

Tab. 1 Air pollution monitoring localities, based on the owner, Czech Republic, 2009

Zone / agglomeration	CHMI	ZÚ	ČEZ	P+S	KMon	Total
Agglomeration Brno	6	2	–	–	5	13
Agglomeration Prague	15	7	–	–	–	22
Zone South Bohemian region	8	2	–	–	–	10
Zone South Moravian region	5	1	–	–	–	6
Zone Karlovy Vary region	5	4	1	–	–	10
Zone Hradec Králové region	9	1	–	–	–	10
Zone Liberec region	9	2	–	–	–	11
Agglomeration Moravian-Silesian region	23	4	2	–	1	30
Zone Olomouc region	5	1	–	–	2	8
Zone Pardubice	5	2	1	–	1	9
Zone Plzeň region	5	2	–	–	5	12
Zone Central Bohemian region	11	9	–	2	–	22
Zone Ústí nad Labem region	19	10	9	1	–	39
Zone Vysočina region	7	3	–	–	–	10
Zone Zlín region	4	1	–	–	2	7
Total	136	51	13	3	16	219

Explanatory notes:

ZÚ Health Institute [incl. ZÚ Kolín (3)+ HEL Cheb (1)]

P+S industry [ČESRAF (1), Vápenka Čertovy schody, a.s. (1)] + education [SŠZE Žatec(1)]

KMon municipal monitoring [MÚ Třinec (1), Město Plzeň (5), MÚ Pardubice (1),
Město Šumperk (1), Město Olomouc (1), Město Zlín (1), Statutární město Brno(5), Město Valašské Meziříčí(1)]

Tab. 2 Air pollution monitoring localities measuring basic pollutants, AMS, based on the owner, Czech Republic, 2009

Zone / agglomeration	SO ₂		NO, NO ₂ , NO _x		PM ₁₀		O ₃		CO		BTX	
	CHMI	¹ Others SN	CHMI	¹ Others SN, MÚ Třinec, SŠZE Žatec, VČs	CHMI	² Others P	ČHMÚ	³ Others O	CHMI	ZÚ, Město Plzeň, VČs, Statutární město Brno	CHMI	Město Plzeň, MÚ Pardubice, ČESRAF
Agglomeration Brno	1	5	3	5	2	5	2	2	2	5	1	–
Agglomeration Prague	10	–	15	–	14	–	8	–	6	6	4	–
Zone South Bohemian region	4	2	4	2	2	1	5	1	2	1	2	–
Zone South Moravian region	2	–	2	1	2	1	2	1	–	–	1	–
Zone Karlovy Vary region	3	2	4	2	4	1	2	–	1	–	1	–
Zone Hradec Králové region	4	1	4	1	3	1	4	1	1	1	1	–
Zone Liberec region	5	–	4	–	5	–	2	–	1	–	–	–
Agglomeration Moravian-Silesian region	13	4	14	4	13	3	6	2	2	–	4	–
Zone Olomouc region	2	2	3	3	3	1	3	3	1	–	1	–
Zone Pardubice	1	4	2	4	1	2	2	1	1	1	1	1
Zone Plzeň region	2	7	2	7	1	6	2	4	1	4	–	1
Zone Central Bohemian region	5	2	6	3	5	2	3	–	2	1	1	1
Zone Ústí nad Labem region	12	9	15	10	14	1	10	1	3	–	4	–
Zone Vysočina region	2	1	3	2	3	2	3	1	2	–	1	–
Zone Zlín region	1	1	2	1	2	–	2	1	1	–	1	–
Total	67	40	83	45	74	26	56	18	26	19	23	3
Total	107		128		100		74		45		26	

Explanatory notes:

¹Others SN: ZÚ, ČEZ, ČESRAF, Město Plzeň, Město Zlín, Město Šumperk, Město Olomouc, Statutární město Brno, MÚ Pardubice

²Others P: ZÚ, ČESRAF, Město Plzeň, Statutární město Brno, MÚ Třinec, SŠZE Žatec

³Others O: ZÚ, Město Plzeň, Město Zlín, Město Šumperk, Město Olomouc, Statutární město Brno, MÚ Pardubice, SŠZE Žatec

BTX Includes measurement of aromatic hydrocarbons: benzene, toluene, ethylbenzene, o-xylene, m-xylene, p-xylene, m,p-xylene.

