

### *Introduction*

**S**urvey of mines-related activities and continuous dissemination of its results began by the then Ministry of Industry, Mine and Trade 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 collected 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 mines of the country was conducted by the cooperation of the SCI and the Ministry of Industry, Mine and Trade 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 part of the economic activities suffered from the lack of statistics during the year 1357 to the year 1363, because in the interim, neither were statistical surveys implemented nor were comprehensive registers made available. The SCI conducted a survey of mines, run 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. The survey of mines has been conducted every year from the year 1367 to the year 1397 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.

**On the statistics presented, 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 7 (Oil and gas).

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

(3) The ISIC Rev.4 is followed with appropriate modifications for the classification of mine sector activities in this chapter.

### *Definitions and concepts*

**Mine:** It refers to an area which contains mineral deposit.

**Ore dressing:** It refers to all physical, chemical, or physicochemical operations for separating some of the waste materials from ores or separating ores from one another.

**Operating mine:** It refers to every mine in which some operations are done for extraction, dressing activities and production of marketable ores.

**Private management:** It refers to the management exercised by individuals or private institutions.

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

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

**Production line unskilled workers:** They refer to the persons, working in production line, whose jobs do not require any specific training or experience; such as laborers and porters.

**Other workers (administrative, financial and service):** They refer to the employed persons

engaged in clerical, administrative, financial and services activities in mines or their central offices but not engaged directly in the extraction and production activities.

In the 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:** They refer to wage, salary and other payments (money, goods, etc.) to wage and salary earners.

**Mineral products:** They refer to all minerals obtained from a series of extraction activities that 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 mining activities, several minerals may be produced. For example, copper ore mining activity includes minerals of copper ore and copper and molybdenum concentrates production.

**Value of mine products:** It is the total value of saleable mine products including raw and processed minerals by the sale prices at the mine site.

**Investment in mining (value of changes in non-financial assets):** It refers to the total value of non-financial assets, purchased, acquired and made by the mine, major repairs performed on non-financial assets and investment in the development and exploration less the value of sales of non-financial assets per year.

**Value added:** It is the surplus value generated during production.

**Value of receipts (outputs) in the mine:** the total value of mines products that can be offered (sold), including raw and processed minerals based on the sale price at the mine, the value of construction and major repair of capital assets (property) by mine workers and the value of other receipts for productive and non-productive services such as contract works, minor repairs of building and office supplies and equipment, minor repairs of laboratory equipment, sale of water and electricity, cooked food, etc.

**Value of payments (inputs) in the mine:** the total value of materials, nondurable tools and equipment, spare parts, fuel, explosives, water, electricity and other payments for productive and non-productive services such as contract works, minor repairs of machinery, building, laboratory equipment, office supplies and equipment, etc.

**Cooperative:** is a company consisting of at least 7 members, natural or legal ones, to fulfill the common needs and improve socio-economic conditions of members via self-aid and their mutual support according to the law of the cooperative sector which has been formed and registered for carrying out economic activities.

**Mines cooperative:** is a cooperative that engages in the extraction, exploitation, and sales of minerals, extracted from operating mines.

#### *Selected information*

According to the results of national operating mines survey in the year 1398, there were a number of 4974 operating mines in the country. The results show that a total of 107074 workers were working in these mines and the number of workers increased by 7.4 percent compared to the year 1397.

In the year 1398, the value of mines products amounted to 650310315 million rials. Iron ore, copper ore and coal with 358997338, 180582726 and 20678312 million rials accounted for the highest annual production value, respectively.

In the year 1398, the value added of the nation's operating mines activity amounted to 496500693 million rials. Iron ore, copper ore, and coal with 246080726, 163365359 and 18405924 million rials had the highest value added, respectively. The total value added of these mines accounted for about 86.2% of the sector's total value added. Moreover, Kerman, Yazd and East Azarbayejan Ostans (provinces), with 290782736, 73211879 and 41769451 million rials had the highest value added of the nation's operating mines among the provinces.

In the year 1398, an amount of 30426940 million rials of new investment was made, of which 81% is related to machinery, durable tools and office equipment, 7% is for the construction and installations (without land), 4% is related to vehicles, and 2% for the development and exploration.

