



Mining and Quarrying



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Introduction

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 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 the 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 .

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 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.

Investment (changes in the value of capital properties): 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 1393, there were 5355 operating mines. The results show that a total of 91869 persons were working in these mines and the number of workers decreased by 2.9 percent in contrast to the year 1392.

In the year 1393, the value of mines products amounted to 139206 billion rials. Iron ore, copper ore and decorative stones with 76987563, 23123954 and 8263572 million rials had the highest annual production value, respectively.

In the year 1393, the value added of the nation's operating mine amounted to 97590386 million rials. Iron ore, copper ore, and decorative stones with 52697479, 16013670 and 6405388 million rials had the highest value added, respectively. These three accounted for more than 77% of the sector's total value added.

Moreover, Kerman, Yazd and Khorasan-e-Razavi with 35403617, 26240390 and 6003202 million rials had the highest value added of the country's operating mines among the provinces.

In the year 1393, over 19872 billion rials of fresh investments were accomplished that over 52% relates to machinery, durable tools and administrative equipment and 5% goes to the construction and installations.

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	
	Total	Type of management		Total ⁽¹⁾	Production line				
		Private	Public		Skilled	Unskilled			Other (administrative, financial and service)
1375	2704	2137	567	53046	23259	16372	13415	480155	⁽²⁾ 1941600
1380.....	2892	2548	344	55560	28013	14939	12608	899382	5675787
1385.....	3582	3301	281	60062	31107	16146	12810	2307840	22642408
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
1393... ..	5355	5199	156	91869	51499	21372	18998	15797219	139206408
East Azarbayejan	268	264	4	4570	2146	1913	511	856314	4805276
West Azarbayejan	328	322	6	3016	1392	727	896	366325	2440382
Ardebil	115	115	0	801	527	102	172	59625	253188
Esfahan	390	381	9	6166	4001	700	1465	970068	4127623
Alborz	19	19	0	341	153	91	97	42018	284538
Ilam.....	32	27	5	314	174	61	79	46789	234197
Bushehr.....	145	144	1	980	509	192	279	72142	367541
Tehran.....	122	121	1	2400	1393	519	488	364792	1674475
Chaharmahal& Bakhtiyari	82	79	3	407	246	42	119	44594	260112
South Khorasan.....	219	216	3	5491	2629	1980	882	813432	3703862
Khorasan-e-Razavi.....	528	517	11	5114	2532	1353	1229	603412	8639216
North Khorasan.....	84	65	19	1391	851	345	196	240792	868550
Khuzestan	140	137	4	1479	800	368	312	179212	1261308
Zanjan	140	137	3	1832	1098	326	408	252758	2573896
Semnan.....	345	335	10	4331	2647	815	869	420202	1386897
Sistan&Baluchestan	107	105	2	1379	693	440	246	139023	498275
Fars	227	219	7	3687	2314	709	663	369478	2336188
Qazvin	115	110	4	676	351	179	146	84967	254476
Qom	92	92	0	858	632	93	132	168923	458723
Kordestan	167	162	5	1203	700	176	326	129819	2004978
Kerman	438	429	9	19017	11205	3477	4334	4829700	52457127
Kermanshah	90	89	1	745	309	149	287	87913	488672
Kohgiluyeh&Boyerahmad	72	66	6	644	366	125	153	92837	342073
Golestan	86	86	0	2034	907	574	554	273316	776419
Gilan	60	57	3	774	371	249	154	89239	348609
Lorestan.....	89	83	6	1500	681	294	525	200088	915015
Mazandaran.....	93	86	8	2665	1557	688	420	356781	1043977
Markazi	340	323	17	3426	2026	642	759	418015	3591786
Hormozgan	107	107	0	1916	1136	515	265	239153	1478067
Hamedan	100	95	5	952	485	243	224	77061	1065204
Yazd	214	210	4	11760	6667	3285	1809	2908433	38265757

