

**GENERAL CHARACTERISTICS,  
CAUSES AND FACTORS  
OF ENVIRONMENTAL CHANGES**





## A1 GENERAL CHARACTERISTIC

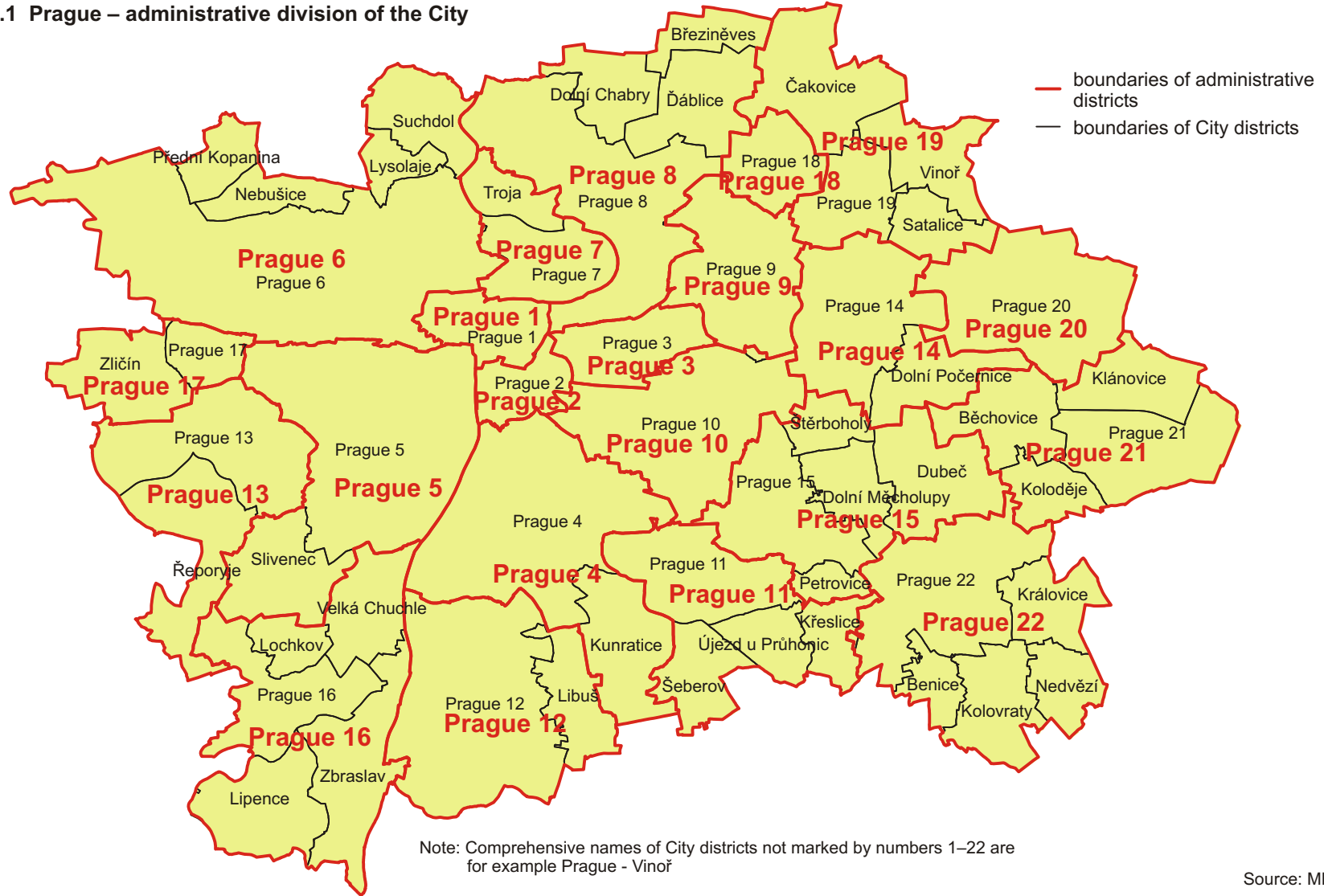
Tab. A1.1 Prague – general characteristics

Area [km <sup>2</sup> ]	496.1
Administrative division	
Number of municipal districts	57
Number of cadastral districts	112
Location (City Centre)	
Latitude (North)	50°05′
Longitude (East)	14°27′
Altitude [m]	
Maximum (Zličín)	399
Minimum (Suchdol)	177
Climate (Ruzyně)	
Aver. yearly air temperature [°C]	9.1
Yearly rainfall [mm]	463.6
Vltava River	
Length [km]	30
Flow rate in Podolí [m <sup>3</sup> .s <sup>-1</sup> ]	152
Land types [ha]	
Farmland	20,788
Forest land	4,960
Water bodies	1,079
Built-up areas	4,907
Other areas	17,876
Population	
Total population (31 <sup>st</sup> Dec. 2006)	1,188,126
– Females	617,245
– Males	570,881
Mid-year population	1,183,576
Population density per 1 km <sup>2</sup>	2,386
Houses, apartments*	
Number of houses	88,200
Number of apartments	551,243
Dwelling area of permanently occupied apartments [m <sup>2</sup> ]	21,157,895

\* Census 2001

Source: ČSÚ, ČHMÚ, ČÚZK

Fig. A1.1 Prague – administrative division of the City



Source: MHMP

Tab. A1.2 Prague – City Districts, their areas and relation to other territorial units