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

Year and Ostan	Number of mines			Number of workers			
	Total	Type of management <sup>(1)</sup>		Total	Production line		Other (administrative financial and service)
		Private	Public		Skilled	Unskilled	
1380.....	2892	2548	344	55560 <sup>(2)</sup>	28013	14939	12608
1385.....	3582	3301	281	60062 <sup>(2)</sup>	31107	16146	12810
1390.....	5246	5036	209	84528	45159	21280	18089
1394.....	5214	5056	158	91211	52975	19878	18358
1395 <sup>(3)</sup> .....	4913	4744	169	93486	54826	20337	18323
1396.....	5353	5158	195	95831	55165	21134	19532
1397.....	4916	4749	167	99734	60370	19456	19908
<b>1398.....</b>	<b>4974</b>	<b>000</b>	<b>000</b>	<b>107074</b>	<b>65595</b>	<b>21807</b>	<b>19671</b>
East Azarbayejan.....	203	000	000	5905	3634	1567	705
West Azarbayejan.....	179	000	000	2279	1490	247	542
Ardebil.....	92	000	000	526	290	92	145
Esfahan.....	317	000	000	5280	3256	821	1203
Alborz.....	34	000	000	582	351	100	131
Ilam.....	33	000	000	287	162	42	83
Bushehr.....	190	000	000	1324	859	185	280
Tehran.....	122	000	000	1963	1046	588	329
Chaharmahal&Bakhtiyari.....	113	000	000	392	186	65	141
South Khorasan.....	256	000	000	6230	3620	1484	1126
Khorasan-e-Razavi.....	499	000	000	6104	3250	1347	1507
North Khorasan.....	99	000	000	1540	1097	246	197
Khuzestan.....	113	000	000	1165	647	203	314
Zanjan.....	157	000	000	2114	1301	402	411
Semnan.....	256	000	000	3391	1955	833	603
Sistan&Baluchestan.....	93	000	000	1718	933	512	273
Fars.....	220	000	000	5693	3362	1353	978
Qazvin.....	143	000	000	849	469	101	279
Qom.....	78	000	000	611	286	194	131
Kordestan.....	144	000	000	1762	1184	268	310
Kerman.....	438	000	000	29395	19970	5115	4310
Kermanshah.....	60	000	000	782	349	174	259
Kohgiluyeh&Boyerahmad.....	72	000	000	668	334	100	235
Golestan.....	91	000	000	1932	797	610	525
Gilan.....	62	000	000	571	319	133	119
Lorestan.....	91	000	000	1633	705	335	593
Mazandaran.....	105	000	000	2846	1760	642	444
Markazi.....	250	000	000	2595	1646	375	574
Hormozgan.....	152	000	000	1979	1056	658	265
Hamedan.....	153	000	000	1429	795	364	270
Yazd.....	160	000	000	13527	8488	2650	2389

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

Year and Ostan	Compensation of employees	Value of production
1380.....	899382	5675787
1385.....	2307840	22642408
1390.....	7316839	65442497
1394.....	20722775	118291069
1395 <sup>(3)</sup> .....	23912398	165734101
1396.....	29857148	250485343
1397.....	41146964	394525067
<b>1398.....</b>	<b>63006623</b>	<b>650310315</b>
East Azarbayejan.....	3822187	44289805
West Azarbayejan .....	851133	6312174
Ardebil .....	110313	720190
Esfahan .....	2175745	10503150
Alborz .....	199216	1054551
Ilam .....	64004	392148
Bushehr .....	321334	2001080
Tehran. ....	657270	3365593
Chaharmahal& Bakhtiyari .....	88023	582096
South Khorasan .....	1823942	18137369
Khorasan-e-Razavi.....	1793139	12237136
North Khorasan .....	309508	2227482
Khuzestan .....	339267	1944409
Zanjan .....	749965	4621279
Semnan.....	844379	4242797
Sistan&Baluchestan .....	593118	2513002
Fars .....	1874982	8969335
Qazvin .....	227434	956388
Qom .....	190948	1388057
Kordestan .....	615297	3463310
Kerman .....	27691464	385062411
Kermanshah .....	183016	2113782
Kohgiluyeh&Boyerahmad .....	226335	1484208
Golestan .....	583950	3587123
Gilan.....	170149	965564
Lorestan.....	495833	2162972
Mazandaran.....	1093927	3519668
Markazi .....	897478	8374593
Hormozgan .....	500905	3269758
Hamedan .....	424401	4841869
Yazd .....	13087961	105007014

