

HM emissions and pollution levels in 1990 and 2013

| | Pb | | Cd | | Hg | |
|--|---------|--------|---------|--------|--------|-------|
| | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Emissions, t | 4591 | 136 | 20 | 2.5 | 25 | 3.8 |
| Deposition to the country | | | | | | |
| Total deposition to the country, t | 3449.13 | 519.00 | 32.23 | 12.00 | 10.68 | 6.74 |
| - Anthropogenic deposition from national sources, t | 1714.83 | 52.70 | 7.18 | 0.92 | 3.36 | 0.54 |
| - Anthropogenic deposition from other countries, t | 765.66 | 49.60 | 6.26 | 1.96 | 2.14 | 0.64 |
| - Intercontinental transport (non-EMEP sources), t | 41.67 | 35.20 | 0.87 | 1.00 | 5.00 | 5.38 |
| - Secondary sources (wind re-suspension), t | 926.96 | 381.00 | 17.92 | 8.11 | 0.17 | 0.19 |
| Deposition from the country anthropogenic sources | | | | | | |
| Deposition to other countries (EMEP region), t | 1440.85 | 37.80 | 7.23 | 0.71 | 2.07 | 0.26 |
| Deposition to the regional seas (Pb - t, Cd, Hg – kg): | | | | | | |
| - Baltic Sea | 55.12 | 1.50 | 287.17 | 25.50 | 70.90 | 8.29 |
| - Black Sea | 9.37 | 0.21 | 38.77 | 3.94 | 11.35 | 1.39 |
| - Caspian Sea | 1.59 | 0.03 | 7.57 | 0.54 | 3.92 | 0.43 |
| - Mediterranean Sea | 327.76 | 11.60 | 1026.81 | 271.00 | 282.95 | 68.30 |
| - North Sea | 240.41 | 7.52 | 1322.30 | 146.00 | 406.62 | 55.90 |
| Mean annual air concentrations, ng/m ³ | 39.65 | 3.89 | 0.31 | 0.08 | 1.73 | 1.47 |

POP emissions and pollution levels in 1990 and 2013

| | B[a]P | | PCDD/Fs | | HCB | |
|--|-------------------|--------|-----------------------|--------|-------------------|---------|
| | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Emissions | t | | g TEQ ^a | | kg | |
| | 12 | 5.5 | 1776 | 119 | 1200 | 17 |
| Deposition to the country | | | | | | |
| | kg | | g TEQ | | kg | |
| Total deposition to the country | 10944.3 | 5021.0 | 15817.2 | 2352.0 | 18400.4 | 1373.2 |
| - Anthropogenic deposition from national sources | 3776.1 | 1648.6 | 4998.0 | 318.1 | 450.9 | 6.3 |
| - Anthropogenic deposition from other countries | 5845.1 | 2785.4 | 1097.5 | 240.4 | 133.7 | 6.0 |
| - Intercontinental transport (global sources) ^c | 0.0 | 0.0 | 1258.9 | 516.5 | 5956.4 | 511.1 |
| - Secondary sources (re-volatilization) ^d | 1323.2 | 587.0 | 8500.4 | 1277.0 | 11859.4 | 849.8 |
| Deposition from the country anthropogenic sources | | | | | | |
| Deposition to other countries (EMEP region) | 1653.7 | 545.7 | 2291.9 | 131.5 | 179.9 | 2.5 |
| Deposition to the regional seas | | | | | | |
| - Baltic Sea | 56.42 | 16.10 | 39.70 | 1.62 | 1.6E+00 | 1.8E-02 |
| - Black Sea | 5.32 | 1.46 | 7.91 | 0.57 | 5.8E-01 | 8.1E-03 |
| - Caspian Sea | 0.69 | 0.16 | 1.82 | 0.13 | 2.5E-01 | 3.1E-03 |
| - Mediterranean Sea | 84.20 | 80.10 | 197.45 | 20.28 | 1.2E+01 | 2.3E-01 |
| - North Sea | 178.79 | 73.21 | 229.19 | 17.22 | 8.5E+00 | 8.4E-02 |
| Mean annual air concentrations | | | | | | |
| | ng/m ³ | | fg TEQ/m ³ | | pg/m ³ | |
| | 0.15 | 0.07 | 47.00 | 4.62 | 227.8 | 15.95 |

^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