	15	-
Against marriage, family, and children	239	-	235	4
Against people's health	104	22	74	8
Against the environment	2	-	1	1
Against the public safety	10	1	9	-
Against safety in traffic	184	-	158	26
Against property	1 007	110	772	125
Against economy	139	35	84	20
Against computer systems, programmes, and data	24	-	19	5
Against counterfeiting	145	2	118	25

23.4 Convicted persons of full age by courts and groups of criminal offences in 2018¹⁾²⁾

(Continued)

	Total	Zagreb County Court	Municipal Criminal Court in Zagreb	Municipal Court in Zlatar ²⁾
Against intellectual property	-	-	-	-
Against official duty	35	28	7	-
Against the judiciary	35	-	26	9
Against public order	102	22	62	18
Other criminal offenses until 2012	1	1	-	-
Secondary criminal legislation (not within the scope of the Criminal Court)	3	-	2	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 No. 128/14).

²⁾ Act on Areas and Court Seats (Official Gazette No. 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, Pissarovina, 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.

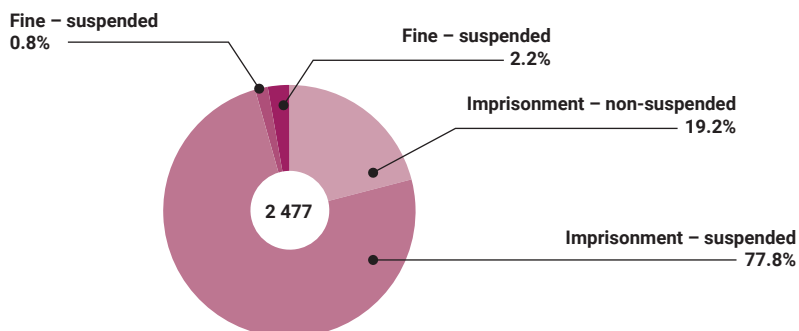
Source: CBS

23.5 Convicted adult persons by pronounced sanctions

Sanctions imposed	2014	2015	2016	2017	2018
Total	3 402	2 688	2 735	2 528	2 477
Imprisonment – non-suspended	1 110	617	556	531	476
Long-term imprisonment	1	1	3	-	-
15 – 20 years	2	3	1	-	1
10 – 15 years	1	-	3	3	5
5 – 10 years	26	11	10	9	8
2 – 5 years	119	70	66	63	49
1 – 2 years	193	133	82	83	77
6 – 12 months	515	326	320	322	294
up to 6 months	253	73	71	51	42
Imprisonment – suspended	2 189	1 961	2 092	1 888	1 926
Fine					
Non-suspended	42	29	18	21	17
Suspended	3	20	16	41	20
Convicted persons, but no penal sentence	5	2	2	1	-
Judicial admonition	3	1	3	-	-
Educational measures	25	35	25	20	17
Juvenile prison, suspended juvenile imprisonment, and suspended juvenile imprisonment with pronounced educational measure	25	23	23	26	21

Source: CBS

G 23.2 Convicted adult persons, by pronounced criminal penalties or other measures in 2018



23.6 Juvenile perpetrators of criminal offenses by groups of criminal offenses, type of decision and pronounced sanctions in 2018

	Total	Criminal offences		
		Against life and limb	Against property	Other
Type of decision - total	70	9	33	28
Proceedings terminated	5	1	1	3
Pronounced penalties	65	8	32	25
Type of pronounced penalty - total	65	8	32	25
Educational measures ¹⁾				
Warnings	20	7	8	5
Measures of increased supervision	25	-	15	10
Correctional institution measure	13	1	6	6
Juvenile imprisonment	2	-	1	1
Suspended juvenile imprisonment	5	-	2	3

¹⁾ With the entry into force of the new Juvenile Courts Act (Official Gazette Nos 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⁾⁴⁾⁵⁾

	2014	2015	2016	2017	2018
Adult perpetrators – total	52 053	27 701	28 378	25 994	20 717
Type of offences from the area of					
- Public order and peace	9 148	5 982	5 647	6 303	5 344
- Safety in road traffic	33 320	14 459	14 775	12 207	10 931
- Public safety	1 005	565	526	478	- ⁴⁾
- Economy	4 177	3 096	4 332	4 414	2 138
- Finance	3 393	3 086	2 735	2 302	2 304
- Labour relations and safety at work	503	186	63	69	- ⁴⁾