City District		Area [ha]	Number of TU's (incl. parts)	List of cadastral districts (* part only)
Code	Name			
500054	<b>Prague 1</b>	550	20	Holešovice*, Hradčany*, Josefov, Malá Strana*, Nové Město*, Staré Město, Vinohrady*
500089	<b>Prague 2</b>	419	22	Nové Město*, Nusle*, Vinohrady*, Vyšehrad
500097	<b>Prague 3</b>	650	26	Strašnice*, Vinohrady*, Vysočany*, Žižkov*
500119	<b>Prague 4</b>	2,419	81	Braník, Hodkovičky, Krč, Lhotka, Michle*, Nusle*, Podolí, Vinohrady*, Záběhlice*, Vršovice*
547042	Prague - Kunratice	810	13	Kunratice
500143	<b>Prague 5</b>	2,783	71	Hlubočepy, Jinonice*, Košfě, Malá Strana*, Motol, Radlice, Smíchov, Břevnov*
539678	Prague - Slivenec	759	9	Holyně, Slivenec
500178	<b>Prague 6</b>	4,154	65	Břevnov*, Bubeneč*, Dejvice, Hradčany*, Liboc, Ruzyně, Sedlec*, Střešovice, Veveslavín, Vokovice
547140	Prague - Lysolaje	248	4	Lysolaje
547158	Prague - Nebužice	368	4	Nebužice
539589	Prague - Přední Kopanina	327	2	Přední Kopanina
547271	Prague - Suchdol	512	9	Sedlec*, Suchdol
500186	<b>Prague 7</b>	712	20	Bubeneč*, Holešovice*, Libeň*
530077	Prague - Troja	338	4	Troja*
500208	<b>Prague 8</b>	2,180	58	Bohnice, Čimice, Karlín, Kobylisy, Libeň*, Nové Město*, Střížkov*, Troja*, Žižkov*
538124	Prague - Březiněves	339	3	Březiněves
547298	Prague - Ďáblice	738	9	Ďáblice
547301	Prague - Dolní Chabry	499	5	Dolní Chabry
500216	<b>Prague 9</b>	1,298	39	Hloubětín*, Hrdlořezy*, Libeň*, Prosek, Střížkov*, Vysočany*, Malešice*
500224	<b>Prague 10</b>	1,853	60	Hloubětín*, Hrdlořezy*, Malešice*, Michle*, Strašnice*, Vinohrady*, Vršovice*, Záběhlice*, Žižkov*
547034	<b>Prague 11</b>	979	22	Chodov, Háje
538400	Prague - Křeslice	343	2	Křeslice
539724	Prague - Šeberov	500	6	Šeberov
539791	Prague - Újezd	370	4	Újezd u Průhonic
547107	<b>Prague 12</b>	2,332	42	Cholupice, Kamýk, Komořany, Modřany, Točná
547051	Prague - Libuš	526	19	Libuš, Písnice
539694	<b>Prague 13</b>	1,294	34	Jinonice*, Řeporyje*, Stodůlky*, Třebonice*
539635	Prague - Řeporyje	1,016	11	Řeporyje*, Stodůlky*, Třebonice*, Zadní Kopanina
547361	<b>Prague 14</b>	1,391	31	Černý Most, Hloubětín*, Hostavice, Kyje
538175	Prague - Dolní Počernice	576	7	Dolní Počernice
547387	<b>Prague 15</b>	1,025	21	Horní Měcholupy, Hostivař
547379	Prague - Dolní Měcholupy	476	7	Dolní Měcholupy*
538205	Prague - Dubeč	850	4	Dubeč, Dolní Měcholupy*
547395	Prague - Petrovice	179	4	Petrovice
547409	Prague - Štěrboholy	297	7	Štěrboholy
539601	<b>Prague 16</b>	931	10	Radotín
539449	Prague - Lipence	821	3	Lipence
539465	Prague - Lochkov	272	4	Lochkov
547115	Prague - Velká Chuchle	602	11	Malá Chuchle, Velká Chuchle
539864	Prague - Zbraslav	985	12	Lahovice, Zbraslav
547174	<b>Prague 17</b>	326	7	Řepy
539899	Prague - Zličín	683	11	Sobín, Třebonice*, Zličín
547417	<b>Prague 18</b>	561	9	Letňany
547344	<b>Prague 19</b>	599	9	Kbely
547310	Prague - Čakovice	1,019	14	Čakovice, Miškovice, Třeboradice
538736	Prague - Satalice	380	4	Satalice
539007	Prague - Vinoř	600	3	Vinoř
538213	<b>Prague 20</b>	1,693	17	Horní Počernice
538949	<b>Prague 21</b>	1,014	5	Újezd nad Lesy
538060	Prague - Běchovice	683	7	Běchovice
538302	Prague - Klánovice	590	3	Klánovice
538353	Prague - Koloděje	375	3	Koloděje
538931	<b>Prague 22</b>	1,562	10	Hájek u Uhříněvsi, Pitkovice*, Uhříněves
538078	Prague - Benice	277	3	Benice
538361	Prague - Kolovraty	649	5	Kolovraty, Lipany u Kolovrat
538388	Prague - Královice	496	3	Královice
538531	Prague - Nedvězí	381	3	Nedvězí u Říčán

Source: ČSÚ, MHMP



## A2 POPULATION

Tab. A2.1 Population changes

	2001	2002	2003	2004	2005	2006
Total population (by 31 <sup>st</sup> December of respective year)	1,160,118	1,161,938	1,165,581	1,170,571	1,181,610	1,188,126
– Females	610,466	610,048	610,099	611,463	615,068	617,245
– Males	549,652	551,890	555,482	559,108	566,542	570,881
Mid-year population, total	1,164,682	1,158,800	1,161,851	1,165,617	1,176,116	1,183,576
– Females	612,867	609,381	609,191	609,819	612,969	615,628
– Males	551,815	549,419	552,660	555,798	563,147	567,948
Live births	9,681	9,690	10,057	11,131	11,943	12,530
Departed	13,210	13,333	13,488	12,849	12,673	12,274
Natural increase	–3,529	–3,643	–3,431	–1,718	–730	256
Natural increase per 1,000 inhabitants	–3.0	–3.1	–3.0	–1.5	–0.6	0.2
Immigrants	13,121	32,033	30,540	28,763	40,482	45,061
Emigrants	19,950	26,570	23,466	22,055	28,713	38,801
Net migration	–6,829	5,463	7,074	6,708	11,769	6,260
Net migration per 1,000 inhabitants	–5.9	4.7	6.1	5.8	10.0	5.3
Total increase	–10,358	1,820	3,643	4,990	11,039	6,516
Total increase per 1,000 inhabitants	–8.9	1.6	3.1	4.3	9.3	5.5
Population density per 1 km <sup>2</sup>	2,339	2,343	2,350	2,360	2,371	2,386

Source: ČSÚ

Tab. A2.2 Population Age

	2001	2002	2003	2004	2005	2006
Population						
Number of population (by 31 <sup>st</sup> December of respective year)	1,160,118	1,161,938	1,165,581	1,170,571	1,181,610	1,188,126
– Females	610,466	610,048	610,099	611,463	615,068	617,245
– Males	549,652	551,890	555,482	559,108	566,542	570,881
Population aged						
0–14	153,192	150,472	147,691	146,124	145,364	144,560
– Females	74,623	73,433	72,011	71,343	71,163	70,645
– Males	78,569	77,039	75,680	74,781	74,201	73,915
Population aged						
15–64	819,582	825,723	833,291	840,686	851,820	857,342
– Females	420,057	422,139	424,586	427,501	431,399	433,509
– Males	399,525	403,584	408,705	413,185	420,421	423,833
Population aged						
65 and older, including not determined	187,344	185,743	184,599	183,761	184,426	186,224
– Females	115,786	114,476	113,502	112,619	112,506	113,091
– Males	71,558	71,267	71,097	71,142	71,920	73,133
Average age of population	41.3	41.5	41.6	41.7	41.7	41.8
Life expectancy						
– Females	79.03	78.94	79.15	79.6	80.0	80.4
– Males	73.58	73.71	73.68	74.1	74.7	75.2

