

Survey of mines-related activities began by the then Ministry of Industries and Mines in 1333. Related statistics were published annually in the attachment of the publication "Statistics on Manufacturing Activities" until 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 Azar 1342 by the Ministry of Economy. Statistical Bureau of the Ministry of Economy gathered and published statistics on mines-related activities annually from 1342 to 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 1353. The SCI conducted a survey of a selected number of mines annually from 1353 to 1357. This economic sector suffered from a lack of statistics during the years 1357 to 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 1364 and 1365, and also carried out the third census of mines of the country in 1366. Survey of mines has been conducted every year from 1367 to 1385 except for 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 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 the 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 1387, there were 4116 operating mines. The results show that a total of 75458 persons were working in these mines and the number of workers increased by 13.9 percent in contrast to the year 1386.

In the same year, the value of mines products amounted to 35568 billion rials. Iron ore, copper ore and decorative stone mines and quarries with 12942, 8639 and 3848 bln rials had the highest annual production value respectively.

In 1387, the value added of the nation's operating mine amounted to 27754 bln rials. Iron ore, copper ore and decorative stones with 9155, 7659 and 3338 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 10977, 6295 and 1662 bln rials had the highest value added among the provinces of the country.

In the year 1387, out of the total 3302 bln rials of fresh investments, over 70% relates to machinery, durable tools and administrative equipment and 8% goes to the development and discovery.

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

Year and Ostan	Number of mines			Number of workers			Compensation of employees	Value of production ⁽³⁾	
	Total	Type of management		Total ⁽²⁾	Production line				
		Private	Public		Skilled	Unskilled			Other (administrative, financial and service)
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
1383.....	-	-	-	-	-	-	-	-	-
1384.....	3324	2996	327	54854	27117	16825	10912	1752762	16770253
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
East Azarbayejan ...	172	159	13	2305	1265	525	515	91875	992852
West Azarbayejan ..	298	280	17	2653	1311	620	721	89918	561521
Ardebil	109	109	0	623	408	112	104	14148	67312
Esfahan	332	325	7	6333	3798	1122	1413	375509	1608708
Ilam	41	38	3	439	189	96	152	14485	71927
Bushehr	127	125	2	1086	455	346	286	39523	120468
Tehran	198	185	12	3871	2311	915	643	179417	803171
Chaharmahal & Bakhtiyari	86	73	12	517	302	114	102	17025	148680
South Khorasan	134	130	4	1820	989	598	233	95553	384786
Khorasan-e-Razavi.	266	248	18	2937	1338	973	625	134340	760228
North Khorasan	74	60	15	810	475	248	87	32773	225077
Khuzestan	140	129	11	1284	613	340	331	55942	358678
Zanjan	94	90	4	1042	662	191	190	50599	353209
Semnan.....	216	210	6	3772	1778	1590	405	139259	494767
Sistan & Bluchestan	70	68	2	932	491	249	192	36788	249247
Fars	260	250	11	5247	3335	801	1111	260347	1939657
Qazvin	124	123	1	1089	640	304	145	34442	134570
Qom	47	47	0	797	535	98	164	34550	165229
Kordestan	116	111	5	739	403	219	116	28233	170234
Kerman	109	97	12	10348	5295	2509	2545	1128054	13667772
Kermanshah	107	91	15	1132	593	352	187	38498	203769
Kohgiluyeh & Boyerahmad	86	72	14	718	428	131	158	31397	134238
Golestan	88	75	14	2456	1259	919	278	146188	403266
Gilan	37	33	5	1406	530	719	157	78388	184103
Lorestan.....	114	108	6	1842	799	705	339	115036	484789
Mazandaran	111	102	9	2759	1580	723	456	130491	467221
Markazi	168	157	11	2718	1494	669	555	137302	1119070
Hormozgan	56	54	3	1707	644	895	168	106456	330898
Hamedan	122	119	3	911	360	319	232	31875	211646
Yazd	215	203	12	11167	5752	3745	1670	679846	8750682

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 employed of mines whose extraction activities were entrusted to others under a contract.

