



Report: Official data on pesticide residues in water in Czech Republic, 2004/2005
by M.Veverka and D. Lesinsky, CEPTA, Slovakia

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WATER Type

Ground water

Country

The Czech Republic

Name of the responsible authority (for analyses)

Czech Hydrometeorological Institute (The institute sets the task of do

Name of the responsible person

RNDr. Darina Remenárová – Department of Water Quality

Website

<http://hydro.chmi.cz/ojv2/>

Email/phone/fax

Email: remenarova@chmi.cz

tel.: 00420 244032341

Form of the available data

- On-line water c
- data for the wh

Availability of data

· <http://hydro.chmi.cz/ojv2> on-line water quality database

· data for the water quality

Availability of an English version

YES (on-line water quality database)

Evaluate transparency (from 1 – perfect = guided info on-line on the web)

2 – you will find it on the web, but it is not easy to find

3 – you will get it on request for free

4 - you will get it but you have to pay

5 – failed no data available/accessibile

3

Legislation:

List the national regulation of pesticide residue monitoring

- "Water law" No
- Regulation of T

Is the EU-harmonisation completed?

yes

Reflect the monitoring activities and objectives of European Water Fra

yes [1]

Structure of the monitoring:

List activities to improve or to extend the capacity of monitoring

· cooperation with

· in 2000 – 2005

Is there a central or federal system of monitoring?

Central

Who collect the data (official agencies, water c

official agency - Czech Hydrometeorological In

Data:

Year

2005

No. of measured sites/samples

No. of different pesticides analysed for

No. of different pesticides found

463 sites/923 samples

37

19

[1]

No. of sites/samples without residues (%)

No. of sites/samples with residues below

No. of sites/samples with residues above

660 samples (71,50 %)

204 samples (22,10%)

59 samples (6,39 %)

[1]

Evaluation of the data:

Mandatory Limit (in $\mu\text{g/l}$)

(EU drinking water limit: 0.1 µg/l or ec

the same as for drinking water:

0,1 µg/l for all of pesticides, except for

total allowed amount of pesticides in v

Pesticides found most often

atrazine

(found in

desethylatrazine (found in 143 sample

hexazinone

(found in

simazine

(found in

chlorpyrifos

(found in

terbutryne

others: trifluralin, alachlor and isodrin

[1]

Pesticide concentrations (quantitat

no data

Additional information:

Sampling by national authorities

(analytical methods, regulation etc.

analyses are done by 8 accredited

Specific monitoring programmes

drinking water source keepers h

Regarding data evaluation:

Is there additional information

(in English?)

COMMENTS / NOTES:

Traced pesticides/residues in

(on-line database [])

α -HCH; β -HCH; γ -HCH; p, p'

WATER Type

Surface water

Country

The Czech Republic

Name of the responsible au

Czech Hydrometeorological

Name of the responsible pe

Ing. Danica Department of W

Website

<http://hydro.chmi.cz/ojv2/>

Email/phone/fax

e-mail: [svobodova@c](mailto:svobodova@chmi.cz)
[hmi.cz](http://hydro.chmi.cz)

tel.: 00420 244032318

Form of the available data

- on-line

- data fo

Availability of data

- on-line
<http://hydro.chmi.cz/ojv2>

- data for

Availability of an English version

YES (on-line water quality d

Evaluate transparency (from

2 – you will find it on the we

3 – you will get it on request

4 - you will get it but you have

5 – failed no data available/

3

Legislation:

List the national regulation of

- “Water

- Decree

Is the EU-harmonisation con

yes

Reflect the monitoring activi

yes [1]

Structure of the monitoring

List activities to improve o

- coope

- in 200

Is there a central or fed

central

Who collect the data (o

official agency - Czech

Data:

Year

2005

No. of measured sites/s

No. of different pesticides

No. of different pesticide

1633 samples

33

25

[1]

No. of sites/samples v

No. of sites/samples v

No. of sites/samples v

330 samples (20,21 %

1 182 samples (72,38

121 samples (7,41 %)

[1]

