Appendix 2. Review of Available Statistics

Mining statistics in Armenia is presented through two-digit, five-digit and eight-digit classification of activities. The area of classification by types of economic activity is formulated as follows:

**Mining and quarrying** which, at two-digit level, is grouped into following types of activity:

* Extraction of metal ore, and
* Mining and quarrying.

**Section 1.**

1. **The share of mining in national and subnational (marz-level) (including the Yerevan community) economy (GDP, employment)** - nationally and subnationally segregated data will be provided to the extent they are available in the databases of the National Statistical Service of Armenia. At national level mining statistics is available in the National Accounts of Armenia, reflected as a type of activity in the industry cluster of GDP and in the Industry Statistics, reflected as a type of activity within the national and subnational industry.

GDP - when calculating the GDP index of Armenia, statistical data is maintained for "**Mining and quarrying"** activity type, and there is no information for "**Extraction of metal ore"** component.

Information on "Extraction of metal ore" activity type available at the National Accounts of Armenia can be assessed given the relevant data available in the industry statistics - by estimating the share of extraction of metal ore in the "**Mining and quarrying"** activity.

The official statistics in Armenia does not account for GDP at subnational (Marz) level. According to the Methodology, GDP at the level of administrative districts of Armenia is calculated with the help of **gross value added indicator,** exclusive of production and import taxes. Therefore, at Marz level GDP is calculated at basic (non-market) prices. The official statistics of Armenia at Marz level discloses data on output volume by types of economic activity. Henceforth, the GDP index calculated at the level of Marzes in Armenia is an expert judgment, which may have uncertainties.

To conduct a comprehensive assessment of production and revenues in the mining sector, there is sufficient information available in the accounts on GDP production and revenue generation of the National Accounts of Armenia, specifically, on the output volume, the value added, intermediate consumption, revenue generation, depreciation, etc.

Table 1. National Accounts of Armenia, Annual and Quarterly data, Statistical Handbook

|  |  |
| --- | --- |
| Level | National |
| Frequency | Annual |
| Time of publication | IV quarter, November |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&year=2017>  http://armstat.am/am/?nid=82&id=1839 |
| Type of activity | Mining and quarrying |
| Indicators | Output in basic prices, million AMD |
| Intermediate consumption, million AMD |
| Gross value added, million AMD |
| Gross value added by domestic private sector, million AMD |
| Gross value added by the sector under foreign control, million AMD |
| Mining and quarrying, share in GDP, % |
| Index of real volume of mining and quarrying, % |
| Remuneration of the work of paid employees, million AMD |
| Other net taxes on production, million AMD |
| Gross profit and gross mixed income, million AMD |
| Consumption of basic capital, million AMD |
| Net profit and net mixed income of the economy, million AMD |
| Gross value added, % of total |
| Remuneration of the work of paid employees, % of total |
| Other net taxes on production, % of total |
| Gross profit and gross mixed income, % of total |
| Consumption of basic capital, % of total |
| Net profit and net mixed income of the economy, % of total |
| Remuneration of the work of paid employees, % of total gross value added |
| Other net taxes on production, % of total gross value added |
| Gross profit and gross mixed income, % of total gross value added |
| Consumption of basic capital, % of total gross value added |
| Net profit and net mixed income of the economy, % of total gross value added |

Information on employment, remuneration and other indicators are available in the Labor Market in the Republic of Armenia 2011-2015 Statistical handbook.

Table 2. Employment Market in the Republic of Armenia, Statistical handbook

|  |  |
| --- | --- |
| Level | National |
| Periodicity | Annual |
| Time of publicatoin | IV quarter, December |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1861> |
| Type of activity | Mining and quarrying |
| Indicators | Employed by economic activity and gender, person |
| Share of the employed in the employment, % |
| Usually and actually worked annual hours in a week by economic activity, hour |
| Actually worked average hours in a week by economic activity, gender of the employed and place of residence, hour |
| Number of those employed in hazardous and dangerous conditions, %, person |
| Number of employed, who have benefited from any of the listed fringe benefits and compensations, %, person |
| Average monthly nominal salary by quarters and economic activity, AMD |
| Average monthly nominal salary by economic activity, AMD |
| Average monthly nominal salary in metal ore extraction sector, AMD |
| Average monthly nominal salary in other subsectors of mining and quarrying, AMD |
| Rate of growth of the average monthly nominal salary, % |
| Real salary index by economic activity, % |
| Average monthly nominal salary by gender, AMD |
| Average monthly nominal salary of the managing staff, AMD |
| Number of employees by the size of salary, % |
| Average monthly expenditures on unit work, AMD |

**Section 2. Production and extraction volumes**

* 1. **Production volumes**

Production data by Marzes, nationally and sub-nationally disaggregated data will be provided to the extent they are available in the databases of the National Statistical Service of the RA. More detailed information on production volumes in mining at national and subnational level (in monetary and in kind) is available is following publications of the RA NSS:

2.1. Main indicators for industrial organizations by two-digit classification of economic activity, by Marz and the city of Yerevan for January-December, 20... Statistical handbook *(The statistical bulletin is prepared as per data from statistical reports received from 2802 mining companies, as well as the volume of output produced by SMEs which are not covered by monthly statistical monitoring) (*Armenian)

