***Introduction***

 urvey of mines-related activities and

 continuous dissemination of its results

 began by the then Ministry of Industries and Mines in the year 1333. Related statistics were published annually in the attachment of the publication "Statistics on Manufacturing Activities" until the year 1339, but they have appeared in a separate publication ever since under the title of "Statistics on Mineral Activities of Iran". The first census of mines of the country was carried out in the month of Azar in the year 1342 by the Ministry of Economy. Statistical Bureau of the Ministry of Economy gathered and published statistics on mines-related activities annually from the year 1342 to the year 1353, using statistics from nationwide mines registers and records. The second census of authorized mines of the country was conducted by the cooperation of the SCI and the Ministry of Industries and Mines in the year 1353. The SCI used to conduct a survey of a selected number of mines annually from the year 1353 to the year 1357. This economic sector suffered from a lack of statistics during the year 1357 to the year 1363, because in the interim neither statistical surveys were implemented nor comprehensive registers were available. The SCI conducted a survey of mines, covered by the public sector in the years 1364 and 1365, and also carried out the third census of mines of the country in the year 1366. Survey of mines has been conducted every year from the year 1367 to the year 1385 except for the years` 1370 and 1384.

 The data presented in this chapter are from the aforementioned censuses and surveys as well as data from the mineral cooperatives companies reported by the Ministry of Cooperatives, Labor and Social Welfare .

It should be noted that:

 (1) in the survey of the operating mines of the country, statistics on oil and gas, radioactive materials, and clay were not collected. However, due to the special importance of oil and gas statistics, the related information is separately presented in chapter 6.

 (2) in the survey of operating mines, sand and gravel mines are enumerated by a sample survey, and other mines by a census.

(3) the ISIC Rev.3 is followed with appropriate modifications for the classification of activities in this sector.

***Definitions and concepts***

***Mine:*** collection of (cost-effective) mineral deposits, machinery, and facilities established for exploring, equipping, and exploiting and dressing of minerals. Dressing refers to all physical and chemical operations for separating some of waste materials from ores or separating ores from one another.

***Operating mine:*** any mine with exploitation license from the Ministry of Industries and Mines (for mines other than sand and gravel) or from municipalities and governors offices (for sand and gravel) that has been under extraction (in some cases with dressing activities) for at least 30 successive or non successive days to produce marketable ores during the year of the enumeration.

***Private management:*** management exercised by individuals or private institutions.

***Public management:*** management exercised by the ministries, government organizations, Islamic Revolution Foundations, banks, municipalities and other public institutions.

***Workers:*** all the individuals working full-time or

part-time in mine-related activities inside or outside of the mine. The employed persons are divided into two groups: production line workers (skilled and unskilled) and other workers (administrative, financial and service) according to their duties.

***Production line skilled workers:*** employed persons capable of performing a part of technical activities related to production line due to their know-how and experience. Engineers, technicians, craftsmen, foremen, skilled labourers, fitters, and drivers, are some examples.

***Production line unskilled workers:*** persons working in production line whose jobs do not require any specific training or experience; such as labourers and porters.

***Other workers (administrative, financial and service):***employed persons engaged in clerical, administrative, financial and services activities in mines or their central offices but not engaged directly in extraction and production activities.

 In presentation of statistics on employed persons, it is noteworthy that the method of “average number of employed persons” has been employed in the calculation.

***Compensation of employees:*** see Chapter 4, Definitions and concepts.

***Mineral production:*** all minerals obtained from a series of extraction activities which make them marketable. It should be mentioned that in some mining activities, minerals are supplied to the market without undergoing dressing process, whereas in others, minerals are supplied to the market after a series of physical and/or chemical treatments for separating some of the waste from ores, separating ores from one another, or increasing fineness of raw material. In addition, in one industry, several minerals may be produced. For example, copper ore mining activity includes minerals of copper ore and copper and molybdenum concentrates production.

***Value of products:*** value of extracted ores and value of saleable mineral waste products at producer's prices; that is, the price of sale to customers at the mine.

***Capital formation(changes in the value of capital goods):*** see Chapter 4, Definitions and concepts.

***Value added:*** value of receipts (outputs) less the value of payments (inputs).

***Value of receipts (outputs):*** value of mineral products, value of saleable mineral waste products, manufacture and major repairs of capital goods by mine workers and other receipts of the mine including receipts from contracts, minor repairs of buildings and office equipment, minor repairs of machinery, laboratory, etc.

***Value of payments (inputs):*** value of purchased materials and non- durable tools and instruments, fuel consumed, water and electricity, and other payments including payments on contracts, minor repairs of building and office equipment, minor repairs of machinery, laboratory, etc.

***Cooperative:*** see Chapter 4, Definitions and concepts.

***Mines cooperative:***  a cooperative company engaged in excavation, exploitation, and sales of minerals obtained from operating mines

# ***Selected information***

On the basis of the country’s operating mines survey results in the year 1390, there were 5246 operating mines. The results show that a total of 84528 persons were working in these mines and the number of workers increased by 3.98 percent in contrast to the year 1389.

In the year 1390, the value of mines products amounted to 65442 billion rials. Iron ore, copper ore and decorative stones with 27277, 15442 and 5392 bln. rials had the highest annual production value respectively.

In the year 1390, the value added of the nation's operating mine amounted to 47830 bln rials. Iron ore, copper ore, and decorative stones with 18292, 12431 and 4426 bln rials had the highest value added, respectively. These three accounted for more than 73% of the sector's total value added.

Moreover, Kerman, Yazd and East Azerbaijan with 20196, 9625 and 2232 bln rials had the highest value added of the country’s operating mines among the provinces,.

In the year 1390, out of the total 6149 bln. rials of fresh investments, over 48% relates to machinery, durable tools and administrative equipment and 6.7% goes to the construction and land.

