

**S**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 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 conducted 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 no 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 mines sector cooperatives reported by the Ministry of Cooperatives.

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 exploration, equipment, exploitation, 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 service 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 results of the survey of operating mines of the country in the year 1389, there were 4974 operating mines. The results show that a total of 81293 persons were working in these mines and the number of workers increased by 5.8 percent in contrast to the year 1388.

In the same year, the value of mines products amounted to 50148 billion rials. Iron ore, copper ore and decorative stones with 17321, 13401 and 5345 bln rials had the highest annual production value respectively.

In the year 1389, the value added of the nation's operating mine amounted to 38737 bln rials. Iron ore, copper ore, and decorative stones with 12016, 11639 and 4610 bln rials had the highest value added, respectively. These three accounted for about 73% of the sector's total value added.

Moreover, Kerman, Yazd and Fars with 16253, 7617 and 1952 bln rials had the highest value added among the provinces of the country.

In the year 1389, out of the total 6341 bln rials of fresh investments, over 85% relates to machinery, durable tools and administrative equipment and 3.5% goes to the development and discovery.

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

Year and Ostan	Number of mines			Number of workers			Compensation of employees	Value of production <sup>(3)</sup>	
	Total	Type of management		Total <sup>(2)</sup>	Production line				Other (administrative, financial and service)
		Private	Public		Skilled	Unskilled			
1370 .....	1920	1393	527	50322	30170	13047	7106	99682	424870
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
<b>1389 .....</b>	<b>4974</b>	<b>4756</b>	<b>218</b>	<b>81293</b>	<b>46336</b>	<b>17357</b>	<b>17599</b>	<b>6403153</b>	<b>50147576</b>
East Azarbayejan .....	235	227	8	4598	3241	509	848	145086	1870768
West Azarbayejan.....	384	361	23	2762	1464	484	814	124961	832967
Ardebil .....	54	54	0	362	186	35	141	14591	120002
Esfahan .....	432	427	5	7488	4639	809	2041	557570	2208011
Alborz .....	23	23	0	464	233	153	78	30344	345529
Ilam.....	37	35	1	382	164	135	82	18910	168675
Bushehr.....	168	157	11	1431	645	286	500	71545	311318
Tehran.....	169	167	2	3138	2063	515	560	181586	995317
Chaharmahal& Bakhtiyari .....	125	113	12	574	386	23	164	21190	221485
South Khorasan.....	166	161	5	1689	1114	353	222	108208	676013
Khorasan-e-Razavi..	374	365	9	3826	2067	875	884	223667	1124098
North Khorasan.....	86	67	19	1167	734	301	132	57406	276263
Khuzestan .....	178	173	5	1848	871	484	493	103455	587651
Zanjan .....	131	130	1	1408	894	265	249	95785	889752
Semnan.....	208	198	10	3232	2153	752	327	182336	538097
Sistan&Baluchestan.....	68	68	0	971	481	305	185	43154	346730
Fars .....	289	275	15	5299	3147	1244	908	291472	2156389
Qazvin .....	127	125	3	852	524	219	109	32359	132116
Qom .....	77	76	1	993	447	335	211	59307	256584
Kordestan .....	173	163	11	964	628	65	271	49054	334906
Kerman .....	152	145	7	11451	6016	2021	3413	2114287	20593952
Kermanshah.....	112	107	5	977	476	351	150	56727	254639
Kohgiluyeh&Boyerahmad....	86	84	1	813	484	153	176	53427	384057
Golestan .....	110	101	9	2319	1422	569	328	139719	429433
Gilan .....	50	44	6	950	398	399	153	53991	227446
Lorestan.....	125	118	7	1483	780	425	278	91463	456932
Mazandaran.....	102	91	11	2750	1491	750	509	153944	485084
Markazi .....	237	222	15	2491	1532	392	567	178154	1673726
Hormozgan .....	64	64	0	1132	560	417	155	61324	344905
Hamedan .....	176	175	1	1217	595	345	277	51027	316065
Yazd .....	255	241	15	12259	6498	3388	2373	1037103	10588666

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 as of the year 1375.

Source: Statistical Centre of Iran.

**5.2. NUMBER OF MINES, WORKERS, COMPENSATION OF EMPLOYEES AND VALUE OF PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1389**  
( mln rials )