Table 3. Main Indicators of Industrial Organizations by Types of Economic Activity (2-digit code), by Marzes and Yerevan city.

|  |  |
| --- | --- |
| Level | National economy and Marzes (city of Yerevan) |
| Frequency | Quarterly |
| Time of publication | In the month following the quarter |
| Language | Armenian |
| Source | <http://armstat.am/am/?nid=82&id=1739> |
| Type of activity | Mining and quarrying |
| Extraction of metal ore |
| Other branches of mining and quarrying |
| Indicators | 1. Volume of produce (works, services) in comparable prices/thousand AMD, exclusive of VAT and Excise Tax |
| 1. Volume of produce (works, services) in current prices/ thousand AMD, exclusive of VAT and Excise Tax |
| 1. Sale of end products at current prices of the given year /thousand AMD, exclusive of VAT and Excise Tax |
| 3a. in CIS countries |
| 3b. in other countries |
| 1. The average number/ person/ of industrial and manufacturing staff   Is filled in on quarterly bases |
| 1. Work productivity /AMD/ is filled in on quarterly basis |

* 1. Main indicators of industrial organizations by five-digit classification of economic activity in January-December 20..., Code of the Bulletine - 1210-204 *(Statistical bulletine is prepared based on assessment of data from statistical reports received by 2907 industrial companies, including sole proprietors, as well as the volume of output produced by SMEs not covered by the monthly statistical monitoring)* (Armenian)– quarterly/Main Indicators of Industrial Organizations by Types of Economic Activity (5-digit code), Half-annually

Table 4. Main indicators of industrial organizations by five-digit classification of economic activity

|  |  |
| --- | --- |
| Level | National |
| Frequency | Semester |
| Time of publication | In the month following the semester |
| Manguage | Armenian |
| Source | <http://armstat.am/am/?nid=82&id=1736> |
| Type of activity | Mining and quarrying |
| Quarrying of metal ore, Code: 07 |
| Export of non-ferrous metal ore, Code: 07.2 |
| Quarrying of other non-ferrous metal ore, Code: 07.29 |
| Quarrying of copper ore, Code 07.29.1 |
| Quarrying of precious (noble) metals, Code 07.29.4 |
| Quarrying of other non-ferrous metal ore, not included in other categories, Code 07.29.9 |
| Other mining and quarrying, Code 08 |
| Quarrying of stone, sand and clay, Code 08.1 |
| Quarrying of ornamental and building stone, limestone, gypsum, chalk and slate Code 08.11 |
| Indicators | 1. Volume of produce (works, services) in comparable prices/thousand AMD, exclusive of VAT and Excise Tax |
| 1. Volume of produce (works, services) in current prices/ thousand AMD, exclusive of VAT and Excise Tax |
| 1. Sale of end products at current prices of the given year /thousand AMD, exclusive of VAT and Excise Tax |
| 3a. in CIS countries |
| 3b. in other countries |
| 1. The average number/ person/ of industrial and manufacturing staff   Is filled in on quarterly bases |
| 1. Work productivity /AMD/ is filled in on quarterly basis |

* 1. Output of Main Commodities in the Industrial Organizations (in kind) for January-December 2016, in Armenian, Monthly, Code *1210-202*

Table 5.Output of Main Commodities in the Industrial Organizations (in kind) for January-December 2016, in Armenian, Monthly, Code 1210-202

|  |  |
| --- | --- |
| Level | National |
| Frequency | Monthly |
| Time of publication | Next month |
| Language | Armenian |
| Source | <http://armstat.am/am/?nid=82&id=1740> |
| Type of activity | Metal manufacturing, tons |
| Production and extraction of other metal mine commodities |
| Indicators | Actual output |
| Aluminum rolling, tons |
| Aluminum foil, tons |
| Copper convertible, tons |
| Copper concentrate, throusand tons |
| Molibdenium concentrate, tons |
| Molybdenum briquettes |
| Zinc concentrate, tons |
| Ferromolybdenum, tons |
| Steel pipes, tons |
|  |
| Prefabricated reinforced concrete structures and items, tons |
| Produce of concrete, thousand tons |
| Non-mineral building materials, thousand tons |
| Porous fillers, thousand tons |
| Lining plates of natural stone - total, tons |
| Including: |
| Tufa |
| Granite |
| Marble |
| Basalt |
| Travertine |
| Felsite |
| Straight cut tufa, tons |
| Cement, thousand tons |
| Calx, tons |
| Plaster, tons |
| Gypsum plaster, tons |
| Basalt curbs, tons |

* 1. Marzes of the Republic of Armenia and the City of Yerevan in figures, 2011-2015, Statistical handbook

Table 6. Marzes of the Republic of Armenia and the City of Yerevan in figures, 2011-2015, Statistical handbook

|  |  |
| --- | --- |
| Level | National and subnational (Marz) |
| Frequency | Annual |
| Time of publication | IV quarter, October |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1834> |
| Type of activity | Mining and quarrying |
| Extraction of metal ore |
| Other mining and quarrying |
| Indicators | National and subnational level |
| Volume of output of industrial produce, million AMD |
| Index of physical volume of the industrial produce, % |
| Composition of the industrial produce by sections of manufacturing  (Industry as a whole = 100) , % |
| By Marzes and Yerevan |
| Volume of output in current prices (calculated without VAT and Excise Tax), million AMD |
| Sale of end products in current prices (calculated without VAT and Excise Tax) million AMD |

