

Annual growth rates

METALS, MINERALS AND ENERGY

WORLD	Annual growth rates					
	1961-2009	1961-1972	1973-1984	1985-1996	1997-2008	2009-2010
Metals and minerals production						
Copper	2,9%	4,4%	1,1%	2,9%	2,7%	-
Lead	1,0%	3,4%	-0,8%	-1,3%	2,0%	-
Tin	0,7%	2,4%	-2,1%	1,8%	0,6%	-
Zinc	2,5%	4,1%	1,2%	0,9%	4,0%	-
Iron ore	3,2%	4,0%	-0,2%	1,6%	6,8%	-
Aluminum	4,4%	8,0%	2,4%	2,8%	5,6%	-
Nickel	2,9%	4,9%	0,8%	2,4%	3,0%	-
	1971-2009		1973-1984	1985-1996	1997-2008	2009-2010
Energy production						
Coal	2,4%	-	2,6%	1,1%	3,7%	-
Crude oil	1,0%	-	-0,2%	1,5%	1,0%	-
Crude oil - other products	3,8%	-	4,3%	4,8%	2,7%	-
Natural gas	2,8%	-	3,0%	2,7%	2,9%	-

Sources: USGS (U.S. Geological Survey) for metals and minerals,
IEA (International Energy Agency) for energy

METALS, MINERALS AND ENERGY

WORLD	Annual growth rates					
	1961-2010	1961-1972	1973-1984	1985-1996	1997-2008	2009-2010
Metals and minerals production						
Copper	3,4%	4,4%	1,1%	2,9%	4,4%	10,6%
Lead	3,6%	3,6%	3,6%	3,7%	3,7%	4,3%
Tin	1,3%	2,4%	-2,1%	1,8%	3,3%	8,1%
Zinc	2,7%	4,1%	1,2%	0,9%	3,9%	13,8%
Iron ore	2,6%	4,0%	-0,2%	1,6%	4,4%	12,2%
Aluminum	4,7%	8,0%	2,4%	2,8%	5,6%	19,6%
Nickel	2,5%	4,9%	0,8%	2,4%	1,6%	-10,9%
	1971-2009		1973-1984	1985-1996	1997-2008	2009-2010
Energy production						
Coal and coal products	2,4%	-	2,4%	1,1%	3,8%	-
Total oil	1,3%	-	0,2%	1,6%	1,3%	-
Natural gas	2,8%	-	3,1%	2,7%	2,9%	-

Sources: World Bank (based on USGS (U.S. Geological Survey) and others) for metals and minerals,
World Bank and IEA (International Energy Agency) for energy

METALS, MINERALS AND ENERGY

WORLD	Annual growth rates					
	1985-2009	1985-1990	1991-1996	1997-2002	2003-2008	2009-2010
Metals and minerals production						
Copper	2,9%	2,9%	3,3%	3,4%	2,2%	-
Lead	0,5%	-0,1%	-2,2%	-1,7%	3,8%	-
Tin	1,5%	4,1%	1,8%	-0,7%	-0,1%	-
Zinc	2,1%	1,1%	0,6%	3,3%	4,0%	-
Iron ore	4,1%	2,7%	1,3%	0,6%	12,8%	-
Aluminum	3,8%	4,6%	1,1%	3,8%	7,2%	-
Nickel	2,3%	3,7%	1,0%	3,4%	3,4%	-
	1985-2009	1985-1990	1991-1996	1997-2002	2003-2008	2009-2010
Energy production						
Coal	2,3%	2,2%	0,7%	0,8%	6,1%	-
Crude oil	1,1%	2,2%	1,1%	0,5%	1,1%	-
Crude oil - other products	3,6%	5,7%	4,8%	2,7%	3,5%	-
Natural gas	2,5%	3,6%	1,9%	2,6%	3,2%	-

Sources: USGS (U.S. Geological Survey) for metals and minerals, IEA (International Energy Agency) for energy

METALS, MINERALS AND ENERGY

WORLD	Annual growth rates					
	1985-2010	1985-1990	1991-1996	1997-2002	2003-2008	2009-2010
Metals and minerals production						
Copper	3,9%	2,9%	3,3%	5,9%	4,0%	10,6%
Lead	3,6%	3,6%	3,7%	2,3%	5,6%	4,3%
Tin	2,8%	4,1%	1,8%	-35,6%	4,4%	8,1%
Zinc	2,6%	1,1%	0,6%	4,6%	3,4%	13,8%
Iron ore	3,0%	2,7%	1,3%	0,6%	9,9%	12,2%
Aluminum	4,3%	4,6%	1,1%	3,7%	7,2%	19,6%
Nickel	1,5%	3,7%	1,0%	0,8%	2,3%	-10,9%
	1985-2009	1985-1990	1991-1996	1997-2002	2003-2008	2009-2010
Energy production						
Coal and coal products	2,3%	1,9%	1,2%	0,9%	6,1%	-
Total oil	1,3%	2,1%	1,2%	1,1%	1,3%	-
Natural gas	2,5%	3,4%	1,8%	2,5%	3,1%	-