Activity	Number of mines			Number of workers			Compensation of employees	Value of production	
	Total	Type of management		Total	Production line				
		Private	Public		Skilled	Unskilled			Other (administrative, financial and service)
<b>Total .....</b>	<b>4974</b>	<b>4756</b>	<b>218</b>	<b>81293</b>	<b>46336</b>	<b>17357</b>	<b>17599</b>	<b>6403153</b>	<b>50147576</b>
Mining of coal .....	109	96	13	9811	5595	2474	1742	634148	1808708
Mining of iron ore .....	90	83	7	12864	6690	2899	3275	1826280	17321420
Mining of lead and zinc .....	19	17	2	1547	1007	266	274	163541	1200521
Mining of gold ore .....	5	4	1	342	168	125	49	26848	215820
Mining of copper ore.....	15	14	1	5228	3603	308	1317	842526	13400520
Mining of chromite .....	34	34	0	1689	902	486	301	152216	851529
Mining of manganese....	14	14	0	485	153	286	46	30085	121374
Mining of bauxite .....	8	6	2	519	355	128	36	31734	173306
Mining of cobaltantimony and titanium.....	1	1	0	0	0	0	0	0	0
Mining of gravel and sand .....	1527	1414	114	15479	8623	3069	3786	786188	3288391
Mining of decorative stones .....	846	838	8	12639	7403	2641	2595	806429	5344709
Mining of rubble stone .....	695	679	16	4882	2667	1175	1041	194954	959031
Mining of ballast .....	6	5	1	82	43	22	17	4710	45160
Mining of lime stone ....	598	570	28	7203	4494	1237	1472	457935	3234097
Mining of gypsum .....	268	264	3	2081	1248	411	422	98014	510808
Mining of kaolin and fireclay .....	198	196	2	1812	874	632	305	101803	437908
Mining of dolomite .....	34	34	0	270	134	65	71	15290	93419
Mining of bentonite's and fuller's earth .....	44	44	0	213	120	51	42	7889	37087
Mining of magnesite and whiting .....	12	12	0	194	101	73	20	10421	58698
Mining of sodium sulphate .....	12	6	6	62	28	28	6	2884	19358
Mining of barite , limonite and ferrous oxide .....	68	66	2	480	258	122	101	22136	97241
Mining of fluorine.....	18	18	0	304	189	78	37	18723	81750
Mining of strontium sulphate& boron.....	3	3	0	17	11	4	2	1115	7410
Mining of orpiment phosphate & iodine .....	3	1	2	288	199	44	45	27794	95376
Mining of salt .....	78	76	2	813	453	211	149	36352	236712
Mining of silica .....	100	99	1	760	384	213	163	44752	236691
Mining of ores slag .....	88	86	2	621	352	116	153	29558	122238
Mining of feldspar.....	56	55	1	310	169	78	63	14168	109955
Mining of talcum.....	12	12	0	61	29	19	13	2588	8022
Mining of shell & mica .....	10	9	1	105	46	32	27	3844	11906
Other precious and semi-precious stones.....	4	4	0	124	38	57	29	7346	15110

Source: Statistical Centre of Iran.

**5. 3. QUANTITY OF MINERALS PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY**

(1000 tons)

Activity	1370	1375	1380	1385	1386	1387	1388	1389
<b>Total.....</b>	<b>48710</b>	<b>66961</b>	<b>92649</b>	<b>138334</b>	<b>160920</b>	<b>178905</b>	<b>203328</b>	<b>224943</b>
	<sup>(1)</sup> 47091	<sup>(1)</sup> 55428	<sup>(1)</sup> 47775	<sup>(1)</sup> 77394	<sup>(1)</sup> 70260	<sup>(1)</sup> 70708	<sup>(1)</sup> 73691	<sup>(1)</sup> 82986
Mining of coal .....	896	1211	1380	2413	2565	2636	2181	2324
Mining of iron ore .....	3888	5236	11441	20648	24738	28474	27617	30992
Mining of lead and zinc	110	322	579	1072	677	571	626	1436
Mining of gold ore .....	<sup>(2)</sup> 000	152	352	742	803	668	1256	1178
Mining of copper ore.....	<sup>(2)</sup> 307	370	453	790	852	1115	1031	1580
Mining of chromite .....	136	322	174	269	139	269	275	394
Mining of manganese .....	57	83	140	94	103	116	126	125
Mining of bauxite .....	37	230	65	1395	1257	715	522	687
Mining of cobalt.....	0	0	0	0	0	<sup>(3)</sup> 4	<sup>(3)</sup> 4	⊙
Mining of antimony .....	×	×	0	0	1	⊙	⊙	1
Mining of titanium.....	×	×	×	4	4	⊙	⊙	×
Mining of gravel and sand <sup>(1)</sup> .	46647	53869	46147	76102	68488	68708	71321	80241
Mining of decorative stones	4630	6120	10325	9908	11143	13104	13839	15738
Mining of rubble stone .....	<sup>(3)</sup> 2545	7683	9359	16441	21373	16265	20456	21990
	<sup>(3,1)</sup> 162							
Mining of ballast <sup>(1)</sup> .....	<sup>(4)</sup> 000	959	802	394	788	686	626	398
Mining of lime stone .....	24166	31961	43498	62959	72768	89926	107373	114639
Mining of gypsum .....	8839	7696	8347	11878	13379	12566	13616	13672
Mining of kaolin and fireclay	593	1437	1660	2716	2655	4685	4326	9355
Mining of dolomite .....	142	219	281	514	698	696	1132	1251