Classification according to the EU directives

Source: ČSÚ







## A2 POPULATION

Tab. A2.3 Population, houses and apartments in City Districts of Prague

City District		Area [ha]	Population			Houses*	Apartments*
Code	Name		Number of population by 31 <sup>st</sup> Dec 2005	Total increment	Number of population by 31 <sup>st</sup> Dec 2006	Permanent residents	Permanent residents
<b>500054</b>	<b>Prague 1</b>	550	31,964	-741	31,223	2,025	15,164
<b>500089</b>	<b>Prague 2</b>	419	47,913	-850	47,063	2,188	23,128
<b>500097</b>	<b>Prague 3</b>	650	70,481	-542	69,939	2,899	35,043
<b>500119</b>	<b>Prague 4</b>	2,419	129,181	-313	128,868	8,598	60,606
547042	Prague - Kunratice	810	6,894	377	7,271	1,061	1,899
<b>500143</b>	<b>Prague 5</b>	2,783	80,040	464	80,504	5,583	32,975
539678	Prague - Slivenec	759	2,191	65	2,256	620	691
<b>500178</b>	<b>Prague 6</b>	4,154	99,122	-218	99,263	8,553	43,808
547140	Prague - Lysolaje	248	998	56	1,054	198	291
547158	Prague - Nebušice	368	2,697	29	2,726	639	814
539589	Prague - Přední Kopanina	327	619	29	648	116	144
547271	Prague - Suchdol	512	5,942	223	5,806	1,192	1,978
<b>500186</b>	<b>Prague 7</b>	712	39,596	-171	39,425	1,394	19,076
547328	Prague - Troja	338	970	132	1,102	218	353
<b>500208</b>	<b>Prague 8</b>	2,180	99,840	415	100,255	5,465	43,964
538124	Prague - Březiněves	339	737	14	751	185	230
547298	Prague - Ďáblice	738	2,680	123	2,803	572	793
547301	Prague - Dolní Chabry	499	2,998	122	3,120	716	892
<b>500216</b>	<b>Prague 9</b>	1,298	44,415	974	45,389	1,948	19,168
<b>500224</b>	<b>Prague 10</b>	1,853	107,989	620	108,609	6,495	50,367
<b>547034</b>	<b>Prague 11</b>	979	79,337	-565	78,772	2,629	31,840
538400	Prague - Křeslice	343	556	54	610	95	110
539724	Prague - Šeberov	500	2,205	169	2,374	472	571
539791	Prague - Újezd	370	2,218	120	2,338	302	670
<b>547107</b>	<b>Prague 12</b>	2,332	54,252	85	54,337	3,017	21,168
547051	Prague - Libuš	526	9,170	320	9,490	989	2,740
<b>539694</b>	<b>Prague 13</b>	1,294	55,154	648	55,802	1,984	19,516
539635	Prague - Řeporyje	1,016	2,768	70	2,838	651	843
<b>547361</b>	<b>Prague 14</b>	1,391	41,641	700	42,341	2,590	13,994
538175	Prague - Dolní Počernice	576	1,949	61	2,010	537	645
<b>547387</b>	<b>Prague 15</b>	1,025	27,552	549	28,101	1,553	10,691
547379	Prague - Dolní Měcholupy	476	1,334	83	1,417	330	408
538205	Prague - Dubeč	850	2,294	169	2,463	549	698
547395	Prague - Petrovice	179	6,132	14	6,146	354	2,217
547409	Prague - Štěrboholy	297	1,151	131	1,282	282	325
<b>539601</b>	<b>Prague 16</b>	931	7,874	81	7,955	1,254	2,686
539449	Prague - Lipence	821	1,872	59	1,931	433	516
539465	Prague - Lochkov	272	590	-4	586	169	213
547115	Prague - Velká Chuchle	602	1,798	11	1,809	410	659
539864	Prague - Zbraslav	985	8,265	112	8,377	1,298	2,948
<b>547174</b>	<b>Prague 17</b>	326	24,391	154	24,545	1,022	8,703
539899	Prague - Zličín	683	3,244	93	3,337	432	1,100
<b>547417</b>	<b>Prague 18</b>	561	14,721	604	15,325	570	5,441
<b>547344</b>	<b>Prague 19</b>	599	4,918	246	5,164	813	1,762
547310	Prague - Čakovice	1,019	6,371	346	6,717	1,020	2,198
538736	Prague - Satalice	380	1,906	96	2,002	363	497
539007	Prague - Vinoř	600	3,001	78	3,079	557	916
<b>538213</b>	<b>Prague 20</b>	1,693	13,682	264	13,946	2,074	4,560
<b>538949</b>	<b>Prague 21</b>	1,014	8,178	300	8,478	1,562	2,504
538060	Prague - Běchovice	683	3,259	327	3,586	441	560
538302	Prague - Klánovice	590	2,818	19	2,837	684	919
538353	Prague - Koloděje	375	1,079	80	1,159	271	296
<b>538931</b>	<b>Prague 22</b>	1,562	5,145	124	5,269	990	1,715
538078	Prague - Benice	277	446	18	464	113	135
538361	Prague - Kolovraty	649	2,525	80	2,605	539	605
538388	Prague - Královice	496	322	-1	321	83	105
538531	Prague - Nedvězí	381	225	13	238	63	82
Total		49,609	1,181,610	6,516	1,188,126	82,160	496,940

\* Census 2001

Source: ČSÚ

## A3 HOUSES, APARTEMENTS

Tab. A3.1 Houses, apartments and facilities

	1980	1991	2001
Number of houses – total	77,827	83,267	88,200
of which permanently occupied	75,794	78,977	82,160
of which family houses	44,270	47,257	50,258
Number of apartments – total	461,984	516,293	551,243
of which permanently occupied	448,741	495,804	496,940
of which in family houses	59,757	58,836	63,642
Number of living rooms in permanently occupied apartments	901,969	1,107,062	1,162,928
Living space of permanently occupied apartments [m <sup>2</sup> ]	16,468,794	19,472,200	21,157,895
Facilities [%]			
gas network connection	75.3	77.2	73.9
drinking water mains supply	96.4	99.1	99.1
public sewerage	91.5	94.4	96.9
central heating	53.8	70.6	75.1
of which solid fuels fired	4.1	27.3	2.1
stoves	45.0	28.4	22.5
of which solid fuels fired	24.9	5.9	3.9