23.7 Adult and juvenile perpetrators of criminal offences by type of criminal offence, procedure, and decision¹⁾²⁾³⁾⁴⁾⁵⁾

(Continued)

	2014	2015	2016	2017	2018
- Education, science, culture, and information	15	5	11	2	- ⁴⁾
- Health care and social welfare, health insurance, and the protection of the human environment	490	321	288	212	- ⁴⁾
- Administration	2	1	1	7	- ⁴⁾
Type of decision					
Convicted	36 939	21 573	21 999	19 792	15 122
Rebuff	426	151	25	22	- ⁵⁾
Proceedings terminated	738	648	804	947	536
Judgement of acquittal	10 505	4 358	4 351	3 835	4 083
Judgement rejecting charges	3 445	971	1 199	1 396	976
Mentally incompetent persons	-	-	-	2	- ⁵⁾
Juvenile perpetrators – total	629	381	345	432	385
Type of offences from the area of					
- Public order and peace ⁴⁾	415	203	194	244	276
- Safety in road traffic	126	120	83	126	97
- Public security	83	40	26	23	- ⁴⁾
- Economy	3	18	41	38	12
- Finance	2	-	1	1	-
- Employment and occupational safety	-	-	-	-	
- Education, science, culture and information	-	-	-	-	- ⁴⁾
- Health care and social welfare, health insurance, and the protection of the human environment	-	-	-	-	- ⁴⁾
- Administration	-	-	-	-	- ⁴⁾
Type of decision					
Convicted	5	4	6	7	2
Proceedings terminated	116	42	32	64	45
Applied educational and/or protective orders	508	335	307	361	338

¹⁾ Starting with the 2018 reference year, data are presented in accordance with changes in the territorial organization based on the Regulation on amendments to the Regulation on the internal organization of the Ministry of Finance (Official Gazette, No. 54/17) and Regulation on the Internal Organization of the Ministry of Finance (Official Gazette, No. 26/18).

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 No. 128/14).

³⁾ Act on Areas and Court Seats (Official Gazette No. 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.

⁴⁾ Starting with the 2018 reference year, there have been changes in the structure of classification of offenses by the Central Bureau of Statistics. The number of classification areas has been reduced from 9 to 4 areas. Individual offenses classification items within the abolished areas are included under the remaining 4 areas so that full coverage is maintained. Areas of classification of offenses "Work and safety at work", "Education, Science, Culture and Information", "Health care, social welfare, health insurance and environmental health" and part of the "Administration" area is included under the "Economy" areas. The "General Safety" offense classification area is included under the area "Public order and peace and public security". One item from the Management area is included under the "Finance" area.

⁵⁾ Due to the procedural - legal nature of the decision dismissing the charge and the decision finding the offender to have committed the offense in the non-integer state, the above decisions from the 2018 reference year no longer constitute a modality of the statistical variable Type of decision (they are already dispersed within the remaining applicable modalities).

Source: CBS

23.8 Perpetrators of offences by pronounced sanctions¹⁾²⁾³⁾

	2014	2015	2016	2017	2018
Adult perpetrators – total	36 939	21 573	21 999	19 792	15 122
Imprisonment	2 213	1 830	1 714	1 522	1 254
Fine	26 942	16 388	15 426	14 129	11 686
Admonition	6 670	2 725	4 083	3 474	1 646
Found guilty, but no penal sentence	1 114	630	776	667	536
Protective orders (with penalty)	2 580	2 066	2 408	2 833	2 506
Juvenile perpetrators – total	5	4	6	7	2
Juvenile imprisonment	1	1	1	1	1
of which suspended imprisonment	1	1	1	-	1
Fine	4	3	5	6	1
Educational measures					
Judicial admonition	315	246	219	275	208
Special obligations	180	73	82	74	126
Assignment to a correctional institution	13	16	2	9	3
Protective measures	35	37	30	19	12

¹⁾ Starting with the 2018 reference year, data are presented in accordance with changes in the territorial organization based on the Internal Regulation Ministry of Finance (Official Gazette, No. 54/17), Decree amending the Decree on the internal organization of the Ministry Finance (OG No. 26/18).