Sources: World Bank (based on USGS (U.S. Geological Survey) and others) for metals and minerals, World Bank and IEA (International Energy Agency) for energy

Metals, minerals and energy

1000 tons

Years	Source	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
World metals and minerals production													
Copper	USGS	4.090,0	4.220,0	4.290,0	4.450,0	4.660,0	4.580,0	4.630,0	5.010,0	5.520,0	5.900,0	5.940,0	6.540,0
Lead	USGS	2.390,0	2.510,0	2.560,0	2.530,0	2.700,0	2.850,0	2.870,0	3.010,0	3.240,0	3.390,0	3.490,0	3.450,0
Tin	USGS	187,0	190,0	194,0	197,0	204,0	211,0	218,0	232,0	229,0	232,0	235,0	244,0
Zinc	USGS	3.490,0	3.570,0	3.660,0	4.030,0	4.310,0	4.500,0	4.840,0	4.970,0	5.340,0	5.460,0	5.520,0	5.440,0
Iron ore	USGS	503.000,0	508.000,0	523.000,0	583.000,0	621.000,0	636.000,0	623.000,0	679.000,0	713.000,0	769.000,0	787.000,0	778.000,0
Aluminum	USGS	4.700,0	5.060,0	5.320,0	5.940,0	6.310,0	6.880,0	7.570,0	8.020,0	8.970,0	9.650,0	10.300,0	11.000,0
Nickel	USGS	361,0	357,0	339,0	371,0	425,0	412,0	449,0	497,0	487,0	628,0	637,0	611,0
World energy production													
Coal*	IEA											1.439.803,0	1.465.724,4
Crude oil**	IEA											2.461.186,0	2.601.109,8
Crude oil - other products***	IEA											89.662,2	94.087,7
Natural gas	IEA											904.696,5	949.093,9

Metals, minerals and energy

1000 tons

Years	Source	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
World metals and minerals production													
Copper	USGS	6.920,0	7.100,0	6.740,0	7.260,0	7.420,0	7.280,0	7.350,0	7.200,0	7.690,0	7.580,0	7.610,0	7.810,0
Lead	USGS	3.490,0	3.490,0	3.440,0	3.690,0	3.410,0	3.460,0	3.510,0	3.520,0	3.350,0	3.450,0	3.350,0	3.200,0
Tin	USGS	238,0	233,0	222,0	218,0	231,0	241,0	245,0	245,0	238,0	219,0	197,0	188,0
Zinc	USGS	5.710,0	5.780,0	5.850,0	5.690,0	5.920,0	5.850,0	5.990,0	5.950,0	5.950,0	6.130,0	6.280,0	6.520,0
Iron ore	USGS	846.000,0	898.000,0	902.000,0	899.000,0	841.000,0	847.000,0	903.000,0	891.000,0	858.000,0	781.000,0	740.000,0	829.000,0
Aluminum	USGS	12.100,0	13.200,0	12.100,0	12.600,0	13.800,0	14.100,0	14.600,0	15.400,0	15.100,0	13.400,0	13.900,0	15.700,0
Nickel	USGS	710,0	770,0	802,0	792,0	828,0	658,0	686,0	779,0	726,0	621,0	673,0	773,0
World energy production													
Coal*	IEA	1.479.013,2	1.481.912,0	1.582.226,4	1.606.006,1	1.667.021,3	1.688.949,2	1.782.085,2	1.805.544,3	1.808.858,8	1.870.756,7	1.866.055,2	1.952.987,0
Crude oil**	IEA	2.836.394,5	2.839.778,0	2.701.604,4	2.929.595,9	3.030.219,3	3.065.204,6	3.179.887,2	3.038.612,1	2.850.707,1	2.718.147,2	2.687.888,0	2.762.742,3
Crude oil - other products***	IEA	100.320,6	100.183,2	97.875,8	101.375,0	105.299,7	108.557,1	119.555,4	136.014,5	149.642,7	148.350,6	154.622,9	158.941,0
Natural gas	IEA	993.103,6	1.012.736,8	1.015.234,5	1.059.181,9	1.103.513,7	1.140.917,8	1.218.733,0	1.242.772,8	1.264.994,8	1.266.245,3	1.271.712,4	1.374.066,7