3. Including the value of mineral and other products as of 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: 1387 (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			
Total.....	4116	3870	246	75458	40031	21146	14281	4348255	35567776
Mining of coal	127	114	13	13136	5775	5403	1958	701776	1937905
Mining of iron ore	51	43	8	8499	4649	2510	1340	535864	12942090
Mining of lead and zinc	19	17	2	1489	949	308	232	127268	629212
Mining of gold ore	3	1	2	202	126	42	34	10995	167949
Mining of copper ore.....	11	10	1	4062	2281	534	1247	749446	8639421
Mining of chromite	30	30	0	1695	1010	470	216	131532	407529
Mining of manganese....	11	11	0	492	376	27	89	21471	129941
Mining of bauxite.....	9	7	2	477	319	121	37	19078	137812
Mining of cobalt.....	2	1	1	88	51	31	6	1222	6309
Mining of gravel and sand	1346	1207	140	15737	8226	3995	3517	715499	2393425
Mining of decorative stones.....	725	718	7	12102	7032	2695	2375	602718	3847756
Mining of rubble stone..	513	495	18	3699	1909	1133	658	117678	634662
Mining of ballast	7	4	3	88	51	18	19	4374	46507
Mining of lime stone	451	419	32	5963	3510	1384	1070	279169	2023836
Mining of gypsum.....	238	236	2	1821	1027	431	363	66050	336973
Mining of kaolin and fireclay	160	159	1	1651	684	701	267	71793	395615
Mining of dolomite	20	19	1	299	166	81	52	16769	43748
Mining of bentonite and fuller earth.....	36	36	0	200	99	64	37	6560	31837
Mining of magnesite and whiting	11	11	0	177	76	79	22	7899	38143
Mining of sodium sulphate	14	13	1	128	44	71	13	3190	67828
Mining of barite	62	62	0	581	272	161	149	25653	69023
Mining of fluorine.....	17	17	0	267	165	63	39	12167	56526
Mining of strontium sulphate	3	3	0	39	25	11	3	1537	7552
Mining of orpiment	4	1	3	316	141	131	44	29024	116851
Mining of salt.....	62	60	2	619	305	181	133	23965	134040
Mining of silica	65	62	3	635	321	197	117	28791	177793
Mining of ores slag	53	51	2	420	201	114	104	16811	70668
Mining of feldspar	41	40	1	241	132	57	52	7767	36936
Mining of talcum.....	12	12	0	100	39	31	30	3347	6639
Mining of shell.....	8	7	1	105	32	42	31	2703	21049
Other precious and semi-precious stones	5	5	0	130	41	60	29	6138	12200

Source: Statistical Centre of Iran.

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

Activity	1370	1375	1380	1383	1384	1385	1386	1387
Total.....	48710	66961	92649	-	116810	138334	160920	178905
	⁽¹⁾ 47091	⁽¹⁾ 55428	⁽¹⁾ 47775	-	⁽¹⁾ 57333	⁽¹⁾ 77394	⁽¹⁾ 70260	⁽¹⁾ 70708
Mining of coal	896	1211	1380	-	1899	2413	2565	2636
Mining of iron ore	3888	5236	11441	-	20145	20648	24738	28474
Mining of lead and zinc	110	322	579	-	991	1072	677	571
Mining of gold ore	⁽²⁾ 000	152	352	-	571	742	803	668
Mining of copper ore.....	⁽²⁾ 307	370	453	-	553	790	852	1115
Mining of chromite	136	322	174	-	234	269	139	269
Mining of manganese	57	83	140	-	115	94	103	116
Mining of bauxite	37	230	65	-	1341	1395	1257	715
Mining of cobalt.....	0	0	0	-	0	0	0	⁽³⁾ 4
Mining of antimony	×	×	0	-	0	0	1	⊙
Mining of titanium.....	×	×	×	-	×	4	4	⊙
Mining of gravel and sand ⁽¹⁾	46647	53869	46147	-	56484	76102	68488	68708
Mining of decorative stones	4630	6120	10325	-	9396	9908	11143	13104
	⁽⁴⁾ 2545							
Mining of rubble stone		7683	9359	-	11688	16441	21373	16265
	^(1,4) 162							
Mining of ballast ⁽¹⁾	⁽⁴⁾ 000	959	802	-	73	394	788	686
Mining of lime stone	24166	31961	43498	-	50160	62959	72768	89926
Mining of gypsum	8839	7696	8347	-	11145	11878	13379	12566
Mining of kaolin and fireclay	593	1437	1660	-	1842	2716	2655	4685
Mining of dolomite	142	219	281	-	403	514	698	696
Mining of bentonite and fullers's earth	63	85	175	-	261	186	254	376
Mining of magnesite and whiting	24	111	115	-	95	189	112	116
Mining of sodium sulphate ...	143	464	369	-	728	280	633	738
Mining of barite	71	159	238	-	231	226	245	⁽⁵⁾ 227
Mining of Limonite and ferrous oxide	5	28	76	-	3	//	2	⊙
Mining of fluorine	83	19	34	-	68	63	73	66