# **5. 1. NUMBER OF MINES, WORKERS, COMPENSATION OF EMPLOYEES AND VALUE OF PRODUCTION IN OPERATING MINES(1) BY OSTAN (mln rials)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year and Ostan | Number of mines | Number of workers  | Compensation of employees | Value of production(3) |
| Total | Type of management  | Total(2) | Production line | Other (administra-tive, financial and service) |
| Private‍ | Public | Skilled | Unskilled |
| 1375 ..............  | 2704 | 2137 | 567 | 53046 | 23259 | 16372 | 13415 | 480155 | 1941600 |
| 1380............. . | 2892 | 2548 | 344 | 55560 | 28013 | 14939 | 12608 | 899382 | 5675787 |
| 1385............ . | 3582 | 3301 | 281 | 60062 | 31107 | 16146 | 12810 | 2307840 | 22642408 |
| 1386..............  | 3799 | 3550 | 247 | 66250 | 35375 | 18010 | 12867 | 3325650 | 30647053 |
| 1387............. . | 4116 | 3870 | 246 | 75458 | 40031 | 21146 | 14281 | 4348255 | 35567776 |
| 1388............. . | 4426 | 4181 | 245  | 76854 | 41229 | 19297 | 16328 | 5518477 | 35586170 |
| 1389  | 4974 | 4756 | 218 | 81293 | 46336 | 17357 | 17599 | 6403153 | 50147576 |
| ***1390…***  | ***5246*** | ***5036*** | ***209*** | ***84528*** | ***45159*** | ***21280*** | ***18089*** | ***7316839*** | ***65442497*** |
| East Azarbayejan  | 231 | 222 | 9 | 4361 | 1965 | 1516 | 880 | 238119 | 2886564 |
| West Azarbayejan  | 377 | 362 | 15 | 2745 | 1280 | 505 | 960 | 145106 | 859997 |
| Ardebil ..............  | 99 | 99 | 0 | 720 | 369 | 162 | 189 | 36870 | 155488 |
| Esfahan ..............  | 414 | 405 | 10 | 6484 | 3790 | 1135 | 1559 | 517565 | 2368256 |
| Alborz  | 30 | 30 | 0 | 478 | 214 | 154 | 110 | 36926 | 180949 |
| Ilam............. . | 43 | 41 | 3 | 545 | 269 | 183 | 93 | 25423 | 142639 |
| Bushehr............. . | 190 | 183 | 6 | 1550 | 714 | 338 | 498 | 84259 | 427767 |
| Tehran............. . | 118 | 115 | 3 | 2725 | 1131 | 1025 | 569 | 221352 | 1366492 |
| Chaharmahal&Bakhtiyari ..............  | 100 | 96 | 4 | 460 | 304 | 0 | 156 | 20439 | 222730 |
| South Khorasan  | 152 | 146 | 7 | 1965 | 1237 | 395 | 333 | 155789 | 749302 |
| Khorasan-e-Razavi.. | 477 | 468 | 9 | 4280 | 2175 | 1188 | 916 | 297254 | 2194642 |
| North Khorasan.  | 70 | 60 | 10 | 1091 | 746 | 266 | 79 | 41956 | 363785 |
| Khuzestan ..............  | 160 | 160 | 0 | 1855 | 994 | 497 | 364 | 117627 | 712136 |
| Zanjan ..............  | 149 | 148 | 1 | 1516 | 873 | 381 | 262 | 104376 | 1108077 |
| Semnan.............  | 279 | 272 | 7 | 3628 | 2426 | 605 | 597 | 236287 | 647196 |
| Sistan&Baluchestan  | 125 | 122 | 3 | 1365 | 714 | 476 | 175 | 91748 | 472107 |
| Fars ..............  | 195 | 187 | 8 | 3812 | 2329 | 839 | 644 | 244852 | 1120093 |
| Qazvin ..............  | 134 | 127 | 7 | 712 | 411 | 189 | 112 | 44938 | 175674 |
| Qom ..............  | 75 | 73 | 2 | 980 | 431 | 295 | 254 | 73504 | 367070 |
| Kordestan ..............  | 141 | 132 | 9 | 1017 | 553 | 193 | 272 | 66264 | 964034 |
| Kerman ............. . | 266 | 254 | 12 | 14437 | 7773 | 3331 | 3333 | 2077415 | 25895094 |
| Kermanshah  | 143 | 138 | 5 | 1132 | 576 | 340 | 216 | 73494 | 367661 |
| Kohgiluyeh&Boyerahmad  | 118 | 99 | 19 | 830 | 409 | 267 | 153 | 47200 | 183190 |
| Golestan ............. . | 94 | 84 | 9 | 2154 | 1148 | 631 | 374 | 186237 | 555917 |
| Gilan ..............  | 47 | 43 | 5 | 1216 | 615 | 388 | 213 | 76924 | 233419 |
| Lorestan............. . | 154 | 149 | 5 | 1428 | 888 | 326 | 215 | 93000 | 690778 |
| Mazandaran  | 102 | 91 | 11 | 2697 | 1513 | 702 | 483 | 209438 | 569978 |
| Markazi ..............  | 273 | 262 | 11 | 2770 | 1683 | 503 | 584 | 236323 | 2580588 |
| Hormozgan ..............  | 66 | 66 | 0 | 1122 | 560 | 385 | 178 | 72506 | 496106 |
| Hamedan .............  | 165 | 156 | 9 | 1091 | 626 | 223 | 242 | 56606 | 323069 |
| Yazd ............. . | 257 | 245 | 12 | 13359 | 6444 | 3839 | 3077 | 1387040 | 16061700 |