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

Activity	1370	1375	1380	1385	1386	1387	1388	1389
Mining of bentonite and fullers's earth .....	63	85	175	186	254	376	387	355
Mining of magnesite and whiting ....	24	111	115	189	112	116	131	136
Mining of sodium sulphate.....	143	464	369	280	633	738	679	858
Mining of barite ... ..	71	159	238	226	245	<sup>(5)</sup> 227	365	320
Mining of limonite and ferrous oxide .....	5	28	76	//	2	⊙	⊙	12
Mining of fluorine .....	83	19	34	63	73	66	71	76
Mining of strontium sulphate	45	8	0	17	0	<sup>(6)</sup> 22	<sup>(6)</sup> 16	15
Mining of boron .....	1	3	3	2	2	⊙	⊙	1
Mining of orpiment .....	//	//	//	//	0	<sup>(7)</sup> 62	<sup>(7)</sup> 61	×
Mining of alum.....	×	×	1	0	0	×	×	×
Mining of phosphate .....	×	10	33	67	53	⊙	⊙	62
Mining of salt.....	1066	1411	1538	2618	2755	2301	2816	3257
Mining of silica .....	715	1244	1687	2252	2909	2508	3643	3637
Mining of ores slag <sup>(1)</sup> .....	282	600	826	898	983	1314	1743	2145
Mining of feldspar.....	51	122	157	418	524	505	637	648
Mining of talcum.....	15	27	66	69	91	90	67	79
Mining of asbestos .....	3	2	4	0	0	×	×	×
Mining of sea shell.....	79	219	96	99	110	<sup>(8)</sup> 83	<sup>(8)</sup> 70	68
Mining of mica.....	1	5	5	2	2	⊙	⊙	3
Mining of turquoise.....	//	//	//	//	0	⊙	⊙	0
Mining of opal.....	×	×	×	//	0	⊙	⊙	0
Other precious and semi-precious stones.....	×	×	×	×	1	<sup>(9)</sup> 2	<sup>(9)</sup> 4	5

1. In thousand cubic meters.

2. Data for production of gold ore in the year 1370 are included with copper ore.

3. Including antimony and titanium production value.

4. Value of production of ballast for in the year 1370 is included with rubble stone.

5. Including production value of limonite and ferrous oxide.

6. Including production value of boron.

7. Including production value of phosphate and iodine.

8. Including production value of mica.

9. Including production value of opal and turquoise.

Source: Statistical Centre of Iran.

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

Activity	1370	1375	1380	1385	1386	1387	1388	1389
<b>Total .....</b>	<b>424870</b>	<b>1941600</b>	<b>5675787</b>	<b>22642408</b>	<b>3064705</b>	<b>35567776</b>	<b>35586170</b>	<b>50147576</b>
Mining of coal .....	78243	357943	570566	1077642	1427715	1937905	1649041	1808708
Mining of iron ore .....	19237	231205	947000	5483754	9576836	12942090	11125450	17321420
Mining of lead and zinc .....	17866	92546	195458	1855364	1784373	629212	735735	1200521
Mining of gold ore .....	<sup>(1)</sup> 000	3042	9415	113156	195740	167949	219709	215820
Mining of copper ore .....	<sup>(1)</sup> 73698	269038	1145592	7500248	8449079	8639421	9167938	13400520
Mining of chromite .....	8460	80024	70388	297223	244018	407529	395224	851529
Mining of manganese .....	1047	9344	31023	51383	84811	129941	122647	121374
Mining of bauxite .....	754	13194	4253	153928	127506	137812	107891	173306
Mining of cobalt .....	0	0	0	0	0	<sup>(2)</sup> 6309	<sup>(2)</sup> 6184	⊙
Mining of antimony .....	×	×	0	0	5250	⊙	⊙	3300
Mining of titanium .....	×	×	×	4800	4960	⊙	⊙	⊙
Mining of gravel and sand .....	78693	277148	543928	1548204	2147538	2393425	2783149	3288391
Mining of decorative stones .....	76266	238796	1013763	1916393	3050306	3847756	4169838	5344709
Mining of rubble stone .....	<sup>(3)</sup> 5258	57910	309179	487803	737096	634662	954698	959031
Mining of ballast .....	<sup>(3)</sup> 000	8457	17147	19448	45283	46507	65214	45160
Mining of lime stone .....	28229	124664	363066	1079502	1516897	2023836	2305669	3234097
Mining of gypsum .....	11543	37036	87085	236511	277459	336973	412816	510808
Mining of kaolin and fireclay .....	10022	36169	98729	236033	201866	395615	288648	437908
Mining of dolomite .....	772	6493	14337	29395	52929	43748	65697	93419
Mining of bentonite and fuller's earth .....	243	1490	7123	12382	19321	31837	45474	37087
Mining of magnesite and whiting .....	400	10716	21069	46722	32098	38143	52238	58698
Mining of sodium sulphate .....	438	7729	7622	14306	46499	67828	62821	19358
Mining of barite .....	1497	8351	24215	39997	66128	<sup>(4)</sup> 69023	<sup>(4)</sup> 86653	96035
Mining of limonite and ferrous oxide .....	836	2317	6181	41	500	⊙	⊙	1206
Mining of fluorine .....	919	4448	11118	53959	58485	56526	94959	81750
Mining of strontium sulphate .....	1724	380	0	1932	0	<sup>(5)</sup> 7552	<sup>(5)</sup> 1937	3000
Mining of boron .....	38	2235	2312	3328	3180	⊙	⊙	4410
Mining of orpiment .....	313	144	879	180	560	<sup>(6)</sup> 116851	<sup>(6)</sup> 78127	0

