



Mining and Quarrying



Survey 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 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 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 economic sector suffered from a lack of statistics during the year 1357 to the year 1363, because in the interim neither statistical surveys were implemented nor comprehensive registers were available. The SCI conducted a survey of mines, covered by the public sector in the years 1364 and 1365, and also carried out the third census of mines of the country in the year 1366. Survey of mines has been conducted every year from the year 1367 to the year 1385 except for the years 1370 and 1384.

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

It should be noted that:

(1) in the survey of the operating mines of the country, statistics on oil and gas, radioactive

materials, and clay were not collected. However, due to the special importance of oil and gas statistics, the related information is separately presented in chapter 7(Oil and gas).

(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.4 is followed with appropriate modifications for the classification of activities in this sector.

Definitions and concepts

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

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

Private management: management exercised by individuals or private institutions.

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

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

Production line skilled workers: employed persons capable of performing a part of technical

activities related to production line due to their know-how and experience. Engineers, technicians, craftsmen, foremen, skilled labourers, fitters, and drivers, are some examples.

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

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

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

Compensation of employees: see Chapter 5, 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 5, 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 5, Definitions and concepts.

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

Selected information

On the basis of the country's operating mines survey results in the year 1392, there were 5445 operating mines. The results show that a total of 94640 persons were working in these mines and the number of workers increased by 11.4 percent in contrast to the year 1391.

In the year 1392, the value of mines products amounted to 126738 billion rials. Iron ore, copper ore and decorative stones with 73759, 19038 and 7927 bln. rials had the highest annual production value, respectively.

In the year 1392, the value added of the nation's operating mine amounted to 93432 billion rials. Iron ore, copper ore, and decorative stones with 52610, 15233 and 6284 billion rials had the highest value added, respectively. These three accounted for more than 79% of the sector's total value added.

Moreover, Kerman, Yazd and East Azerbaijan with 37176, 26399 and 3910 billion rials had the highest value added of the country's operating mines among the provinces.

In the year 1392, over 12980 billion rials of fresh investments were accomplished that over 79.5% relates to machinery, durable tools and administrative equipment and 9.6% goes to the construction and installations (regardless of land).

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				Compensation of employees	Value of production ⁽²⁾
	Total	Type of management		Total ⁽¹⁾	Production line		Other (administrative, financial and service)		
		Private	Public		Skilled	Unskilled			
1375.....	2704	2137	567	53046	23259	16372	13415	480155	1941600
1380.....	2892	2548	344	55560	28013	14939	12608	899382	5675787
1385.....	3582	3301	281	60062	31107	16146	12810	2307840	22642408
1388.....	4426	4181	245	76854	41229	19297	16328	5518477	35586170
1389.....	4974	4756	218	81293	46336	17357	17599	6403153	50147576
1390.....	5246	5036	209	84528	45159	21280	18089	7316839	65442497
1391.....	5316	5124	192	84922	46721	20261	17941	8857564	101209836
1392⁽³⁾.....	5445	5276	170	94640	50886	22808	20946	12063847	126738474
East Azarbayejan.....	287	286	1	5163	2341	2206	617	705689	4346234
West Azarbayejan	391	375	16	3362	1752	491	1118	349358	1878398
Ardebil	79	78	1	545	271	93	180	45345	169794
Esfahan.....	412	408	4	6669	4219	833	1618	844767	4009796
Alborz	18	18	0	360	142	121	97	47175	271530
Ilam	39	32	8	338	182	58	98	30536	182899
Bushehr	149	148	1	1050	548	176	326	69548	326297
Tehran	140	135	5	3223	1417	1177	629	298161	1376339
Chaharmahal& Bakhtiyari.....	82	78	4	326	173	35	117	33718	215137
South Khorasan.....	228	224	4	4751	2393	1275	1083	523528	2774435
Khorasan-e-Razavi.....	479	472	7	5535	2479	1951	1104	529061	4179206
North Khorasan.....	89	78	11	1309	715	449	144	52413	814443
Khuzestan.....	152	148	4	1596	788	400	408	148132	905357
Zanjan	125	123	2	1654	1041	258	355	184684	2063134
Semnan.....	284	276	9	3757	2440	715	602	327781	960792
Sistan&Baluchestan	105	105	0	1214	769	301	144	116760	527601
Fars.....	229	225	4	3657	2405	677	576	279340	1946971
Qazvin	142	138	4	662	391	181	90	69791	298524
Qom.....	80	80	0	855	466	177	213	99682	422884
Kordestan	123	113	10	911	568	134	209	102200	2405606
Kerman.....	487	476	12	19450	10052	3889	5509	3317413	49588111
Kermanshah	110	107	3	958	402	228	327	99414	480089
Kohgiluyeh&Boyerahmad ..	78	67	12	797	397	205	195	66759	266381
Golestan	93	87	6	2322	901	693	728	233775	770535
Gilan.....	80	71	9	1321	608	402	311	153718	428414
Lorestan.....	104	104	0	1916	1035	256	625	216491	852463
Mazandaran.....	89	79	11	2413	1447	602	363	267403	867239
Markazi	305	294	11	3569	2104	732	732	459309	3320190
Hormozgan.....	127	127	0	2156	1087	772	297	240201	1242837
Hamedan	122	120	2	880	586	156	138	86669	1012321
Yazd	216	206	9	11922	6768	3161	1993	2065027	37834519