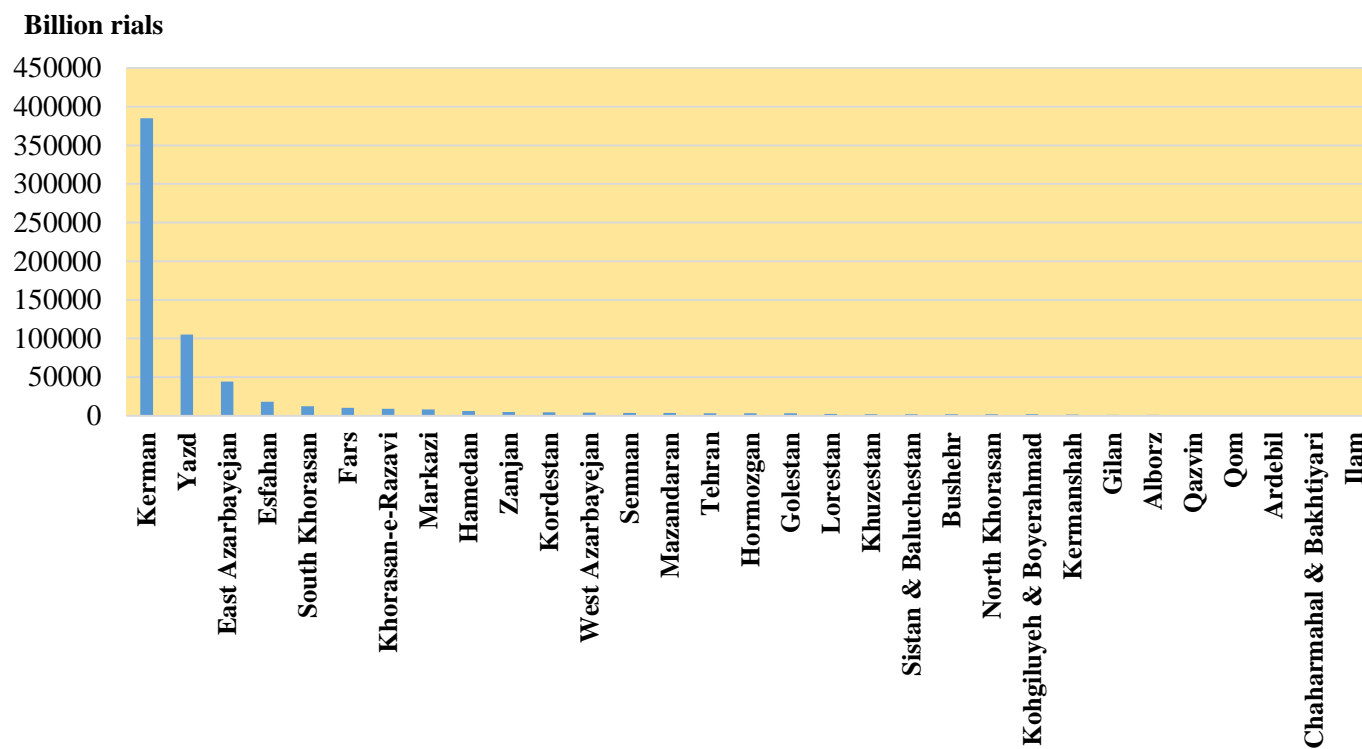
1. Information on the type of private and public management for the year 1398, cannot be provided.

2. Excluding the workers of mines in which part of the extraction activities was outsourced according to a contract in the year 1387 and before that.

3. Statistics for sand and gravel mines obtained from sampling survey were generalized to the whole country which has caused differences between the total and sum of parts in some cases.

Source: Statistical Centre of Iran.

### 6.1. VALUE OF MINERAL PRODUCTS OF OPERATING MINES BY OSTAN, THE YEAR 1398



For data see Table 6.1.

**6.2. NUMBER OF MINES, WORKERS, COMPENSATION OF WAGE AND SALARY EARNERS AND VALUE OF PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1398** (mln rials)

Activity	Number of mines			Number of workers			Compensation of wage and salary earners	Value of production	
	Total	Type of management <sup>(1)</sup>		Total	Production line				
		Private	Public		Skilled	Unskilled			Other (administrative financial and service)
<b>Total .....</b>	<b>4974</b>	<b>000</b>	<b>000</b>	<b>107074</b>	<b>65595</b>	<b>21807</b>	<b>19671</b>	<b>63006623</b>	<b>650310315</b>
Mining of hard coal.....	90	000	000	11312	6643	3054	1615	3732180	20678312
Mining of iron ore.....	134	000	000	26027	17855	3879	4293	26714345	358997338
Mining of lead and zinc	44	000	000	3884	2258	1118	508	2087182	12364010
Mining of gold ore .....	15	000	000	1609	1190	204	215	842235	7724819
Mining of copper ore.....	64	000	000	16152	10232	3374	2546	15962958	180582726
Mining of chromite .....	66	000	000	2278	1253	755	270	913466	2122759
Mining of manganese....	23	000	000	501	207	222	72	137122	971896
Mining of bauxite .....	19	000	000	697	541	82	74	128918	1695084
Mining of nickel, antimony and titanium ..	2	000	000	47	33	8	6	20427	169570
Mining of gravel and sand .....	1247	000	000	9923	5477	2023	2423	2395657	11443309
Mining of decorative stones .....	625	000	000	10287	5966	2208	2112	3307277	15863553
Mining of rubble stone..	642	000	000	3525	1905	763	857	739142	3308315
Mining of ballast stone..	4	000	000	31	20	5	6	8086	52600
Mining of lime stone .....	980	000	000	11860	7063	2150	2646	3613991	19890274
Mining of gypsum.....	222	000	000	1763	1063	311	390	442625	2924509
Mining of kaolin, fireclay and .....	189	000	000	1881	1030	476	375	554875	2871828
Mining of dolomite .....	26	000	000	201	117	38	46	40421	175462
Mining of bentonite's and fuller's earth .....	70	000	000	337	209	60	68	61040	289057
Mining of barite .....	64	000	000	445	231	108	106	109778	406091
Mining of strontium sulphate & boron.....	14	000	000	135	71	31	33	36996	506920
Mining of sodium sulphate .....	7	000	000	78	44	24	10	16556	154950
Mining of limonite and	6	000	000	40	23	6	11	4258	17690
Mining of fluorine.....	17	000	000	325	185	77	63	73882	372310
Mining of phosphate, potash & iodine .....	6	000	000	415	228	92	95	224292	2732882
Mining of salt.....	63	000	000	595	299	156	140	158201	627313
Mining of bitumen .....	11	000	000	145	49	46	50	29103	211680
Mining of silica .....	121	000	000	970	533	176	261	239267	1448502
Mining of ores slag .....	67	000	000	439	272	52	115	91558	437873
Mining of feldspar.....	95	000	000	642	349	105	188	143821	730903
Mining of talcum.....	5	000	000	39	26	3	10	10045	27869
Mining of shell & mica..	12	000	000	73	37	21	15	19897	56541
Mining of magnesite and whiting .....	20	000	000	254	126	85	43	73208	299783
Mining of precious and semi-precious stones .....	4	000	000	164	61	94	9	73814	153588

1. Information on the type of private and public management for the year 1398, cannot be provided.

Source: Statistical Centre of Iran.