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

Activity	(mln rials)							
	1370	1375	1380	1385	1386	1387	1388	1389
Mining of alum .....	×	×	144	0	0	×	×	×
Mining of phosphate .....	×	600	39484	31018	25153	⊙	⊙	76176
Mining of salt .....	3220	26390	38076	109273	159849	134040	212121	236712
Mining of silica .....	2059	18314	49152	148891	189067	177793	216142	236691
Mining of ores slag .....	970	3672	10147	24926	37928	70668	69320	122238
Mining of feldspar .....	393	3158	9474	32814	35761	36936	50997	109955
Mining of talcum .....	222	1635	11491	6959	8671	6639	7349	8022
Mining of asbestos .....	685	1978	3450	0	0	×	×	×
Mining of sea shell .....	654	3415	7674	12786	18570	<sup>(7)</sup> 21049	<sup>(7)</sup> 18220	7348
Mining of mica .....	89	1294	4293	4405	5152	⊙	⊙	4558
Mining of turquoise .....	80	325	954	7625	10000	⊙	⊙	10000
Mining of opal .....	×	×	×	78	0	⊙	⊙	3750
Other precious and semi-precious stones.....	×	×	×	×	470	<sup>(8)</sup> 12200	<sup>(8)</sup> 14264	1360

1. Value of production of gold ore for the year 1370 is included with copper ore.

2. Including antimony and titanium production value.

3. Value of production of ballast for the year 1370 is included with rubble stone.

4. Including production value of limonite and ferrous oxide.

5. Including production value of boron.

6. Including production value of phosphate and iodine.

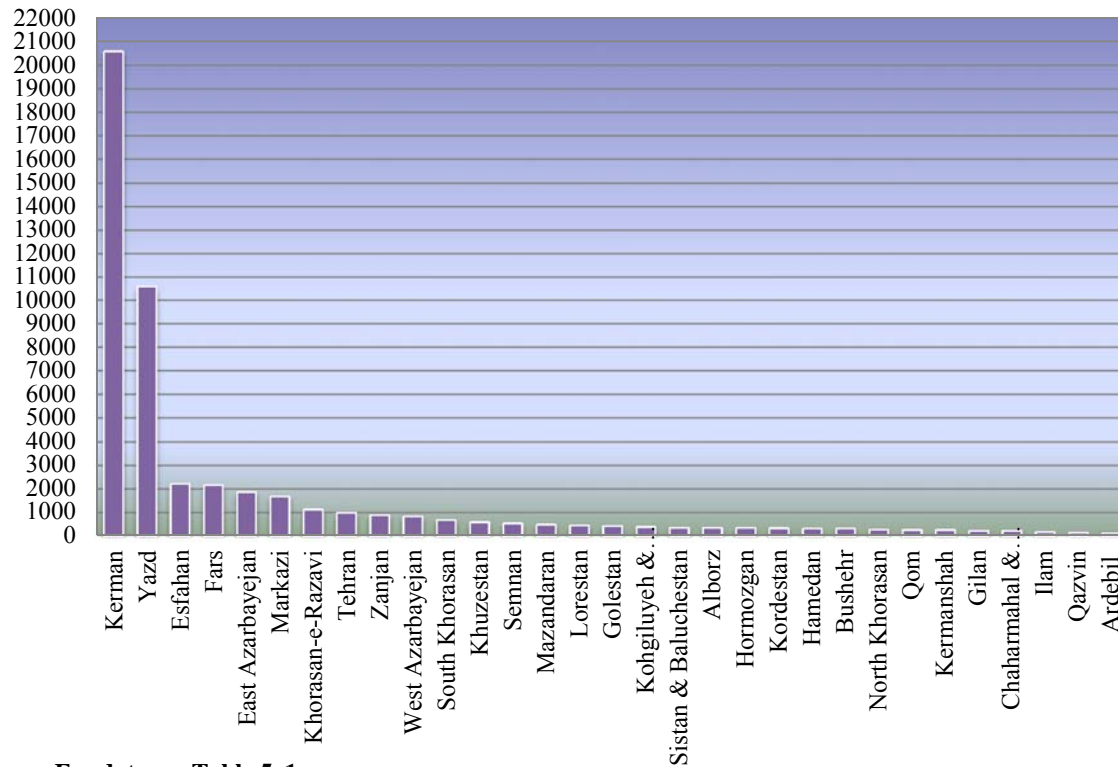
7. Including production value of mica.

8. Including production value of opal and turquoise.

Source: Statistical Centre of Iran.