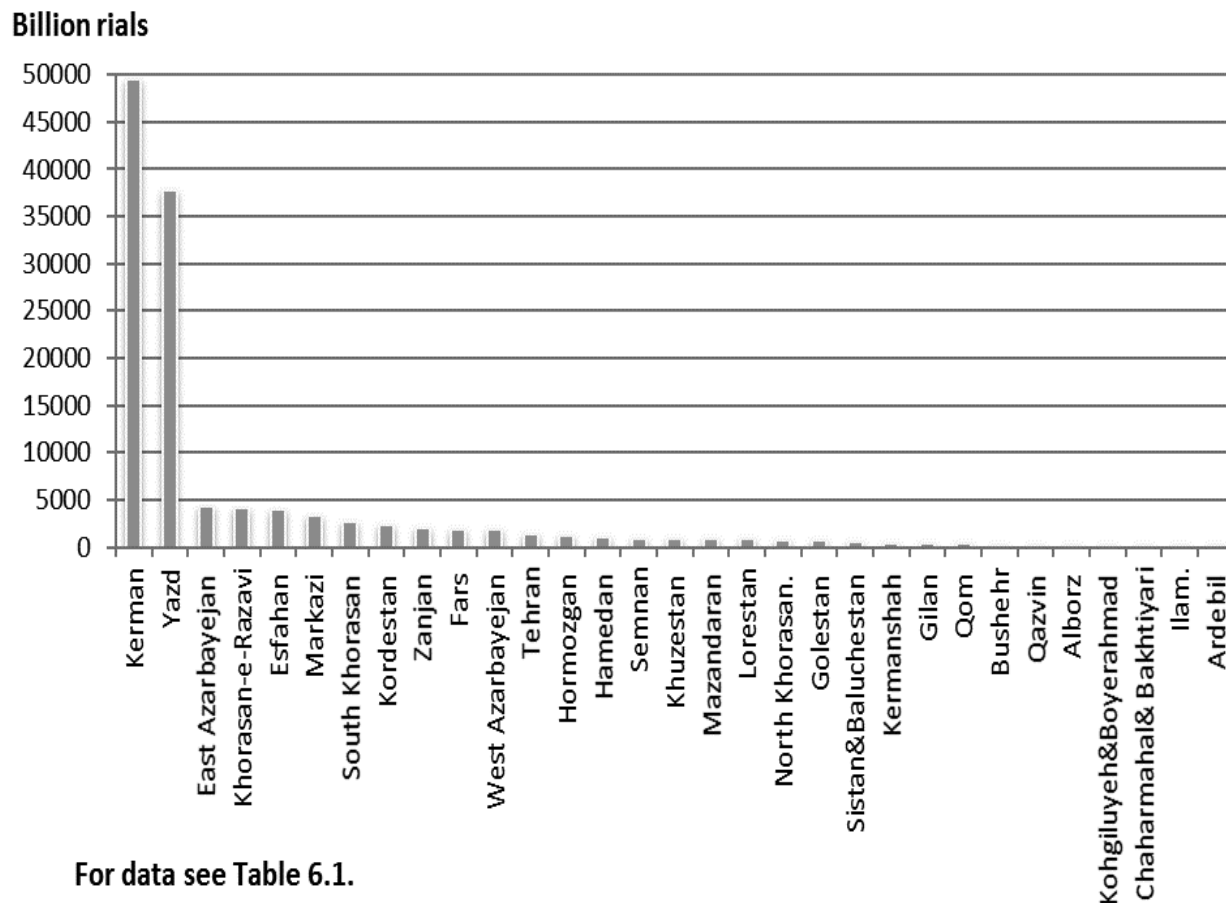
1. Excluding the workers of mines whose extraction activities were entrusted to others under a contract, in the year 1387 and before.

