

HM emissions and pollution levels in 1990 and 2013

| | Pb | | Cd | | Hg | |
|--|--------|------|--------|--------|-------|-------|
| | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Emissions, t | 97* | 18* | 1.7* | 1.5* | 2.0* | 1.8* |
| Deposition to the country | | | | | | |
| Total deposition to the country, t | 331.01 | 66.9 | 4.06 | 1.93 | 1.34 | 1.11 |
| - Anthropogenic deposition from national sources, t | 27.68 | 5.28 | 0.55 | 0.48 | 0.38 | 0.35 |
| - Anthropogenic deposition from other countries, t | 192.30 | 10.9 | 1.45 | 0.41 | 0.29 | 0.11 |
| - Intercontinental transport (non-EMEP sources), t | 6.08 | 5.26 | 0.10 | 0.14 | 0.63 | 0.62 |
| - Secondary sources (wind re-suspension), t | 104.94 | 45.4 | 1.95 | 0.90 | 0.03 | 0.03 |
| Deposition from the country anthropogenic sources | | | | | | |
| Deposition to other countries (EMEP region), t | 45.84 | 8.26 | 0.75 | 0.73 | 0.31 | 0.29 |
| Deposition to the regional seas (Pb - t, Cd, Hg – kg): | | | | | | |
| - Baltic Sea | 0.29 | 0.08 | 4.61 | 6.08 | 1.64 | 2.24 |
| - Black Sea | 1.03 | 0.14 | 17.24 | 11.40 | 5.35 | 2.90 |
| - Caspian Sea | 0.06 | 0.01 | 0.96 | 0.88 | 0.54 | 0.44 |
| - Mediterranean Sea | 11.49 | 1.78 | 181.47 | 159.00 | 58.25 | 51.25 |
| - North Sea | 0.26 | 0.05 | 3.93 | 3.98 | 1.28 | 1.79 |
| Mean annual air concentrations, ng/m ³ | 18.25 | 2.14 | 0.20 | 0.08 | 1.68 | 1.56 |

* expert estimates

POP emissions and pollution levels in 1990 and 2013

| | B[a]P | | PCDD/Fs | | HCB | |
|--|-------------------|--------|-----------------------|-------|-------------------|---------|
| | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Emissions ^b | t | | g TEQ ^a | | kg | |
| | 4.8 | 2.5 | 67 | 42 | 0.001 | 0.001 |
| Deposition to the country | | | | | | |
| | kg | | g TEQ | | kg | |
| Total deposition to the country | 2232.6 | 1391.4 | 1006.1 | 366.3 | 2360.9 | 175.9 |
| - Anthropogenic deposition from national sources | 935.6 | 515.2 | 148.5 | 96.2 | 0.0 | 0.0 |
| - Anthropogenic deposition from other countries | 1082.7 | 732.2 | 148.0 | 56.6 | 11.5 | 2.1 |
| - Intercontinental transport (global sources) ^c | 0.0 | 0.0 | 88.8 | 36.8 | 685.1 | 53.7 |
| - Secondary sources (re-volatilization) ^d | 214.3 | 144.0 | 624.1 | 176.7 | 1664.3 | 120.1 |
| Deposition from the country anthropogenic sources | | | | | | |
| Deposition to other countries (EMEP region) | 881.0 | 486.5 | 125.4 | 77.3 | 0.0 | 0.0 |
| Deposition to the regional seas | | | | | | |
| - Baltic Sea | 5.88 | 2.05 | 0.41 | 0.21 | 2.3E-07 | 4.7E-07 |
| - Black Sea | 6.78 | 3.69 | 0.72 | 0.51 | 1.1E-06 | 1.4E-06 |
| - Caspian Sea | 0.16 | 0.18 | 0.09 | 0.08 | 3.3E-07 | 3.1E-07 |
| - Mediterranean Sea | 101.12 | 56.91 | 16.89 | 9.96 | 3.2E-05 | 3.4E-05 |
| - North Sea | 1.31 | 0.72 | 0.15 | 0.24 | 2.1E-07 | 3.5E-07 |
| Mean annual air concentrations | | | | | | |
| | ng/m ³ | | fg TEQ/m ³ | | pg/m ³ | |
| | 0.34 | 0.19 | 25.40 | 11.19 | 198.1 | 15.55 |

^a Toxicity of PCDD/Fs is expressed according to the NATO toxic equivalents scheme (I-TEQ)

^b Expert estimate

^c Model assessment of B[a]P pollution was focused on the emission sources of the EMEP countries neglecting the intercontinental transport

^d Estimates of secondary sources contribution for B[a]P represent re-volatilization fluxes resulted from the accumulation of pollutant during one year