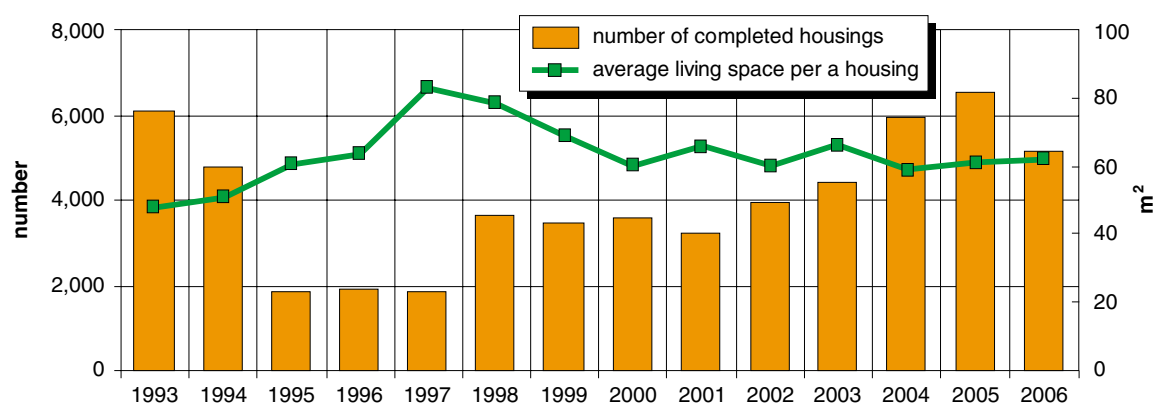
Source: ČSÚ Census 2001

Tab. A3.2 Housing construction

	2000	2001	2002	2003	2004	2005	2006
Started constructions	5,153	3,331	5,229	5,702	6,937	8,124	7,901
Under constructions	12,246	11,121	13,369	14,944	16,160	17,709	20,466
Completed housings	3,593	3,210	3,950	4,415	5,924	6,564	5,186
Average living area [m <sup>2</sup> per a housing]	68.2	65.9	60.0	66.3	59.2	61.0	61.7

Source: ČSÚ

Fig. A3.1 Completed housings



Source: ČSÚ

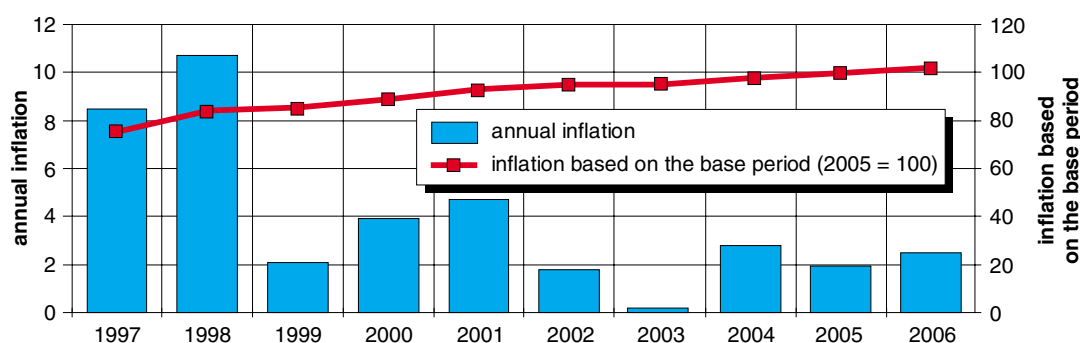
## A4 FINANCES, REVENUES, AND EXPENDITURES

**Tab. A4.1 Expenditures of the City of Prague itemized as Budget Chapters in CZK thousand**

Budget Chapter	Actual 2003	Actual 2004	Actual 2005	Actual 2006
Total expenditure	52,641,138	54,549,851	52,685,801.3	55,855,692.8
out of that:				
City development	2,522,844	3,580,627	2,436,329.6	2,066,756.4
City infrastructure	3,836,960	4,390,570	5,048,610.6	4,859,251.8
Transport	20,228,937	19,666,834	18,539,015.5	19,366,948.3
Education, youth and self-government	10,257,530	10,850,899	11,338,940.7	12,067,756.2
Health and social care	3,910,701	3,019,007	2,949,444.1	3,272,835.9
Culture, sports, and tourism	1,789,963	1,903,063	2,113,747.5	2,691,489.3
Security and safety	1,040,566	1,195,684	1,304,432.7	1,558,144.2
Economy	2,624,320	2,549,824	1,773,281.0	1,999,663.9
Internal administration	4,554,266	4,631,368	4,767,850.0	5,225,090.7
Treasury	1,875,051	2,761,975	2,414,149.6	2,747,756.1

Source: MHMP

**Fig. A4.1 Inflation rate – Czech Republic**



Note: inflation rate based on the base period (2000) = rate of inflation expressed as the increment of consumer price index related to the base period (year 2000 = 100)

Annual inflation = rate of inflation expressed as the increment of average yearly consumer price index

Source: ČSÚ

## A5 LABOUR, PRODUCTION, AND CONSUMPTION (SELECTED BRANCHES)

**Tab. A5.1 Employment – enterprise method (enterprises with 20+ employees)**

	2002	2003	2004	2005	2006*
Average numbers of employees in Prague (persons)	918,677	921,367	909,154	919,606	936,449
in branches:					
Agriculture, hunting, forest management, fishery	5,272	3,743	3,279	4,082	4,126
Industry	116,099	111,107	106,066	107,442	109,434
Building industry	37,166	36,348	36,932	38,352	38,720
Wholesale and retail trade, repair of motor vehicles and consumer goods	96,566	98,980	100,206	109,560	118,968
Hotels and restaurants	24,198	24,900	25,685	28,158	28,531
Transport, storage, travel agencies, communication	185,574	180,378	173,949	165,390	159,043
Financial intermediation	59,791	60,269	59,788	58,746	58,858
Real estate and business activities	91,929	93,768	97,918	104,346	114,303
Public administration, defence, compulsory social security	180,885	187,216	180,630	177,300	175,889
Education	48,418	47,159	47,080	47,376	47,940
Health care, veterinary care, social work	37,222	38,376	38,894	40,356	40,265
Other community, social and personal service activities	35,500	39,121	38,730	38,497	40,372
Average monthly salary [CZK]	19,901	21,073	22,443	23,792	25,281
Unemployment (by 31 <sup>st</sup> December of respective year)					
Job vacancies	7,685	8,482	14,598	11,119	16,192
Job applicants	23,691	25,448	26,727	24,571	21,364
Applicants on unemployment benefit	11,506	11,993	9,706	9,392	8,520
Unemployment rate [%]	3.73	4.02	3.58	3.25	2.72