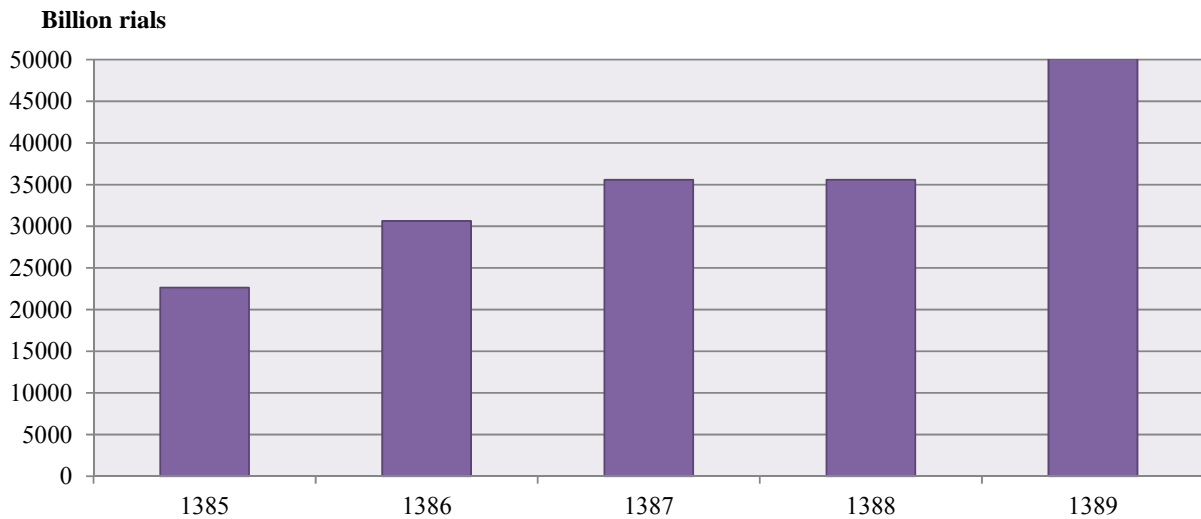


**5. 1. VALUE OF MINERAL PRODUCTS OF OPERATING MINES BY OSTAN, THE YEAR 1389**



For data see Table 5. 1.

**5. 2. VALUE OF MINERAL PRODUCTION IN OPERATING MINES**



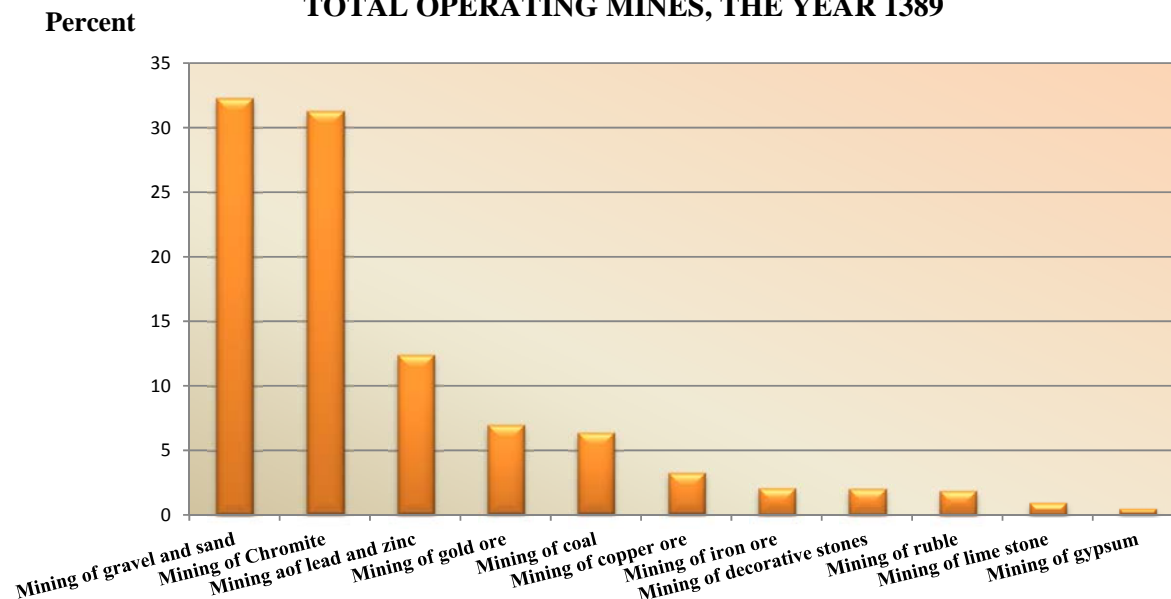
For data see Table 5. 4.

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

Year and Ostan	Value added	Payments (inputs)	Receipts(outputs)
1370 .....	364632	85024	449656
1375.....	1421533	621369	2042902
1380.....	4618050	1254791	5872841
1385.....	16666060	6345035	23011095
1386.....	23732721	7597911	31330632
1387.....	27754400	8632025	36386424
1388.....	26662764	9926427	36589191
<b>1389.....</b>	<b>38736873</b>	<b>12234125</b>	<b>50970998</b>
East Azerbayejan.....	1575214	322468	1897682
West Azarbayejan .....	770013	84625	854638
Ardebil .....	98423	23575	121999
Esfahan .....	1527404	781089	2308493
Ilam.....	146212	26163	172375
Bushehr .....	267505	72201	339706
Tehran.....	945456	427198	1372655
Chaharmahal&Bakhtiyari .....	181938	43752	225690
South Khorasan .....	479239	205336	684575
Khorasan-e-Razavi .....	814736	343781	1158517
North Khorasan .....	159337	135898	295235
Khuzestan .....	465630	134371	600000
Zanjan .....	523987	382215	906202
Semnan.....	411151	144794	555945
Sistan&Baluchestan .....	310506	44344	354850
Fars.....	1952232	251736	2203968
Qazvin .....	96395	44216	140611
Qom.....	173356	88958	262314
Kordestan.....	279480	103651	383132
Kerman.....	16253174	4374434	20627608
Kermanshah.....	191628	71837	263465
Kohgiluyeh&Boyerahmad .....	282212	114443	396655
Golestan.....	287314	171340	458654
Gilan .....	197333	38686	236019
Lorestan.....	393197	98330	491527
Mazandaran.....	366588	187504	554092
Markazi.....	1490558	219653	1710211
Hormozgan.....	242537	115298	357836
Hamedan .....	237499	92178	329677
Yazd .....	7616617	3090053	10706670