The social and economic stance of the Republic of Armenia, Statistical Informational-Monthly report, Section 1 "Manufacturing", Subsection 1.2.1, "Industry" (in Armenian, Russian)

Table 7. The social and economic stance of the Republic of Armenia, Statistical Informational-Monthly report, Section 1 "Manufacturing", Subsection 1.2.1, "Industry" (in Armenian, Russian)

|  |  |
| --- | --- |
| Level | National |
| Frequency | Monthly |
| Time of publication | Monthly |
| Language | Armenian, Russian |
| Source | <http://armstat.am/am/?nid=82&year=2017> |
| Type of activity | Mining and quarrying |
| Extraction of metal ore |
| Other mining and quarrying |
| Indicators | Volume of output of industrial produce |
| Main commodities produced by companies engaged in production of basic metals and extraction of metal ore |
| Aluminum rolling, tons |
| Aluminum foil, tons |
| Copper convertible, tons |
| Copper concentrate, throusand tons |
| Molibdenium concentrate, tons |
| Molybdenum briquettes |
| Zinc concentrate, tons |
| Ferromolybdenum, tons |

2.2 **Extraction volumes**

Volumes of extraction of minerals at national and subnational level are given in the Environment and natural resources in the Republic of Armenia for 2015 And time series of indexes, 2011 – 2015” Statistical Handbook. This Handbook provides data on the volumes of metal and non-metal ore extraction in the mining sector.

|  |  |
| --- | --- |
| Level | National and subnational |
| Frequency | Annual |
| Time of publication | IVquarter, October |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1824> |

Table 8. Volumes of extracted solid minerals, 2011-2015 (metals are in the ore)

|  | 2011 | 2012 | 2013 | 2014 | 2015 |
| --- | --- | --- | --- | --- | --- |
| Coal, *cub. m* | 2 269.0 | 558.0 | 104.2 | - | - |
| Andesite, andesite basalte, andesite dacite, andesite trachite, *cub. m* | 17 703.0 | 51 569.1 | 143 039.8 | 55 340.9 | 61 002.4 |
| Sand-gravel mixture, sand, detritus, *cub. m* | 248 674.7 | 229 007.9 | 603 949.7 | 547 928.0 | 546 246.0 |
| Basalt, basaltic detritus, dolerit, doleritic basalt, *cub.m* | 200 115.9 | 213 989.8 | 331 252.9 | 480 965.2 | 434 425.2 |
| Polymetallic ore, *thsd. t* | 1 327.2 | 1 944.8 | 2 161.0 | 1 510.7 | 1 312.9 |
| Ballast raw material, *cub. m* | 6 596.2 | 4 154.0 | 4 038.0 | - | - |
| Bentonitic clay,*t* | 5 004.0 | 7 491.1 | 18 456.0 | 3 640.1 | 9 228.0 |
| Crystalline limestone, *t* | 3 774.0 | 1 932.0 | 385.0 | 406.0 | - |
| Gabbro, gabrodiorit, gabbrosyenite, monzonite, *cub. m* | 251.0 | 112.9 | 2 257.4 | 259.3 | 846.3 |
| Gypsiferous clay, *cub. m* | 30 006.5 | 23 293.0 | 29 631.5 | 49 028.7 | 15 492.9 |
| Gypsum stone, *cub.m* | - | - | - | - | 734.3 |
| Granite, granodiorite, *cub. m* | 30 718.0 | 23 916.0 | 9 291.4 | 9 463.7 | 17 401.0 |
| Diabase porphyrite, *cub. m* | - | - | 348.5 | 456.6 | 557.6 |
| Diatomite, *cub. m* | 12 546.0 | 12 510.0 | 8 316.0 | 8 772.0 | 8 118.0 |
| Clay, *cub. m* | 115 893.0 | 109 811.0 | 87 463.4 | 87 103.8 | 72 604.6 |
| Olivine sand, *cub.m* | 1 879.0 | - | - | - | - |
| Quartzite, *t* | - | - | 15 479.7 | 17 396.3 | 11 942.0 |
| Limestone, sand limestone, *cub. m* | 361 433.0 | 373 317.0 | 240 965.0 | 72 710.4 | 14 691.7 |
| Scoria, scoria sand, *cub. m* | 26 863.0 | 28 790.0 | 45 077.9 | 37 964.2 | 60 971.8 |
| Marble, *cub. m* | 83.0 | 153.6 | 434.5 | 537.7 | 209.9 |
| Metals, *t* | 60 237.6 | 77 914.6 | 80 592.4 | 84 849.9 | 85 543.3 |
| Pumice,lithoidal pumice, *cub. m* | 64 293.0 | 62 073.0 | 90 776.0 | 121 247.2 | 89 423.3 |
| Perlite, perlite sand,*cub. m* | 74 627.0 | - | 77 784.1 | 84 903.6 | 57 656.7 |
| Copper molybdenic ore, *thsd. t* | 16 497.1 | 19 525.3 | 20 830.2 | 22 222.0 | 13 524.2 |
| Peat, *t* | - | - | - | 2 733.2 | 3 440.0 |
| Tufa, sandi tufa, dacite tufa, *cub.m* | 125 176.3 | 94 921.3 | 168 082.4 | 258 493.9 | 112 826.0 |
| Troctolite, *t* | - | - | - | - | 73 346.0 |
| Travertine, *cub. m* | 55 403.6 | 46 719.5 | 64 133.3 | 273 391.4 | 250 168.5 |
| Zeolithes, *cub.m* | - | - | - | - | 765.6 |
| Rock-salt, salt (from the brine),*t* | 106 081.6 | 172 422.1 | 135 937.7 | 149 397.0 | 142 604.4 |
| Felsite, *cub. m* | 13 852.0 | 8 826.0 | 8 174.1 | 10 524.2 | 3 525.3 |
| Felsite tufa, *cub. m* | 3 340.0 | 3 640.0 | 10 068.5 | 9 025.8 | 3 279.9 |