### 6.3. MINERALS PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1398 (1000 tons)

Activity	Production
<b>Total</b> .....	<b>392203</b>
Mining of hard coal.....	3654
Mining of iron ore.....	82811
Mining of lead and zinc.....	2494
Mining of gold ore.....	6264
Mining of copper ore.....	4637
Mining of chromite.....	245
Mining of manganese.....	130
Mining of bauxite.....	1163
Mining of nickel, antimony and titanium.....	5
Mining of gravel and sand.....	71855
Mining of decorative stones.....	10644
Mining of rubble stone.....	18148
Mining of ballast stone.....	202
Mining of lime stone.....	151765
Mining of gypsum.....	16147
Mining of kaolin and fireclay.....	7703
Mining of dolomite.....	1003
Mining of bentonite's and fuller's earth.....	1021
Mining of barite.....	214
Mining of strontium sulphate & boron.....	152
Mining of sodium sulphate.....	880
Mining of limonite and ferrous oxide.....	96
Mining of fluorine.....	50
Mining of phosphate, potash & iodine.....	217
Mining of salt.....	2657
Mining of bitumen.....	31
Mining of silica.....	3569
Mining of ores slag.....	1862
Mining of feldspar.....	2290
Mining of talcum.....	45
Mining of shell & mica.....	95
Mining of magnesite & whiting.....	154
Mining of precious and semi-precious stones.....	1

Source: Statistical Centre of Iran.

**6.4. VALUE OF MINERALS PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY,  
THE YEAR: 1398** (mln rials)

Activity	Value of production
<b>Total</b> .....	<b>650310315</b>
Mining of hard coal.....	20678312
Mining of iron ore.....	358997338
Mining of lead and zinc.....	12364010
Mining of gold ore.....	7724819
Mining of copper ore.....	180582726
Mining of chromite.....	2122759
Mining of manganese.....	971896
Mining of bauxite.....	1695084
Mining of nickel, antimony and titanium.....	169570
Mining of gravel and sand.....	11443309
Mining of decorative stones.....	15863553
Mining of rubble stone.....	3308315
Mining of ballast stone.....	52600
Mining of lime stone.....	19890274
Mining of gypsum.....	2924509
Mining of kaolin and fireclay.....	2871828
Mining of dolomite.....	175462
Mining of bentonite's and fuller's earth.....	289057
Mining of barite.....	406091
Mining of strontium sulphate & boron.....	506920
Mining of sodium sulphate.....	154950
Mining of limonite and ferrous oxide.....	17690
Mining of fluorine.....	372310
Mining of phosphate, potash & iodine.....	2732882
Mining of salt.....	627313
Mining of bitumen.....	211680
Mining of silica.....	1448502
Mining of ores slag.....	437873
Mining of feldspar.....	730903
Mining of talcum.....	27869
Mining of shell & mica.....	56541
Mining of magnesite & whiting.....	299783
Mining of precious and semi-precious stones.....	153588

Source: Statistical Centre of Iran.



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

Year and Ostan	Value added	Payments (inputs)	Receipts (outputs)
1380.....	4618050	1254792	5872841
1385.....	16666060	6345035	23011095
1390.....	50421673	16506152	66927825
1394.....	84071447	36328753	120400200
1395.....	123275908	45348911	168624819
1396.....	195114614	59179148	254293762
1397.....	307987601	90059902	398047503
<b>1398.....</b>	<b>496500693</b>	<b>159939449</b>	<b>656440142</b>
East Azarbayejan Azerbayejan .....	41769451	2707200	44476651
West Azarbayejan .....	5441883	948136	6390019
Ardebil .....	576122	164685	740807
Esfahan .....	6785817	4078760	10864577
Alborz .....	835914	287371	1123285
Ilam .....	358971	74233	433204
Bushehr .....	1618125	482148	2100273
Tehran .....	2787434	680366	3467800
Chaharmahal & Bakhtiyari .....	444948	156478	601426
South Khorasan .....	16471014	2154954	18625968
Khorasan-e-Razavi .....	7782798	4634403	12417201
North Khorasan .....	1948741	432974	2381715
Khuzestan .....	1355583	648214	2003798
Zanjan .....	1944734	2780288	4725022
Semnan.....	3710775	621996	4332771
Sistan&Baluchestan .....	2007209	809837	2817046
Fars.....	7333364	2058534	9391897
Qazvin .....	767744	238752	1006496
Qom.....	1145965	265226	1411191
Kordestan .....	2633611	1053619	3687230
Kerman.....	290782736	96191260	386973996
Kermanshah .....	1900505	239467	2139972
Kohgiluyeh & Boyerahmad .....	1025008	502017	1527025
Golestan .....	2970996	668268	3639264
Gilan .....	744179	229576	973755
Lorestan.....	1357489	851089	2208578
Mazandaran.....	2633932	1077340	3711272
Markazi .....	7371612	1135659	8507272
Hormozgan.....	2805363	537711	3343073
Hamedan .....	3976792	986114	4962906
Yazd .....	73211879	32242774	105454652