Note: At certain stations the above measuring programme may be limited.

Tab. 3 Air pollution monitoring localities measuring other pollutants and supplementary quantities, AMS, based on the owner, Czech Republic 2009

Zone / agglomeration	PM _{2,5}		PM ₁	H ₂ S	NH ₃	Hg ⁰	Meteo	
	CHMI	ZÚ, Město Plzeň, Statutární město Brno, VČs	Statutární město Brno	ZÚ	CHMI	CHMI	CHMI	Others
Agglomeration Brno	1	3	3	–	–	–	1	5
Agglomeration Prague	4	–	–	–	–	–	6	–
Zone South Bohemian region	1	–	–	–	–	–	3	1
Zone South Moravian region	–	–	–	–	1	–	2	–
Zone Karlovy Vary region	1	–	–	–	–	–	4	1
Zone Hradec Králové region	1	–	–	–	–	–	4	–
Zone Liberec region	1	–	–	–	–	–	4	–
Agglomeration Moravian-Silesian region	5	1	–	1	–	–	13	5
Zone Olomouc region	1	–	–	–	–	–	3	–
Zone Pardubice	1	–	–	–	1	–	1	2
Zone Plzeň region	–	1	–	–	–	–	1	3
Zone Central Bohemian region	2	1	–	–	–	–	4	2
Zone Ústí nad Labem region	3	–	–	–	1	1	13	10
Zone Vysočina region	1	–	–	–	–	–	2	–
Zone Zlín region	1	–	–	–	–	–	3	–
Total	23	6	3	1	3	1	64	29
Total	29		3	1	1	1	93	

Explanatory notes:

Others ZÚ, ČEZ, MÚ Třinec, Město Plzeň, MÚ Pardubice, Statutární město Brno, ČESRAF, SŠZE Žatec, VČs

Meteo Measurement of meteorological parameters:

WV- wind velocity, WD - wind direction, T10m - temperature 10 m above terrain, T2m - temperature 2 m above terrain, h - relative air humidity, p - atmospheric pressure, RAIN - precipitation amount, GLRD - global radiation

Note: At certain stations the above measuring programme may be limited.

Tab. 4 Air pollution monitoring localities measuring basic pollutants, manual methods, based on the owner, Czech Republic 2009

Zone / agglomeration	SO ₂		NO ₂		PM ₁₀		HM		SPM		NO _x
	CHMI	ZÚ (incl. ZÚ Kolin + HEL Cheb)	CHMI	ZÚ (incl. ZÚ Kolin + HEL Cheb)	CHMI	ZÚ (incl. ZÚ Kolin + HEL Cheb), KMon	CHMI	ZÚ (incl. ZÚ Kolin + HEL Cheb)	CHMI	ZÚ (incl. ZÚ Kolin + HEL Cheb)	ZÚ (incl. ZÚ Kolin + HEL Cheb)
Agglomeration Brno	1	–	3	2	4	2	1	2	–	–	–
Agglomeration Prague	1	–	1	7	3	6	1	7	–	3	–
Zone South Bohemian region	2	–	2	–	3	–	2	1	–	–	–
Zone South Moravian region	1	–	2	–	3	–	1	1	–	–	–
Zone Karlovy Vary region	1	2	1	1	1	1	1	1	–	2	2
Zone Hradec Králové region	3	–	3	–	6	–	2	1	–	–	–
Zone Liberec region	3	–	3	–	5	2	3	2	–	–	–
Agglomeration Moravian-Silesian region	6	–	5	1	9	2	5	4	–	2	–
Zone Olomouc region	2	–	2	–	3	2	1	1	–	–	–
Zone Pardubice	4	–	4	–	5	–	2	2	–	–	–
Zone Plzeň region	2	–	2	–	3	–	1	2	–	–	–
Zone Central Bohemian region	5	3	5	6	5	8	1	9	–	–	–
Zone Ústí nad Labem region	4	5	4	6	10	8	3	6	–	–	5
Zone Vysočina region	3	–	4	–	3	1	1	3	1	–	1
Zone Zlín region	1	–	1	1	2	3	1	1	–	–	–
Total	39	10	42	24	65	35	26	43	1	7	8
Total	49		66		100		69		8		8