 |
| *1.* *Statistics for sand and gravel mines obtained from sample surveys were generalized to the total country and caused some differences between the total and sum of parts in some cases.* |
| *2. Excluding the workers of mines whose extraction activities were entrusted to others under a contract, in the year 1386 and before .*  |
| *3. Including the value of mineral and other products*  |
| *Source: Statistical Centre of Iran.* |
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| **5.2. NUMBER OF MINES, WORKERS, COMPENSATION OF EMPLOYEES AND VALUE OF PRODUCTION IN OPERATING MINES(1) BY TYPE OF ACTIVITY, THE YEAR 1390****( mln.rials)** |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Activity | Number of mines | Number of workers  | Compensa-tion of employees  | Value of production |
| Total | Type of management  | Total | Production line | Other (adminis-trative, financial and service) |
| Private‍ | Public | Skilled | Unskilled |
| ***Total ..... .........*** | ***5246*** | ***5036*** | ***209*** | ***84528*** | ***45159*** | ***21280*** | ***18089*** | ***7316839*** | ***65442497*** |
| Mining of coal .............. | 116 | 105 | 11 | 10749 | 5504 | 3067 | 2177 | 957043 | 2180822 |
| Mining of iron ore .............. | 112 | 103 | 9 | 14394 | 7609 | 3414 | 3370 | 1799605 | 27277137 |
| Mining of lead and zinc .............. | 24 | 20 | 4 | 1666 | 881 | 502 | 283 | 169551 | 1524035 |
| Mining of gold ore .............. | 4 | 2 | 2 | 291 | 173 | 58 | 60 | 30058 | 138088 |
| Mining of copper ore .............. | 26 | 24 | 2 | 6973 | 3725 | 1823 | 1426 | 923891 | 15442228 |
| Mining of chromite .............. | 44 | 44 | 0 | 1682 | 714 | 701 | 268 | 244497 | 1159852 |
| Mining of manganese .............. | 25 | 24 | 1 | 546 | 194 | 209 | 143 | 47720 | 213050 |
| Mining of bauxite .............. | 9 | 7 | 2 | 580 | 469 | 77 | 33 | 20674 | 220154 |
| Mining of cobalt, antimony and titanium.......................... | 1 | 0 | 1 | 7 | 4 | 0 | 3 | 689 | 2800 |
| Mining of gravel and sand .. ............ | 1623 | 1514 | 109 | 15013 | 7526 | 3947 | 3540 | 906385 | 4347035 |
| Mining of decorative stones ........ ...... | 822 | 815 | 6 | 11644 | 6785 | 2676 | 2182 | 876122 | 5392055 |
| Mining of rubble stone .............. | 744 | 726 | 18 | 4953 | 2660 | 1150 | 1144 | 252814 | 1297833 |
| Mining of ballast stone.............. | 6 | 4 | 2 | 91 | 50 | 18 | 23 | 10066 | 35428 |
| Mining of lime stone .............. | 669 | 641 | 28 | 7668 | 4539 | 1535 | 1594 | 563015 | 3506766 |
| Mining of gypsum .............. | 275 | 271 | 4 | 2028 | 1098 | 446 | 485 | 119047 | 654609 |
| Mining of kaolin and fireclay ....... ....... | 194 | 194 | 0 | 1526 | 742 | 449 | 335 | 91513 | 464923 |
| Mining of dolomite .............. | 30 | 29 | 1 | 213 | 127 | 33 | 53 | 13973 | 82230 |
| Mining of bentonite’s and fuller’s earth .............. | 38 | 38 | 0 | 227 | 125 | 53 | 49 | 10434 | 42421 |
| Mining of magnesite and whiting .... .......... | 22 | 22 | 0 | 241 | 127 | 69 | 45 | 18665 | 70630 |
| Mining of sodium sulphate ... ........... | 12 | 12 | 0 | 123 | 38 | 14 | 72 | 8669 | 45370 |
| Mining of barite, limonite and ferrous oxide  | 67 | 65 | 2 | 600 | 248 | 237 | 114 | 35146 | 139921 |
| Mining of fluorine .............. | 19 | 19 | 0 | 280 | 141 | 102 | 37 | 14802 | 94388 |
| Mining of strontium sulphate& boron .............. | 6 | 6 | 0 | 49 | 32 | 10 | 8 | 3644 | 22089 |
| Mining of orpiment phosphate & iodine .............. | 3 | 1 | 2 | 305 | 223 | 37 | 45 | 37362 | 190526 |
| Mining of salt ..... ......... | 75 | 74 | 1 | 704 | 363 | 194 | 147 | 43481 | 224582 |
| Mining of silica .............. | 101 | 100 | 1 | 729 | 417 | 175 | 137 | 46002 | 359019 |
| Mining of ores slag .............. | 95 | 93 | 2 | 712 | 406 | 117 | 189 | 44288 | 178277 |
| Mining of feldspar .............. | 55 | 55 | 0 | 249 | 134 | 58 | 57 | 12163 | 65794 |
| Mining of talcum .............. | 11 | 11 | 0 | 68 | 31 | 23 | 14 | 3444 | 11749 |
| Mining of shell & mica .............. | 10 | 9 | 1 | 70 | 26 | 24 | 20 | 2982 | 10951 |
| Other precious and semi-precious stones.............................. | 8 | 8 | 0 | 146 | 49 | 62 | 35 | 9093 | 47733 |

 |
| *1.* *Statistics for some mines, obtained from sample surveys were generalized to the total country and caused differences between the total and sum of parts in some cases.* *Source: Statistical Centre of Iran.* |
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| **5. 3. QUANTITY OF MINERALS PRODUCTION IN OPERATING MINES(1) BY TYPE OF** |
| **ACTIVITY (1000 tons)** |
|

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity  | 1375 | 1380 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 |
|  | ***66961*** | ***92649*** | ***138334*** | ***160920*** | ***178905*** | ***203328*** | ***224943*** | ***360688*** |
| ***Total..................................*** |  |  |  |  |  |  |  |  |
|  | ***55428(2)*** | ***47775(2)*** | ***77394(2)*** | ***70260(2)*** | ***70708(2)*** | ***73691(2)*** | ***82986(2)*** | ***×(9)*** |
| Mining of coal ........  | 1211 | 1380 | 2413 | 2565 | 2636 | 2181 | 2324 | 2327 |
| Mining of iron ore ..... . | 5236 | 11441 | 20648 | 24738 | 28474 | 27617 | 30992 | 35843 |
| Mining of lead and zinc……...  | 322 | 579 | 1072 | 677 | 571 | 626 | 1436 | 955 |
| Mining of gold ore ................. | 152 | 352 | 742 | 803 | 668 | 1256 | 1178 | 1077 |
| Mining of copper ore  | 370 | 453 | 790 | 852 | 1115 | 1031 | 1580 | 2094 |
| Mining of chromite .............. | 322 | 174 | 269 | 139 | 269 | 275 | 394 | 440 |
| Mining of manganese  | 83 | 140 | 94 | 103 | 116 | 126 | 125 | 227 |
| Mining of bauxite  | 230 | 65 | 1395 | 1257 | 715 | 522 | 687 | 847 |
| Mining of cobalt......... . | 0 | 0 | 0 | 0 | 4(3) | 4(3) | 🛇 | 7 |
| Mining of antimony .............. | × | 0 | 0 | 1 | 🛇 | 🛇 | 1 | × |
| Mining of titanium......... . | × | × | 4 | 4 | 🛇 | 🛇 | × | × |
| Mining of gravel and sand. | 53869(2) | 46147(2) | 76102(2) | 68488(2) | 68708(2) | 71321(2) | 80241(2) | 126386 |
| Mining of decorative stones…  | 6120 | 10325 | 9908 | 11143 | 13104 | 13839 | 15738 | 14327 |
| Mining of rubble stone  | 7683 | 9359 | 16441 | 21373 | 16265 | 20456 | 21990 | 25622 |
| Mining of ballast ..............  | 959(2) | 802(2) | 394(2) | 788(2) | 686(2) | 626(2) | 398(2) | 525 |
| Mining of lime stone  | 31961 | 43498 | 62959 | 72768 | 89926 | 107373 | 114639 | 115269 |
| Mining of gypsum .............. | 7696 | 8347 | 11878 | 13379 | 12566 | 13616 | 13672 | 15353 |
| Mining of kaolin and fireclay  | 1437 | 1660 | 2716 | 2655 | 4685 | 4326 | 9355 | 6943 |
| Mining of dolomite .............. | 219 | 281 | 514 | 698 | 696 | 1132 | 1251 | 968 |