Metals, minerals and energy

1000 tons

Years	Source	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
World metals and minerals production													
Copper	USGS	7.990,0	7.940,0	8.240,0	8.720,0	9.040,0	9.200,0	9.330,0	9.470,0	9.490,0	9.500,0	10.000,0	11.000,0
Lead	USGS	3.390,0	3.240,0	3.430,0	3.420,0	3.400,0	3.370,0	3.260,0	3.200,0	2.900,0	2.800,0	2.710,0	2.920,0
Tin	USGS	181,0	173,0	180,0	205,0	233,0	221,0	201,0	191,0	190,0	178,0	201,0	220,0
Zinc	USGS	6.760,0	6.840,0	7.190,0	6.770,0	6.820,0	7.150,0	7.270,0	7.250,0	6.910,0	7.050,0	7.280,0	7.480,0
Iron ore	USGS	861.000,0	864.000,0	903.000,0	967.000,0	1.010.000,0	983.000,0	956.000,0	925.000,0	953.000,0	992.000,0	1.030.000,0	1.020.000,0
Aluminum	USGS	15.400,0	15.400,0	16.500,0	18.500,0	19.000,0	19.300,0	19.700,0	19.500,0	19.800,0	19.200,0	19.700,0	20.800,0
Nickel	USGS	813,0	852,0	891,0	952,0	987,0	974,0	1.010,0	1.010,0	928,0	932,0	1.040,0	1.060,0
World energy production													
Coal*	IEA	2.008.003,3	2.056.688,2	2.107.869,0	2.147.072,4	2.187.447,1	2.240.487,5	2.179.147,8	2.165.520,9	2.103.653,5	2.153.079,5	2.235.561,9	2.255.478,2
Crude oil**	IEA	2.712.122,6	2.820.273,6	2.835.466,2	2.946.701,5	2.993.647,0	3.021.431,6	3.027.828,9	3.040.709,1	3.047.146,3	3.074.732,4	3.115.994,2	3.201.141,0
Crude oil - other products***	IEA	158.130,5	166.535,9	186.151,8	194.840,5	200.095,4	208.708,3	208.855,3	226.249,5	237.240,4	243.548,4	255.501,3	264.598,1
Natural gas	IEA	1.419.146,5	1.455.484,5	1.528.376,2	1.593.324,2	1.650.983,9	1.693.019,3	1.726.684,4	1.729.233,6	1.766.562,3	1.786.334,9	1.817.931,9	1.895.584,1

Metals, minerals and energy

1000 tons

Years	Source	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
World metals and minerals production													
Copper	USGS	11.500,0	12.100,0	12.800,0	13.200,0	13.700,0	13.600,0	13.800,0	14.700,0	15.000,0	15.100,0	15.400,0	15.400,0
Lead	USGS	3.100,0	3.060,0	3.080,0	3.200,0	3.120,0	2.850,0	3.200,0	3.150,0	3.470,0	3.590,0	3.690,0	3.860,0
Tin	USGS	241,0	231,0	245,0	278,0	246,0	233,0	258,0	298,0	296,0	291,0	301,0	257,0
Zinc	USGS	7.540,0	7.570,0	7.960,0	8.770,0	8.910,0	8.880,0	9.520,0	9.600,0	10.000,0	10.300,0	11.000,0	11.600,0
Iron ore	USGS	1.070.000,0	1.050.000,0	1.020.000,0	1.070.000,0	1.040.000,0	1.100.000,0	1.210.000,0	1.360.000,0	1.550.000,0	1.840.000,0	2.040.000,0	2.210.000,0
Aluminum	USGS	21.700,0	22.600,0	23.600,0	24.300,0	24.300,0	26.100,0	28.000,0	29.900,0	31.900,0	33.900,0	38.100,0	39.600,0
Nickel	USGS	1.140,0	1.180,0	1.170,0	1.290,0	1.350,0	1.350,0	1.330,0	1.370,0	1.470,0	1.570,0	1.660,0	1.570,0
World energy production													
Coal*	IEA	2.282.990,6	2.257.139,0	2.226.072,8	2.226.888,5	2.320.223,4	2.375.027,7	2.544.433,4	2.769.735,5	2.948.728,9	3.110.223,8	3.230.856,2	3.415.656,0
Crude oil**	IEA	3.291.839,6	3.358.162,1	3.271.594,1	3.393.809,1	3.393.741,4	3.367.564,5	3.490.508,9	3.613.110,4	3.667.311,3	3.664.164,1	3.636.709,3	3.678.935,8
Crude oil - other products***	IEA	269.102,7	273.137,5	284.897,4	292.994,1	299.936,5	307.514,9	304.982,7	326.758,3	335.032,4	347.657,7	361.922,7	362.406,1
Natural gas	IEA	1.894.432,7	1.936.207,2	1.996.680,0	2.069.598,1	2.101.290,1	2.148.750,5	2.232.510,0	2.302.752,1	2.367.170,7	2.440.603,9	2.507.724,4	2.608.172,1