Source: Statistical Centre of Iran.

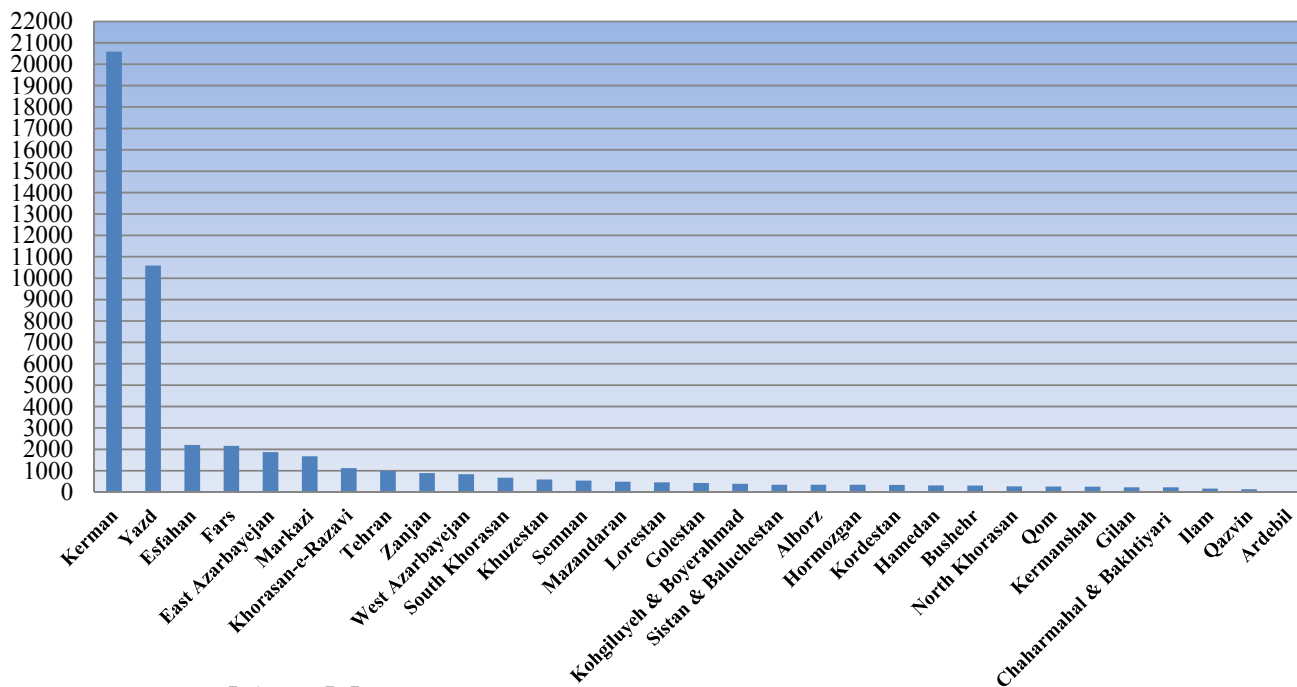
**5.3 RATIO OF VALUE ADDED OF SELECTED MINES TO THE TOTAL OPERATING MINES, THE YEAR 1389**



For data see table 5.6.

**5.4. PRODUCTIVITY OF LABOUR FORCE IN MINING SECTOR BY OSTAN, THE YEAR 1389**

Million rials



For data see Tables 5. 1. and 5. 5.