Table 9. Solid minerals extraction by RA marzes and the City of Yerevan, 2015, (metals in the ore)

|  | Yerevan city | Araga-tsotn | Ararat | Armavir | Geghar-kunik | Lori | Kotayk | Shirak | Syunik | Vayots Dzor | Tavush |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Salt (from the brine), thstd.*t* | - | - | - | - | - | - | 129.7 | - | - | - | - |
| Andesite, thsd. *cub. m* | - | - | - | - | - | - | - | 12.7 | - | - | - |
| Andesite basalte,thsd.*cub.m* | - | - | - | - | - | 35.0 | - | 3.2 | 1.4 | - | - |
| Andesite dacite, *cub. m* | - | - | - | - | - | - | - | 8 398.4 | - | - | - |
| Andesite trachite,*cub. m* | - | - | - | - | 250.0 | - | - | - | - | - | - |
| Sand, thsd. *cub. m* | - | - | 18.7 | 99.1 | - | - | - | - | - | - | - |
| Sand-gravel mixture,  *thst. cub. m* | - | 14.2 | 89.9 | 114.1 | 1.6 | 55.0 | 31.8 | 30.8 | 47.2 | 7.9 | 35.6 |
| Sandy limestone, *cub. m* | - | - | - | - | - | - | - | - | - | - | 537.7 |
| Basalt, thsd. *cub. m* | 179.4 | 3.2 | 37.6 | 0.2 | 5.9 | 26.0 | 148.0 | 3.7 | 25.3 | - | 3.4 |
| Polymetallic ore, *thsd. t* | - | - | 968.5 | - | - | 146.4 | 36.7 | - | 161.3 | - | - |
| Bentonitic clay, *t* | - | - | - | - | - | - | - | - | - | - | 9 228.0 |
| Gabbro,*cub. m* | - | - | - | - | 580.0 | - | - | - | - | - | - |
| Gabrodiorit, *cub. m* | - | - | - | - | - | 166.3 | - | - | - | - | - |
| Gabbrosyenite,*cub. m* | - | - | - | - | - | 100.0 | - | - | - | - | - |
| Gypsiferous clay, *cub. m* | 15 492.9 | - | - | - | - | - | - | - | - | - | - |
| Gypsum stone, *cub.m* | - | - | - | - | 734.3 | - | - | - | - | - | - |
| Granite, *cub. m* | - | - | - | - | - | - | 16 557.0 | - | - | - | - |
| Granite ( tonalite), *cub. m* | - | - | - | - | - | 844.2 | - | - | - | - | - |
| Metals, *t* | - | - | 20 | - | - | 10 487.2 | - | - | 75 036.1 | - | - |
| Dacitetufa, *cub. m* | - | - | - | - | 578.0 | - | - | - | - | - | - |
| Diabase porphyrite, *cub.m* | - | - | - | - | - | 557.6 | - | - | - | - | - |
| Diatomite, *cub. m* | - | - | 8 118.0 | - | - |  | - | - | - | - | - |
| Dolerit, *cub. m* | - | - | - | - | - | 920.8 | - | - | - | - | - |
| Doleritic basalt, *cub. m* | - | - | - | - | - | 827.8 | - | - | - | - | - |
| Lithoid pumice, *cub. m* | - | - | - | 6 651.0 | - | - | 68 696.8 | - | - | - | - |
| Clay, *cub. m* | 492.6 | - | 72 112.0 | - | - | - | - | - | - | - |  |
| Quartzite, *t* | - | - | - | - | - | - | - | - | - | 11 942.1 | - |
| Limestone, *cub. m* | - | - | 14 154.0 | - | - | - | - | - | - | - | - |
| Scoria, *cub. m* | - | 17 056.0 | - | - | 10 231.6 | - | 5 976.0 | 3 404.0 | 10 928.2 | 7 609.0 | - |
| Scoriasand, *cub. m* | - | - | - | - | - | - | 5 767.0 | - | - | - | - |
| Marble, *cub. m* | - | 180.0 | - | - | - | - | 29.9 | - | - | - | - |
| Pumice, *cub. m* | - | - | - | - | 14 075.5 | - | - | - | - | - | - |
| Perlite, *cub. m* | - | 37 116.0 | - | - | - | - | - | - | - | - | - |
| Perlite sand,*cub. m* | - | - | - | - | 20 540.7 | - | - | - | - | - | - |
| Copper molybdenic ore, *thsd. t* | - | - | - | - | - | 5 643.2 | - | - | 20 934.1 | - | - |
| Peat, *t* | - | - | - | - | 58.0 | 3 382.0 | - | - | - | - | - |
| Tufa, *cub. m* | - | 63 242.9 | - | 4 244.0 | 1 272.0 | - | - | 39 737.3 | - | - | - |
| Sandi tufa,*cub. m* | - | - | - | - | - | 3 730.1 | - | - | - | 21.7 | - |
| Troctolite, *t* | - | - | - | - | 73 346.0 | - | - | - | - | - | - |
| Travertine, *cub. m* | - | - | 249 975.7 | - | - | - | - | - | - | 192.8 | - |
| Zeolithes, *cub.m* | - | - | - | - | - | - | - | - | - | - | 765.6 |
| Rock-salt, *t* | 12 928.8 | - | - | - | - | - | - | - | - | - | - |
| Felsite, *cub. m* | - | - | - | - | - | - | - | - | - | - | 3 525.3 |
| Felsite tufa, *cub. m* | - | - | - | - | - | - | - | - | - | - | 3 279.9 |