5.3. QUANTITY OF MINERALS PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY

Activity	(1000 tons)							
	1370	1375	1380	1383	1384	1385	1386	1387
Mining of strontium sulphate	45	8	0	-	0	17	0	⁽⁶⁾ 22
Mining of boron	1	3	3	-	2	2	2	⊙
Mining of orpiment	//	//	//	-	0	//	0	⁽⁷⁾ 62
Mining of alum.....	×	×	1	-	0	0	0	×
Mining of phosphate.	×	10	33	-	324	67	53	⊙
Mining of salt.....	1066	1411	1538	-	2032	2618	2755	2301
Mining of silica	715	1244	1687	-	2103	2252	2909	2508
Mining of ores slag ⁽¹⁾	282	600	826	-	775	898	983	1314
Mining of feldspar.....	51	122	157	-	291	418	524	505
Mining of talcum.....	15	27	66	-	71	69	91	90
Mining of asbestos	3	2	4	-	1	0	0	×
Mining of shell.....	79	219	96	-	118	99	110	⁽⁸⁾ 83
Mining of mica.....	1	5	5	-	1	2	2	⊙
Mining of turquoise.....	//	//	//	-	//	//	0	⊙
Mining of opal.....	×	×	×	-	//	//	0	⊙
Other precious and semi-precious stones	×	×	×	×	×	×	1	⁽⁹⁾ 2

1. In thousand cubic metres.

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

3. Including antimony and titanium production value.

4. Value of production of ballast for 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	1383	1384	1385	1386	1387
Total.....	424870	1941600	5675787		- 16770254	22642408	30647053	35567776
Mining of coal.....	78243	357943	570566		- 797109	1077642	1427715	1937905
Mining of iron ore	19237	231205	947000		- 4769516	5483754	9576836	12942090
Mining of lead and zinc	17866	92546	195458		- 518345	1855364	1784373	629212
Mining of gold ore	⁽¹⁾ 000	3042	9415		- 107975	113156	195740	167949
Mining of copper ore	⁽¹⁾ 73698	269038	1145592		- 5373778	7500248	8449079	8639421
Mining of chromite	8460	80024	70388		- 159703	297223	244018	407529
Mining of manganese	1047	9344	31023		- 41837	51383	84811	129941
Mining of bauxite	754	13194	4253		- 129978	153928	127506	137812
Mining of cobalt.....	0	0	0		- 0	0	0	⁽²⁾ 6309
Mining of antimony	×	×	0		- 0	0	5250	⊙
Mining of titanium.....	×	×	×		- ×	4800	4960	⊙
Mining of gravel and sand	78693	277148	543928		- 1185339	1548204	2147538	2393425
Mining of decorative stones.....	76266	238796	1013763		- 1519369	1916393	3050306	3847756
Mining of rubble stone	⁽³⁾ 5258	57910	309179		- 411118	487803	737096	634662
Mining of ballast	⁽³⁾ 000	8457	17147		- 1698	19448	45283	46507
Mining of lime stone	28229	124664	363066		- 919513	1079502	1516897	2023836
Mining of gypsum	11543	37036	87085		- 221087	236511	277459	336973
Mining of kaolin and fireclay	10022	36169	98729		- 111128	236033	201866	395615
Mining of dolomite	772	6493	14337		- 25178	29395	52929	43748
Mining of bentonite and fuller's earth	243	1490	7123		- 14451	12382	19321	31837
Mining of magnesite and whiting	400	10716	21069		- 20731	46722	32098	38143
Mining of sodium sulphate.....	438	7729	7622		- 18570	14306	46499	67828
Mining of barite	1497	8351	24215		- 49623	39997	66128	⁽⁴⁾ 69023
Mining of limonite and ferrous oxide	836	2317	6181		- 477	41	500	⊙
Mining of fluorine	919	4448	11118		- 25305	53959	58485	56526
Mining of strontium sulphate	1724	380	0		- 0	1932	0	⁽⁵⁾ 7552
Mining of boron	38	2235	2312		- 2841	3328	3180	⊙
Mining of orpiment	313	144	879		- 0	180	560	⁽⁶⁾ 116851