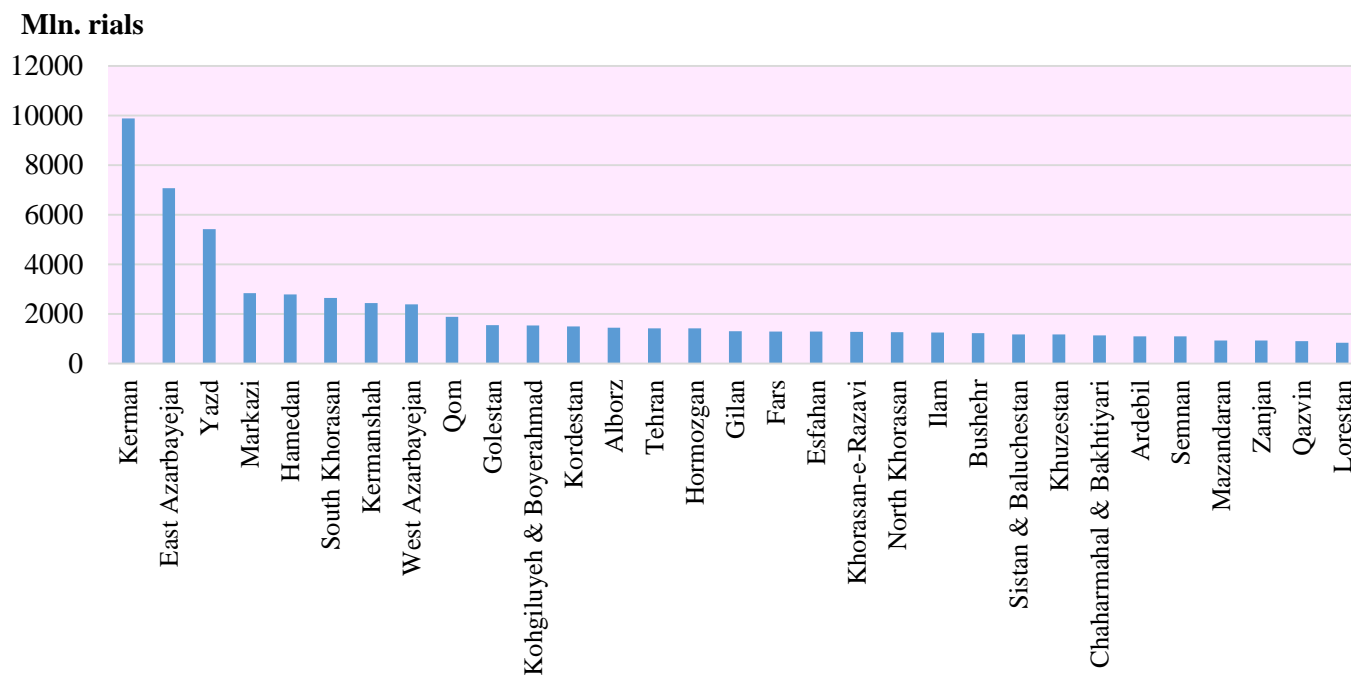
Source: Statistical Centre of Iran.

**6.6. VALUE ADDED, INPUTS AND OUTPUTS VALUE OF OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1398** (mln rials)

Activity	Value added	Payments (inputs)	Receipts (outputs)
<b>Total.....</b>	<b>496500693</b>	<b>159939449</b>	<b>656440142</b>
Mining of hard coal.....	18405924	2767991	21173915
Mining of iron ore.....	246080726	115194835	361275561
Mining of lead and zinc .....	7401490	5243964	12645454
Mining of gold ore .....	6398835	1380309	7779144
Mining of copper ore.....	163365359	17712495	181077854
Mining of chromite .....	1718875	450691	2169567
Mining of manganese .....	853789	143306	997095
Mining of bauxite .....	1456287	252969	1709256
Mining of nickel, antimony and titanium.....	146359	24304	170663
Mining of gravel and sand.....	8808313	3236940	12045253
Mining of decorative stones .....	13037957	3489084	16527040
Mining of rubble stone .....	2540235	914093	3454328
Mining of ballast stone.....	37628	16538	54166
Mining of lime stone.....	14334609	6210166	20544775
Mining of gypsum.....	2458945	522770	2981715
Mining of kaolin, fireclay and .....	2239473	697482	2936956
Mining of dolomite .....	124106	54697	178803
Mining of bentonite's and fuller's earth.....	202550	94269	296819
Mining of barite .....	317515	99302	416817
Mining of strontium sulphate & boron.....	421482	89556	511039
Mining of sodium sulphate .....	122330	54434	176764
Mining of limonite and ferrous oxide .....	11045	7458	18503
Mining of fluorine.....	335297	64769	400065
Mining of phosphate, potash & iodine.....	2489692	275482	2765174
Mining of salt.....	493896	153756	647652
Mining of bitumen .....	158436	58654	217090
Mining of silica .....	1195252	294311	1489563
Mining of ores slag .....	349860	114451	464311
Mining of feldspar.....	536541	219575	756115
Mining of talcum.....	21840	8484	30324
Mining of shell & mica. ....	37870	22071	59941
Mining of magnesite and whiting .....	254508	60326	314834
Mining of precious and semi-precious stones ....	143670	9917	153588

