List of abbreviations and explanatory notes

Tabular part of air pollution characteristics

Tables:

Summary overviews of limit values exceedences according to the Regulation No. 350/2002 of the Ministry of Environment of the Czech Republic and max. values at stations of the Czech Republic in 2003

bold –	exceedence of air pollution limits LV+ MT (the condition of the tolerated number of exceedences TE needn't be fulfilled) assuming that the data fulfil the requirements for validity of data for calculation of the annual air pollution characteristics
dark grey background –	exceedence of air pollution limits LV+MT incl. the condition of the tolerated number of exceedences TE assuming that the data fulfil the requirements for validity of data for calculation of the annual air pollution characteristics
light grey background –	exceedence of air pollution limits LV incl. the condition of the tolerated number of exceedences TE assuming that the data fulfil the requirements for validity of data for calculation of the annual air pollution characteristics

Organizations

Abbreviation	Organization
ČEZ	ČEZ Inc.
ČGS	Czech Geological Survey
ČHMÚ / CHMI	Czech Hydrometeorological Institute
Ekx	Ekotoxa
FP	FRANTSCHACH PULP@PAPER, a.s. ŠTĚTÍ
HBÚ AV ČR	Hydrobiological Institute AS CR
HS	Public Health Service
IFER	Institute for Forest Ecosystems Research
IMGW	Institute of Meteorology and Water Management, Wroclaw, Poland
LfUG	Landesamt für Umwelt und Geologie Dresden, FRG
MPl	Plzeň City
MÚPa	Municipal Authority of the town Pardubice
MÚTř	Municipal Authority of the town Třinec
OÚŠu	District Authority in Šumperk
PIOS	State Inspectorate for Environmental Protection, Poland
SZÚ	National Health Institute
VÚLHM	Forest Management and Gamekeeping Research Institute
VÚRV	Research Institute of Plant Production
VÚV	Water Management Research Institute T.G.M.
WIOS	Wojewódzki Inspektorat Ochrony Środowiska, Poland

Measured substances and quantities – air pollution

Abbreviation	Measured substance / quantity
А	anthracene
Ac	acenaphthene
ACET	acethylene
Acl	acenaphthylene
alpha-HCH	alpha-HCH
As	arsenic
BaA	benzo(a)anthracene
BaP	benzo(a)pyrene
BbF	benzo(b)fluoranthene
Be	beryllium
beta-HCH	beta-HCH
BghiPRL	benzo(g,h,i)perylene
BkF	benzo(k)fluoranthene
BZN	benzene
CCl4	tetrachlormethane, carbontetrachlor
Cd	cadmium
CLB	chlorbenzene
ССБ	chloromethane
CM CO	
CO COR	carbon monoxide
	coronen
СР	cyclopentane
Cr	chromium
CRY	chrysene
CS2	carbon disulphide
Cu	copper
DBahA	dibenzo(a,h)anthracene
DCLs	sum of dichlorbenzenes
DCM	dichlormethane
delta-HCH	delta-HCH
DMB22	2,2-dimethylbutane
DMB23	2,3-dimethylbutane
EBZN	ethylbenzene
ETAN	ethane
ETEN	ethene
F11	Freon 11
F113	Freon 113
F12	Freon 12
Fe	iron
FEN	phenanthrene
Fl	fluorene
FLU	fluoranthene
gamma-HCH	gamma-HCH
GLRD	global radiation
h	relative air humidity
H2S	hydrogen sulfide
HCB	hexachlorbenzene
НСН	hexachlorcyclohexane
Hg	mercury
I_OKT	i-octane
I123cdP	ideno(1,2,3,-cd)pyrene
IBUT	i-butane
IPEN	i-pentane
ISOP	isoprene
MCPT	methyl cyclopentane
MH23	2+3 methylhexane
MHP23	2+3 methylheptane
Mn	manganese
MP23	2+3 methylpentane
MPZ5 MPXY	m,p-xylene
	m,p-xylene