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

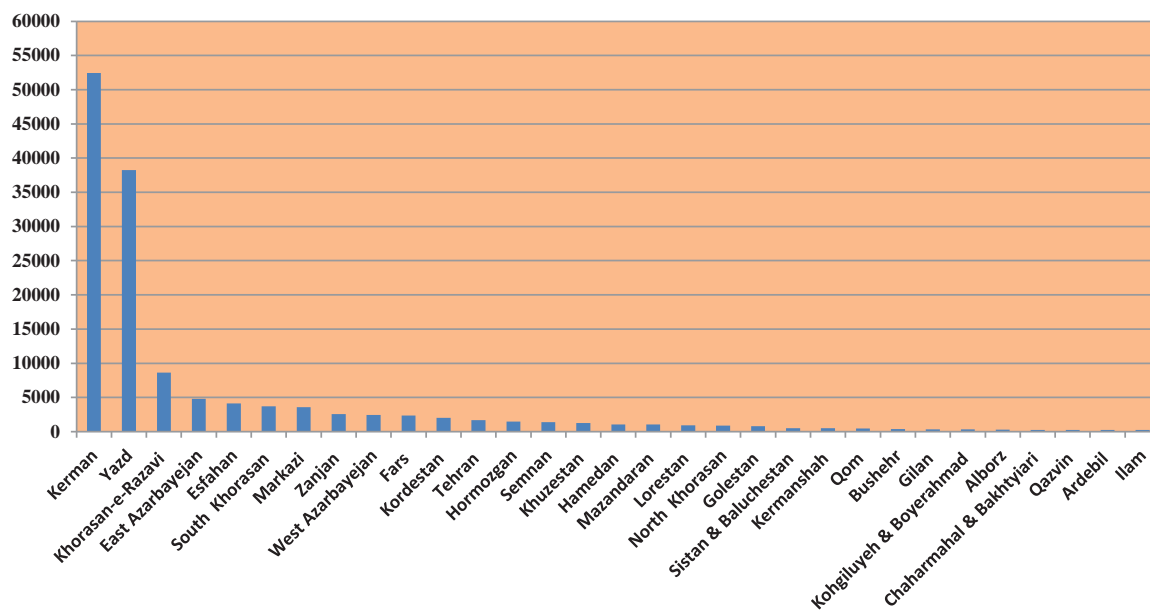
2. Including the value of mineral products and others in the year 1375

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 1393

Bln rials



For data see Table 6.1.

6.2. NUMBER OF MINES, WORKERS, COMPENSATION OF EMPLOYEES AND VALUE OF PRODUCTION IN OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1393
(mln.rials)