\* preliminary data

Source: ČSÚ

**Tab. A5.2 Agriculture**

	2002	2003	2004	2005	2006
Agriculture land [ha]	21,110	21,047	20,985	20,870	20,788
Livestock [pieces]*					
Horses	3,097	2,797	2,809	3,613	3,777
Cattle	168,557	158,049	154,934	151,262	152,850
Pigs	513,539	438,596	415,646	407,398	437,434
Sheep and rams	7,763	10,388	12,247	13,293	16,913
Poultry	4,319,423	3,123,830	4,907,240	3,967,449	5,867,460

\* Prague and the Central Bohemia Region

Source: ČSÚ

## A5 LABOUR, PRODUCTION, AND CONSUMPTION

**Tab. A5.3 Industrial enterprises having 100 and more employees and with registered office on the city of Prague classified by CZ NACE**

	2002	2003	2004	2005	2006
Number of enterprises	233	227	226	225	227
Average number of registered employees (natural persons)	90,985	83,915	80,688	81,364	81,586
Revenues from sales of products and providing of industrial-nature services (in current prices) [CZK million]	221,145	225,892	230,894	252,638	288,095
Industry, total	233	227	226	225	227
of which					
Processing industry	220	213	210	208	209
of which					
Food, beverage and tobacco industry	35	31	32	31	30
Textile industry	12	12	8	10	8
Woodworking industry	6	6	5	4	6
Paper industry, publishing and printing	25	28	30	26	26
Chemical and pharmaceutical products	15	14	15	14	12
Rubber and plastics industry	7	7	5	7	7
Other non-metallic mineral products	14	18	17	19	20
Basic metals and fabricated metal products	17	15	14	17	19
Machinery and equipment for further production	18	20	19	19	20
Electro-technical and optical equipment	38	31	30	29	32
Transport vehicle production	18	19	21	17	17
Processing industries not mentioned elsewhere	14	11	12	13	11
Average monthly salaries [CZK]	19,665	21,414	23,181	24,486	26,460

Source: ČSÚ

**Tab. A5.4 Summary data on construction enterprises\***

	2002	2003	2004	2005	2006
Number of construction enterprises	310	310	341	364	366
Average number of registered employees (natural persons)	35,497	35,334	36,643	38,030	38,461
Construction work, total [CZK mill.]	80,961	90,335	100,377	109,831	115,383
out of that					
Work done in the CR	79,810	89,165	98,916	108,731	114,011
out of that					
New construction (incl. reconstructions and refurbishing)	70,986	77,518	88,389	98,372	102,953
Repairs and maintenance	8,728	11,434	10,366	10,113	10,797
Average monthly salaries [CZK]	20,979	22,728	24,152	25,623	27,361

\* Enterprises with 20+ employees having their registered office in the Central Bohemia Region

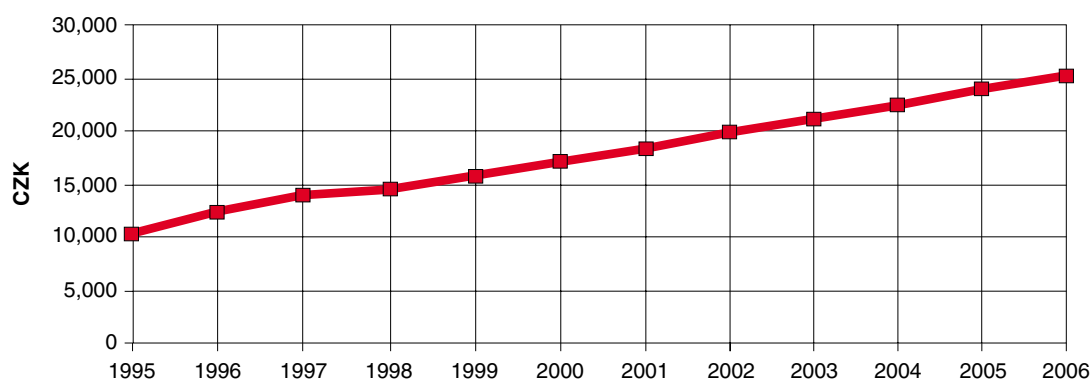
Source: ČSÚ

Tab. A5.5 Tourism

	2002	2003	2004	2005	2006
Guests in tourist accommodation facilities					
Number of persons, total	2,534,126	3,024,575	3,863,894	4,108,565	4,142,538
of which foreigners	2,231,683	2,648,896	3,470,211	3,725,180	3,702,116
Average stay (in days)	3.7	3.8	3.8	3.7	3.7
of which nonresidents	3.8	3.8	3.8	3.8	3.8

Source: ČSÚ

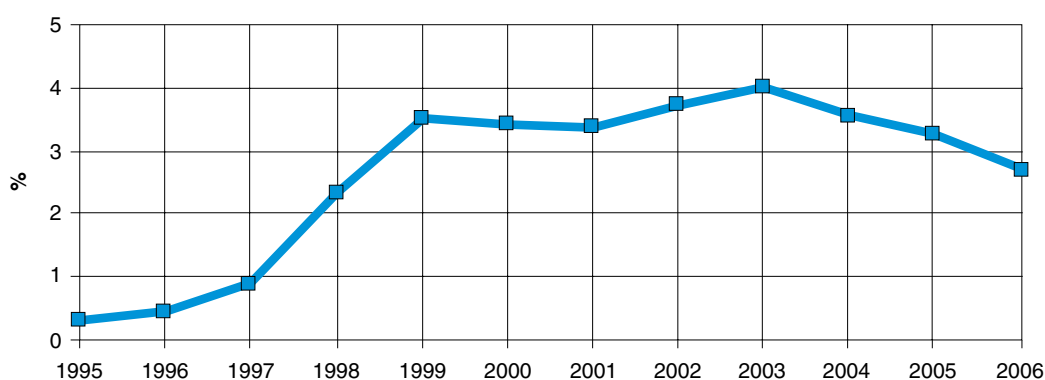
Fig. A5.1 Average monthly salaries



“Average monthly salaries” cannot be fully comparable because since the year 2000 it is determined by means of the “Enterprise method” and before the “Workplace method” was applied.