Abbreviation	Measured substance / quantity
MXY	m-xylene
N	naphtalene
N_OKT	n-octane
NBUT	n-butane
NH3	ammonia
NHEP	n-heptane
NHEX	n-hexane
Ni	nickel
NO	nitrogen monoxide
NO2	nitrogen dioxide
NONN	nonane
NOx	nitrogen oxides
NPEN	n-pentane
03	ozone
OXY	o-xylene
р	atmospheric pressure
PAHs	polycyclic aromatic hydrocarbons - sum
PAHs_TEQ	toxic equivalent of sum PAHs
Pb	lead
Pb207/206	isotopic ratio 207Pb/206Pb
Pb208/206	isotopic ratio 208Pb/206Pb
PCB28	PCB28
PCB52	PCB52
PCB101	PCB101
PCB118	PCB118
PCB138	PCB138
PCB153	PCB153
PCB180	PCB180
PCBs	polychlorinated biphenyls - sum
PeCB	pentachlorbenzene
PM10	PM10
PM2,5	PM 2.5
pp-DDD	p,p'-DDD
pp-DDE	p,p'-DDE
pp-DDT	p,p'-DDT
PRPA	propane
PRPE	propene
PXY	p-xylene
PYR	pyrene
RAIN	precipitation amount
Rb	rubidium
SBUT	sum of butene
Sb	antimony
Se	selenium
SO2	sulphur dioxide
SNH4	surplut doxide
SNO3	sum of nitrate ions
SPM	supported particulate matter
SPTN	suspended particulate matter
STYR	styrene
Т	temperature (unspecified)
T10m	temperature (unspecified) temperature 10 m above terrain
T2m	temperature 2 m above terrain
TCE	trichlorethane
TCL	trichlormethane
TCM	trichlorethylene
TECE	tetrachlorethylene
TLN	toluene
TMBs	sum of trimethylbenzenes
V	vanadium
WD	wind direction

Abbreviation	Measured substance / quantity
WROSE	wind rose
WV	wind velocity
XYs	sum of xylenes
Zn	zinc

Measured substances and quantities – chemical composition of precipitation and atmospheric deposition

Abbreviation	Measured substance / quantity
Al	aluminium particles
Са	calcium particles
Cd	cadmium particles
Cl	chlorine particles
cond	conductivity
F	fluorine particles
Fe	iron particles
K	potassium particles
Mg	magnesium particles
Mn	manganese particles
Na	sodium particles
NH ₄	ammonium particles
Ni	nickel particles
NO ₃	nitrate - particles
Pb	lead particles
pH	pH
rain	precipitation amount (rain am.)
SO ₄	sulphate - particles
Zn	zinc particles

Measuring methods – air pollution

Abbreviation	Method
AAS	atomic absorption spectrometry
AFS	low-temperature gas atomic fluorescence spectrometry
APRESS	atmospheric pressure measurement
BERTH	Berthelot method - spectrophotometry
САР	capacitance sensor
CLM	coulometry
ELMAG	electromagnetic method
FUCEL	el. fuel cell
GCH-FID	gas chromatography - flame-ionization detection
GCH-MS	gas chromatography - mass spectroscopy (for PAH)
GCH-PID	gas chromatography - photo-ionization detection
GCH-VOC	gas chromatography - volatile org. compounds
GRV	gravimetry
GUAJA	guajacol (modif. Jakobs-Hochheiser) method - spectrophotometry
HAIR	hair hygrometer
HPLC	high performance liquid chromatography
CHLM	chemiluminescence
IC	ion chromatography
IC ICP-AES	inductively coupled plasma - atomic emission spectrometry
ICP-MS	inductively coupled plasma - atomic emission spectrometry
IRABS	IR correl. absorption spectrometry
OPEL	optoelectronic method
PD	passive sampler
PD PT100	resistance method
PUF+QUARTZ	PUF+QUARTZ
PUF-GCH	PUF+QUARIZ PUF - gas chromatography
QUARTZ-GCH	QUARTZ - gas chromatography
RADIO	radiometry - beta ray absorption
RAIN	standard rain gauge
SKIN	animal skin
TDM	temperature difference method
TEOM	tapered element oscillating microbalance (TEOM)
TLAM	triethanolamine spectrophotometry
U-SONIC	ultrasonic anemometer
UVABS	UV-absorption
UVFL	UV-absorption UV-fluorescence
WGAE	
XRF	spectrophotometry with TCM and fuchsin (West-Gaeke)
ΛΚΓ	X-ray fluorescence