Activity	Number of mines			Number of workers					
	Total	Type of management		Total	Production line		Other (administrative, financial and service)	Compensation of employees	Value of production
		Private	Public		Skilled	Unskilled			
Total ⁽¹⁾.....	5355	5199	156	91869	51499	21372	18998	15797219	139206408
Mining of coal	100	96	4	11255	6431	3225	1600	1712062	4648685
Mining of iron ore	145	140	5	18412	10088	4164	4160	4835536	76987563
Mining of lead and zinc	38	34	4	2629	1655	538	436	471262	3788907
Mining of gold ore	5	3	2	577	275	163	139	132187	338121
Mining of copper ore.....	34	33	1	9237	5173	2498	1566	2686707	23123954
Mining of chromite	51	51	0	1981	945	774	262	350919	1649428
Mining of manganese.....	28	28	0	653	450	113	90	155163	303329
Mining of bauxite.....	10	8	2	649	455	149	45	147633	525511
Mining of cobalt, antimony and titanium.....	2	1	1	32	13	15	4	4131	289878
Mining of gravel and sand	1343	1274	69	10795	5784	2246	2766	1091774	4725946
Mining of decorative stones	808	799	9	11851	6823	2563	2464	1578740	8263572
Mining of rubble stone..	808	794	14	4824	2637	965	1222	410250	2066397
Mining of ballast	5	4	1	46	30	6	10	8351	27994
Mining of lime stone	804	777	27	9329	5670	1605	2054	1186581	6767000
Mining of gypsum.....	298	294	4	2216	1235	463	519	234987	1057048
Mining of kaolin and fireclay	209	208	1	1732	931	404	396	197553	1148285
Mining of dolomite	32	31	1	210	118	35	57	19048	79749
Mining of bentonite's and fuller's earth	56	56	0	247	113	81	53	14831	62627
Mining of whiting	2	2	0	8	2	2	4	201	517
Mining of barite, limonite and ferrous oxide	90	89	1	717	378	158	181	73697	401786
Mining of strontium sulphate& boron.....	10	10	0	173	79	49	45	9051	34611
Mining of sodium sulphate	15	13	2	197	101	69	27	15987	133289
Mining of fluorine.....	17	17	0	254	129	90	35	32557	166415
Mining of orpiment phosphate & iodine	5	4	1	377	215	100	62	75631	353830
Mining of peat.....	0	0	0	0	0	0	0	0	0
Mining of salt	75	73	2	741	395	192	154	82054	507931
Mining of bitumen.....	14	14	0	135	44	41	50	16993	65950
Mining of silica.....	119	118	1	879	489	185	205	90868	589424
Mining of ores slag	105	104	1	576	318	98	161	51046	281545
Mining of feldspar.....	68	68	0	393	204	66	123	28856	134191
Mining of talcum.....	12	12	0	105	40	34	31	9418	26540
Mining of shell & mica .	15	14	1	92	35	32	24	7657	37597
Mining of magnesite	24	24	0	327	172	123	32	40372	127199
Other precious and semi-precious stones	8	7	1	220	72	127	21	25114	491590

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

Source: Statistical Centre of Iran.

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

Activity	1393
Total.....	363588
Mining of coal.....	2598
Mining of iron ore.....	49884
Mining of lead and zinc.....	1336
Mining of gold ore.....	1324
Mining of copper ore.....	2270
Mining of chromite.....	344
Mining of manganese.....	140
Mining of bauxite.....	729
Mining of cobalt, antimony and titanium.....	70
Mining of gravel and sand.....	79655
Mining of decorative stones.....	13710
Mining of rubble stone.....	28808
Mining of ballast stone.....	217
Mining of lime stone.....	145294
Mining of gypsum.....	15596
Mining of kaolin and fireclay.....	6530
Mining of dolomite.....	761
Mining of bentonite's and fuller's earth.....	407
Mining of whiting.....	1
Mining of barite, limonite and ferrous oxide.....	512
Mining of strontium sulphate & boron.....	42
Mining of sodium sulphate.....	933
Mining of fluorine.....	57
Mining of orpiment phosphate & iodine.....	80
Mining of peat.....	0
Mining of salt.....	3516
Mining of bitumen.....	28
Mining of silica.....	4549
Mining of ores slag.....	2608
Mining of feldspar.....	1072
Mining of talcum.....	113
Mining of shell & mica.....	165
Mining of magnesite.....	205
Other precious and semi-precious stones.....	32

Source: Statistical Centre of Iran.

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

Activity	1393
Total.....	139206408
Mining of coal	4648685
Mining of iron ore	76987563
Mining of lead and zinc	3788907
Mining of gold ore	338121
Mining of copper ore.....	23123954
Mining of chromite	1649428
Mining of manganese.....	303329
Mining of bauxite.....	525511
Mining of cobalt, antimony and titanium.....	289878
Mining of gravel and sand	4725946
Mining of decorative stones	8263572
Mining of rubble stone.....	2066397
Mining of ballast stone.....	27994
Mining of lime stone	6767000
Mining of gypsum.....	1057048
Mining of kaolin and fireclay.....	1148285
Mining of dolomite	79749
Mining of bentonite's and fuller's earth.....	62627
Mining of whiting	517
Mining of barite, limonite and ferrous oxide	401786
Mining of strontium sulphate & boron.....	34611
Mining of sodium sulphate	133289
Mining of fluorine.....	166415
Mining of orpiment phosphate & iodine.....	353830
Mining of peat.....	0
Mining of salt	507931
Mining of bitumen	65950
Mining of silica	589424
Mining of ores slag	281545
Mining of feldspar.....	134191
Mining of talcum.....	26540
Mining of shell & mica	37597
Mining of magnesite	127199
Other precious and semi-precious stones.....	491590