Source: ČSÚ

Fig. A5.2 Unemployment rate



Source: ČSÚ

## A6 ENERGY INDUSTRY

Tab. A6.1 Electricity

	2002	2003	2004	2005	2006
Grid length, total [km]	11,123	11,187	11,197.0	11,229	11,229
Voltage 110 kV	194	194	196.4	196	196
High voltage	3,546	3,632	3,580.7	3,556	3,476
Low voltage	7,382.6	7,354	7,419.9	7,477	7,557
Number of customers					
Number of mass-consumption customers	1,854	1,856	1,924.0	1,997	2,139
Number of retail-consumption customers					
of which enterprises	123,344	125,579	128,347.0	130,804	135,566
of which households	557,306	561,060	566,872.0	570,698	578,836
Electricity supply, total [GWh]	4,749	4,947	5,337.4	5,506	5,802
Number of mass-consumption customers	2,142.27	2,561	2,842.9	2,913	3,143
Number of retail-consumption customers					
of which enterprises	961	1,018.42	1,097.1	1,128	1,174
of which households	1,324	1,367.74	1,397.4	1,465	1,485

Source: PRE, a. s.

Tab. A6.2 Natural gas

	2002	2003	2004	2005	2006
Length of network, total [km]	3,869	4,001	4,147	4,216	4,273
Gas sale, total [mill. m <sup>3</sup> ]	1,125	1,163	1,133	1,113	1,068.6
Number of delivery points	434,607	436,294	437,997	438,769	439,817
Number of mass-consumption customers	151	144	143	142	138
Number of medium-consumption customers	982	1,011	1,044	1,041	1,027
Number of retail-consumption customers	32,530	35,122	36,209	37,470	38,035
Number of households served	399,220	399,060	399,911	399,499	400,001

Source: PP, a. s.

Tab. A6.3 Heating

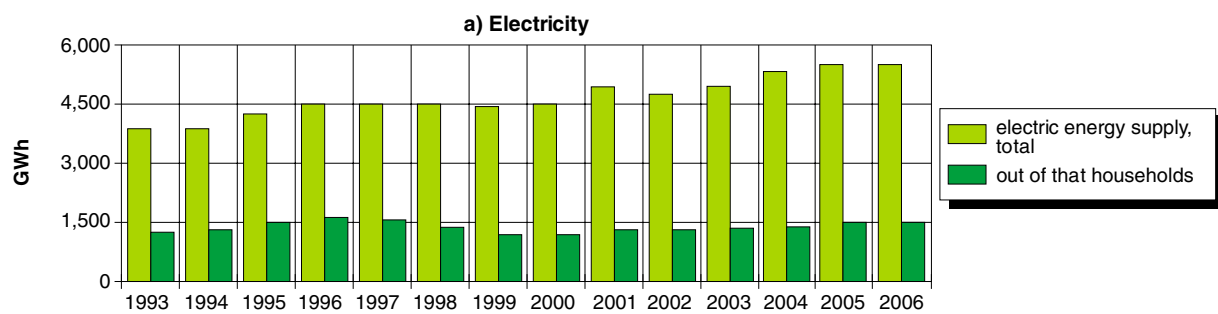
	2002	2003	2004	2005	2006
Length of heat ducts [km]	617.6	630	649	630	664
Number of heat exchangers	2,988	2,985	2,113	2,125	2,156
Heat production and purchase [TJ]	17,237	17,636	16,995	16,688	16,144
Heat sales, total [TJ]	14,709	15,062	14,801	14,346	13,900
Household consumption	9,498	9,630	9,438	9,065	8,649
Non-household consumption	5,211	5,432	5,363	5,281	5,251

The electricity market in the City of Prague has barely expanded in the last five years. The Prague Heat Utility Company supplies electricity to the Prague's grid. The Company supplies heat to 250,000 households.

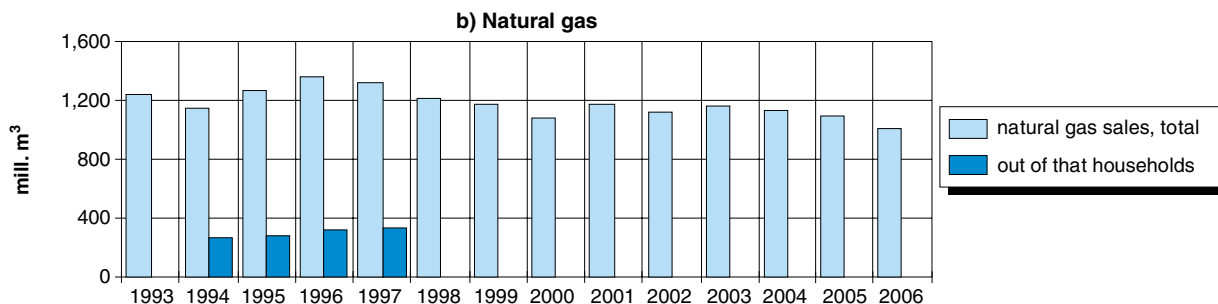
Source: PT, a. s.



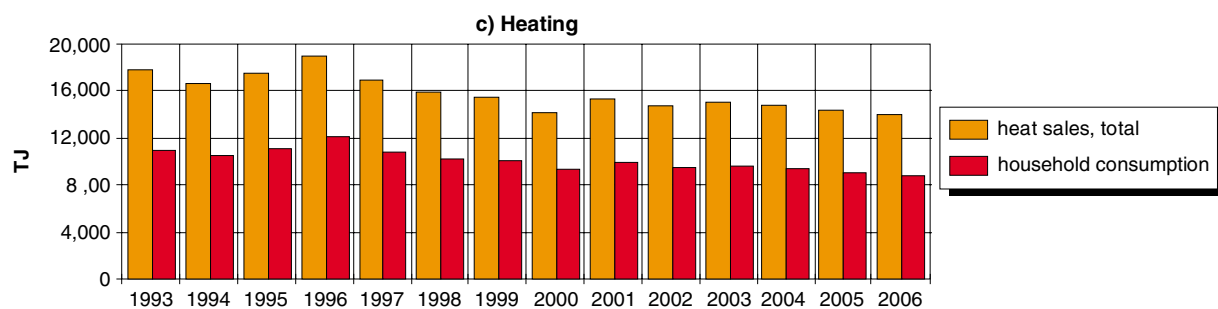
Fig. A6.1 Consumption of electricity, natural gas, and heat



Source: PRE, a. s.



Source: PP, a. s.



Source: PT, a. s.