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

Activity	1370	1375	1380	1383	1384	1385	1386	1387
Mining of alum	×	×	144	-	0	0	0	×
Mining of phosphate	×	600	39484	-	114766	31018	25153	×
Mining of salt	3220	26390	38076	-	69571	109273	159849	134040
Mining of silica	2059	18314	49152	-	87355	148891	189067	177793
Mining of ores slag	970	3672	10147	-	22468	24926	37928	70668
Mining of feldspar	393	3158	9474	-	19248	32814	35761	36936
Mining of talcum	222	1635	11491	-	5304	6959	8671	6639
Mining of asbestos	685	1978	3450	-	2990	0	0	×
Mining of shell	654	3415	7674	-	17340	12786	18570	⁽⁷⁾ 21049
Mining of mica	89	1294	4293	-	1752	4405	5152	⊙
Mining of turquoise	80	325	954	-	4756	7625	10000	⊙
Mining of opal	×	×	×	-	32	78	0	⊙
Other precious and semi-precious stones.....	×	×	×	×	×	×	470	⁽⁸⁾ 12200

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

2. Including antimony and titanium production value.

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

4. Including production value of limonite and ferrous oxide.

5. Including production value of boron.

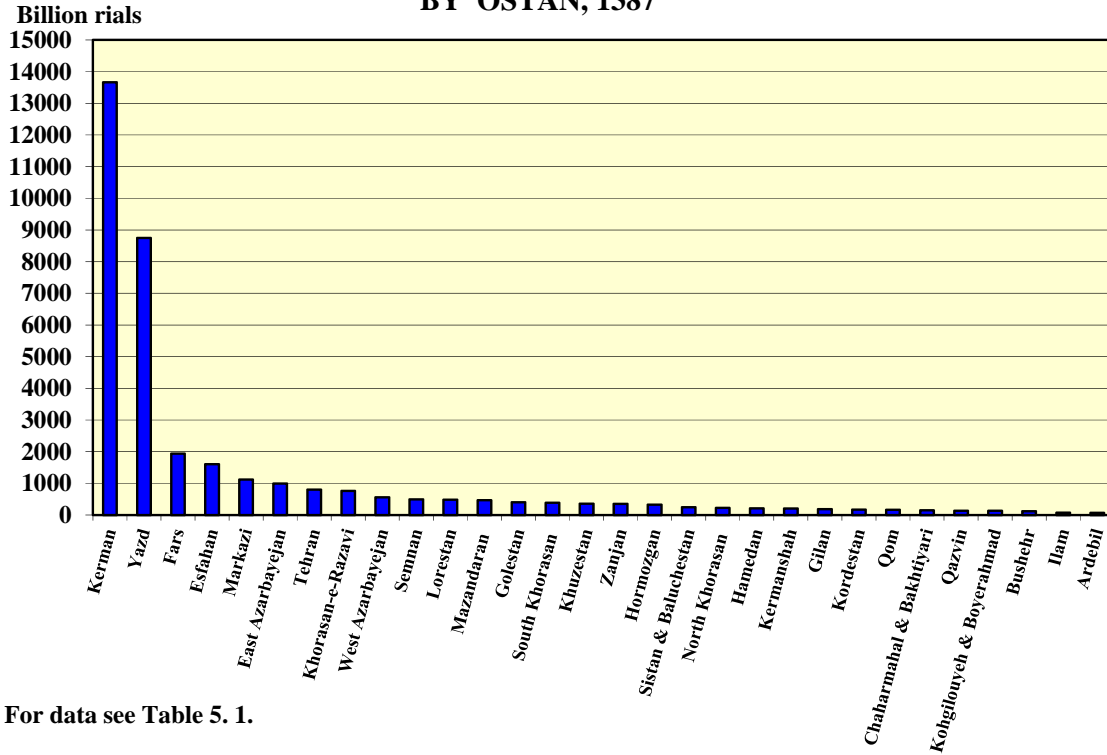
6. Including production value of phosphate and iodine.