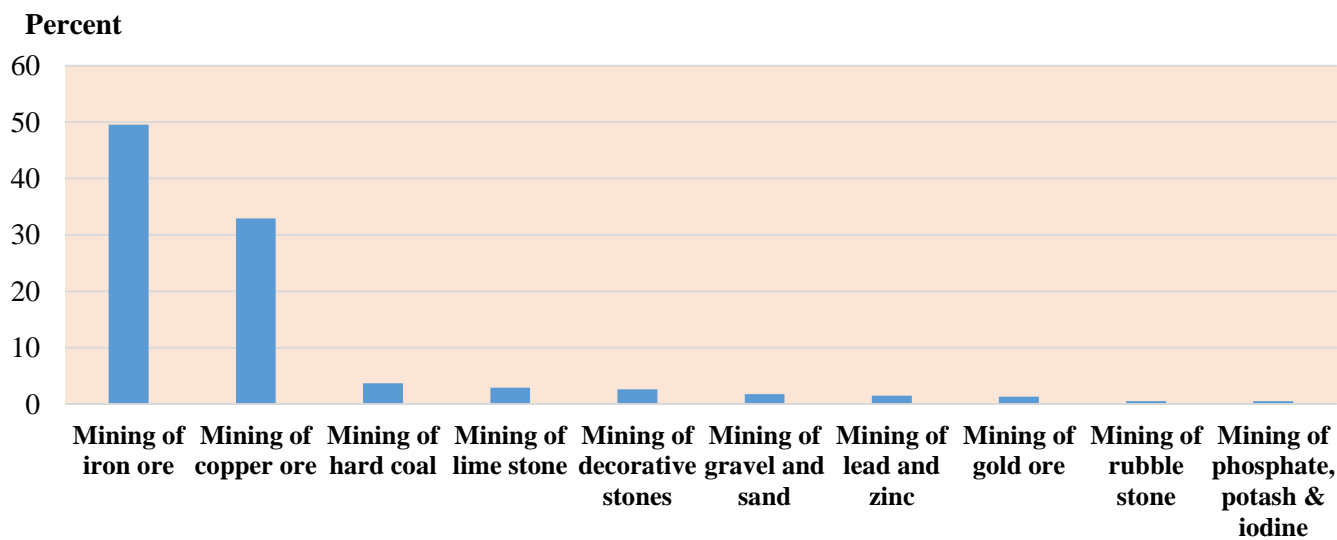
Source: Statistical Centre of Iran.

### 6.2. PRODUCTIVITY OF LABOUR FORCE IN MINING SECTOR BY OSTAN, THE YEAR 1398



For data see Tables 6.1. & 6.5.

### 6.3. RATIO OF THE VALUE ADDED OF SELECTED MINES TO THE TOTAL OPERATING MINES, THE YEAR 1398



For data see Table 6.6.

**6.7. INVESTMENT (CHANGES IN THE VALUE OF NON-FINANCIAL ASSETS) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND OSTAN**

(mln rials)