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 No. 128/14).

³⁾ Act on Areas and Court Seats (Official Gazette No. 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

The number of active legal entities equalled 50 251 in 2018 and 48 416 in 2017, representing a 3.8% growth, while the number of registered business entities in crafts and freelances equalled 15 566 in 2018, representing a 5.2% growth in comparison to 2017, when there were 14 802.

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 Nos 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				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Legal persons – total	95 741	100 481	80 685	82 344	85 240	56 926	61 670	46 563	48 416	50 251
Companies – total	55 933	60 135	64 581	65 743	68 162	49 469	53 669	39 867	41 362	44 363
Simple limited liability company	5 213	7 246	9 394	11 455	13 511	5 205	7 242	6 682	7 722	9 625
Limited liability company	49 681	51 815	54 084	53 163	53 521	43 400	45 526	32 460	32 915	34 015
Other forms	1 039	1 074	1 103	1 125	1 130	864	901	725	725	723
Companies ¹⁾ and co-operatives ²⁾ – total	23 981	23 984	507	459	438	224	231	98	93	92
Private companies	3 012	3 012	-	-	-	4	4	-	-	-
Limited liability companies	20 160	20 155	-	-	-	55	53	-	-	-
Cooperatives	488	496	507	459	437	163	172	98	93	91
Other forms	321	321	-	-	1	2	2	-	-	1
Institutions, bodies, associations, funds and organizations	15 827	16 362	15 597	16 142	16 640	7 233	7 770	6 598	6 961	5 796
Entities in crafts and freelance activities	15 219	14 623	14 316	14 802	15 566	...	...	...	...	...

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				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Total	56 926	61 670	46 563	48 416	50 251	100.0	100.0	100.0	100.0	100.0
Forms of ownership										
State-owned	222	228	199	195	200	0.4	0.4	0.4	0.4	0.4
Private	48 916	53 141	39 436	40 982	44 024	85.9	86.2	84.7	84.6	87.6
Cooperative	163	172	97	92	91	0.3	0.3	0.2	0.2	0.2
Mixed	423	423	310	294	271	0.7	0.7	0.7	0.6	0.5
No ownership	7 202	7 706	6 521	6 853	5 665	12.7	12.4	14.0	14.2	11.3

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 %
2014		95 741	56 926	59.5
2015		100 481	61 670	61.4
2016		80 685	46 563	57.7
2017		82 344	48 416	58.8
2018 - Total		85 240	50 251	59.0
Legal entities by NCA 2007 sections				
A	Agriculture, forestry and fishing	621	359	57.8
B	Mining and quarrying	54	31	57.4
C	Manufacturing	5 557	3 758	67.6
D	Electricity, gas, steam and air conditioning supply	368	189	51.4
E	Water supply; sewerage, waste management, and remediation activities	231	126	54.5
F	Construction	6 676	3 857	57.8
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	19 079	10 968	57.5
H	Transportation and storage	2 338	1 639	70.1
I	Accommodation and food service activities	5 353	3 384	63.2
J	Information and communication	4 878	3 522	72.2
K	Financial and insurance activities	1 075	534	49.7
L	Real estate activities	2 529	1 645	65.0
M	Professional, scientific and technical activities	12 943	9 407	72.7
N	Administrative and support service activities	3 182	2 209	69.4
O	Public administration and defence; compulsory social security	195	147	75.4
P	Education	1 184	955	80.7
Q	Health and social work activities	1 303	781	59.9
R	Arts, entertainment and recreation	4 738	1 917	40.5
S	Other service activities	12 902	4 823	37.4
T	Activities of households as employers; undifferentiated goods – and services – producing activities of households for own use	-	-	-
U	Activities of extraterritorial organisations and bodies	34	-	-