2. Including the value of mineral products and others since the year 1375

3. 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.

Source: Statistical Centre of Iran.

**6.1. VALUE OF MINERAL PRODUCTS OF OPERATING MINES BY OSTAN,
THE YEAR 1392**



6.2. NUMBER OF MINES, WORKERS, COMPENSATION OF EMPLOYEES AND VALUE OF PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1392
(mln.rials)

Activity	Number of mines			Number of workers			
	Total	Type of management		Total	Production line		Other (administrative, financial and service)
		Private	Public		Skilled	Unskilled	
Total ⁽¹⁾	5445	5276	170	94640	50886	22808	20946
Mining of coal	101	90	11	12291	6412	3084	2794
Mining of iron ore.....	159	152	7	18510	9955	4508	4047
Mining of lead and zinc	34	30	4	2044	1289	447	308
Mining of gold ore	6	4	2	532	439	29	64
Mining of copper ore	23	22	1	8807	4276	2278	2253
Mining of chromite	51	51	0	1900	949	567	384
Mining of manganese.....	25	25	0	679	386	146	148
Mining of bauxite.....	6	4	2	580	369	179	32
Mining of cobalt, antimony and titanium	2	2	0	40	15	19	6
Mining of gravel and sand	1437	1363	74	12386	6209	3252	2925
Mining of decorative stones	859	853	6	12956	7489	2820	2648
Mining of rubble stone.....	771	758	13	4652	2330	1155	1167
Mining of ballast stone	5	5	0	41	20	9	12
Mining of lime stone	760	724	36	9251	5510	1710	2031
Mining of gypsum.....	310	306	4	2401	1321	536	544
Mining of kaolin and fireclay	222	222	0	1572	889	430	253
Mining of dolomite	33	32	1	256	133	57	66
Mining of bentonite's and fuller's earth	63	63	0	296	160	84	52
Mining of whiting	3	3	0	25	12	9	4
Mining of barite, limonite and ferrous oxide	76	75	1	773	420	199	155
Mining of strontium sulphate & boron	9	9	0	294	118	125	52
Mining of sodium sulphate	13	12	1	195	64	98	32
Mining of fluorine	17	17	0	340	137	97	106
Mining of orpiment phosphate & iodine	5	3	2	409	217	137	55
Mining of peat.....	0	0	0	0	0	0	0
Mining of salt	88	88	0	726	382	185	159
Mining of bitumen	23	22	1	185	71	45	69
Mining of silica.....	112	112	0	859	452	206	201
Mining of ores slag	99	98	1	604	342	104	158
Mining of feldspar	72	71	2	409	227	80	102
Mining of talcum	15	15	0	103	51	20	32
Mining of shell & mica.....	13	12	1	81	40	19	22
Mining of magnesite	27	27	0	319	162	119	38
Other precious and semi-precious stones	6	6	0	127	42	56	29

6.2. NUMBER OF MINES, WORKERS, COMPENSATION OF EMPLOYEES AND VALUE OF PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1392 (continued) (mln.rials)

Activity	Compensation of employees	Value of production
Total ⁽¹⁾.....	12063847	126738474
Mining of coal	1583406	4029750
Mining of iron ore.....	3109422	73759114
Mining of lead and zinc.....	341142	2702290
Mining of gold ore.....	76462	454086
Mining of copper ore.....	1814609	19038293
Mining of chromite.....	358471	1649177
Mining of manganese.....	88367	345702
Mining of bauxite.....	8557	573683
Mining of cobalt, antimony and titanium.....	4165	27821
Mining of gravel and sand.....	1033651	4531595
Mining of decorative stones.....	1499638	7927911
Mining of rubble stone.....	315249	1384191
Mining of ballast stone.....	4169	24727
Mining of lime stone.....	952842	5096164
Mining of gypsum.....	192419	940383
Mining of kaolin and fireclay.....	128212	1410943
Mining of dolomite.....	21347	120802
Mining of bentonite's and fuller's earth.....	16824	71309
Mining of whiting.....	651	1584
Mining of barite, limonite and ferrous oxide.....	105019	401023
Mining of strontium sulphate & boron.....	7290	35042
Mining of sodium sulphate.....	11208	49665
Mining of fluorine.....	34776	128489
Mining of orpiment phosphate & iodine.....	56458	390931
Mining of peat.....	0	0
Mining of salt.....	62586	371981
Mining of bitumen.....	21628	166303
Mining of silica.....	83087	492276
Mining of ores slag.....	44604	267015
Mining of feldspar.....	26834	113710
Mining of talcum.....	10423	23049
Mining of shell & mica.....	6126	24515
Mining of magnesite.....	32282	164435
Other precious and semi-precious stones.....	11926	20514