Year and Ostan	Total investment	Machinery, durable tools and office equipment	Vehicles	Building and installations (without land)	Private road	Exploration and development	Computer software	Other
1380.....	667897	537418	40533	47788	26187	10327	1204	4439
1385.....	1737226	1328153	87357	99032	42720	174966	-620	5618
1390.....	6149346	2957585	251308	411553	124038	246425	3112	2155326
1394.....	29420549	16661997	1194231	2659318	439458	8357900	4242	103403
1395.....	20368200	14421854	330705	2680180	462252	430180	9890	2033139
1396.....	21694354	14752123	712361	1666213	306039	367186	13041	3877391
1397.....	19476266	15106366	642904	2536207	237845	407219	17268	528457
<b>1398.....</b>	<b>30426940</b>	<b>24756345</b>	<b>1365862</b>	<b>2176653</b>	<b>425836</b>	<b>675984</b>	<b>34368</b>	<b>991893</b>
East Azarbayejan.....	1435600	1254079	7752	163279	6554	3568	321	47
West Azarbayejan .....	623610	545212	36405	16310	20500	5154	30	0
Ardebil .....	39784	36422	2075	35	1233	0	20	0
Esfahan.....	1839570	1523151	25325	216164	11749	63032	411	-261
Alborz .....	152835	118504	14231	17534	0	0	784	1783
Ilam .....	49481	49281	0	200	0	0	0	0
Bushehr .....	215199	173755	7273	7445	25204	1175	347	0
Tehran .....	277370	173246	20738	40833	15714	3298	1009	22531
Chaharmahal&Bakhtiari	64970	52079	4155	210	6776	1750	0	0
South Khorasan .....	1547592	851594	165139	81671	10527	257060	2181	179420
Khorasan-e-Razavi.....	823372	526995	72122	130933	42394	48815	1288	827
North Khorasan .....	181646	160095	10097	5092	2695	3667	0	0
Khuzestan .....	211177	146270	36911	27296	700	0	0	0
Zanjan .....	288656	220737	30621	6890	17407	8803	153	4044
Semnan .....	294941	184379	54464	19658	16895	19082	259	204
Sistan&Baluchestan ....	313151	262222	31955	2897	508	9562	6008	0
Fars .....	1800777	1357958	186390	132921	99720	22386	1403	0
Qazvin .....	198766	160761	6512	16359	13833	1094	208	0
Qom .....	65063	26929	8277	10533	2139	17167	19	0
Kordestan .....	497111	439364	14241	15261	19314	8891	0	40
Kerman .....	10299918	9505954	97845	668207	2215	8765	16932	0
Kermanshah .....	77212	60197	6647	4070	6268	0	30	0
Kohgiluyeh& Boyerahmad .....	36570	23729	12458	49	240	0	93	0
Golestan .....	333404	269062	7454	49352	300	0	279	6957
Gilan .....	868	1570	-3217	2515	0	0	0	0
Lorestan .....	253981	246168	4359	2930	509	0	16	0
Mazandaran .....	783679	512690	84570	72333	13601	101041	50	-605
Markazi .....	569121	444315	91868	1713	21916	9081	227	0
Hormozgan .....	951853	874116	21741	27587	27714	75	621	0
Hamedan .....	370782	344392	10560	2000	10830	3000	0	0
Yazd .....	5828880	4211119	296895	434377	28384	79518	1680	776906

Source: Statistical Centre of Iran.

**6.8. INVESTMENT (CHANGES IN THE VALUE OF NON-FINANCIAL ASSETS) IN OPERATING MINES BY TYPE OF NON-FINANCIAL ASSETS AND TYPE OF ACTIVITY, THE YEAR 1398**  
(mln rials)

Activity	Total investment	Machinery, durable tools and office equipment	Vehicles	Building and installations (without land)
<b>Total mines .....</b>	<b>30426940</b>	<b>24756345</b>	<b>1365862</b>	<b>2176653</b>
Mining of hard coal.....	1483801	673692	159424	129609
Mining of iron ore.....	7707455	6255024	306631	603969
Mining of lead and zinc .....	1911454	1035132	45757	285592
Mining of gold ore .....	306922	281618	8950	12926
Mining of copper ore.....	9790000	9045355	47627	670074
Mining of chromite .....	81030	50366	6783	2390
Mining of manganese .....	53605	21152	4136	10425
Mining of bauxite .....	44845	36689	3288	668
Mining of nickel, antimony and titanium.....	23051	17534	1017	0
Mining of gravel and sand .....	1621339	1319161	156115	63659
Mining of decorative stones....	2206897	2025691	88719	41258
Mining of rubble stone .....	510255	445466	22673	11296
Mining of ballast stone.....	4648	4184	88	0
Mining of lime stone.....	2764845	2257166	243755	125908
Mining of gypsum.....	426859	332372	31677	23818
Mining of kaolin, fireclay, and	403048	234452	33991	115652
Mining of dolomite .....	20665	18065	1070	30
Mining of bentonite's and fuller's earth .....	62131	32504	23743	1825
Mining of barite .....	111762	68962	7708	7621
Mining of strontium sulphate...	85540	76004	3158	2018
Mining of sodium sulphate.....	90535	1847	75325	1027
Mining of limonite and ferrous oxide.....	423	313	90	0
Mining of fluorine.....	15083	5293	8060	0
Mining of phosphate, potash & iodine.....	153114	97544	8195	47176
Mining of salt.....	107589	51444	50421	1469
Mining of bitumen .....	14285	9690	2010	2085
Mining of silica .....	164070	127245	19009	5752
Mining of ores slag .....	92973	87484	1938	2266
Mining of feldspar.....	134951	115539	4118	4642
Mining of talcum.....	4490	4450	0	0
Mining of shell & mica.....	12030	8780	0	3000
Mining of magnesite and whiting .....	17247	16128	390	500
Mining of precious and semi-precious stones .....	0	0	0	0

**6.8. INVESTMENT (CHANGES IN THE VALUE OF NON-FINANCIAL ASSETS) IN  
OPERATING MINES BY TYPE OF NON-FINANCIAL ASSETS AND TYPE OF ACTIVITY,  
THE YEAR 1398 (continued) (mln rials)**