7. Including production value of mica.

8. Including production value of opal and turquoise.

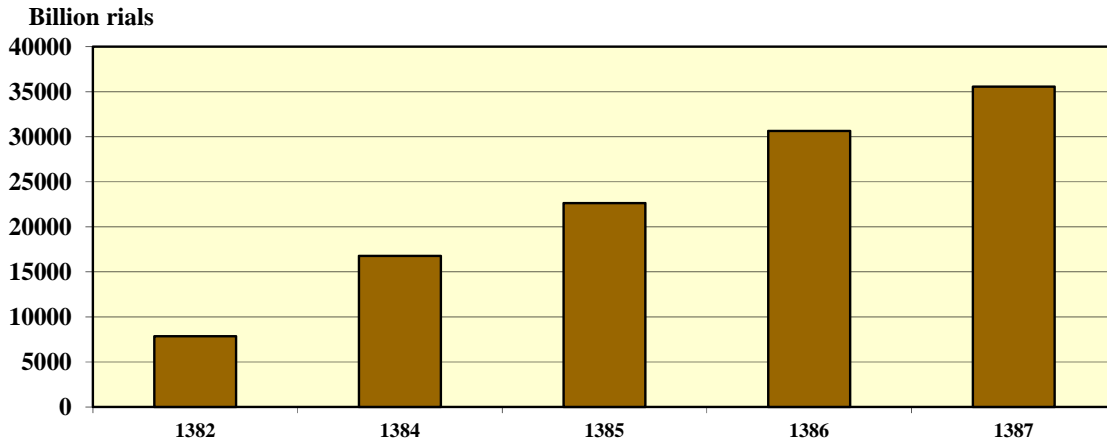
Source: Statistical Centre of Iran.

**5. 1. VALUE OF MINERAL PRODUCTS OF OPERATING MINES
BY OSTAN, 1387**



For data see Table 5. 1.

5. 2. VALUE OF MINERAL PRODUCTION IN OPERATING MINES



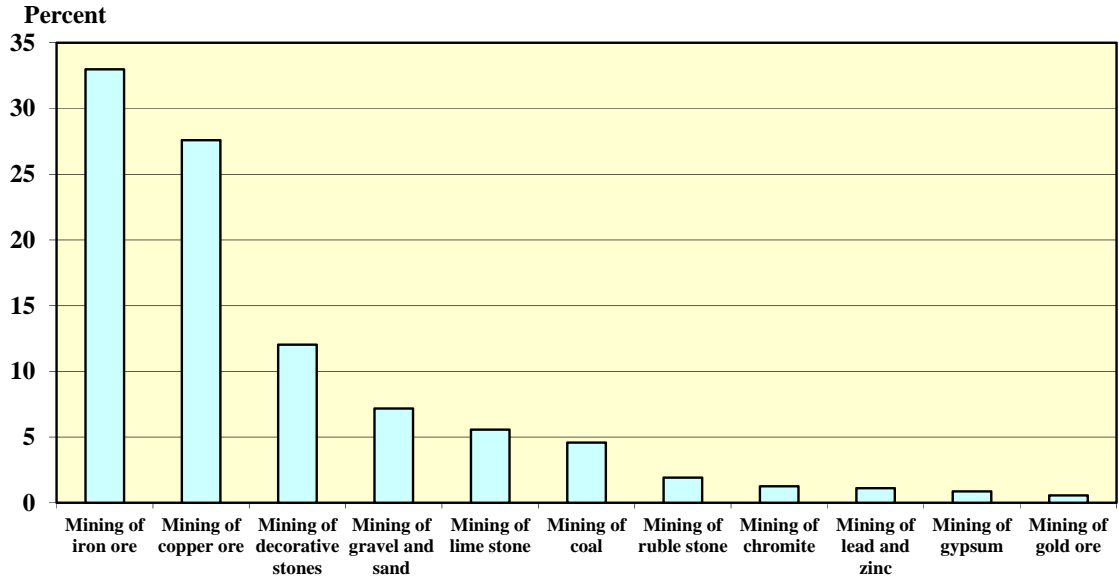
For data see Table 5. 4.

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
1383.....	-	-	-
1384.....	13502602	3615807	17145407
1385.....	16666060	6345035	23011095
1386.....	23732721	7597911	31330632
1387.....	27754400	8632025	36386424
East Azarbayejan	841267	153462	994729
West Azarbayejan	498043	79276	577319
Ardebil	57815	11658	69472
Esfahan	1121183	516881	1638064
Ilam	58581	13626	72207
Bushehr	101494	30560	132054
Tehran	539873	280442	820315
Chaharmahal & Bakhtiari	121798	30249	152047
South Khorasan	279668	116458	396126
Khorasan-e-Razavi	571496	229754	801250
North Khorasan	97643	128458	226102
Khuzestan	276063	88095	364157
Zanjan	221349	133295	354644
Semnan	382560	125475	508035
Sistan & Bluchestan	200330	54158	254488
Fars	1662387	306558	1968945
Qazvin	108326	41720	150046
Qom	123387	43820	167207
Kordestan	137972	36685	174657
Kerman	10977272	2748991	13726263
Kermanshah	159617	44375	203993
Kohgiluyeh & Boyerahmad	97975	36264	134238
Golestan	306279	130839	437118
Gilan	129650	59988	189638
Lorestan	405605	83539	489144
Mazandaran	355971	146761	502732
Markazi	916667	212880	1129547
Hormozgan	569769	213439	783207
Hamedan	139416	74030	213447
Yazd	6294943	2460290	8755233