**5. 3. QUANTITY OF MINERALS PRODUCTION IN OPERATING MINES BY TYPE OF** **ACTIVIT (continued) (1000 tons)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity  | 1375 | 1380 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 |
| Mining of bentonite and fullers's earth  | 85 | 175 | 186 | 254 | 376 | 387 | 355 | 422 |
| Mining of magnesite and whiting …. | 111 | 115 | 189 | 112 | 116 | 131 | 136 | 173 |
| Mining of sodium sulphate  | 464 | 369 | 280 | 633 | 738 | 679 | 858 | 1225 |
| Mining of barite ...  | 159 | 238 | 226 | 245 | 227(4) | 365 | 320 | 407 |
| Mining of limonite and ferrous oxide  | 28 | 76 | // | 2 | 🛇 | 🛇 | 12 | × |
| Mining of fluorine ...... . | 19 | 34 | 63 | 73 | 66 | 71 | 76 | 58 |
| Mining of strontium sulphate…… ….. | 8 | 0 | 17 | 0 | 22(5) | 16(5) | 15 | 76 |
| Mining of boron  | 3 | 3 | 2 | 2 | 🛇 | 🛇 | 1 | × |
| Mining of orpiment ................  | // | // | // | 0 | 62(6) | 61(6) | × | 98 |
| Mining of alum  | × | 1 | 0 | 0 | × | × | × | 0 |
| Mining of phosphate .  | 10 | 33 | 67 | 53 | 🛇 | 🛇 | 62 | × |
| Mining of salt  | 1411 | 1538 | 2618 | 2755 | 2301 | 2816 | 3257 | 2776 |
| Mining of silica  | 1244 | 1687 | 2252 | 2909 | 2508 | 3643 | 3637 | 3133 |
| Mining of ores slag  | 600(2) | 826(2) | 898(2) | 983(2) | 1314(2) | 1743(2) | 2145(2) | 2270 |
| Mining of feldspar  | 122 | 157 | 418 | 524 | 505 | 637 | 648 | 670 |
| Mining of talcum  | 27 | 66 | 69 | 91 | 90 | 67 | 79 | 80 |
| Mining of asbestos  | 2 | 4 | 0 | 0 | × | × | × | × |
| Mining of sea shell  | 219 | 96 | 99 | 110 | 83(7) | 70(7) | 68 | 89 |
| Mining of mica  | 5 | 5 | 2 | 2 | 🛇 | 🛇 | 3 | × |
| Mining of turquoise  | // | // | // | 0 | 🛇 | 🛇 | 0 | 3 |
| Mining of opal  | × | × | // | 0 | 🛇 | 🛇 | 0 | × |
| Other precious and semi-precious stones  | × | × | × | 1 | 2(8) | 4(8) | 5 | × |

1. *Statistics for some mines, obtained from sample surveys, were generalized to the total country and caused differences between the total and sum of parts in some cases*
2. *In thousand cubic meters.*
3. *Including antimony and titanium production*
4. *Including limonite and ferrous oxide production.*
5. *Including boron production.*
6. *Including phosphate and iodine* *production.*
7. *Including mica production*.
8. *Including turquoise and opal production.*
9. *Since the year 1390, the above statistics were collected in thousand tons.*

*Source: Statistical Centre of Iran.* |
|  |
| **5. 4. VALUE OF MINERALS PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY****(mln rials)** |
|

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity | 1375 | 1380 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 |
| ***Total ............. .*** | ***1941600*** | ***5675787*** | ***22642408*** | ***30647053*** | ***35567776*** | ***35586170*** | ***50147576*** | ***65442497*** |
| Mining of coal ............. . | 357943 | 570566 | 1077642 | 1427715 | 1937905 | 1649041 | 1808708 | 2180822 |
| Mining of iron ore .............. | 231205 | 947000 | 5483754 | 9576836 | 12942090 | 11125450 | 17321420 | 27277137 |
| Mining of lead and zinc .............. | 92546 | 195458 | 1855364 | 1784373 | 629212 | 735735 | 1200521 | 1524035 |
| Mining of gold ore .............. | 3042 | 9415 | 113156 | 195740 | 167949 | 219709 | 215820 | 138088 |
| Mining of copper ore .............. | 269038 | 1145592 | 7500248 | 8449079 | 8639421 | 9167938 | 13400520 | 15442228 |
| Mining of chromite .............. | 80024 | 70388 | 297223 | 244018 | 407529 | 395224 | 851529 | 1159852 |
| Mining of manganese .............. | 9344 | 31023 | 51383 | 84811 | 129941 | 122647 | 121374 | 213050 |
| Mining of bauxite .............. | 13194 | 4253 | 153928 | 127506 | 137812 | 107891 | 173306 | 220154 |
| Mining of cobalt. ............. | 0 | 0 | 0 | 0 | 6309(1) | 6184(1) | 3300 | 2800 |
| Mining of antimony .............. | × | 0 | 0 | 5250 | 🛇 | 🛇 | 🛇 | × |
| Mining of titanium.............. | × | × | 4800 | 4960 | 🛇 | 🛇 | 🛇 | × |
| Mining of gravel and sand .............. | 277148 | 543928 | 1548204 | 2147538 | 2393425 | 2783149 | 3288391 | 4347035 |
| Mining of decorative stones .............. | 238796 | 1013763 | 1916393 | 3050306 | 3847756 | 4169838 | 5344709 | 5392055 |
| Mining of rubble stone .............. | 57910 | 309179 | 487803 | 737096 | 634662 | 954698 | 959031 | 1297833 |
| Mining of ballast .............. | 8457 | 17147 | 19448 | 45283 | 46507 | 65214 | 45160 | 35428 |
| Mining of lime stone .............. | 124664 | 363066 | 1079502 | 1516897 | 2023836 | 2305669 | 3234097 | 3506766 |
| Mining of gypsum .............. | 37036 | 87085 | 236511 | 277459 | 336973 | 412816 | 510808 | 654609 |
| Mining of kaolin and fireclay .............. | 36169 | 98729 | 236033 | 201866 | 395615 | 288648 | 437908 | 464923 |
| Mining of dolomite .............. | 6493 | 14337 | 29395 | 52929 | 43748 | 65697 | 93419 | 82230 |
| Mining of bentonite and fuller’s earth .............. | 1490 | 7123 | 12382 | 19321 | 31837 | 45474 | 37087 | 42421 |
| Mining of magnesite and whiting ....... ....... | 10716 | 21069 | 46722 | 32098 | 38143 | 52238 | 58698 | 70630 |
| Mining of sodium sulphate....... ....... | 7729 | 7622 | 14306 | 46499 | 67828 | 62821 | 19358 | 45370 |
| Mining of barite ... ........... | 8351 | 24215 | 39997 | 66128 | 69023(2) | 86653(2) | 97241(2) | 139921(2) |
| Mining of limonite and ferrous oxide ........ ...... | 2317 | 6181 | 41 | 500 | 🛇 | 🛇 | 🛇 | 🛇 |
| Mining of fluorine . ............. | 4448 | 11118 | 53959 | 58485 | 56526 | 94959 | 81750 | 94388 |
| Mining of strontium sulphate ............ .. | 380 | 0 | 1932 | 0 | 7552(3) | 1937(3) | 7410(3) | 22089 |
| Mining of boron ......... ..... | 2235 | 2312 | 3328 | 3180 | 🛇 | 🛇 | 🛇 | 🛇 |
| Mining of orpiment .............. | 144 | 879 | 180 | 560 | 116851(4) | 78127(4) | 95376(4) | 190526(4) |