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
1389.....	38736873	12234125	50970998
1390.....	47826873	19100952	66927825
1391.....	79163479	23217922	102381401
1392.....	93432183	35910466	129342649
1393.....	97590386	45031120	142621506
East Azerbayejan.....	4064951	766890	4831841
West Azarbayejan	2008103	502158	2510261
Ardebil	195549	66560	262108
Esfahan	2619068	1685350	4304418
Alborz.....	126861	164907	291768
Ilam.....	194439	51831	246270
Bushehr	303392	86293	389686
Tehran.....	1119518	586440	1705958
Chaharmahal&Bakhtiyari	180490	88277	268767
South Khorasan	2463280	1349994	3813275
Khorasan-e-Razavi	6003202	2843632	8846834
North Khorasan	697550	216647	914197
Khuzestan	830617	486067	1316683
Zanjan	2038086	637015	2675101
Semnan.....	1025833	412785	1438618
Sistan&Baluchestan	368657	179946	548603
Fars.....	1886809	572506	2459315
Qazvin	177630	86997	264628
Qom.....	339474	122407	461882
Kordestan.....	1582859	521333	2104192
Kerman.....	35403617	17505603	52909220
Kermanshah.....	362050	142958	505009
Kohgiluyeh&Boyerahmad	259495	91613	351109
Golestan.....	509898	333150	843048
Gilan	290033	61397	351430
Lorestan.....	653585	281086	934671
Mazandaran.....	756788	370418	1127206
Markazi.....	2689399	989973	3679372
Hormozgan.....	1274161	279634	1553795
Hamedan	924600	155976	1080577
Yazd	26240390	13391274	39631665

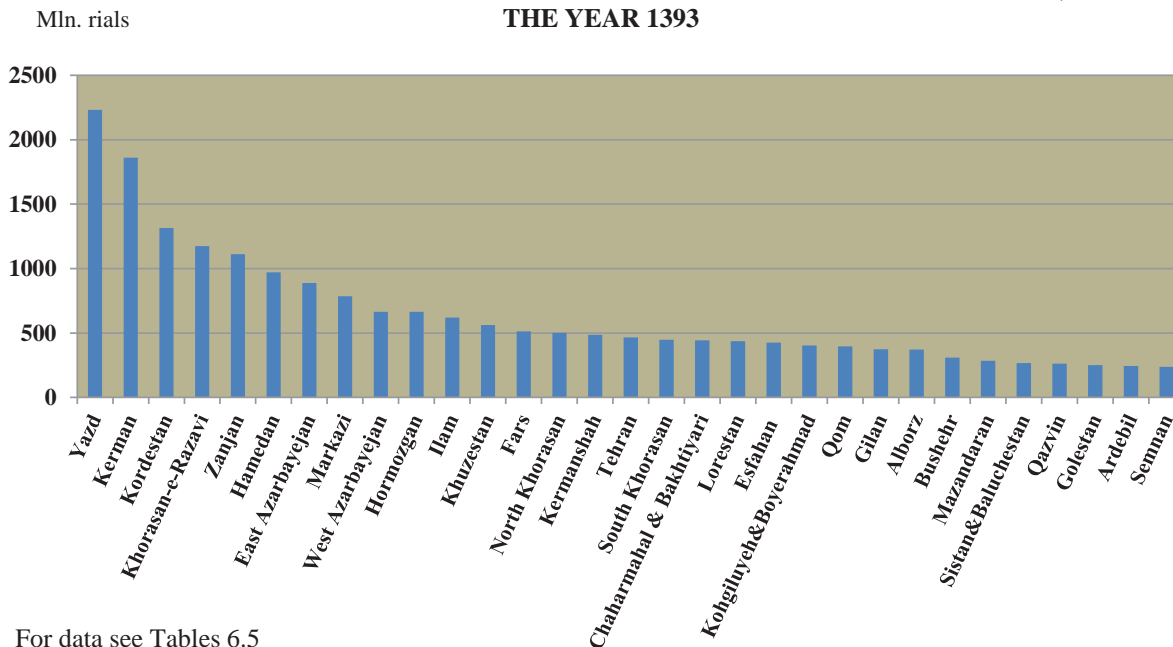
Source: Statistical Centre of Iran.

