

Table 1-(T). Anthropogenic national annual emissions of ozone precursors for 1980-2010

Party: Republic of Moldova

Sector: All sectors

| Component | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2010 |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| NO _x (as NO ₂) | 58 | 57 | 50 | 42 | 44 | 66 | 72 | 71 | 74 | 70 | 100 | 97 | 67.3 | 53 | 46.2 | 38.2 | 38 | 36.5 | 21.7 | 16.91 | 90 |
| NMVOC | | | | | | 105 | 101 | 102 | 102 | 96 | 157 | 151.2 | 99 | 74.5 | 65.6 | 61.7 | 64.4 | 68.8 | 42.9 | 22.14 | 100 |
| CO | 55 | 53 | 56 | 49 | 48 | 483 | 478 | 474 | 496 | 476 | 453.2 | 468.4 | 279.2 | 218.4 | 170.9 | 192 | 170.3 | 210.2 | 153.4 | 100.2 | 150 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-A. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 1: Combustion in energy and transformation industries

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO _x (as NO ₂) | 35.38 | 34.91 | 27.30 | 23.38 | 18.19 | 13.13 | 13.92 | 10.47 | 8.95 | 4.96 |
| NM VOC | 12.85 | 12.55 | 7.83 | 5.52 | 4.90 | 4.33 | 4.41 | 5.03 | 2.67 | .67 |
| CO | 39.90 | 41.86 | 23.50 | 15.58 | 13.95 | 14.00 | 14.21 | 16.20 | 16.35 | 22.44 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-B. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 2: Non-industrial combustion plants

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|-------|-------|-------|------|------|------|------|------|------|------|
| NO _x (as NO ₂) | 1.30 | 1.30 | 1.10 | 1.10 | 4.90 | 4.00 | 3.10 | 4.00 | 1.40 | 1.20 |
| NM VOC | 2.10 | 1.90 | 1.90 | .97 | .71 | .70 | .64 | .56 | .58 | .53 |
| CO | 19.98 | 19.10 | 19.00 | 6.68 | 6.60 | 6.60 | 6.00 | 5.20 | 5.50 | 1.89 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-C. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 3: Combustion in manufacturing industry

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|
| NO _x (as NO ₂) | 4.60 | 3.40 | 2.30 | 1.20 | .50 | .60 | .50 | 1.00 | .60 | .23 |
| NM VOC | .30 | .20 | .10 | .10 | .10 | .10 | .10 | .10 | .10 | .03 |
| CO | .40 | .30 | .20 | .10 | .10 | .10 | .10 | .10 | .10 | .99 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-D. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 4: Production processes

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| NO _x (as NO ₂) | .52 | .48 | .29 | .34 | .17 | .12 | .11 | .04 | .04 | .16 |
| NM VOC | 20.10 | 17.70 | 16.30 | 15.80 | 14.00 | 15.80 | 17.70 | 16.20 | 13.90 | .01 |
| CO | .32 | .22 | .10 | .08 | .03 | .03 | .03 | .01 | .01 | .25 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-F. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 6: Solvent and other product use

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|------------|------|------|------|------|------|------|------|------|------|------|
| NMVOC | 7.50 | 5.90 | 3.70 | 2.70 | 1.90 | 1.90 | 1.90 | 1.60 | 1.60 | 1.50 |

Units: NMVOCs in thousands of tonnes per year.

Explanation: levels of emissions NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-G. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 7: Road transport

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NO _x (as NO ₂) | 46.10 | 46.50 | 28.70 | 20.70 | 16.70 | 16.00 | 16.50 | 17.00 | 6.40 | 6.54 |
| NMVOC | 84.05 | 87.25 | 51.07 | 35.81 | 29.99 | 29.87 | 30.65 | 37.31 | 16.15 | 14.96 |
| CO | 335.9 | 342.3 | 189.6 | 132.1 | 117.5 | 118.4 | 121.3 | 139.0 | 80.74 | 64.15 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-H. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 8: Other mobile sources and machinery

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|-------|-------|-------|-------|-------|------|------|------|------|-------|
| NO _x (as NO ₂) | 11.00 | 9.40 | 6.70 | 5.00 | 5.10 | 3.30 | 3.30 | 3.00 | 2.90 | 3.46 |
| NM VOC | 30.10 | 25.70 | 18.10 | 13.60 | 14.00 | 9.00 | 9.00 | 8.00 | 7.90 | 4.41 |
| CO | 3.10 | 15.10 | 1.80 | 1.40 | 1.40 | .90 | .90 | 1.00 | .80 | 10.14 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-J. Anthropogenic national annual emissions of ozone precursors for 1990-1999

Party: Republic of Moldova

Sector 10: Agriculture and forestry, land use and wood stock change

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| NO _x (as NO ₂) | 1.10 | 1.01 | .91 | 1.28 | .64 | 1.05 | .57 | .99 | 1.41 | .05 |
| NM VOC | | | | | | | | | | .01 |
| CO | 53.60 | 49.50 | 45.00 | 62.50 | 31.30 | 52.00 | 27.80 | 48.60 | 49.90 | .02 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.

Table 1-K. Anthropogenic national annual emissions of ozone precursors for 1999

Party: Republic of Moldova

Sector 11: Other sources and sinks

| Substances | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|
| NO _x (as NO ₂) | | | | | | | | | | .31 |
| NM VOC | | | | | | | | | | .02 |
| CO | | | | | | | | | | .31 |

Units: NO₂, NMVOCs, and CO in thousands of tonnes per year.

Explanation: levels of emissions NO₂, CO and NMVOCs were calculated for 1990 – 1999 years according to methods IPCC and EMEP/CORINAIR Emissions Inventory Guidebook.