1. Statistics for some sand and gravel mines, obtained from sample surveys were generalized to the total country and caused differences between the total and sum of parts in some cases.

Source: Statistical Centre of Iran

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

Activity	1392
Total	355848
Mining of coal	2576
Mining of iron ore	47792
Mining of lead and zinc	1900
Mining of gold ore	1550
Mining of copper ore	2113
Mining of chromite	348
Mining of manganese	164
Mining of bauxite	899
Mining of cobalt, antimony and titanium	5
Mining of gravel and sand	86982
Mining of decorative stones	15253
Mining of rubble stone	23313
Mining of ballast stone	379
Mining of lime stone	132181
Mining of gypsum	18582
Mining of kaolin and fireclay	7683
Mining of dolomite	868
Mining of bentonite's and fuller's earth	502
Mining of whiting	2
Mining of barite, limonite and ferrous oxide	488
Mining of strontium sulphate & boron	49
Mining of sodium sulphate	967
Mining of fluorine	57
Mining of orpiment phosphate & iodine	135
Mining of peat	0
Mining of salt	3251
Mining of bitumen	39
Mining of silica	3854
Mining of ores slag	2467
Mining of feldspar	1056
Mining of talcum	94
Mining of shell & mica	101
Mining of magnesite	181
Other precious and semi-precious stones	17

Source: Statistical Centre of Iran

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

Activity	1392
Total	126738474
Mining of coal	4029750
Mining of iron ore.....	73759114
Mining of lead and zinc.....	2702290
Mining of gold ore.....	454086
Mining of copper ore.....	19038293
Mining of chromite.....	1649177
Mining of manganese.....	345702
Mining of bauxite.....	573683
Mining of cobalt, antimony and titanium.....	27821
Mining of gravel and sand.....	4531595
Mining of decorative stones.....	7927911
Mining of rubble stone.....	1384191
Mining of ballast stone.....	24727
Mining of lime stone.....	5096164
Mining of gypsum.....	940383
Mining of kaolin and fireclay.....	1410943
Mining of dolomite.....	120802
Mining of bentonite's and fuller's earth.....	71309
Mining of whiting.....	1584
Mining of barite, limonite and ferrous oxide.....	401023
Mining of strontium sulphate & boron.....	35042
Mining of sodium sulphate.....	49665
Mining of fluorine.....	128489
Mining of orpiment phosphate & iodine.....	390931
Mining of peat.....	0
Mining of salt.....	371981
Mining of bitumen.....	166303
Mining of silica.....	492276
Mining of ores slag.....	267015
Mining of feldspar.....	113710
Mining of talcum.....	23049
Mining of shell & mica.....	24515
Mining of magnesite.....	164435
Other precious and semi-precious stones.....	20514

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)
1375	1421533	621369	2042902
1380	4618050	1254791	5872841
1385	16666060	6345035	23011095
1388	26662764	9926427	36589191
1389	38736873	12234125	50970998
1390	47826873	19100952	66927825
1391	79163479	23217922	102381401
1392	93432183	35910466	129342649
East Azerbayejan	3910912	512765	4423677
West Azarbayejan	1494749	467916	1962665
Ardebil	118659	65390	184048
Esfahan	2858108	1286732	4144840
Alborz	229843	162250	392094
Ilam	132313	53710	186023
Bushehr	255561	107739	363300
Tehran	822427	592036	1414463
Chaharmahal&Bakhtiyari	160148	62281	222430
South Khorasan	2120324	1498346	3618670
Khorasan-e-Razavi	2459226	1807451	4266677
North Khorasan	712114	105400	817514
Khuzestan	628127	305837	933964
Zanjan	1612753	522163	2134916
Semnan	728116	271603	999719
Sistan&Baluchestan	414444	147591	562036
Fars	1633631	405956	2039587
Qazvin	222487	88424	310911
Qom	324426	119903	444329
Kordestan	1859954	613163	2473117
Kerman	37176253	12525808	49702060
Kermanshah	336746	162631	499377
Kohgiluyeh&Boyerahmad	218491	54489	272981
Golestan	534556	276372	810929
Gilan	389206	63520	452727
Lorestan	535188	348236	883424
Mazandaran	615118	351151	966268
Markazi	2651429	753297	3404726
Hormozgan	1014216	367909	1382125
Hamedan	863390	165150	1028540
Yazd	26399270	11645246	38044516