Source: CBS

24.4 Business entities by NCA 2007 sections and by size¹⁾

Status as of 31 December 2018

		Business entities				
		Total	Micro	Small	Medium	Large
Total		43 927	39 418	3 795	547	167
A	Agriculture, forestry and fishing	391	356	30	4	1
B	Mining and quarrying	29	19	4	3	3
C	Manufacturing	3 686	3 078	479	99	30
D	Electricity, gas, steam and air conditioning supply	225	180	25	10	10
E	Water supply; sewerage, waste management and remediation activities	110	83	17	7	3
F	Construction	3 864	3 480	335	35	14
G	Wholesale and retail trade; repair of motor vehicles and motorcycles	10 513	8 908	1 334	214	57
H	Transportation and storage	1 435	1 282	124	19	10
I	Accommodation and food service activities	2 964	2 755	187	20	2
J	Information and communication	3 505	3 165	286	36	18
K	Financial and insurance activities	246	218	17	5	6
L	Real estate activities	1 765	1 592	159	13	1
M	Professional, scientific and technical activities	9 694	9 142	500	46	6
N	Administrative and support service activities	2 027	1 866	142	18	1
O	Public administration and defence; compulsory social security	23	21	2	-	-
P	Education	617	581	35	1	-
Q	Health and social work activities	592	533	53	5	1
R	Arts, entertainment and recreation	585	543	32	7	3
S	Other service activities	1 532	1 494	32	5	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	-	-	-	-	-
Natural persons without activity		124	122	2	-	-

¹⁾ See Notes on Methodology.