Explanatory notes:

KMon municipal monitoring [Město Šumperk (1), Město Olomouc (1), Město Zlín (1), Město Valašské Meziříčí(1)]

HM Includes measurement of the following elements:
Al, As, Cd, Pb, Cr, Ni, Be, Hg, Hg⁰, Mn, Fe, Cu, Zn, V.

Note: Simultaneous HM in PM₁₀ and in PM_{2.5} are counted once, simultaneous HM in PM₁₀ and in TSP are counted once
ZÚ only aggreg. 24h data: CO: Prague and Ústí nad Labem region - 1 measurement;
ozone: Ústí nad Labem region - 3 measurements
At certain stations the above measuring programme may be limited.

Tab. 5 Total number of monitoring localities with special measurements, manual methods, based on the owner, Czech Republic, 2009

Zone / agglomeration	VOC	POPs		PM _{2.5}		NH ₃	SNO ₃ ⁻ SNH ₄ ⁺ SO ₄ ²⁻	CS ₂	H ₂ S
	CHMI	CHMI	ZÚ	CHMI	ZÚ	ZÚ	CHMI	ZÚ	ZÚ
Agglomeration Brno	2	1	1	-	-	-	-	-	-
Agglomeration Prague	2	2	1	2	1	-	1	-	-
Zone South Bohemian region	-	1	-	-	-	-	-	-	-
Zone South Moravian region	-	2	-	-	-	-	-	-	-
Zone Karlovy Vary region	2	1	-	-	-	-	-	-	-
Zone Hradec Králové region	-	1	1	3	-	-	-	-	-
Zone Liberec region	1	1	-	-	-	-	-	-	-
Agglomeration Moravian-Silesian region	1	5	3	2	-	-	-	-	-
Zone Olomouc region	1	1	-	-	-	-	-	-	-
Zone Pardubice	-	1	-	2	-	-	1	-	-
Zone Plzeň region	-	1	1	-	-	-	-	-	-
Zone Central Bohemian region	-	2	-	-	-	-	-	-	-
Zone Ústí nad Labem region	2	4	1	4	-	1	-	2	4
Zone Vysočina region	2	1	1	1	-	-	1	-	-
Zone Zlín region	-	1	-	-	-	-	-	-	-
Total	13	25	9	14	1	1	3	2	4
Total	13	34		15		1	3	2	4

Explanatory notes:

VOC Includes measurement of separately analyzed hydrocarbons:

benzene, methane, ethane, ethene, propane, propene, i-butane, n-butane, acetylene, sum of butene, i-pentane, n-pentane, sum of pentene, methyl cyclopentane, n-hexane, cyclohexane, n-heptane, isoprene, toluene, ethylbenzene, m,p-xylene, o-xylene, nonane, 2+3 methylpentane, 2+3 methylhexane, cyclopentane, 2,2-dimethylbutane, 2,3 dimethylbutane, 2+3 methylheptane, i-octane, n-octane, sum of xylenes, styrene, chloromethane, trichloromethane, chlorbenzene, sum of dichlorbenzenes, sum of trimethylbenzenes, dichloromethane, tetrachloromethane, karbon tetrachloride, trichlorethylene, tetrachlorethylene, trichlorethane, Freon 11, Freon 113, Freon 12.

POPs Includes measurement of persistent organic pollutants:

anthracene, acenaphtene, acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, phenanthrene, fluorene, fluoranthene, ideno(1,2,3-cd)pyrene, naphtalene, pyrene, alpha-HCH, beta-HCH, delta-HCH, gamma-HCH, hexachlorbenzene, PAHs, PCP28, PCB52, PCB101, PCB118, PCB138, PCB153, PCB180, p,p'-DDD, p,p'-DDE, p,p'-DDT, coronen

Note: At certain stations the above measuring programme may be limited.