**5.6.VALUE ADDED, INPUTS AND OUTPUTS OF OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1389**
**(mln rials)**

Activity	Value added	Payments (inputs)	Receipts (outputs)
<b>Total .....</b>	<b>38736873</b>	<b>12234125</b>	<b>50970998</b>
Mining of coal .....	1210127	652553	1862681
Mining of iron ore .....	12015659	5414525	17430184
Mining of lead and zinc .....	702919	515313	1218232
Mining of gold ore .....	182045	40949	222995
Mining of copper ore .....	11638963	1772550	13411513
Mining of chromites .....	767865	89681	857546
Mining of manganese .....	89540	33850	123390
Mining of bauxite .....	77865	96642	174507
Mining of cobalt, antimony and titanium.....	⊖	⊖	⊖
Mining of gravel and sand .....	2365524	1115402	3480926
Mining of decorative stones .....	4609591	920495	5530086
Mining of rubble stone .....	763524	250484	1014008
Mining of ballast .....	36741	8704	45445
Mining of lime stone .....	2596314	749804	3346118
Mining of gypsum .....	359490	168721	528211
Mining of kaolin and fireclay .....	353896	94782	448678
Mining of dolomite .....	69209	26456	95665
Mining of bentonite and fuller's earth .....	26843	11424	38267
Mining of magnesite and whiting ..	46799	12984	59782
Mining of sodium sulphate .....	13716	5741	19456
Mining of barite, limonite and ferrous oxide	79056	20926	99982
Mining of fluorine .....	62001	20839	82841
Mining of strontium sulphate and boron.....	7723	1348	9070
Mining of orpiment , phosphate & iodine....	57183	40285	97468
Mining of salt .....	205966	36436	242402
Mining of silica .....	178381	65095	243476
Mining of ores slag .....	91804	44106	135910
Mining of feldspar .....	96012	16420	112432
Mining of talcum .....	6223	2399	8622
Mining of shell & mica .....	9801	2693	12494
Other precious and semi-precious stones.....	13165	2100	15265

Source: Statistical Centre of Iran.

**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 equipments and administrative facilities	Vehicles	Building and land	Access road	Exploration and development	Computer software	Other
1370 .....	106442	66988	17750	6917	5972	8814	-	0
1375 .....	294962	190265	17435	35261	9849	5755	-	36397
1380 .....	667897	537418	40533	47788	26187	10327	1204	4439
1385 .....	1737226	1328153	87357	<sup>(1)</sup> 99032	42720	174966	-620	5618
1386 .....	2582948	2093378	172795	144132	56106	104101	2372	10064
1387 .....	3302300	2297218	274103	<sup>(1)</sup> 393270	71629	250577	4177	11326
1388 .....	3631020	2807301	171402	<sup>(1)</sup> 238032	136137	233012	3136	42000
<b>1389 .....</b>	<b>6340513</b>	<b>5408981</b>	<b>50811</b>	<b>217754</b>	<b>66188</b>	<b>216726</b>	<b>332145</b>	<b>3116</b>
East Azarbayejan .....	95075	57009	5636	9884	1789	1078	19432	169
West Azarbayejan .....	154062	131938	263	4772	5103	7265	3917	33
Ardebil .....	17140	12966	61	2158	1616	38	141	20
Esfahan .....	426123	334271	2765	22219	9063	9192	41394	254
Alborz .....	73452	63232	36	1358	328	0	8345	153
Ilam .....	16641	10343	67	4115	1052	124	919	22
Bushehr .....	44168	24858	115	4112	12607	26	2348	102
Tehran .....	107122	101267	1712	287	966	359	2473	0
Chaharmahal&Bakhtiyari .....	20163	17834	0	75	2081	173	0	0
South Khorasan .....	63041	60559	302	955	540	163	517	5
Khorasan-e-Razavi .....	116929	89144	1930	12352	1085	5193	6763	131
North Khorasan .....	22735	18084	86	394	2542	0	1145	211
Khuzestan .....	103627	81017	2022	3032	6322	112	10840	176
Zanjan .....	29888	19188	922	2257	1505	1537	4468	10
Semnan .....	41247	28709	602	4894	1442	1660	3900	39
Sistan&Baluchestan .....	51885	47565	152	1971	992	770	436	0
Fars .....	139883	120436	672	16431	93	0	2235	16
Qazvin .....	42999	37393	211	545	828	852	2631	12
Qom .....	57150	44751	217	1404	391	9359	899	47
Kordestan .....	86810	79591	226	1947	2142	527	2264	60
Kerman .....	3168330	3013054	16860	-2787	1065	20342	117398	122
Kermanshah .....	82601	74458	233	2305	2046	0	3524	35
Kohgiluyeh&Boyerahmad .....	43632	31556	28	107	293	0	1400	0
Golestan .....	51839	37426	985	12464	215	208	504	37
Gilan .....	110952	78837	758	19691	985	0	9055	456
Lorestan .....	102428	99137	478	2358	113	125	107	111
Mazandaran .....	137641	91275	603	38110	2144	1433	4039	38
Markazi .....	150264	132922	935	5368	2763	400	7830	46
Hormozgan .....	59205	51110	588	1120	1702	56	4360	269
Hamedan .....	49099	37268	580	2895	1451	899	5961	46
Yazd .....	674383	381781	10767	40962	924	154837	62899	496

1. Relating to the building without land.

Source: Statistical Centre of Iran.

**5. 8. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL GOODS) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND TYPE OF ACTIVITY, THE YEAR 1389**  
(mln rials)