Source: Statistical Centre of Iran.

**6.6.VALUE ADDED, INPUTS AND OUTPUTS VALUE OF OPERATING MINES BY TYPE
ACTIVITY, THE YEAR 1392**

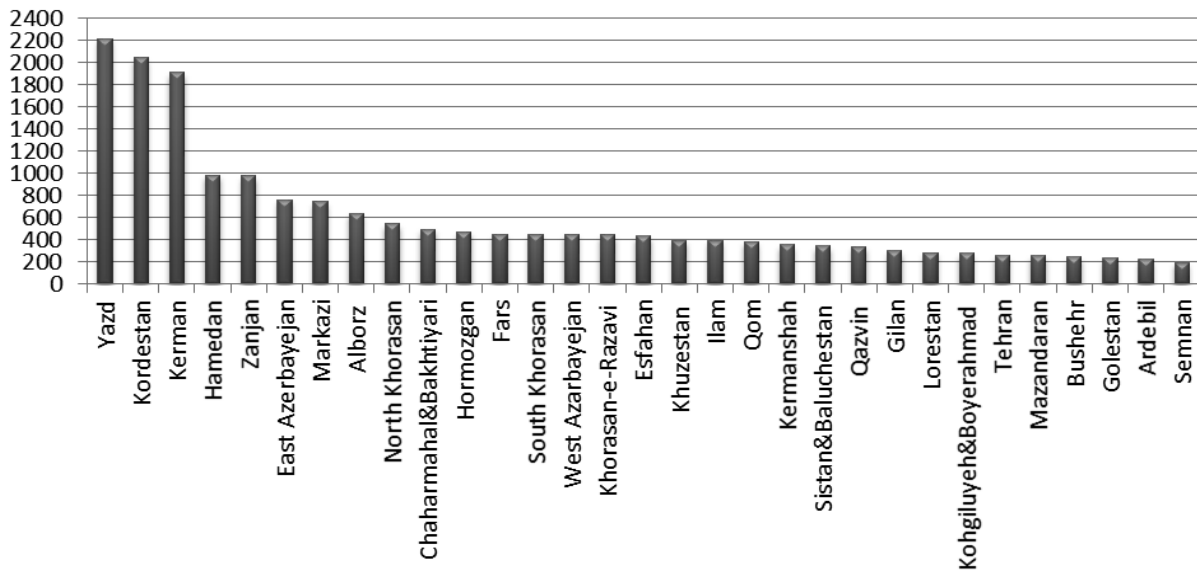
(mln rials)

Activity	Value added	Payments (inputs)	Receipts (outputs)
Total	93432183	35910466	129342649
Mining of coal	2688527	1638632	4327158
Mining of iron ore.....	52610917	21438787	74049704
Mining of lead and zinc	2104030	650724	2754754
Mining of gold ore.....	385878	94432	480309
Mining of copper ore	15233867	4436315	19670182
Mining of chromites	1403178	275990	1679168
Mining of manganese	244661	125637	370299
Mining of bauxite	518361	55767	574128
Mining of cobalt, antimony and titanium	24627	3755	28381
Mining of gravel and sand	3325110	1451150	4776260
Mining of decorative stones	6284836	1975240	8260076
Mining of rubble stone	998234	461366	1459600
Mining of ballast.....	16003	8814	24817
Mining of lime stone.....	3494942	1968052	5462994
Mining of gypsum	653286	350205	1003491
Mining of kaolin and fireclay	1247302	190172	1437473
Mining of dolomite	92657	31097	123755
Mining of bentonite and fuller's earth	53201	20727	73928
Mining of magnesite and whiting	1143	487	1630
Mining of barite, limonite and ferrous oxide.....	311656	109366	421022
Mining of strontium sulphate	28150	8419	36569
Mining of sodium sulphate	31349	18664	50013
Mining of fluorine	87754	45816	133571
Mining of orpiment , phosphate & iodine	351515	63515	415030
Mining of peat	0	0	0
Mining of salt	271385	110966	382351
Mining of bitumen	134543	36974	171517
Mining of silica	387179	135780	522959
Mining of ores slag	200503	90456	290959
Mining of feldspar	86003	36034	122037
Mining of talcum	17505	7033	24538
Mining of shell & mica.....	14869	9750	24619
Mining of magnesite.....	111418	56915	168333
Mining of Other precious and semi-precious stones ...	17596	3429	21025