**5. 4. VALUE OF MINERALS PRODUCTION IN OPERATING MINES BY TYPE OF** **ACTIVITY (continued) (mln rials)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity | 1375 | 1380 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 |
| Mining of alum .......... .... | × | 144 | 0 | 0 | × | × | × | × |
| Mining of phosphate ..... ......... | 600 | 39484 | 31018 | 25153 | 🛇 | 🛇 | 🛇 | 🛇 |
| Mining of iodine………………… | × | × | × | × | 🛇 | 🛇 | 🛇 | 🛇 |
| Mining of salt ....... ....... | 26390 | 38076 | 109273 | 159849 | 134040 | 212121 | 236712 | 224582 |
| Mining of silica ........ ...... | 18314 | 49152 | 148891 | 189067 | 177793 | 216142 | 236691 | 359019 |
| Mining of ores slag .... .......... | 3672 | 10147 | 24926 | 37928 | 70668 | 69320 | 122238 | 178277 |
| Mining of feldspar ........ ...... | 3158 | 9474 | 32814 | 35761 | 36936 | 50997 | 109955 | 65794 |
| Mining of talcum ....... ....... | 1635 | 11491 | 6959 | 8671 | 6639 | 7349 | 8022 | 11749 |
| Mining of asbestos ....... ....... | 1978 | 3450 | 0 | 0 | × | × | × | × |
| Mining of sea shell ....... ....... | 3415 | 7674 | 12786 | 18570 | 21049(5) | 18220(5) | 11906(5) | 10951(5) |
| Mining of mica .......... .... | 1294 | 4293 | 4405 | 5152 | 🛇 | 🛇 | 🛇 | 🛇 |
| Mining of turquoise ... ........... | 325 | 954 | 7625 | 10000 | 🛇 | 🛇 | 🛇 | × |
| Mining of opal ......... ..... | × | × | 78 | 0 | 🛇 | 🛇 | 🛇 | × |
| Other precious and semi-precious stones........ ...... | × | × | × | 470 | 12200(6) | 14264(6) | 15110(6) | 47733(6) |

 |
| *1. Including antimony and titanium production value.* |
| *2. Including production value of limonite and ferrous oxide.* |
| *3. Including production value of boron.* |
| *4. Including production value of phosphate and iodine.* |
| *5. Including production value of mica.* |
| *6. Including production value of opal and turquoise.* |
| *Source: Statistical Centre of Iran.* |

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| **5. 5. VALUE ADDED, INPUTS AND OUTPUTS VALUE OF OPERATING MINES BY OSTAN** **(mln rials)** |
|

|  |  |  |  |
| --- | --- | --- | --- |
| Year and Ostan | Value added  | Payments (inputs)  | Receipts(outputs)  |
| 1375......... ..... | 1421533 | 621369 | 2042902 |
| 1380........... ... | 4618050 | 1254791 | 5872841 |
| 1385...... ........ | 16666060 | 6345035 | 23011095 |
| 1386.... .......... | 23732721 | 7597911 | 31330632 |
| 1387....... ....... | 27754400 | 8632025 | 36386424 |
| 1388.*....* ***.........*** | 26662764 | 9926427 | 36589191 |
| 1389.....  | 38736873 | 12234125 | 50970998 |
| ***1390………………………………....... .*** | ***47826873*** | ***19100952*** | ***66927825*** |
| East Azerbayejan... ........... | 2232427 | 677344 | 2909771 |
| West Azarbayejan ........ ...... | 688566 | 219432 | 907998 |
| Ardebil ........ ..... | 106508 | 60430 | 166938 |
| Esfahan ........ ...... | 1709751 | 768957 | 2478709 |
| Alborz………………………………… | 157526 | 57331 | 214857 |
| Ilam........... ... | 97076 | 47513 | 144589 |
| Bushehr ......... ..... | 336278 | 114978 | 451257 |
| Tehran........... ... | 1200784 | 535363 | 1736147 |
| Chaharmahal&Bakhtiyari ........ ...... | 173846 | 55136 | 228982 |
| South Khorasan .......... .... | 550830 | 222435 | 773264 |
| Khorasan-e-Razavi ....... ....... | 1666794 | 568990 | 2235784 |
| North Khorasan .......... .... | 185337 | 179408 | 364745 |
| Khuzestan ...... ........ | 521060 | 207022 | 728082 |
| Zanjan .......... .... | 673865 | 469609 | 1143474 |
| Semnan........... ... | 503358 | 178943 | 682302 |
| Sistan&Baluchestan ....... ....... | 372895 | 175152 | 548046 |
| Fars....... ....... | 884342 | 280641 | 1164983 |
| Qazvin .... .......... | 107660 | 76483 | 184143 |
| Qom...... ........ | 273908 | 106098 | 380005 |
| Kordestan..... ......... | 806380 | 192600 | 998981 |
| Kerman.......... .... | 20195915 | 5851782 | 26047697 |
| Kermanshah........... ... | 254796 | 129506 | 384302 |
| Kohgiluyeh&Boyerahmad ...... ........ | 143807 | 56093 | 199900 |
| Golestan............ .. | 407359 | 201694 | 609052 |
| Gilan ......... ..... | 180515 | 66164 | 246679 |
| Lorestan......... ..... | 567313 | 195432 | 762744 |
| Mazandaran....... ....... | 408862 | 197838 | 606700 |
| Markazi........... ... | 2209496 | 415196 | 2624692 |
| Hormozgan...... ........ | 352155 | 158341 | 510496 |
| Hamedan ......... ..... | 232555 | 105016 | 337571 |
| Yazd ......... ..... | 9624911 | 6530024 | 16154935 |