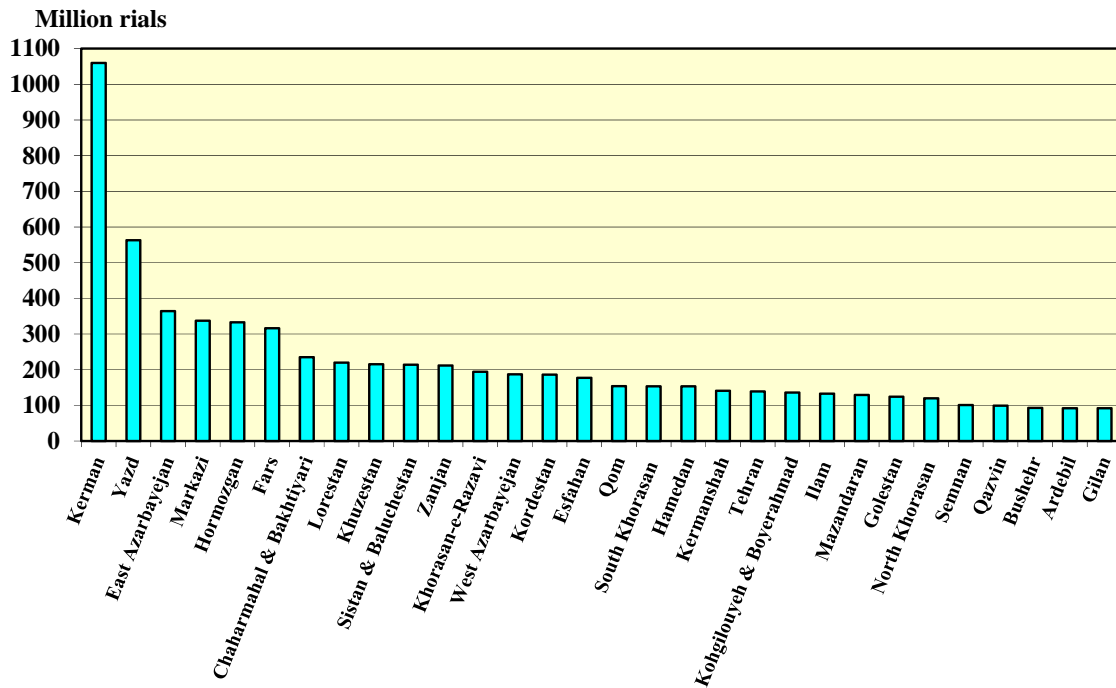
Source: Statistical Centre of Iran.

5. 3. RATIO OF VALUE ADDED OF SELECTED MINES TO THE TOTAL OPERATING MINES, 1387



For data see Table 5. 6.

5. 4. PRODUCTIVITY OF LABOUR FORCE IN MINING SECTOR BY OSPAN, 1387



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

5.6.VALUE ADDED, INPUTS AND OUTPUTS OF OPERATING MINES BY TYPE OF ACTIVITY 1387
(mln rials)

Activity	Value added	Payments (inputs)	Receipts (outputs)
Total	27754400	8632025	36386424
Mining of coal.....	1274971	711140	1986111
Mining of iron ore.....	9154648	3828120	12982768
Mining of lead and zinc	307082	322648	629731
Mining of gold ore	158207	14761	172968
Mining of copper ore	7658880	981882	8640762
Mining of chromite	347191	61091	408282
Mining of manganese.....	97829	34074	131903
Mining of bauxite	37159	100729	137888
Mining of cobalt	4588	1771	6359
Mining of gravel and sand	1989246	954539	2943785
Mining of decorative stones.....	3338252	574473	3912725
Mining of rubble stone.....	532828	142295	675123
Mining of ballast	29031	17568	46600
Mining of lime stone.....	1546367	523207	2069574
Mining of gypsum.....	239730	104682	344413
Mining of kaolin and fireclay.....	325276	72319	397595
Mining of dolomite	28464	15597	44061
Mining of bentonite and fuller earth	24270	7796	32066
Mining of magnesite and whiting	27174	11162	38335
Mining of sodium sulphate.....	60495	7452	67948
Mining of barite	54289	16859	71148
Mining of fluorine.....	48631	8310	56940
Mining of strontium sulphate.....	6229	1365	7594
Mining of orpiment	98738	18113	116851
Mining of salt.....	111574	24021	135595
Mining of silica	136520	42361	178881
Mining of ores slag	52307	19832	72139
Mining of feldspar	29966	7635	37602
Mining of talcum.....	5080	1595	6675
Mining of shell.....	18978	2155	21132
Other precious and semi-precious stones.....	10398	2472	12870

Source: Statistical Centre of Iran.