Source: Statistical Centre of Iran.

6.2. PRODUCTIVITY OF LABOUR FORCE IN MINING SECTOR BY OSTAN, THE YEAR 1392

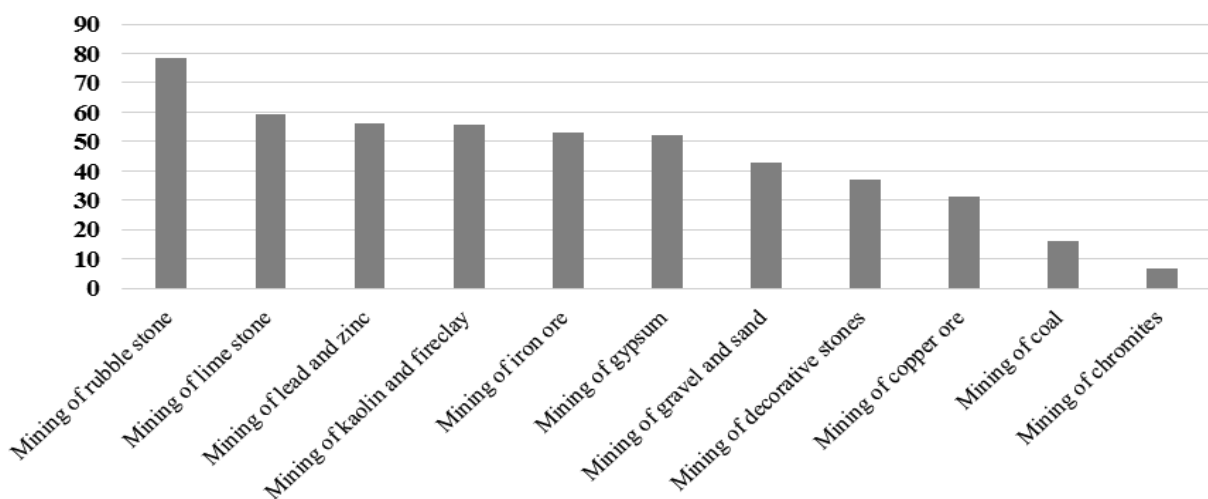
Million rials



For data see Tables 6-1 and 6-5.

RATIO OF VALUE ADDED OF SELECTED MINES TO THE TOTAL OPERATING MINES, THE YEAR 1393

PERCENT



For Data See Table: 6.6

6.7. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL GOODS) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND OSTAN (mln rials)