 |
| *Source: Statistical Centre of Iran.* |
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| **5.6.VALUE ADDED, INPUTS AND OUTPUTS VALUE OF OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1390**  **(mln rials)** |
|

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Value added | Payments (inputs) | Receipts (outputs) |
| ***Total ........ ......*** | ***47826873*** | ***19100952*** | ***66927825*** |
| Mining of coal ..... ......... | 1505477 | 769484 | 2274961 |
| Mining of iron ore .......... .... | 18291578 | 9117797 | 27409375 |
| Mining of lead and zinc ...... ........ | 933614 | 607326 | 1540940 |
| Mining of gold ore ............ .. | 91651 | 59913 | 151563 |
| Mining of copper ore ........ ...... | 12430903 | 3064537 | 15495440 |
| Mining of chromites ...... ........ | 978358 | 191731 | 1170089 |
| Mining of manganese ....... ....... | 137972 | 91065 | 229037 |
| Mining of bauxite .......... .... | 70392 | 150260 | 220652 |
| Mining of cobalt, antimony and titanium .............. | 2719 | 117 | 2836 |
| Mining of gravel and sand ........... ... | 3366585 | 1604271 | 4970856 |
| Mining of decorative stones ...... ........ | 4425618 | 1200346 | 5625964 |
| Mining of rubble stone .......... .... | 967934 | 400778 | 1368712 |
| Mining of ballast .......... .... | 27992 | 7627 | 35619 |
| Mining of lime stone ........ ...... | 2635870 | 998457 | 3634326 |
| Mining of gypsum ........... ... | 425540 | 251895 | 677435 |
| Mining of kaolin and fireclay .... .......... | 363112 | 115484 | 478595 |
| Mining of dolomite ......... ..... | 49284 | 35217 | 84501 |
| Mining of bentonite and fuller’s earth .............. | 29846 | 13957 | 43803 |
| Mining of mangnesite and whiting .. ............ | 51091 | 23991 | 75081 |
| Mining of sodium sulphate ... ........... | 24350 | 21582 | 45932 |
| Mining of barite, limonite and ferrous oxide .............. | 99420 | 45207 | 144628 |
| Mining of fluorine ...... ........ | 77239 | 17930 | 95169 |
| Mining of strontium sulphate and boron .............. | 17305 | 5491 | 22796 |
| Mining of orpiment , phosphate & iodine .............. | 151294 | 45510 | 196804 |
| Mining of salt ..... ........ | 177481 | 55662 | 233142 |
| Mining of silica ...... ........ | 268802 | 97133 | 365935 |
| Mining of ores slag .... .......... | 117033 | 75103 | 192136 |
| Mining of feldspar ..... ......... | 49258 | 21032 | 70290 |
| Mining of talcum ........ ...... | 7558 | 4657 | 12215 |
| Mining of shell & mica ...... ........ | 7408 | 3656 | 11064 |
| Other precious and semi-precious stones.... .......... | 44191 | 3736 | 47927 |

 |
| *Source: Statistical Centre of Iran.* |
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| **5. 7. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL GOODS) IN OPERATING**  |
| **MINES BY TYPE OF CAPITAL PROPERTIES AND OSTAN (mln rials)** |