**Section 3. Export**

* 1. **Data on Export**

The volumes of export of mining produce in monetary and in kind value are accounted for by the RA State Revenue Committee and are published by the RA National Statistics. The data are published in following three handbooks:

* 1. FOREIGN TRADE OF THE REPUBLIC OF ARMENIA FOR 2015 According to the Commodity Nomenclature of External Economic Activity at 4-digit level, Statistical handbook - <http://armstat.am/am/?nid=82&id=1825>

The Handbook includes following information:

* Export and import volumes (in monetary and in kind value) according to the sections and clusters of the Commodity Nomenclature of External Economic Activity (CNEEA), by individual countries, summed by CIS countries, the external world and the EU countries;
* Export and import volumes by commodity codes and specification at the 2-digit level of "Standard classification of International Trade"
* Export and import volumes by commodity codes and specification given in the "Broad economic activities" classification.

Volumes of export are calculated by FOB prices, and those for import by CIF prices (including the insurance and transportation costs before the products reach the country of import).

For calculation of the monetary indicators for export and import, the recalculation of the national AMD was built upon the daily formal exchange rate of the RA Central Bank.

|  |  |
| --- | --- |
| Level | National |
| Frequency | Annual |
| Time of publication | IV quarter, October |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1825> |
| Indicators | In the enclosed Excel file |

* 1. FOREIGN TRADE OF THE REPUBLIC OF ARMENIA FOR 2015 according to the Commodity Nomenclature of External Economic Activity at 4-digit level, Statistical Handbook - <http://armstat.am/am/?nid=82&id=1806>

The Handbook includes the volumes of export and import (in monetary and in kind value) at the 4-digit level of CNEEA positions (subclusters), as well as individually:

- according to the data given in the customs declarations (legal entities)

- according to the volume of sale organized by natural persons.

Export volumes are calculated at FOB prices, and those for import - at CIF prices (including the insurance and transportation costs before the products reach the country of import). For calculating the monetary indicators for export and import, the recalculation of the national AMD was based on US dollar, in accordance with the daily official exchange rate of the RA Central Bank.

|  |  |
| --- | --- |
| Level | National |
| Frequency | Annual |
| Time of publication | III quarter, September |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1806> |
| Indicators | In the enclosed Excel file |

* 1. FOREIGN TRADE OF THE REPUBLIC OF ARMENIA FOR 2015 According to the Commodity Nomenclature of External Economic Activity at 4-digit level, Statistical handbook - <http://armstat.am/file/article/f._t-2015-10-nish-00.pdf>

The materials of the Handbook are based on the data from customs statistics of Armenia and statistical observations (data on commerce by citizens during their trips is not included). The Handbook gives the volumes of export and import in monetary and in kind values according to the Commodity Nomenclature of External Economic Activity (CNEEA), in following sequence:

- Commodity title (I-XXI),

- Commodity cluster (2-digit code),

- Commodity sub cluster (4-digit code),

- Commodity (10-digit code).

The volumes of export includes domestically produced goods, as well as re-exported goods of foreign production. The export volumes are calculated at ՖՕԲ prices, and those of import - at CIF prices (including the insurance and transportation costs before reaching the economic territory of the importing country).

For calculation of monetary indicators of export and import, recalculation of the national currency to US dollar was based on the daily official exchange rate defined by the RA Central Bank.

|  |  |
| --- | --- |
| Level | National |
| Frequency | Annual |
| Time of publication | III quarter, September |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1793> |
| Indicators | In the enclosed Excel file |

3.4 **“Environment and Natural Resources in the Republic of Armenia for 2015 and time series of indexes for 2011 – 2015” Statistical Handbook** Volumes of mineral export are given in the "Environment and Natural Resources in the Republic of Armenia in 2015 and the time series of indexes for 2011-2015" Handbook. This Handbook presents data on volume of export of metal and non-metal ore in the mining sector.

|  |  |
| --- | --- |
| Level | National and subnational |
| Frequency | Annual |
| Time of publication | IVquarter, October |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1824> |