5. 7. CAPITAL FORMATION IN OPERATING MINES BY TYPE OF FIXED ASSETS AND OSTAN (mln rials)

Year and Ostan	Total capital formation	Machinery and equipment	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
1383.....	-	-	-	-	-	-	-	-
1384.....	2551260	1140822	92947	96980	43953	292132	1873	882553
1385.....	1737226	1328153	87357	⁽¹⁾ 99032	42720	174966	-620	5618
1386.....	2582948	2093378	172795	⁽¹⁾ 144132	56106	104101	2372	10064
1387.....	3302300	2297218	274103	⁽¹⁾393270	71629	250577	4177	11326
East Azarbayejan	48644	33872	1812	10116	1841	487	5	511
West Azarbayejan	107707	97799	4165	2284	3177	245	36	0
Ardebil	5146	4270	0	67	677	105	28	0
Esfahan	401961	324599	34156	24181	10308	3389	472	4858
Ilam	32198	15025	13357	3348	283	156	28	0
Bushehr	35032	28532	1814	1208	3401	70	8	0
Tehran	159109	113125	27137	14574	3813	208	244	8
Chaharmahal & Bakhtiari	24401	22795	744	7	835	20	0	0
South Khorasan	81630	70829	1804	1577	756	5776	21	867
Khorasan-e-Razavi	65506	44552	6132	9776	887	4093	67	0
North Khorasan	38603	32138	1062	1114	705	3584	0	0
Khuzestan	76750	67819	2687	3845	2330	53	14	0
Zanjan	36641	29733	2858	2989	1021	24	17	0
Semnan	38920	26419	6745	2304	2499	857	96	0
Sistan & Bluchestan	30507	28455	1504	180	325	0	0	43
Fars	216616	132645	63245	10797	8116	1493	298	20
Qazvin	28095	24186	2070	986	530	239	25	58
Qom	55788	32170	6429	5290	94	10659	861	286
Kordestan	35010	30347	2105	1471	722	241	44	79
Kerman	435886	141354	9696	230399	10661	43307	32	437
Kermanshah	39873	35334	1712	937	1738	0	152	0
Kohgiluyeh & Boyerahmad	8384	8383	0	0	0	0	0	0
Golestan	78309	59858	4376	3823	1194	3935	0	5123
Gilan	67089	50249	7152	2230	7445	0	14	0
Lorestan	78127	74176	2734	312	370	500	15	20
Mazandaran	164360	137057	21393	4662	1869	397	45	-1062
Markazi	175010	151150	7970	9172	4596	2039	83	0
Hormozgan	133596	99062	31305	1828	6	0	1395	0
Hamedan	58259	53260	1826	1556	1328	260	30	0
Yazd	545144	328023	6117	42237	101	168441	148	76

1. Relating to the building without land.

Source: Statistical Centre of Iran.

5. 8. CAPITAL FORMATION IN OPERATING MINES BY TYPE OF FIXED ASSETS AND TYPE OF ACTIVITY 1387

(mln rials)