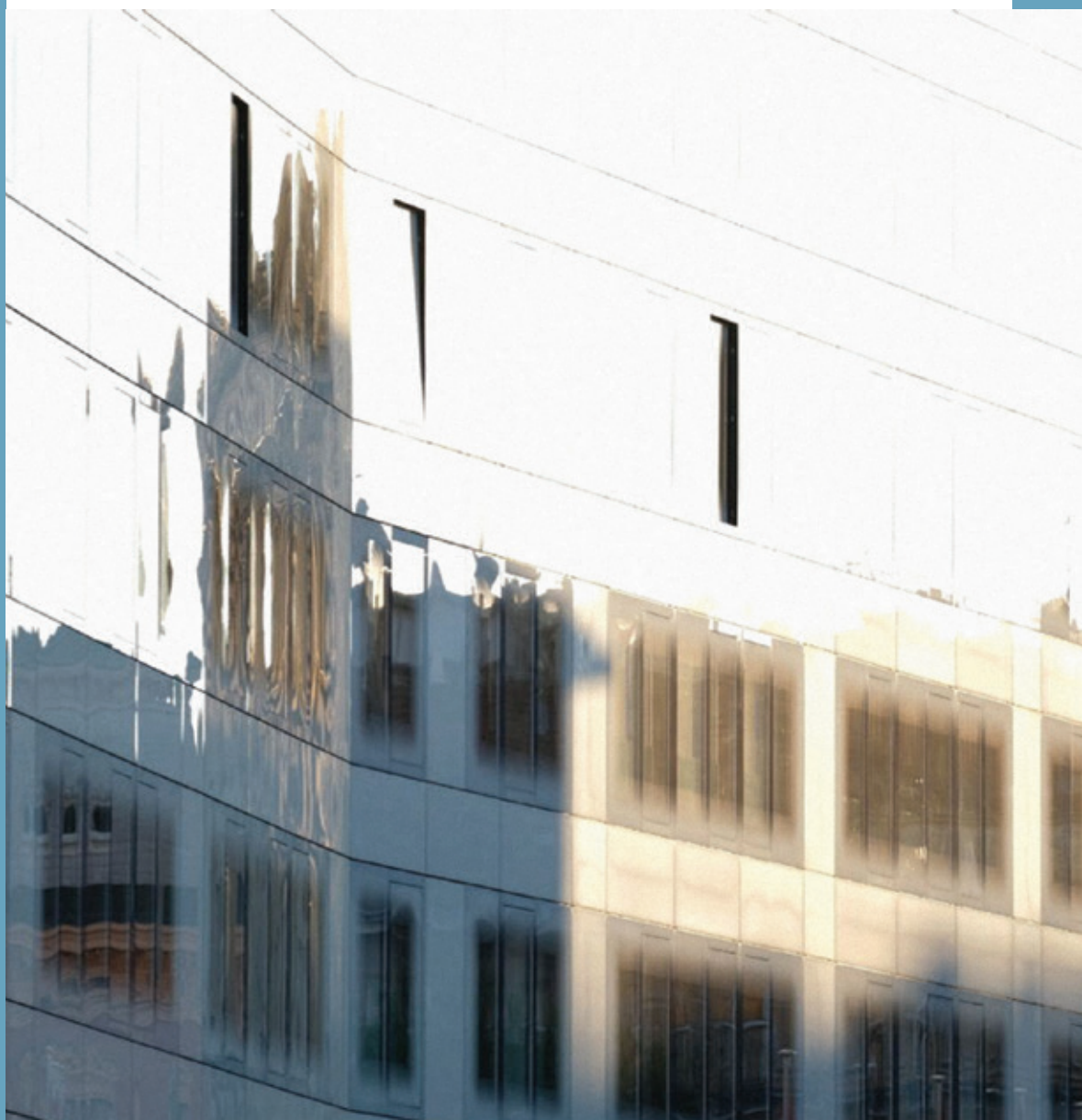
Source: Fina

In 2018, foreign direct investments in the City of Zagreb equalled 565 million euro.

Between 2009 and 2018, the majority of foreign direct investments into the City of Zagreb came from Italy and amounted to 1 942,8 million euro, representing 34% of total foreign direct investments in the City of Zagreb.

25

Foreign direct investments



NOTES ON METHODOLOGY

Coverage and comparability

Foreign direct investments include equity investments, retained profits and debt relations between residents and non-residents connected through equity. Direct equity investments – liabilities are investments by which a foreign owner acquires at least 10% of the share capital of a resident company, equity investments by which a non-resident recipient of the direct investment performs an under 10% investment into the capital of its direct resident investor (reverse investment) and equity investments between horizontally connected companies in which a non-resident investor owns less than 10% of shares in the resident's capital if the investor belongs to the same group of companies as the resident reporting subject (investment between horizontally connected companies).

Domestic legal entities directly owned by foreigners are domestic legal entities in which a non-resident investor owns 10% or more shares.

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

In the data published on 30 June 2019, the series of data on direct investment was revised due to the revision of data on foreign debt, beginning in 2010.

The countries in table 25.4. 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 Nos 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 collected data covered by statistical research for which the data on the reporting subject activity and/or foreign investor country is not available, investments for countries and activities which, based on the total amount of investment, participate with less than 1% in the total amount in a given year, and the part of data in relation to the part of the population not covered by statistical research. This regards debtor transactions which, due to the equity connection between the debtor and the creditor are included among direct investments, and partly represent foreign debt statistics in which balances and transactions are specifically evaluated for the part of population which is not covered by research. Information on the activity of the reporting subject and/or partner country is not available for that segment of population. This item includes data that the Croatian National Bank is obliged to keep confidential in accordance with the Official Statistics Act.

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.

Property/liabilities principle covers:

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), from 2009 to 2018

mil. euros

	Direct investments
2009	1 945.7
2010	404.0
2011	478.8
2012	867.4
2013	289.5
2014	1 533.6
2015	-134.9
2016	-140.9
2017	-97.4
2018	565.0

Source: CNB

25.2 Domestic legal entities in the City of Zagreb in direct foreign ownership

	Domestic legal entities in direct foreign ownership
2009	1 783
2010	1 969
2011	2 145
2012	2 301
2013	2 451
2014	2 646
2015	2 888
2016	3 040
2017	3 219
2018	3 312

Source: CNB

25.3 Foreign direct investments in the City of Zagreb (liabilities), according to NCA 2007, from 2014 to 2018 and from 2009 to 2018

mil. euros

NCA	Activity	2014 – 2018	2009 – 2018
Total		1 725.4	5 710.7
01	Crop and animal production, hunting and related service activities	-9.0	6.6
02	Forestry and logging	3.5	83.3
06	Extraction of crude petroleum and natural gas	-9.7	-207.9
10	Manufacture of food products	42.8	145.4
11	Manufacture of beverages	49.4	-173.1
16	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	7.8	7.7
19	Manufacture of coke and refined petroleum products	-28.5	37.5
21	Manufacture of basic pharmaceutical products and pharmaceutical preparations	-50.3	-385.4
23	Manufacture of rubber and plastic products	6.3	9.1

25.3 Foreign direct investments in the City of Zagreb (liabilities), according to NCA 2007, from 2014 to 2018 and from 2009 to 2018