Year and Ostan	Total investment	Machinery and stable equipment and administrative facilities	Vehicles	Building and equipment (without land)	Access road	Exploration and development	Computer software	Other
1375.....	294962	190265	17435	35261	9849	5755	-	36397
1380.....	667897	537418	40533	47788	26187	10327	1204	4439
1385.....	1737226	1328153	87357	99032 ⁽¹⁾	42720	174966	620-	5618
1388.....	3631020	2807301	171402	238032 ⁽¹⁾	136137	233012	3136	42000
1389.....	6340513	5408981	50811	217754	66188	216726	332145	3116
1390.....	6149346	2957585	251308	411553	124038	246425	3112	2155326
1391.....	8606538	6115720	473711	1528769	112297	316678	20128	39235
1392.....	12980023	10320746	31808	1247367	283592	374570	24809	697131
East Azarbayejan.....	230411	119670	19892	70721	19566	348	14	200
West Azarbayejan	273387	210721	14766	13611	21161	9893	332	2903
Ardebil	67379	63679	778	224	788	750	10	1150
Esfahan.....	690872	540989	38236	56279	15868	5435	216	33849
Alborz	64131	62024	244	777	935	0	151	0
Ilam	23589	13670	8162	1397	333	0	27	0
Bushehr	64451	56212	2051	4582	835	0	97	674
Tehran	169488	143770	13759	6802	3323	1300	534	0
Chaharmahal& Bakhtiyari.....	28819	25788	1303	379	1127	0	0	222
South Khorasan.....	1329570	1066433	10593	62704	2809	121363	790	64878
Khorasan-e-Razavi.....	368312	279210	28612	20514	15256	17231	745	6745
North Khorasan	49202	23029	4983	1757	6219	12128	6	1081
Khuzestan.....	93290	77462	10545	2628	2571	32	9	43
Zanjan	192829	104056	8125	20801	4794	34321	394	20338
Semnan.....	114664	82140	17431	6462	5792	2131	112	598
Sistan&Baluchestan	44802	86768	67597-	12101	8288	5055	162	25
Fars.....	257568	207010	23255	16869	8000	2000	35	400
Qazvin	42680	35077	2451	1313	1284	1363	280	912
Qom.....	74522	18825	2099	35798	200	17582	19	0
Kordestan	361045	122511	3375	204913	28476	1671	100	0
Kerman.....	4680412	4360899	231139-	402116	25915	23903	1961	96757
Kermanshah	63549	51344	1377	6633	3221	950	3	20
Kohgiluyeh& Boyerahmad	11426	9837	971	100	310	110	97	0
Golestan	69304	40571	2823	10458	285	150	624	14392
Gilan.....	61206	50184	1441	8633	359	50	539	0
Lorestan.....	64414	56877	3987	790	636	0	0	2125
Mazandaran.....	178854	140004	15952	3993	3108	15795	2	0
Markazi	406641	349687	11610	14760	8022	22367	196	0
Hormozgan.....	1031233	840307	58731	33662	60425	35035	1213	1859
Hamedan	92323	77308	5884	7885	1147	20	24	55
Yazd.....	1779648	1004682	17111	217703	32541	43587	16119	447905

1. Including building without land.

Source: Statistical Centre of Iran.

6.8. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL GOODS) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND TYPE OF ACTIVITY, THE YEAR 1392

(mln rials)

Activity	Total investment	Machinery and stable equipment and administrative facilities	Vehicles	Building without land
Total	12980023	10320746	31808	1247367
Mining of coal	659845	384433	16264	38222
Mining of iron ore	6122879	4490303	98324	815486
Mining of lead and zinc	223344	135494	8148	35135
Mining of gold ore	44866	11396	6490	3527
Mining of copper ore	2248183	2149137	3019-	79873
Mining of chromite	148282	118888	15913	8621
Mining of manganese.....	89059	29071	1816	39302
Mining of bauxite.....	7926	1260	2190	585
Mining of cobalt, antimony and titanium ..	6166	220	460	76
Mining of gravel and sand	317194	385014	118541-	35527
Mining of decorative stones.....	1186917	992022	37562	88850
Mining of rubble stone.....	320232	285612	6155	11676
Mining of ballast.....	3439	3409	30	0
Mining of lime stone.....	461541	405116	18222-	42650
Mining of gypsum.....	790641	702258	28613	10502
Mining of kaolin and fireclay	8263	3830	14787-	14039
Mining of dolomite	4791	4689	1192-	103
Mining of bentonite and fuller's earth	4763	3908	1086-	492
Mining of whiting	70	17	53	0
Mining of barite, limonite and ferrous oxide	88555	46014	1328	2842
Mining of strontium sulphate.....	6017	3215	880	172
Mining of sodium sulphate	1623	681	148	130
Mining of fluorine	9250	3788	704	707
Mining of orpiment phosphate & iodine....	54786	6118	2799	7978
Mining of peat.....	0	0	0	0
Mining of salt.....	88800	71472	2631	1698
Mining of bitumen	9146	2026	507	3323
Mining of silica	43072	31283	12391-	3232
Mining of ores slag	30805-	9038-	24037-	991-
Mining of feldspar	15220	18160	7557-	845
Mining of talcum	5817	5325	408	0
Mining of shell & mica.....	1397	1157	51	75
Mining of magnesite	37756	33941	742	2653
Other precious and semi-precious stones...	990	527	425	38

6.8. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL GOODS) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND TYPE OF ACTIVITY, THE YEAR 1392 (continued) (mln rials)