Table 10. Volume of exported minerals (according to the summary information of the RA Ministry of Finance), 2011-2015, tons

|  | 2011 | 2012 | 2013 | 2014 | 2015 |
| --- | --- | --- | --- | --- | --- |
| Salt - of all types | 5 623.0 | 5 713.5 | 2 517.1 | 1 063.1 | 134.5 |
| Natural sand - of all types | 0.9 | **-** | **-** | 1.0 | 0.6 |
| Clay, bentonite, kyanite, andalusite | 1 167.8 | 3 750.5 | 2 777.9 | 582.8 | 3 978.6 |
| Infusorial silicate soil (rock flour) | 2 462.0 | 3 040.5 | 2 842.5 | 2 651.4 | 2 417.2 |
| Marble, tufa, limestone, travertine | 2 622.0 | 4 277.3 | 4 378.4 | 7 104.8 | 3 121.6 |
| Granite, basalt, porphyry, sandstone | 5 987.5 | 6 226.9 | 6 436.2 | 4 389.9 | 3 121.6 |
| Detritus, polished quarry tile, chipping | 2 691.4 | 1 326.7 | 80.8 | 4.9 | 3 152.4 |
| Bituminous coal | - | - | 94.5 | - | - |
| Other mineral products | 662.4 | 716.5 | 32.8 | 23.7 | 460.8 |
| Copper ore and concentrate | 118 332.5 | 131 459.2 | 173 207.5 | 185 089.7 | 309 183.8 |
| Lead ore and concentrate | - | 97.0 | - | - | - |
| Molybden ore and concentrate | 860.0 | 780.9 | 780.0 | 900.0 | 959.7 |
| Zinc ore and concentrate | 14 888.0 | 17 196.7 | 17 937.8 | 14 338.2 | 14 137.2 |
| Other metal ore and concentrate | 62.4 | 3 571.4 | 0.03 | 5 802.4 | 6 497.0 |

**Section 4. Geological explorations**

* 1. **Total number of mining rights issued for geological exploration**

Mining rights for geological exploration are granted by the RA Ministry of Energy Infrastructures and Natural Resources, information whereon is published on the official website of the Ministry, titled "**Information as of 01.07.2015 on mining rights issues for geological exploration with the purpose of extraction of minerals",** link <http://www.minenergy.am/page/422>.

* 1. **Main geological works**

Geological works are presented in the "Environment and Natural Resources in the Republic of Armenia in 2015 and the time series of indexes for 2011-2015" Statistical Handbook.

|  |  |
| --- | --- |
| Level | National |
| Frequency | Annual |
| Time of publication | IVquarter, October |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1824> |

Table 11. Geological works by spheres and work stages, 2015 thousand. drams

| Sphere | Total | of which by stages | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| prospecting | investigative-evaluative | preliminary investigation | detailed investigation | other works |
| Non-ferrous metals | 150 834 | 21 244 | 19 350 | 16 400 | 93 840 | - |
| Noble metals | 269 129 | 53 831 | 181 298 | - | 34 000 | - |
| Non-metals | 2 609 | - | - | 2 609 | - | - |
| Regional geological, geophy-sical, hydrogeological works | 112 628 | 1 300 | 1 600 | 105 428 | 4 300 | - |
| Hydrogeological and geological engineeringworks | 82 058 | - | - | - | - | 82 058 |
| Other works | 100 530 | 61 752 | - | 19 398 | - | 19 380 |
| **Total volume of geological works** | **717 788** | **138 127** | **202 248** | **143 835** | **132 140** | **101 438** |

Table 12. Geological exploration works by types, 2011-2015

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | 2011 | 2012 | 2013 | 2014 | 2015 |
| Mechanical drilling*, m* | | *total* | 50.0 | - | - | 9 481.0 | 5 995.0 |
| core | - | - | - | 9 381.0 | 5 920.0 |
| non-core | - | - | - | 100.0 | - |
| rotary –percussion drill | 50.0 | - | - | - | 75.0 |
| Overhead mountainous excavations | | gutter, trench, cleaning*, cub.m* | - | - | - | 8 636.0 | 11 416.0 |
| prospective boring-wells below 5 m of depth*, sq. m* | - | - | - | 66.0 | 79.0 |
| Geological mining, *sq. km* | | |  | - | - | 44.0 | 32.0 |
| Geochemical mining, *sq. km* | | |  | - | - | 75.0 | 12.0 |
| Geophysical mining, *sq. km* | *total* | | - | - | - | 74.0 | 10.0 |
| electrical exploration | | - | - | - | 2.0 | 2.0 |
| gravity and magnetic exploration | | - | - | - | 72.0 | 8.0 |
| Hydrogeological and geological engineering mining, *sq. km* | | |  | - | - | 3.0 | 1.0 |
| Regional works*, thsd. drams* | total | | - | - | - | 356 175.0 | 112 628.0 |
| geological | | - | - | - | 352 050.0 | 105 428.0 |
| hydrogeological and geological engineering | | - | - | - | - | 7 200.0 |
| geophysical | | - | - | - | 4 125.0 | - |
| Transportation of personnel and cargo*, thsd. drams* | | | - | - | - | 22 713.0 | 15 927.0 |
| Laboratory work, *thsd. drams* | | | 49 996.0 | 68 338.5 | 110 146.7 | 106 806.0 | 104 292.0 |
| Field work (map compilation, design and other), *thsd. drams* | | | 55 400.0 | 85 375.0 | 14 850.0 | 350 372.0 | 48 472.0 |
| Improvement, *thsd. drams* | | | - | - | - | 69 564.0 | 3 328.0 |
| Temporary buildings, *thsd. drams* | | | - | - | - | 34 600.0 | 170.0 |
| Other works*, thsd. drams* | | | 2 720.0 | - | - | 125 748.0 | 232 889.0 |

**Section 5. Mining rights, main activities and exploited mines**

* 1. **Total number of mining rights granted for extraction**

The information is published on the official website of the Ministry, titled "**Information as of 01.07.2015 on mining rights issues for extraction of minerals",** link <http://www.minenergy.am/page/422>.