Activity	Total capital formation	Machinery and equipment	Vehicles	Building without land	Access road	Exploration and development	Computer software	Other
Total	3302300	2297218	274103	393270	71629	250577	4177	11326
Mining of coal	221587	110109	10186	15056	1973	79006	126	5130
Mining of iron ore	535751	342851	1124	46502	11021	134102	151	0
Mining of lead and zinc	24000	14544	628	7541	297	832	0	159
Mining of gold ore	17640	14345	-56	3307	39	0	6	0
Mining of copper ore.....	250212	31793	843	216946	24	454	0	152
Mining of chromite	12587	9460	1028	1543	120	0	0	437
Mining of manganese	19499	5149	722	2377	327	10639	0	286
Mining of bauxite	6968	3785	21	20	7	3136	0	0
Mining of cobalt.....	63	60	3	0	0	0	0	0
Mining of gravel and sand ...	829060	609443	136142	50825	20529	4296	3161	4664
Mining of decorative stones	639681	561286	38411	15913	11057	12552	185	278
Mining of rubble stone	136602	119305	6082	4655	6078	454	22	6
Mining of ballast	1194	1099	82	12	0	0	1	0
Mining of lime stone	339195	267988	45475	11607	12340	2317	190	-722
Mining of gypsum	62670	54578	4011	1633	2234	115	79	20
Mining of kaolin and fireclay	74338	57906	6247	8952	807	339	29	58
Mining of dolomite	23486	8332	14592	20	380	22	141	0
Mining of bentonite and fullers earth	6791	5844	451	406	58	0	1	32
Mining of magnesite and whiting	6915	6062	218	27	58	50	0	500
Mining of sodium sulphate ..	2403	2015	43	7	329	10	0	0
Mining of barite	33014	25847	4093	1551	957	564	2	0
Mining of fluorine	4526	3469	27	835	16	175	5	0
Mining of strontium sulphate ..	260	176	61	1	22	0	0	0
Mining of orpiment.....	3929	3391	53	460	25	0	0	0
Mining of salt.....	7771	5482	1482	473	200	120	13	0
Mining of silica.....	10641	8014	1109	1072	403	34	10	0
Mining of ores slag	19097	14881	580	839	1732	700	40	325
Mining of feldspar	8534	7164	379	519	414	45	12	0
Mining of talcum.....	2067	1871	28	18	132	18	0	0
Mining of shell.....	425	308	0	5	13	100	0	0
Other precious and semi-precious stones.....	1393	664	40	145	40	500	5	0

Source: Statistical Centre of Iran.

5.9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR

Description	Number	Members	Workers	Capital (mln rials)
<i>Registered cooperatives⁽¹⁾</i>				
1370 ⁽²⁾	709	6742	4446	25769
1375 ⁽²⁾	1306	14022	8910	71572
1380 ⁽²⁾	1691	21373	12146	106325
1384 ⁽²⁾	1853	26121	13914	133852
1385 ⁽²⁾	1952	27271	15263	162032
1386 ⁽²⁾	2052	28106	16113	184890
1387 ⁽²⁾	2146	32538	16859	189486
1388	2242	35288	18244	206103
<i>Cooperatives under establishment</i>				
1370 ⁽²⁾	8	62	24	663
1375 ⁽²⁾	20	182	82	2008
1380 ⁽²⁾	56	972	342	3502
1384 ⁽²⁾	90	1710	705	6586
1385 ⁽²⁾	137	2277	1251	20253
1386 ⁽²⁾	186	2626	1696	35619
1387 ⁽²⁾	251	3604	2182	36782
1388	316	5721	3317	50585
<i>Cooperatives in operation</i>				
1370 ⁽²⁾	312	3544	2568	16453
1375 ⁽²⁾	634	8231	5681	52365
1380 ⁽²⁾	841	12029	7555	77835
1384 ⁽²⁾	929	15646	8434	99741
1385 ⁽²⁾	966	16074	9045	112456
1386 ⁽²⁾	1012	16537	9386	119880
1387 ⁽²⁾	1042	19996	9636	123206
1388	1073	20630	9887	126010
East Azarbayejan	33	424	336	3592
West Azarbayejan	18	153	234	2807
Ardebil	4	29	48	229
Esfahan	64	658	707	6895
Ilam	1	7	3	2
Bushehr	30	237	193	15178
Tehran	152	2404	973	13078
Chaharmahal & Bakhtiyari	8	70	66	1202
South Khorasan	18	160	104	575

5.9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR

Description	Number	Members	Workers	Capital (mln rials)
Khorasan-e-Razavi	88	1255	755	14095
North Khorasan	4	138	33	21
Khuzestan	23	227	192	405
Zanjan	29	489	249	3879
Semnan	42	364	473	5240
Sistan & Bluchestan	2	14	17	12
Fars	55	5619	708	20277
Qazvin	27	207	283	857
Qom	23	230	189	768
Kordestan	20	571	185	667
Kerman	72	3803	667	11608
Kermanshah	12	83	115	362
Kohgiluyeh & Boyerahmad	25	202	199	1005
Golestan	9	71	47	269
Gilan	11	77	86	481
Lorestan	122	1204	1179	2520
Mazandaran	43	733	550	2314
Markazi	60	493	524	2507
Hormozgan	26	186	293	7841
Hamedan	11	138	163	2544
Yazd	41	384	316	4778

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

2. Revised figures.

Source: Ministry of Cooperatives.