Activity	Access road	Exploration and development	Computer software	Other
Total	283592	374570	24809	697131
Mining of coal	6568	148394	1741	64222
Mining of iron ore.....	111049	84727	18568	504421
Mining of lead and zinc	645	10830	46	33047
Mining of gold ore.....	5511	2000	62	15880
Mining of copper ore	137	10141	184	11729
Mining of chromite	1948	1110	52	1750
Mining of manganese	637	17532	0	700
Mining of bauxite	3891	0	0	0
Mining of cobalt, antimony and titanium	0	5410	0	0
Mining of gravel and sand	9425	1372	1746	2651
Mining of decorative stones	32344	31979	336	3825
Mining of rubble stone	12552	3804	110	323
Mining of ballast.....	0	0	0	0
Mining of lime stone.....	24338	3874	470	3314
Mining of gypsum	33930	15163	111	65
Mining of kaolin and fireclay	1285	3315	320	260
Mining of dolomite.....	906	210	36	40
Mining of bentonite and fuller's earth	546	873	29	0
Mining of whiting.....	0	0	0	0
Mining of barite, limonite and ferrous oxide	1608	3938	244	32581
Mining of strontium sulphate	818	530	3	400
Mining of sodium sulphate	464	200	0	0
Mining of fluorine	0	485	0	3566
Mining of orpiment phosphate & iodine	0	23101	484	14306
Mining of peat	0	0	0	0
Mining of salt.....	10698	500	111	1690
Mining of bitumen.....	2370	920	0	0
Mining of silica.....	18453	1801	38	657
Mining of ores slag.....	1319	1243	30	670
Mining of feldspar	1971	1097	26	679
Mining of talcum	82	0	2	0
Mining of shell & mica.....	64	0	35	15
Mining of magnesite.....	35	20	25	340
Other 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 (mln rials)

Description	Number	Members	Workers	Capital
<i>Registered cooperatives⁽¹⁾</i>				
1375	1306	14022	8910	71572
1380	1691	21373	12146	106325
1385	1952	27271	15263	162032
1389	2303	32970	19000	206103
1390	2413	35997	21180	185112
1391	2534	70359	22337	224856
1392	2666	78958	25189	273966
1393	2701	79202	25910	1507179
<i>Cooperatives under establishment</i>				
1375	20	182	82	2008
1380	56	972	342	3502
1385	137	2277	1251	20253
1389	219	4098	2292	50585
1390	252	5359	3514	9087
1391	332	6240	4277	16018
1392	301	5169	5321	34862
1393	274	5054	5372	986814
<i>Cooperatives in operation</i>				
1375	634	8231	5681	52365
1380	841	12029	7555	77835
1385	966	16074	9045	112456
1389	918	14021	8917	126010
1390	896	46355	8961	118580
1391	876	46459	8811	144001
1392	940	55064	9990	176791
1393	944	54987	10158	1326258

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

Description	Number	Members	Workers	Capital (mln rials)
East Azarbayejan.....	38	625	450	6703
West Azarbayejan	12	110	124	674
Ardebil.....	10	91	98	714
Esfahan.....	37	320	442	12170
Alborz.....	10	121	103	4114
Ilam	3	28	11	1903
Bushehr	36	276	363	16205
Tehran	56	1231	1017	27777
Chaharmahal&Bakhtiari.....	8	56	58	1031
South Khorasan	20	288	278	4076
Khorasan-e-Razavi.....	185	3533	1806	1028818
North Khorasan	7	203	80	68
Khuzestan.....	18	145	204	2292
Zanjan.....	16	370	227	109671
Semnan.....	35	374	479	16723
Sistan&Bluchestan	7	61	99	102
Fars.....	35	42815	597	32350
Qazvin	7	59	88	7254
Qom.....	18	165	117	1901
Kordestan	8	143	68	128
Kerman.....	59	535	456	9494
Kermanshah.....	18	126	143	319
Kohgiluyeh & Boyerahmad.....	16	136	129	768
Golestan.....	4	31	23	9
Gilan.....	13	98	103	754
Lorestan.....	124	1145	1008	3060
Mazandaran	45	1080	604	5929
Markazi.....	41	361	502	5917
Hormozgan.....	30	215	257	3437
Hamedan.....	9	72	92	2059
Yazd	19	174	132	19838

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

Source: Ministry of Cooperatives, Labor and Social Welfare.