* 1. **Main extraction activities, exploited mines**

**General information** - <http://www.minenergy.am/page/472>

At present more than 670 mines of approved resources of solid minerals is on the state balance of mineral resources, including 30 metal mines. Out of these mines around 400 are exploited, including 22 metal mines.

The subsoil of the Republic of Armenia is endowed with following types of metal minerals, such as iron, copper, molybdenum, lead, zinc, gold, silver, aluminum and rare and scattered metals contained therein. Among metal minerals there are 7 copper-molybdenum, 4 copper, 14 gold and gold-polymetallic, 2 pollymetallic, 2 iron and 1 aluminum mine. In addition to basic metals contained in ore in mines registered in the state balance, rare and scattered elements were identified, such as rhenium, selenium, tellurium, cadmium, indium, helium, thallium, bismuth, etc. In addition to appraised mines registered on the State balance, 115 projections of different metals were identified in the territory of the Republic of Armenia.

Table 13. Solid minerals mining indicators by the main types of economic activities of mining companies (by NACE REV.2), 2015, (metals are in the ore)

| Minerals | Exhaustion of supplies | Extraction | Losses from exha-usted supplies, *%* |
| --- | --- | --- | --- |
| Andesite basalte, *cub. m* | 16 640.4 | 13 828.0 | 16.9 |
| Andesite dacite, *cub. m* | 9 229.0 | 8 398.4 | 9.0 |
| Andesite trachite, *cub. m* | 275.0 | 250.0 | 9.1 |
| Sand, *cub. M* | 78 051.1 | 74 214.9 | 4.9 |
| Sand-gravel mixture, *thsd.cub. m* | 201.1 | 192.8 | 4.2 |
| Sandy limestone, *cub. m* | 572.0 | 537.7 | 6.0 |
| Basalt, thsd. *cub. m* | 369.8 | 310.0 | 16.2 |
| Polymetallic ore, *thsd. t* | 1 397.8 | 1 312.9 | 6.1 |
| Bentonitic clay, *t* | 11 345.0 | 9 228.0 | 18.7 |
| Gabrodiorit, *cub. m* | 231.0 | 166.3 | 28.0 |
| Gypsiferous clay, *cub. m* | 5 962.6 | 3 782.1 | 36.6 |
| Gypsum stone, *cub.m* | 741.7 | 734.3 | 1.0 |
| Granite (tonalite), *cub. M* | 978.8 | 844.2 | 13.8 |
| Metals, *t* | 88 690.6 | 85 543.3 | 3.5 |
| Dacite tufa, c*ub. m* | 705.0 | 578.0 | 18.0 |
| Diabase porphyrite, *cub. m* | 770.2 | 557.6 | 27.6 |
| Dolerit, *cub. m* | 1 073.4 | 920.8 | 14.2 |
| Doleritic basalt, *cub. m* | 896.6 | 827.8 | 7.7 |
| Lithoid pumice, *cub. m* | 78 570.0 | 75 347.8 | 4.1 |
| Clay, *cub. m* | 11 844.3 | 10 884.1 | 8.1 |
| Quartzite, *t* | 12 943.6 | 11 942.1 | 7.7 |
| Limestone, *cub. m* | 8 507.0 | 7 721.0 | 9.2 |
| Scoria, *cub. m* | 58 435.0 | 46 874.8 | 19.8 |
| Scoria sand, *cub. m* | 5 767.0 | 5 767.0 | - |
| Marble, *cub. m* | 200.0 | 180.0 | 10.0 |
| Pumice, *cub. m* | 14 075.5 | 14 075.5 | - |
| Perlite sand, *cub. m* | 21 019.0 | 20 540.7 | 2.3 |
| Copper molybdenic ore, *thsd. T* | 26 870.6 | 26 577.3 | 1.4 |
| Peat*, t* | 3 452.3 | 3 440.0 | 0.4 |
| Tufa, *cub. m* | 58 781.1 | 48 423.5 | 17.6 |
| Sandi tufa, *cub. m* | 1 756.0 | 1 180.8 | 32.8 |
| Troctolite, *t* | 80 836.0 | 73 346.0 | 9.3 |
| Travertine, *cub. m* | 41 754.0 | 37 899.5 | 9.2 |
| Zeolithes, *cub.m* | 781.3 | 765.6 | 2.0 |
| Rock-salt, *t* | 26 704.6 | 12 928.8 | 51.6 |
| Felsite, *cub. m* | 4 064.0 | 3 525.3 | 13.3 |
| Felsite tufa, *cub. m* | 3 805.0 | 3 279.9 | 13.8 |