(Continued)		mil. euros	
NCA	Activity	2014 – 2018	2009 – 2018
26	Manufacture of computer, electronic and optical products	-25.4	-55.7
27	Manufacture of electrical equipment	-11.5	-12.4
29	Manufacture of motor vehicles, trailers and semi-trailers	10.9	11.0
35	Electricity, gas, steam and air conditioning supply	67.4	92.1
36	Water collection, treatment and supply	41.2	105.8
41	Construction of buildings	253.7	308.9
42	Civil engineering	-49.1	-102.9
45	Wholesale and retail trade and repair of motor vehicles and motorcycles	19.2	-5.4
46	Wholesale trade, except of motor vehicles and motorcycles	180.5	854.2
47	Retail trade, except of motor vehicles and motorcycles	483.2	560.4
52	Warehousing and support activities for transportation	51.4	57.2
55	Accommodation	57.4	113.1
56	Food and beverage service activities	0.0	-15.3
58	Publishing activities	29.5	35.1
59	Motion picture, video and television programme production, sound recording and music publishing activities	51.0	60.7
60	Programming and broadcasting activities	13.1	53.4
61	Telecommunications	352.5	547.3
63	Information service activities	55.1	82.4
64	Financial service activities, except insurance and pension funding	-195.0	1 111.1
65	Insurance, reinsurance and pension funding, except compulsory social security	43.3	173.9
66	Activities auxiliary to financial services and insurance activities	122.3	146.0
68	Real estate activities	378.1	1 077.9
70	Activities of head offices; management consultancy activities	-380.8	415.5
71	Architectural and engineering activities; technical testing and analysis	34.4	86.4
72	Scientific research and development	13.2	27.9
73	Advertising and market research	13.4	37.6
77	Rental and leasing activities	42.8	64.5
93	Sports activities and amusement and recreation activities	-29.7	62.7
	Equity investment in real estate	17.0	32.1
	Other ¹⁾	73.9	262.1

¹⁾ See Notes on Methodology.

Source: CNB

25.4 Foreign direct investments in the City of Zagreb (liabilities) by country from 2014 to 2018 and from 2009 to 2018

mil. euros

Country	2014 – 2018	2009 – 2018
Total	1 725.4	5 710.7
Australia	-7.1	-7.6
Austria	-1 513.8	-175.0
Belgium	14.2	195.2
Bosnia and Herzegovina	44.7	63.5
Cyprus	-208.8	-170.2
Czech Republic	114.5	363.8
Denmark	20.7	36.9
France	-12.1	-88.6
Ireland	15.4	24.9
Italy	1 835.0	1 942.8
China	8.8	9.3
Liechtenstein	7.8	12.2
Luxembourg	621.0	985.6
Hungary	15.1	40.6
Malta	48.3	108.5
Netherlands	327.1	927.3
Netherlands Antilles	-	11.5
Norway	40.7	110.2
Germany	-517.5	-390.8
Poland	24.7	9.6
Russian Federation	99.6	165.1
United States of America	-0.4	54.6
Slovakia	2.4	28.2
Slovenia	9.8	122.7
Serbia	-5.6	17.9
Spain	22.1	37.5
Sweden	97.9	329.1
Switzerland	500.9	603.6
Turkey	24.1	167.6
United Kingdom	74.7	86.4
International Financial Institutions	-74.2	-32.1
Other ¹⁾	95.6	120.3

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, 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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- Financial Agency
- Franjo Tuđman Zagreb International Airport
- Institute for Medical Research and Occupational Health
- Lado – National Folk Dance Ensemble of Croatia
- Meteorological and Hydrological Service
- Ministry of Environmental Protection and Energy
- Ministry of Justice of the Republic of Croatia
- Ministry of the Interior of the Republic of Croatia
- Office of International Relations and Human Rights
- Professional 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 Fair d. o. o.
- Zagreb Holding – Corporate Development Directorate
- Zagreb Holding – subsidiary City Cemeteries
- Zagreb Holding – subsidiary Zagreb City Gasworks
- Zagreb Holding – subsidiary Zagreb Bus Station
- Zagreb Holding – subsidiary Zagreb Markets
- Zagreb Holding – subsidiary Zagrebparking
- Zagreb Holding – subsidiary Zrinjevac
- Zagreb Holding – subsidiary Water Supply and Drainage
- Zagreb Wastewater d. o. o.
- Zoo of the City of Zagreb