6.6. VALUE ADDED, INPUTS AND OUTPUTS VALUE OF OPERATING MINES BY TYPE OF ACTIVITY, THE YEAR 1393
(mln rials)

Activity	Value added	Payments (inputs)	Receipts (outputs)
Total.....	97590386	45031120	142621506
Mining of coal	3255704	1512664	4768369
Mining of iron ore	52697479	25939059	78636539
Mining of lead and zinc	2821680	1082262	3903942
Mining of gold ore	205581	160316	365898
Mining of copper ore	16013670	7464452	23478121
Mining of chromites	1385918	300464	1686382
Mining of manganese	207204	101288	308492
Mining of bauxite	492881	53054	545935
Mining of cobalt, antimony and titanium.....	280376	10080	290456
Mining of gravel and sand	3370413	1583114	4953527
Mining of decorative stones	6405388	2165245	8570633
Mining of rubble stone	1504602	650797	2155399
Mining of ballast	19514	8680	28194
Mining of lime stone	4565186	2439978	7005164
Mining of gypsum	766910	347470	1114381
Mining of kaolin and fireclay	898286	282290	1180576
Mining of dolomite	42006	40159	82166
Mining of bentonite and fuller's earth	44067	20426	64493
Mining of magnesite and whiting ..	451	93	543
Mining of barite, limonite and ferrous oxide	326313	85839	412152
Mining of strontium sulphate	28569	8936	37505
Mining of sodium sulphate	92698	41449	134147
Mining of fluorine	128016	42048	170064
Mining of orpiment , phosphate & iodine	284081	108373	392454
Mining of peat.....	0	0	0
Mining of salt	385582	149123	534705
Mining of bitumen	39513	28981	68494
Mining of silica	451276	149942	601219
Mining of ores slag	183108	117138	300247
Mining of feldspar	88042	52299	140341
Mining of talcum	18091	9974	28065
Mining of shell & mica	28137	10213	38349
Mining of magnesite.....	79159	53363	132522
Mining of Other precious and semi-precious stones.....	480481	11551	492032