**Section 6. Financial indicators**

Financial indicators for mining companies are published by the RA NSS, in the "Financial Statistics of Armenia" Handbook. The information is collected from the sample of companies, and since the indicators for companies included in the sample cover the main population, all indicators describe the economy as a whole.

|  |  |
| --- | --- |
| Level | National |
| Frequency | Annual |
| Time of publication | IVquarter, October |
| Language | Armenian, English |
| Source | <http://armstat.am/am/?nid=82&id=1823> |
| Type of activity | Mining and quarrying |
| Indicators | In the enclosed Excel file |
| Number of companies in the sample |
| Liabilities for bank credits and loans |
| Accounts payable |
| Accounts receivable |
| Costs of production by types |

**Section 7. Foreign investments**

The RA National Statistical service annually publishes information on foreign investments made in the real sector of the Armenian economy in the "Social and economic situation in the Republic of Armenia in January-February" monthly informational report, by types of economic activity.

|  |  |
| --- | --- |
| Title | "Social and economic situation in the Republic of Armenia in January-February" monthly informational report |
| Level | National |
| Frequency | Monthly, but the data are published only in the mentioned report |
| Time of publication | II quarter, March |
| Language | Armenian, Russian |
| Source | <http://armstat.am/am/?nid=82&id=1890> |
| Type of activity | Extraction of metal ore |
| Other mining and quarrying |
| Mining and quarrying related activity |
| Indicators | In the enclosed Excel file |
|  | Foreign investments |
|  | Foreign direct investments |
|  | Foreign investments by country |
|  | Foreign direct investments by country |

Table 14. Volume of net inflows of foreign investments in the real sector by types of activity, million AMD

| **Code [[1]](#footnote-1)1** | **Type of activity (by NACE**  **REV. 2)** | **January-December 2015◊** | | **January-December 2016** | | **Absolute change** | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Net inflows[[2]](#footnote-2)2** | | **Net inflows2** | |
| Total[[3]](#footnote-3)3 investments | Of which direct investments | Total[[4]](#footnote-4)3 investments | Of which direct investments | Total[[5]](#footnote-5)3 investments | Of which direct investments |
|  | **TOTAL** | **118 409,3** | **69 426,8** | **81 581,3** | **62 679,3** | **-36 828,0** | **-6 747,6** |
|  | including |  |  |  |  |  |  |
| 7 | Extraction of metal ore | 4 319,3 | 3 006,8 | -34 100,9 | -17 845,5 | -38 420,2 | -20 852,3 |
| 8 | Other mining and quarrying | 56 462,0 | 26 460,7 | -19 167,7 | -7 318,5 | -75 629,7 | -33 779,2 |
| 9 | Mining related activities | 3 666,4 | 3 371,5 | 40 923,9 | 41 852,8 | 37 257,5 | 38 481,3 |

Table 15. Distribution of net inflows of foreign investments into the real sector by country, million AMD

| **Type of activity**  **(by NACE REV. 2)** | **Country** | **January-December 2015** | | **January-December 2016** | |
| --- | --- | --- | --- | --- | --- |
| **Net inflows** | | **Net inflows** | |
| Total investments | Of which direct investments | Total investments | Of which direct investments |
| **Total** |  | **118 409,3** | **69 426,8** | **81 581,3** | **62 679,3** |
| *Including* |  |  |  |  |  |
| **Extraction of metal ore** |  | **4 319,3** | **3 006,8** | **-34 100,9** | **-17 845,5** |
|  | Cyprus | 1 444,9 | - | -946,4 | - |
| Netherlands | -132,5 | - | -16 739,4 | -1 430,5 |
| Russian Federation | 3 006,8 | 3 006,8 | -16 415,0 | -16 415,0 |
| **Other mining and quarrying** |  | **56 462,0** | **26 460,7** | **-19 167,7** | **-7 318,5** |
|  | Croatia | -43,1 | - | -74,0 | - |
| Cyprus | 8,2 | 59,3 | - | - |
| Germany | 12 300,7 | -15 765,6 | -15 003,5 | -7 333,1 |
| Russian Federation | - | - | -4 449,7 | 14,6 |
| Switzerland | 43 650,8 | 42 167,0 | 385,4 | - |
| United Kingdom | 545,4 | - | -25,9 | - |
| **Mining related activities** |  | **3 666,4** | **3 371,5** | **40 923,9** | **41 852,8** |
|  | Russian Federation | 295,0 | - | 253,7 | 1 182,5 |
| United Kingdom | 3 371,5 | 3 371,5 | 30 551,2 | 30 551,2 |
| Jersey | - | - | 10 119,1 | 10 119,1 |

1. 1Classification of foreign investments is based on the second revision of the National Classification of All Economic Activities" (NACE), [↑](#footnote-ref-1)
2. 2 Net inflows in the reporting period are the differences between the receipts and repayments for foreign investments. [↑](#footnote-ref-2)
3. 3 Total investments include direct investments, portfolios and other investments (the latter includes credits and loans, amounts payable/receivable for goods and services, received/paid up-fronts). [↑](#footnote-ref-3)
4. [↑](#footnote-ref-4)
5. [↑](#footnote-ref-5)