Activity	Private road	Exploration and development	Computer software	Other
<b>Total mines .....</b>	<b>425836</b>	<b>675984</b>	<b>34368</b>	<b>991893</b>
Mining of hard coal.....	7382	332107	2267	179320
Mining of iron ore.....	28682	127086	18081	367982
Mining of lead and zinc .....	77106	60819	704	406344
Mining of gold ore .....	250	3178	0	0
Mining of copper ore.....	2353	24077	514	0
Mining of chromite .....	6073	15418	0	0
Mining of manganese.....	495	17362	36	0
Mining of bauxite .....	2822	1350	29	0
Mining of nickel, antimony.	0	4500	0	0
Mining of gravel and sand...	43523	5626	9007	24249
Mining of decorative stones	33613	12050	311	5255
Mining of rubble stone.....	24603	5521	246	449
Mining of ballast stone.....	0	350	26	0
Mining of lime stone.....	113151	16879	2088	5900
Mining of gypsum.....	28957	9102	533	400
Mining of kaolin, fireclay, and.....	11764	6911	279	0
Mining of dolomite .....	1500	0	0	0
Mining of bentonite's andfuller's earth .....	3251	809	0	0
Mining of barite .....	4497	22759	65	150
Mining of strontium .....	510	3820	10	20
Mining of sodium sulphate .	12336	0	0	0
Mining of limonite and ferrous oxide .....	20	0	0	0
Mining of fluorine.....	480	1250	0	0
Mining of phosphate, potash & iodine.....	200	0	0	0
Mining of salt.....	3605	350	0	300
Mining of bitumen .....	500	0	0	0
Mining of silica .....	9943	1100	171	850
Mining of ores slag .....	1279	0	0	5
Mining of feldspar.....	6672	3560	0	420
Mining of talcum.....	40	0	0	0
Mining of shell & mica .....	0	0	0	250
Mining of magnesite and whiting .....	230	0	0	0
Mining of precious and semi-precious stones .....	0	0	0	0

Source: Statistical Centre of Iran.

**6.9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR**

Description	Number	Members	Workers	Capital (mln rials)
<b><i>Total cooperatives<sup>(1)</sup></i></b>				
The year 1380.....	1691	21373	12146	106325
The year 1385.....	2303	32970	19000	206103
The year 1390 .....	2413	35997	21180	185112
The year 1395.....	2807	74112	26838	710217
The year 1396.....	2840	75944	26880	762086
The year 1397.....	2872	77957	32394	1133238
The year 1398.....	2900	78178	26810	1166914
<b><i>The year 1399.....</i></b>	<b><i>1240</i></b>	<b><i>000</i></b>	<b><i>14557</i></b>	<b><i>1052945</i></b>
<b><i>Cooperatives under establishment</i></b>				
The year 1380.....	56	972	342	3502
The year 1385.....	137	2277	1251	20253
The year 1390 .....	252	5359	3514	9087
The year 1395.....	270	2870	4868	82033
The year 1396.....	270	3273	4521	61548
The year 1397.....	280	4119	9579	70253
The year 1398.....	292	4220	3789	80599
<b><i>The year 1399.....</i></b>	<b><i>303</i></b>	<b><i>000</i></b>	<b><i>3959</i></b>	<b><i>80599</i></b>
<b><i>Cooperatives in operation</i></b>				
The year 1380.....	841	12029	7555	77835
The year 1385.....	966	16074	9045	112456
The year 1390 .....	896	46355	8961	118580
The year 1395.....	950	51133	10507	555342
The year 1396.....	916	50447	10318	595533
The year 1397.....	924	51954	10484	957068
The year 1398.....	938	51619	10598	979346
<b><i>The year 1399.....</i></b>	<b><i>937</i></b>	<b><i>51612</i></b>	<b><i>10598</i></b>	<b><i>972346</i></b>

**6.9. GENERAL CHARACTERISTICS OF MINES COOPERATIVES AT THE END OF THE YEAR**  
 (continued)

Description	Number	Members	Workers	Capital (mln rials)
East Azarbayejan .....	36	372	403	3387
West Azarbayejan .....	11	111	123	8083
Ardebil .....	10	97	91	1189
Esfahan .....	55	478	451	35352
Alborz .....	3	626	17	715
Ilam .....	2	14	8	1901
Bushehr .....	35	258	354	13529
Tehran .....	66	1259	1012	57050
Chaharmahal & Bakhtiyari .....	5	35	36	123
South Khorasan .....	20	703	378	2463
Khorasan-e-Razavi .....	189	4017	1952	178318
North Khorasan .....	8	210	81	69
Khuzestan .....	10	84	87	2128
Zanjan .....	12	350	239	141565
Semnan .....	36	392	504	63407
Sistan & Bluchestan .....	5	36	32	88
Fars .....	36	36633	718	330739
Qazvin .....	12	101	147	45974
Qom .....	28	241	247	6769
Kordestan .....	15	1405	423	1542
Kerman .....	62	556	649	6157
Kermanshah .....	20	142	167	185
Kohgiluyeh & Boyerahmad .....	6	49	50	8555
Golestan .....	9	78	69	455
Gilan .....	11	86	112	2885
Lorestan .....	95	914	766	6472
Mazandaran .....	48	1603	630	43336
Markazi .....	41	352	426	5834
Hormozgan .....	24	183	234	1053
Hamedan .....	6	43	53	83
Yazd .....	21	184	139	2940

1. Excluding non-operating cooperatives as of the year 1399.

Source: Ministry of Cooperatives, Labor and Social Welfare.