Measuring methods – chemical composition of precipitation and atmospheric deposition

Abbreviation	Method
RAIN	by weight
PTELDA	conductometry (platinum electrode)
ISE-I	potenciometry (ion selective electrode)
IC	ion chromatography
HPLC	high performance liquid chromatography
SFA	spectrophotometry
FAAS	flame atomic absorption spectrometry
GF AAS	graphite furnace atomic absorption spectrometry
ICP-OES	inductively coupled plasma- optical emission spectroscopy
KOLV	pyrocatechol violet colorimetric method
KOLT	thiocyanate colorimetric method

Measurement intervals – air pollution

Abbreviation	Description
10 min/3 dint	10-minute sample twice a week at 12:00
30 min	measured half-hour concentration
24 h	measured average daily concentration
24 h/1-4 dint	24-h sample once in 1-4 days
24 h/2 dint	24-h sample once in 2 days
24 h/3 dint	24-h sample once in 3 days
24 h/5 dint	measured 24-h concentration once in 5 days
24 h/6 dint	measured 24-h concentration once in 6 days
24 h/7 dint	measured 24 h concentration once in 7 days
7 d/ 1 mint	measured weekly concentration once in a month
7 d/1 qint	measured weekly concentration once in a quarter
14 d	measured 14-day concentration
14 d/1 mint	measured 14-day concentration once in a month
14 d/1 qint	measured 14-day concentration once in a quarter

Measurement intervals – chemical composition of precipitation and atmospheric deposition

Abbreviation	Description
irregular	irregular samples
1M	monthly samples
7d	weekly samples

Other abbreviations

Abbreviation	Description
4MV, 19MV, 25MV,	$4^{\text{th}}, 19^{\text{th}}, 25^{\text{th}}, 36^{\text{th}}$ highest value in a calendar year for the given time interval
36MV	4, 19, 25, 50 nighest value in a calendar year for the given time interval
50%kv	50th percentile
90%kv	90th percentile
95%kv	95th percentile
98%kv	98th percentile
99.9%kv	99.9th percentile
AIM	automated air pollution monitoring
AMS	automated monitoring station
C1q, C2q, C3q, C4q	number of values from which the arithmetic average is calculated for the given quarter
cond	measured sample conductivity
č.p.	absolute frequency of exceedence of IH _d
č.p.%	relative frequency of exceedence of IH _d
DAT.	date of occurrence of MAX.
dv	length of the longest continuous failure
EKO zóna/zone	Protected areas with regard to the limit values for the protection of ecosystems and
	vegetation:
	Territories in which the Governmental Regulation requires meeting the limit values for the
	protection of ecosystems and vegetation:
	a) national parks (NP) and protected landscapes (CHKO)
	b) territories with the altitude ≥ 800 meters
	c) other selected forested areas published in the Bulletin of the Ministry of the
	Environment
KMPL	code of measuring programme in the given locality
LV	limit value
MAX.	hourly, 8-hour or daily maximum for the year
MAX8h	daily maximum for the year for ozone
	in the time period $9:00 - 17:00$ UTC
mc	monthly measurement frequency
MP	measuring programme
MT	margin of tolerance
Ν	number of measurements in the year
pLV	number of LV exceedences
pMT, pLV+MT	number of LV+MT exceedences
úhrn/rain	precipitation amount measured by the standard method directly at the sampling site or at a
	station that can be meteorologically considered to be representative for the given site
S	standard deviation
SG	standard geometric deviation
SRS	information, alert and control system
TE	tolerated number of exceedences
VoL	number of LV exceedences
VoM	number of LV+MT exceedences
X	annual arithmetic average
X1q, X2q, X3q, X4q	quarterly arithmetic average
XG	annual geometric average