 |
|

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year and Ostan | Total investment | Machinery and stable equipment and administrative facilities | Vehicles | Building and equipment (without land)  | Access road  | Exploration and development  | Computer software | Other  |
| 1375....... ....... | 294962 | 190265 | 17435 | 35261 | 9849 | 5755 | - | 36397 |
| 1380........ ...... | 667897 | 537418 | 40533 | 47788 | 26187 | 10327 | 1204 | 4439 |
| 1385..... ......... | 1737226 | 1328153 | 87357 | 99032 | 42720 | 174966 | -620 | 5618 |
| 1386...... ........ | 2582948 | 2093378 | 172795 | 144132 | 56106 | 104101 | 2372 | 10064 |
| 1387........... ... | 3302300 | 2297218 | 274103 | 393270 | 71629 | 250577 | 4177 | 11326 |
| 1388........ ***......*** | 3631020 | 2807301 | 171402 | 238032 | 136137 | 233012 | 3136 | 42000 |
| 1389  | 6340513 | 5459792 | 217754 | 332145 | 66188 | 216726 | 3116 | 44792 |
| ***1390…………………*** | ***6149346*** | ***2957585*** | ***251308*** | ***411553*** | ***124038*** | ***246425*** | ***3112*** | ***2155326*** |
| East Azarbayejan .............. | 103957 | 62645 | 4904 | 9945 | 7495 | 2 | 251 | 163 |
| West Azarbayejan .............. | 189866 | 132201 | 30886 | 6393 | 5616 | 239 | 178 | 30 |
| Ardebil ........ ...... | 27528 | 13027 | 540 | 1514 | 2685 | 52 | 22 | 0 |
| Esfahan........ ...... | 416443 | 337036 | 17750 | 26456 | 16361 | 6172 | 526 | 2636 |
| Alborz  | 129657 | 63268 | 6127 | 8642 | 5852 | 19 | 932 | 0 |
| Ilam ............ .. | 8709 | 10410 | 6033 | 293 | 0 | 0 | 0 | 0 |
| Bushehr ......... ..... | 125759 | 24973 | 11976 | 1771 | 14115 | 0 | 46 | 0 |
| Tehran ... ........... | 472515 | 102979 | 175 | 501 | 263 | 0 | 36 | 0 |
| Chaharmahal&Bakhtiyari ............. | 23301 | 17834 | 471 | 53 | 2487 | 0 | 0 | 0 |
| South Khorasan .............. | 99446 | 60861 | 6458 | 3854 | 316 | 265 | 79 | 569 |
| Khorasan-e-Razavi .............. | 152653 | 91074 | 12050 | 9077 | 4359 | 5391 | 160 | 831 |
| North Khorasan .............. | 94301 | 18170 | 650 | 235 | 170 | 0 | 125 | 0 |
| Khuzestan ....... ....... | 73689 | 83039 | 1305 | 3383 | 5324 | 1122 | 14 | 0 |
| Zanjan ........ ...... | 328837 | 20110 | 9184 | 18822 | 22780 | 36000 | 2171 | 0 |
| Semnan ............ .. | 57997 | 29311 | 10141 | 4285 | 1958 | 941 | 61 | 0 |
| Sistan&Baluchestan .............. | 55727 | 47717 | 2966 | 4413 | 2318 | 0 | 138 | 0 |
| Fars ........... ... | 106475 | 121108 | 19885 | 2977 | 120 | 72 | 100 | 2324 |
| Qazvin .......... .... | 21079 | 37604 | 2850 | 1026 | 368 | 452 | 5 | 0 |
| Qom .......... .... | 48441 | 44968 | 421 | 547 | 875 | 12026 | 13 | 483 |
| Kordestan ...... ........ | 86129 | 79817 | 2598 | 3018 | 1751 | 1583 | 43 | 532 |
| Kerman ............ .. | 2139596 | 3029913 | 15697 | 59438 | 1913 | 14965 | -2714 | 2127063 |
| Kermanshah ... ........... | 88749 | 74691 | 6821 | 2676 | 4595 | 174 | 21 | 999 |
| Kohgiluyeh&Boyerahmad. | 6409 | 31584 | 1441 | 1991 | 183 | 16 | 3 | 0 |
| Golestan ........ ...... | 55594 | 38411 | 5700 | 3560 | 40 | 0 | 39 | 114 |
| Gilan .......... .... | 53047 | 79595 | 376 | 8890 | 39 | 0 | 274 | 0 |
| Lorestan ......... ..... | 139780 | 99615 | 1616 | 286 | 523 | 0 | 0 | 0 |
| Mazandaran ........ ...... | 86251 | 91878 | 3396 | 2514 | 2610 | 2813 | 51 | 12 |
| Markazi ........ ...... | 149896 | 133857 | 5919 | 7414 | 5299 | 641 | 283 | 0 |
| Hormozgan ....... ....... | 55367 | 51698 | 792 | 285 | 1860 | 0 | 2 | 1500 |
| Hamedan ......... ..... | 42829 | 37848 | 4824 | 5936 | 1067 | 109 | -115 | 0 |
| Yazd ......... ..... | 709320 | 392548 | 57353 | 211361 | 10694 | 163371 | 369 | 18070 |

 |
| *Source: Statistical Centre of Iran.* |

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| **5. 8.** **INVESTMENT (CHANGES IN THE VALUE OF** **CAPITAL GOODS) IN OPERATING MINES BY TYPE OF** **CAPITAL PROPERTIES AND TYPE OF ACTIVITY, THE YEAR 13****90 (mlnrials)** |
|

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity | Total investment | Machinery and stable equipment and administrative facilities | Vehicles | Building without land  | Access road  | Exploration and development  | Computer software | Other  |
| ***Total ...... ........*** | ***6149346*** | ***2957585*** | ***251308*** | ***411553*** | ***124038*** | ***246425*** | ***3112*** | ***2155326*** |
| Mining of coal .... .......... | 181097 | 76466 | 16318 | 19909 | 1833 | 49768 | 494 | 16309 |
| Mining of iron ore ...... ........ | 2748779 | 180326 | 62828 | 173325 | 34494 | 167595 | 574- | 2130786 |
| Mining of lead and zinc .............. | 49713 | 33037 | 7464 | 7422 | 185 | 937 | 45 | 623 |
| Mining of gold ore ... ........... | 21010 | 17255 | 3408 | 346 | 0 | 0 | 0 | 0 |
| Mining of copper ore .............. | 115036 | 58232 | 10673- | 67100 | 86 | 47 | 244 | 0 |
| Mining of chromite .............. | 43307 | 34088 | 1962 | 6672 | 562 | 0 | 22 | 0 |
| Mining of manganese .............. | 19692 | 4867 | 1908 | 478 | 99 | 11900 | 2 | 440 |
| Mining of bauxite .. ............ | 83982 | 83522 | 441 | 6 | 14 | 0 | 0 | 0 |
| Mining of cobalt, antimony and titanium........ ...... | 55 | 55 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mining of gravel and sand .............. | 1179608 | 1064880 | 64828 | 33965 | 13210 | 60 | 1748 | 918 |
| Mining of decorative stones .............. | 722344 | 643192 | 26344 | 25727 | 18078 | 6479 | 418 | 2106 |
| Mining of rubble stone .............. | 187621 | 148320 | 9610 | 5530 | 20623 | 1204 | 69 | 2265 |
| Mining of ballast ..... ......... | 1010 | 735 | 20 | 185 | 70 | 0 | 0 | 0 |
| Mining of lime stone .............. | 439857 | 354919 | 44988 | 22405 | 13697 | 2193 | 346 | 1310 |
| Mining of gypsum ..... ......... | 60687 | 45266 | 4336 | 4286 | 6283 | 413 | 101 | 1 |
| Mining of kaolin and fireclay..  | 45583 | 38583 | 3539 | 1595 | 1003 | 612 | 33 | 219 |
| Mining of dolomite .............. | 5706 | 2485 | 1525 | 6 | 343 | 1319 | 0 | 29 |
| Mining of bentonite and fuller’s earth .. ............ | 4178 | 3459 | 429 | 122 | 83 | 84 | 0 | 0 |
| Mining of magnesite and whiting ..... ......... | 8759 | 7770 | 353 | 94 | 520 | 0 | 22 | 0 |
| Mining of sodium sulphate .............. | 9386 | 5510 | 309 | 3567 | 0 | 0 | 0 | 0 |
| Mining of barite, limonite and ferrous oxide .............. | 21662 | 16116 | 2981 | 1358 | 1081 | 98 | 23 | 5 |
| Mining of fluorine ......... ..... | 6735 | 5296 | 720 | 664 | 55 | 0 | 0 | 0 |
| Mining of strontium sulphate.. | 1451 | 1265 | 67 | 63 | 56 | 0 | 0 | 0 |
| Mining of orpiment phosphate & iodine .............. | 52855 | 19652 | 65 | 33138 | 0 | 0 | 0 | 0 |
| Mining of salt ........ ...... | 12524 | 9529 | 841 | 282 | 709 | 1121 | 43 | 0 |
| Mining of silica .......... .... | 46884 | 40165 | 1117- | 1297 | 6448 | 32 | 60 | 0 |
| Mining of ores slag ..... ......... | 56501 | 43965 | 6966 | 1288 | 4027 | 203 | 10 | 42 |
| Mining of feldspar ... ........... | 16901 | 12358 | 755 | 688 | 458 | 2362 | 4 | 275 |
| Mining of talcum .......... .... | 536 | 596 | 99- | 39 | 0 | 0 | 0 | 0 |
| Mining of shell & mica .............. | 5620 | 5440 | 181 | 0 | 0 | 0 | 0 | 0 |
| Other precious and semi-precious stones...... ........ | 268 | 236 | 12 | 0 | 20 | 0 | 0 | 0 |