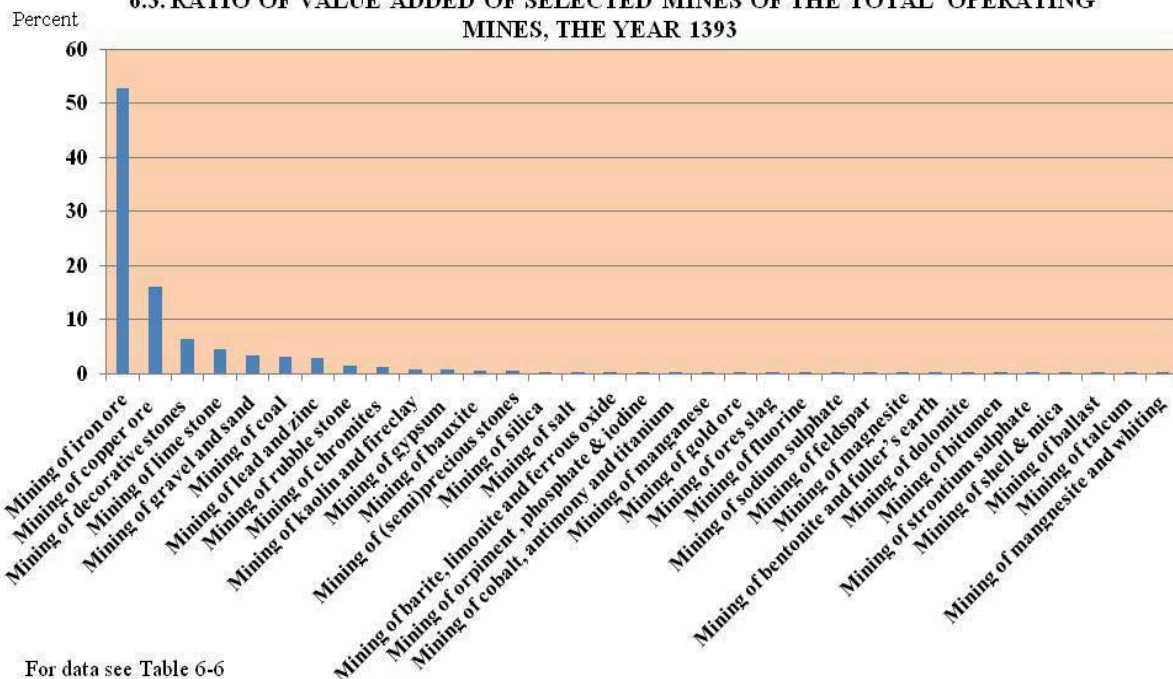
Source: Statistical Centre of Iran.

6.2. PRODUCTIVITY OF LABOUR FORCE IN MINING SECTOR BY OSTAN, THE YEAR 1393



For data see Tables 6.5

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



For data see Table 6-6

6. 7. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL PROPERTIES) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND OSTA

(mln rials)

Year and Osta	Total ⁽¹⁾ investment	Machinery and stable equipment and administrative facilities	Vehicles	Building and equipment (without land)	Access road	Exploration and development	Computer software	Other
1375.....	294962	190265	17435	35261	9849	5755	-	36397
1380.....	667897	537418	40533	47788	26187	10327	1204	4439
1385.....	1737226	1328153	87357	99032	42720	174966	-620	5618
1389 ⁽²⁾	6340513	5459792	217754	332145	66188	216726	3116	42000
1390.....	6149346	2957585	251308	411553	124038	246425	3112	3116
1391.....	8606538	6115720	473711	1528769	112297	316678	20128	2155326
1392.....	12980023	10320746	31808	1247367	283592	374570	24809	39235
1393.....	19872751	10241005	345517	1092013	213925	760531	7477	697131
East Azarbayejan	489272	376830	6659	97940	5034	979	251	200
West Azarbayejan	215270	182048	2333	12164	16377	2197	150	2903
Ardebil	63342	51740	6707	203	647	37	24	1150
Esfahan.....	653008	590938	18549	28176	9767	3132	916	33849
Alborz.....	46272	39883	4132	307	0	0	130	0
Ilam	29546	14075	14528	883	35	0	2	0
Bushehr	24489	19032	1082	2328	2003	0	44	674
Tehran	215039	155758	2859	53222	2368	54	778	0
Chaharmahal&Bakhtiari	28181	22995	956	171	2511	1486	48	222
South Khorasan.....	530368	181864	24677	58323	3826	74766	96	64878
Khorasan-e-Razavi	415814	298411	77320	1410	4401	30185	-7	6745
North Khorasan.....	97460	66338	7967	13920	2021	7218	1	1081
Khuzestan	236819	152698	15154	62996	5881	38	26	43
Zanjan	129556	71455	672	25697	9696	10834	157	20338
Semnan	125321	77602	16878	8087	11893	7114	209	598
Sistan&Baluchestan.....	106094	75635	17907	2613	9775	0	29	25
Fars	303429	258484	25638	8865	10443	0	0	400
Qazvin	73657	56296	3546	9270	3375	905	265	912
Qom	142144	28025	551	740	160	35390	0	0
Kordestan	244207	168222	2121	27254	12699	33444	17	0
Kerman	10972878	3345993	17420	207850	67294	424331	3168	96757
Kermanshah	76621	60613	-94	9472	5379	250	0	20
Kohgiluyeh&Boyerahmad.	16871	11112	5584	133	43	0	0	0
Golestan	241997	213193	-4772	29517	0	0	40	14392
Gilan	28968	27173	-136	1681	100	110	41	0
Lorestan	90263	87166	1868	1005	0	0	0	2125
Mazandaran	128748	103428	13312	3667	4137	3993	2	0
Markazi	379524	321789	13164	18709	18915	6713	235	0
Hormozgan	712228	678959	15534	15571	1086	300	779	1859
Hamedan	102679	88836	3538	359	721	9246	-20	55
Yazd	2952685	2414415	29862	389482	3339	107809	96	447905