Evaluation of the dat

Mandatory Limit (in μ

(EU drinking water lim

surface water pollution

alachlor

0,1

aldrin

0,005

atrazine

azinphos-ethyl 0,01

azinphos-methyl 0,005

chloropyriphos 0,005

chlorfenvinphos 0,01

DDT (sum of kongene

p,p'-DDT

0,01

desethylatrazine 0,5

dichlorvos

0,00

dieldrin

0,005

diuron

0,05

endosulphan

0,005

endrin

fenitrothion

0,01

fenthion

0,01

isodrin

0,005

isoproturon

0,3

lindan (γ -HCH)

0,01

malathion

0,01

parathion-ethyl

0,005

parathion-methyl 0,01

simazine 1

sum of HCH 0,05

trifluralin 0,03

pesticides total (active

Pesticides found mos

atrazine (four

desethylatrazine (four

alachlor (four

hexazinone (four

terbutryne (four

gama - HCH (four

Pesticide concentrati

No data

Additional information

Sampling by national

(analytical methods,

Specific monitoring p

Besides Czech Hydro

Regarding data eva

Is there additional i

(in English?)

COMMENTS / NOTES

Traced pesticides/r

(on-line³database) [

α -HCH; β -HCH; γ -

Data of 2004
(for comparison)
other parts of
the table are the
same

Ground water:

Data:

Year

2004

No. of measured s

No. of different pes

No. of different pes

463 sites/923 sam

37

22

[1]

No. of sites/samp

No. of sites/samp

No. of sites/samp

652 samples (70,0

224 samples (24,2

47 samples (5,09

[1]

Evaluation of the

Mandatory Limit

(EU drinking water

the same as for c

0,1 $\mu\text{g/l}$ for all of

total allowed amount

Pesticides found

atrazine (fou

desethylatrazine

hexazinone (four

simazine (four

chlorpyrifos (four

terbutryne (four

[1]

Pesticide conce

no data

Additional data:

Atrazine is an
important
pesticide from
the point of
view of
polluting
ground water

in the Czech
Republic,
especially as
the plane
polluter (no
substantial
point pollution

was found). It was the most often found pesticide.

Application of Atrazine is permitted in

the Czech
Republic.
When limit
value of
another
pesticide was
exceeded at a

sampling site,
almost always
the limit for
atrazine was
exceeded, too
[4].

Data of 2004
(for
comparison)
other parts of
the table are
the same

Surface water:

Data:

Year

2004

No. of measure

No. of different

No. of different p

1569 samples

30

22

[1]

No. of sites/sar

No. of sites/sar

No. of sites/sar

314 samples (2

948 samples (6

307 samples (1

[1]

Evaluation of t

Mandatory Lim

(EU drinking w

Pesticides four

atrazine (fou

desethylatrazin

alachlor (fou

gama - HCH (fou

terbutryne (fou

hexazinone(fou

[1]

Pesticide conc

No data

References

1. Mail communicati

on with Vit
Kodes, head
of the
Department
of Water
Quality,

Czech
Hydrometeor
ological
Institute.
May 2006.
kodes@chm

i.CZ

2. The
project
available in
Czech
language at
<http://hydro.>

[chmi.cz/ojv2](http://chmi.cz/ojv2/default.php?lng=ENG)
[/default.php](http://chmi.cz/ojv2/default.php)
[?lng=ENG](http://chmi.cz/ojv2/default.php?lng=ENG)

- left menu
“Projects”

3. On-line
e database
of surface
and ground
water is at
<http://hydro.>

[chmi.cz/ojv2](http://chmi.cz/ojv2/default.php?lng=ENG)
[/default.php](http://chmi.cz/ojv2/default.php?lng=ENG)
[?lng=ENG](http://chmi.cz/ojv2/default.php?lng=ENG)

, traced
pesticides
are available

in left menu “
monitored
parameters”

4. Report of the Czech Republic elaborated in accordance with the

Article 15 of the Directive No. 2000/60/ES of the European

Parliament and of the Council establishing a framework for

Community
action in the
field of water
policy.

February

2005. p. 97.

The report
available in
Czech at

<http://www.e>

[nv.cz/AIS/w](http://www.e)

[eb-pub.nsf/\\$](http://www.e)

pid/MZPJMF

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