Activity	Total investment	Machinery and stable equipments and administrative facilities	Vehicles	Building without land	Access road	Exploration and development	Computer software	Other
<b>Total .....</b>	<b>6340513</b>	<b>5459792</b>	<b>217754</b>	<b>66188</b>	<b>216726</b>	<b>332145</b>	<b>3116</b>	<b>44792</b>
Mining of coal .....	192715	79045	4278	2046	59603	26751	112	20879
Mining of iron ore .....	3532097	3263975	47316	1531	117636	100345	449	845
Mining of lead and zinc .....	19039	9192	1500	8	180	4519	0	3640
Mining of gold ore .....	16020	12278	681	0	1315	1713	33	1
Mining of copper ore .....	104960	50851	-16817	0	113	68374	170	2268
Mining of chromite .....	23178	16618	3854	638	935	1133	0	0
Mining of manganese .....	11429	812	449	97	9359	672	35	5
Mining of bauxite .....	1598	460	14	643	0	270	211	0
Mining of cobalt, antimony and titanium .....	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Mining of gravel and sand .....	782006	643538	65148	15151	744	42327	875	14222
Mining of decorative stones .....	694435	626247	20249	9916	17072	20293	230	428
Mining of rubble stone .....	224291	169915	23527	14859	847	14623	348	172
Mining of ballast .....	1215	780	390	0	0	45	0	0
Mining of lime stone .....	493696	391882	47062	12700	5047	34871	427	1708
Mining of gypsum .....	73034	59592	4191	2682	1104	5397	35	32
Mining of kaolin and fireclay ..	38239	30847	4950	839	241	1294	32	35
Mining of dolomite .....	4550	2516	309	1118	154	428	14	11
Mining of bentonite and fuller's earth .....	4173	3580	261	208	0	122	0	3
Mining of magnesite and whiting .....	6087	5428	517	77	0	66	0	0
Mining of sodium sulphate .....	128	119	0	0	0	10	0	0
Mining of barite, limonite and ferrous oxide .....	8547	7261	255	199	217	592	12	12
Mining of fluorine .....	5223	3691	5	264	528	664	72	0
Mining of strontium sulphate ..	507	370	159	0	0	-22	0	0
Mining of orpiment phosphate & iodine .....	1661	1361	0	0	0	300	0	0
Mining of salt .....	14319	10205	796	1005	18	2273	22	0
Mining of silica .....	35886	30103	1984	326	900	2029	14	531
Mining of ores slag .....	43981	34685	4781	1676	561	2272	5	1
Mining of feldspar .....	4123	2797	580	150	49	546	0	0
Mining of talcum .....	1520	1152	149	35	100	84	0	0
Mining of shell & mica .....	1487	380	974	0	0	133	0	0
Other precious and semi-precious stones .....	367	117	190	20	0	20	20	0

Source: Statistical Centre of Iran.

**5. 9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR**  
(mln rials)

Description	Number	Members	Workers	Capital
<i>Registered cooperatives<sup>(1)</sup></i>				
1375.....	1306	14022	8910	71572
1380.....	1691	21373	12146	106325
1385.....	1952	27271	15263	162032
1386.....	2052	28106	16113	184890
1387.....	2146	32538	16859	189486
1388.....	2242	35288	18244	206103
1389.....	2303	32970	19000	185112
<b>1390.....</b>	<b>2413</b>	<b>35997</b>	<b>21180</b>	<b>224856</b>
<i>Cooperatives under establishment</i>				
1375.....	20	182	82	2008
1380.....	56	972	342	3502
1385.....	137	2277	1251	20253
1386.....	186	2626	1696	35619
1387.....	251	3604	2182	36782
1388.....	316	5721	3317	50585
1389.....	219	4098	2292	9087
<b>1390.....</b>	<b>252</b>	<b>5359</b>	<b>3514</b>	<b>16018</b>
<i>Cooperatives in operation</i>				
1375.....	634	8231	5681	52365
1380.....	841	12029	7555	77835
1385.....	966	16074	9045	112456
1386.....	1012	16537	9386	119880
1387.....	1042	19996	9636	123206
1388.....	1073	20630	9887	126010
1389.....	918	14021	8917	118580
<b>1390.....</b>	<b>896</b>	<b>46355</b>	<b>8961</b>	<b>144001</b>

**5. 9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR (continued)** (mln rials)

Description	Number	Members	Workers	Capital
East Azarbayejan .....	36	479	394	3845
West Azarbayejan .....	16	166	181	8185
Ardebil .....	8	63	72	902
Esfahan .....	41	346	453	10291
Alborz .....	14	433	127	537
Ilam .....	1	14	3	2
Bushehr .....	36	289	250	15322
Tehran .....	54	851	724	2096
Chaharmahal&Bakhtiari .....	5	36	39	968
South Khorasan .....	12	195	94	3253
Khorasan-e-Razavi .....	101	1385	796	13840
North Khorasan .....	6	162	81	392
Khuzestan .....	10	87	132	207
Zanjan .....	19	401	248	3780
Semnan .....	40	329	445	5135
Sistan&Bluchestan .....	9	75	70	125
Fars .....	35	36167	480	32787
Qazvin .....	9	73	109	282
Qom .....	16	130	120	1867
Kordestan .....	9	150	75	129
Kerman .....	62	557	467	9464
Kermanshah .....	19	144	136	343
Kohgiluyeh&Boyerahmad .....	20	177	169	890
Golestan .....	7	58	34	180
Gilan .....	12	91	100	484
Lorestan .....	124	1260	1224	3060
Mazandaran .....	52	1188	686	4853
Markazi .....	43	377	513	2360
Hormozgan .....	40	288	372	4189
Hamedan .....	11	82	102	2238
Yazd .....	29	302	265	11995

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

Source: Ministry of Cooperatives.