1. Difference in the total is due to rounded numbers.

2. Revised figures.

Source: Statistical Centre of Iran

6.8. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL PROPERTIES) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND TYPE OF ACTIVITY, THE YEAR 1393
(mln rials)

Activity	Total investment	Machinery and stable equipment and administrative facilities	Vehicles	Building without land
Total.....	19872751	10241005	345517	1092013
Mining of coal	416322	57578	16772	36153
Mining of iron ore	13191312	5299614	112242	411259
Mining of lead and zinc	443330	201126	11449	122470
Mining of gold ore	61518	46751	646	8373
Mining of copper ore	1124594	782223	64453	198457
Mining of chromite	89357	42373	2219	18186
Mining of manganese	130971	11036	1700	1155
Mining of bauxite ..	41333	25171	5843	3088
Mining of cobalt, antimony and titanium.....	4647	2557	120	1350
Mining of gravel and sand ...	1162257	1055075	27548	59752
Mining of decorative stones..	1331960	1242711	19386	27843
Mining of rubble stone.....	315693	259903	21918	12530
Mining of ballast	668	428	30	85
Mining of lime stone.....	705778	558189	37783	78298
Mining of gypsum	113226	98432	6414	2405
Mining of kaolin and fireclay..	175838	139713	9653	15165
Mining of dolomite	1434	-223	-2015	1208
Mining of bentonite and fuller's earth	11047	9230	504	156
Mining of whiting	33	18	15	0
Mining of barite, limonite and ferrous oxide	74186	58180	3672	6154
Mining of strontium sulphate..	6136	4169	725	150
Mining of sodium sulphate..	1593	1289	157	5
Mining of fluorine	35500	28053	-568	2550
Mining of orpiment phosphate & iodine	224671	186518	1414	33387
Mining of peat	0	0	0	0
Mining of salt	46864	16437	5800	23781
Mining of bitumen.....	5977	4535	201	757
Mining of silica	77143	57463	207	6971
Mining of ores slag	29546	17544	-5112	15010
Mining of feldspar ...	16301	9450	1633	373
Mining of talcum	2747	2392	55	90
Mining of shell & mica.....	2927	1649	10	1137
Mining of magnesite	24828	21353	644	969
Other precious and semi-precious stones.....	3015	69	0	2746

6.8. INVESTMENT (CHANGES IN THE VALUE OF CAPITAL PROPERTIES) IN OPERATING MINES BY TYPE OF CAPITAL PROPERTIES AND TYPE OF ACTIVITY, THE YEAR 1393 (continued)