### A7 TRANSPORT

Automotive transport is the phenomenon, which has been more and more substantially affecting the population and the urban environment as the number of vehicles grows and the traffic density increases. Thus it becomes a priority issue of large cities, especially Prague, which holds a specific position in the automotive traffic in the Czech Republic. The position is due to over average traffic intensities and transported volume compared to other Czech cities or highways and roads outside municipalities. The Institute of Transportation Engineering of the Capital City of Prague works on issues of automotive transport in Prague and monitors transport on a selected road network, which provided the background data for this chapter. The Institute finished its activities and his agenda became on Technical communication repair.

#### Development in motorization and motoring

The total number of motor vehicles registered on the Prague territory had been substantially growing till 1999. In 2006 the number of registered vehicles in Prague was 761,071, of which 605,774 were passenger cars, that makes nearly 4/5. The number of cars increased in 11,258 in year 2006, out of that number 3,435 were passenger cars. Data has been suffering with an error caused in the vehicle registration since 2003 as given in the note below.

Note: Till 2001 data on numbers of registered motor vehicles in Prague as well in the Czech Republic were taken from the Police of the Czech Republic. Since 2002 the data is taken from the new administrators of the data, which are the Department of Transport Administration Agenda of the Prague City Hall for Prague, and the Department of Transport Administration Agenda of the Ministry of Transport and Communications of the Czech Republic. The number of passenger cars in Prague in 2004 given is a professional assessment of the Institute of Transportation Engineering of the Capital City of Prague because the Prague data administrator did not distinguish respective types of vehicles registered after January 2002 till September 2003. Therefore the administrator had data on the total number of vehicles only. The Prague data administrator has been distinguishing all types of vehicles since October 2003, yet the fact is that the number of 654,700 registered vehicles by 31<sup>st</sup> Dec 2003 is by about 130,000 vehicles lower than the actual number. The administrator states for its defence that strategy of the calculation of registered vehicles was changed. This regulated program version should contribute to set up more precise overview correspond to the current number of operated vehicles in the City of Prague. The current software application gave by about 130,000 vehicles less (!) number of operated vehicles compared to the previous number.

#### Automobile traffic intensity on working days

The basic aggregated indicator of the automotive transport development in Prague is the road traffic volume (vehicle-kilometres traveled) on the whole communication network. The road traffic volume has been monitored by the UDI since 1978. Besides the road traffic volume trends on the development of road traffic in Prague are also determined by means of monitoring of rings, that is periodic counts of traffic at locations, which form a complete ring of all important roads entering the area designated. Time series on the inner ring and outer one since 1961 are available at the UDI.

Note: All data on the road traffic volume relate to the period 0–24 o'clock of an average working day. All data on automotive traffic are given excluding the buses of the public city transport.

In 2006 traffic census revealed stagnancy in central city and on the other side traffic increased in other territories of the city.

The overall automobile traffic increased by 1.9 % approximately compared to year the 2005.

In 2006 the automotive traffic **on the wider Prague's downtown territory** stayed basally the same compared to the year 2005. Yet compared to 1990 the wider City centre area was entered by 33 % vehicles more. The whole increase after 1990 has been going merely to passenger cars, because the numbers of trucks and buses, on the contrary, have dropped since 1990 by over halve (–62 %). In 2006 this area was entered by 318,000 vehicles from 0:00 to 24:00 on an average workday, out of that number 303,000 were passenger cars.

**In the middle City zone** the automotive traffic increased by 2–5 % compared to the 2005 figures. Since 1990 the transport within the middle City area has been steadily and significantly growing. On some roads in this zone transport increased up to four times.

**In the outer City zone** the automotive traffic intensity increased 7 % in 2006 against that of 2005. Compared to 1990 the number of vehicles coming to Prague from its surroundings has grown more than

3.5 times (+249 %). The prevailing portion of the increase after 1990 goes to passenger cars because the number of passenger cars has already grown more than four times (+317 %). In 24 hours of an average workday the City was entered by 269,000 vehicles, out of that 232,000 were passenger cars.

**The sections of heaviest traffic burden of the Prague's road network in 2006:**

- Barrandovský Bridge with 127,000 vehicles per day;
- Jižní spojka in between the Streets 5. května–Václavská with 125,000 vehicles per day;
- Brno Highway D1 in the section Chodovec–Chodov with 110,000 vehicles per day;
- Jižní spojka in between the Chodovská Street and V Korytech Street with 108,000 vehicles per day.

**The grade-separated crossings of heaviest traffic burden in Prague in 2006:**

- 5. května Street–Jižní spojka with 218,000 vehicles per day;
- Strakonická Street–Barrandovský Bridge with 168,000 vehicles per day;
- Jižní spojka–Václavská Street with 161,000 vehicles per day;
- Jižní spojka–Chodovská Street with 155,000 vehicles per day;
- Jižní spojka–Průmyslová Street with 129 vehicles per day.

**The crossings of heaviest traffic burden in Prague in 2006:**

- Anglická Street–Legerova Street with 79,000 vehicles per day;
- Poděbradská Street–Kbelská Street with 78,000 vehicles per day;
- Žitná Street–Mezibranská Street with 76,000 vehicles per day;
- Jiráskovo Square with 71,000 vehicles per day;
- Argentinská Street–Plynární Street with 71,000 vehicles per day.

**The pace of the automotive traffic intensity** was different in respective City zones. Over the period 1991–2006 the automotive traffic intensity increased as follows:

- in the whole network on average +178 %;
- on the wider City downtown area by +33 %;
- in the outer City zone by +249 %;
- in the middle City zone by +100 % to +300 %.

**Effects of automotive traffic on transport conditions in the City at large**

Prague encountered the first traffic issues, as a result of increasing number of automobiles, as early as in the 1930s. Due to the Second World War and the development afterwards the car traffic intensity in the City was suppressed in an important manner for a certain time. The fact, which is scarcely known, is, for example, that the degree of motorization of 1937, when there was one passenger car per 32 inhabitants of Prague, was attained again as late as in 1959 following the war and the post-war decrease. The progress in automobile transport since the beginning of the 1960s brought the creation of the well-known traffic issues again and one of them was the insufficient capacity of crucial crossings for the traffic volume. Queues of slowly passing vehicles were the consequence of the issue.

Compared to the present status these issues were, till the end of the 1980s, occurring at a rather small number of crucial crossings, mostly limited to the City downtown, and in the course of the day they were just short-time incidents occurring in rush hours only in most cases. It shall be considered that compared with 2006 the volume of automotive traffic in Prague in 1970 and in 1990 was 4.0 and 2.8 times lower, respectively.