 |
| *Source: Statistical Centre of Iran.* |
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| **5. 9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR (mln rials)** |
|

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description  | Number  | Members | Workers | Capital |
| ***Registered cooperatives(1)*** |  |  |  |  |
| 1375.......... .... | 1306 | 14022 | 8910 | 71572 |
| 1380........ ...... | 1691 | 21373 | 12146 | 106325 |
| 1385 ....... ....... | 1952 | 27271 | 15263 | 162032 |
| 1387....... ....... | 2146 | 32538 | 16859 | 189486 |
| 1388.......... .... | 2242 | 35288 | 18244 | 206103 |
| 1389........ ***......*** | 2303 | 32970 | 19000 | 185112 |
| 1390  | 2413 | 35997 | 21180 | 224856 |
| ***1391…………………… …………..*** | ***2534*** | ***70359*** | ***22337*** | ***273966*** |
| ***Cooperatives under establishment*** |  |  |  |  |
| 1375........ ...... | 20 | 182 | 82 | 2008 |
| 1380....... ....... | 56 | 972 | 342 | 3502 |
| 1385........ ...... | 137 | 2277 | 1251 | 20253 |
| 1387........... ... | 251 | 3604 | 2182 | 36782 |
| 1388.......... .... | 316 | 5721 | 3317 | 50585 |
| 1389....*...* ***.......*** | 219 | 4098 | 2292 | 9087 |
| 1390  | 252 | 5359 | 3514 | 16018 |
| ***1391……………………………… .*** | ***332*** | ***6240*** | ***4277*** | ***33733*** |
| ***Cooperatives in operation*** |  |  |  |  |
| 1375........ ...... | 634 | 8231 | 5681 | 52365 |
| 1380 ......... ..... | 841 | 12029 | 7555 | 77835 |
| 1385 ......... ..... | 966 | 16074 | 9045 | 112456 |
| 1387.......... .... | 1042 | 19996 | 9636 | 123206 |
| 1388......... ..... | 1073 | 20630 | 9887 | 126010 |
| 1389.*.......* ***......*** | 918 | 14021 | 8917 | 118580 |
| 1390  | 896 | 46355 | 8961 | 144001 |
| ***1391………………………………***  | ***876*** | ***46459*** | ***8811*** | ***176791*** |
|  |  |  |  |  |

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| **5. 9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR (continued) ( mln rials)** |
| Description  | Number  | Members | Workers | Capital |
| East Azarbayejan ... ........... | 35 | 534 | 356 | 3822 |
| West Azarbayejan .......... .... | 8 | 88 | 84 | 7088 |
| Ardebil ........... ... | 6 | 45 | 61 | 889 |
| Esfahan ........... ... | 38 | 325 | 409 | 11023 |
| Alborz  | 8 | 78 | 64 | 470 |
| Ilam ......... ..... | 2 | 21 | 33 | 13 |
| Bushehr ..... ......... | 29 | 228 | 215 | 15958 |
| Tehran ...... ........ | 56 | 1044 | 856 | 19314 |
| Chaharmahal&Bakhtiyari ...... ........ | 5 | 35 | 34 | 968 |
| South Khorasan ........... ... | 12 | 191 | 92 | 3203 |
| Khorasan-e-Razavi ........ ...... | 125 | 2041 | 1244 | 15605 |
| North Khorasan ........ ...... | 6 | 162 | 81 | 42 |
| Khuzestan .......... .... | 11 | 94 | 139 | 238 |
| Zanjan .......... .... | 19 | 401 | 251 | 3780 |
| Semnan ..... ......... | 37 | 305 | 386 | 10162 |
| Sistan&Bluchestan ...... ........ | 5 | 46 | 46 | 104 |
| Fars ......... ..... | 44 | 36165 | 474 | 32905 |
| Qazvin ...... ........ | 8 | 66 | 78 | 7317 |
| Qom ......... ..... | 12 | 98 | 90 | 1833 |
| Kordestan ........... ... | 9 | 150 | 75 | 129 |
| Kerman ......... ..... | 61 | 554 | 450 | 9494 |
| Kermanshah ...... ........ | 17 | 124 | 124 | 322 |
| Kohgiluyeh&Boyerahmad .......... .... | 14 | 120 | 112 | 747 |
| Golestan ......... ..... | 8 | 93 | 39 | 315 |
| Gilan .... .......... | 13 | 101 | 114 | 487 |
| Lorestan ..... ......... | 124 | 1254 | 1030 | 3060 |
| Mazandaran ..... ......... | 45 | 1112 | 637 | 4219 |
| Markazi ........ ...... | 41 | 359 | 480 | 3279 |
| Hormozgan .... .......... | 46 | 327 | 411 | 6307 |
| Hamedan ......... ..... | 6 | 42 | 100 | 1985 |
| Yazd ....... ....... | 26 | 256 | 246 | 11713 |

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*1. Including cooperatives in operation, out of operation and under establishment.*

*Source: Ministry of Cooperatives.*