Activity	Access road	Exploration and development	Computer software	Other
Total.....	213925	760531	7477	7212285
Mining of coal	3640	115290	115	186774
Mining of iron ore	16472	436054	3379	6912292
Mining of lead and zinc	7176	87028	155	13926
Mining of gold ore	2500	1606	60	1581
Mining of copper ore	57141	21886	338	95
Mining of chromite	2877	20453	0	3250
Mining of manganese	197	39390	0	77493
Mining of bauxite	110	7120	0	0
Mining of cobalt, antimony and titanium.....	170	450	0	0
Mining of gravel and sand	12931	255	1866	4831
Mining of decorative stones..	34527	3652	181	3661
Mining of rubble stone	18245	1043	95	1960
Mining of ballast	0	125	0	0
Mining of lime stone.....	23521	6059	640	1288
Mining of gypsum	4641	1174	56	104
Mining of kaolin and fireclay..	5993	5044	194	76
Mining of dolomite	937	570	140	818
Mining of bentonite and fuller's earth	376	410	63	309
Mining of whiting	0	0	0	0
Mining of barite, limonite and ferrous oxide	3688	2460	18	15
Mining of strontium sulphate..	315	700	2	75
Mining of sodium sulphate..	139	0	4	0
Mining of fluorine	3400	1785	20	260
Mining of orpiment phosphate & iodine	0	0	0	3352
Mining of peat.....	0	0	0	0
Mining of salt	832	0	15	0
Mining of bitumen.....	234	250	0	0
Mining of silica	10540	1855	18	90
Mining of ores slag	912	1170	0	21
Mining of feldspar	1432	3332	71	10
Mining of talcum	210	0	0	0
Mining of shell & mica.....	100	0	30	0
Mining of magnesite.....	470	1370	20	2
Other precious and semi-precious stones.....	200	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)
<i>Registered cooperatives⁽¹⁾</i>				
1375.....	1306	14022	8910	71572
1380.....	1691	21373	12146	106325
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
1394.....	2750	80001	26543	1543797
<i>Cooperatives under establishment</i>				
1375.....	20	182	82	2008
1380.....	56	972	342	3502
1389.....	137	2277	1251	20253
1390.....	252	5359	3514	9087
1391.....	332	6240	4277	16018
1392.....	301	5169	5321	34862
1393.....	274	5054	5372	986814
1394.....	263	2793	4928	72092
<i>Cooperatives in operation</i>				
1375.....	634	8231	5681	52365
1380.....	841	12029	7555	77835
1389.....	966	16074	9045	112456
1390.....	896	46355	8961	118580
1391.....	876	46459	8811	144001
1392.....	940	55064	9990	176791
1393.....	944	54987	10158	1326258
1394.....	956	57566	10894	1395813

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

Description	Number	Members	Workers	Capital
East Azarbayejan	36	461	446	3074
West Azarbayejan	14	133	147	2801
Ardebil	7	70	64	692
Esfahan	44	378	433	15846
Alborz	6	54	49	56
Ilam	3	28	11	1902
Bushehr	38	290	378	8772
Tehran	58	1264	949	48606
Chaharmahal&Bakhtiari	6	42	46	129
South Khorasan	18	261	482	1277
Khorasan-e-Razavi	194	3697	2037	1056551
North Khorasan	7	203	79	68
Khuzestan	16	130	136	215
Zanjan	13	350	218	114166
Semnan	33	351	467	17110
Sistan&Bluchestan	4	40	32	87
Fars	36	42880	634	31181
Qazvin	6	51	72	7247
Qom	22	193	155	1674
Kordestan	22	2761	490	2035
Kerman	58	510	466	5263
Kermanshah	19	133	158	182
Kohgiluyeh & Boyerahmad	11	96	94	556
Golestan	6	54	54	69
Gilan	13	98	120	753
Lorestan	123	1128	1017	7406
Mazandaran	44	1073	644	24148
Markazi	43	377	512	5920
Hormozgan	27	194	188	64
Hamedan	11	100	153	387
Yazd	18	166	163	37576

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

Source: Ministry of Cooperatives, Labor and Social Welfare.