**The rapid increase in automotive traffic in Prague in the 1990s created a situation completely different in terms of quality:**

- the overloading of the communication network has all-territory characteristic. The whole area of downtown and the adjacent middle annular area of the City in dimensions of approx. 7 × 6 km may be considered overloaded;

## A7 TRANSPORT

- traffic jams happen more often not in the downtown only yet in the major high-capacity communications as well;
- gradually, the difference in between rush hours and saddle periods has been decreasing;
- time of the day when capacity of governing crossings is fully used has been longer and longer, traffic jams are more and more frequent, covering larger areas and lasting longer. Environmental impacts of this “traffic in the way of stop-and-start travel” especially in the City downtown are obvious.

**The high increase in automotive traffic mode in Prague in recent years** has been caused by a number of factors, of which the decisive effects are as follows:

- the total number of trips across the City has been increasing, which is obviously related to the business development and changing lifestyle;
- the number of passenger cars coming daily to Prague from the rest of the national territory or from abroad has been increasing (in the period 1991–2005 the increase accounted for 290 %, i.e. almost four times more than in 1990);
- a portion of the City population ceased using the public city transport for their travels across the City and use passenger cars instead. The decrease in the number of passengers of the public city transport, which has been significant namely till 1998, and then the decrease stopped and since 2001 the number of passengers has been slightly growing.

**Tab. A7.1 Automotive traffic**

	2002	2003	2004	2005	2006
Length of road network [km]	3,508	3,520	3,538	3,538	3,775
highways	10	10	10	10	10
other speedways	76	76	76	76	76
Number of motor vehicles	775,014	784,700	735,350	749,786	761,071
out of that passenger cars	639,000	647,400	594,100	602,339	605,774
Number of motor vehicles per 1,000 inhabitants	667	673	628	635	640
Number of passenger cars per 1,000 inhabitants	550	555	507	510	510
Volume of the road network transport					
in average working day [mill. vehicle-km]	18.0	18.8	20.0	20.0	20.0
in a year [bn. vehicle-km]	6.0	6.0	7.0	7.0	7.0
Number of traffic accidents in a year	35,888	35,589	29,598	33,349	34,689
Relative accident rate (number of accidents per 1 million km)	6.0	5.7	5.0	5.0	5.0
Automotive traffic intensity in the centre (1,000 vehicles/day; 6:00-22:00) both directions	590	590	587	574	578

Source: ÚDI

**Tab. A7.2 Public city transport**

	2002	2003	2004	2005	2006
Length of the public city transport, total [km]	873	877	883	870	878
Underground	50	50	54	54	55
Tramways	138	141	141	141	141
Buses	685	686	688	676	682
Vehicle-kilometres, total [thousand]	149,743	152,982	157,427	158,790	158,537
Underground	35,581	40,181	44,705	46,602	46,976
Tramways	49,883	47,756	49,702	49,330	49,606
Buses	64,279	64,955	63,020	62,858	61,955
Passengers transported in a year [mill. of persons]	1,096	1,108	1,133	1,185	1,221
Underground	416	459	496	515	531
Tramways	358	335	343	340	349
Buses	322	314	294	330	340

Source: ÚDI







### **Bicycle transport in the City of Prague**

The concept of development of the basic network of bicycle routes on the territory of the City of Prague was approved by the City Council in 2003. It assumed a gradual implementation of approximately 450 km of bicycle routes across the entire City. In October 2006 the Prague City Council took into account the proposal for the New System of Numerical Marking of Bicycle Routes on the Territory of the City of Prague, which follows the concept and expands the bicycle network across the City to approximately 670 km. There is a Commission for bicycle transport at the Prague City Hall dealing with bicycle transport development in cooperation with the City organizations and respective City Districts (see [doprava.praha-mesto.cz/cyklo](http://doprava.praha-mesto.cz/cyklo)).

The bicycle routes run on bicycle paths reserved to cyclists only, roads, where bicycle traffic is running in parallel to pedestrians, or roads of low intensity of automotive traffic, as the local conditions allow. The bicycle routes of the basic system are marked on site by means of the direction marking for cyclists are in information materials (first of all printed and dynamic maps) added with so-called verified or recommended bicycle routes, which are a functional precursor to the formation of high-quality whole City covering network of bicycle communications.

By the end of 2007 the bicycle routes under operation encompassed about 334 km of routes of the City basic system (apart thereof in the new system). Out of that 126 km runs on roads without any automotive traffic along with pedestrian traffic, or on newly built separate bicycle roads.

In 2007 rather important constructions and improvements were implemented as follows:

- building under construction bicycle route Zbraslav–Komořany (1.6 km, the cycling route A 2);
- reconstruction of bicycle route near Podolský Harbor (0.3 km, the cycling route A 2);
- building under construction bicycle route Jinočanská spojka (1.0 km, the cycling route A 12);
- completed bicycle route through the Rohanský Island (0.6 km, the cycling route A 2);
- completed bicycle route Brusnice–Pohořelec (0.8 km, the cycling route A 15);
- marking of designated lane in the main traffic area of the Pobřežní Street;
- marking of designated lane in the main traffic area (Chotkova Street, Štefánik Bridge – the cycling routes A 15, A 251);
- second period of paving of cycling route Juliána–Přední Kopanina (0.5 km, the cycling route A 17);
- marking of cycling routes in the area of Prague 11 (the cycling routes A 22, A 41 and A 215);
- renewal of the pavement of the bicycle route Troja–Zámky the third ferry (the cycling route A 2);
- opening both direction passage in the K Radonicům Street (1.1 km, the cycling route A 241);
- renewal of the third ferry (in Lihovar–Veslařský Island, since 17<sup>th</sup> July 2007) as a part of the Prague Integrated Transport System (connects the cycling routes A 1 and A 2);
- modifications to the flag pavement of the right-bank alluvial plane in Nové Město (the cycling routes A 2);
- modifications to the flag pavement of the right-bank alluvial plane in Staré Město (the cycling routes A 2);
- local repairs to pavement and equipment of bicycle routes.

The year 2007 brought more intensive interlacing the bicycle adjustments with building under construction and reconstruction projects. Realizations of these constructions enable significant improvement for bicycle transport in following years.

Updated and complete information on bicycle transport can be found at the Internet pages of the City of Prague at the address [doprava.praha-mesto.cz/cyklo](http://doprava.praha-mesto.cz/cyklo). For the recreational use, the application called Around Prague along the Creeks at [envis.praha-mesto.cz/podelpotoku](http://envis.praha-mesto.cz/podelpotoku) can be the good supplement, too. The application introduces Prague from routes running along great as well as small watercourses.



