

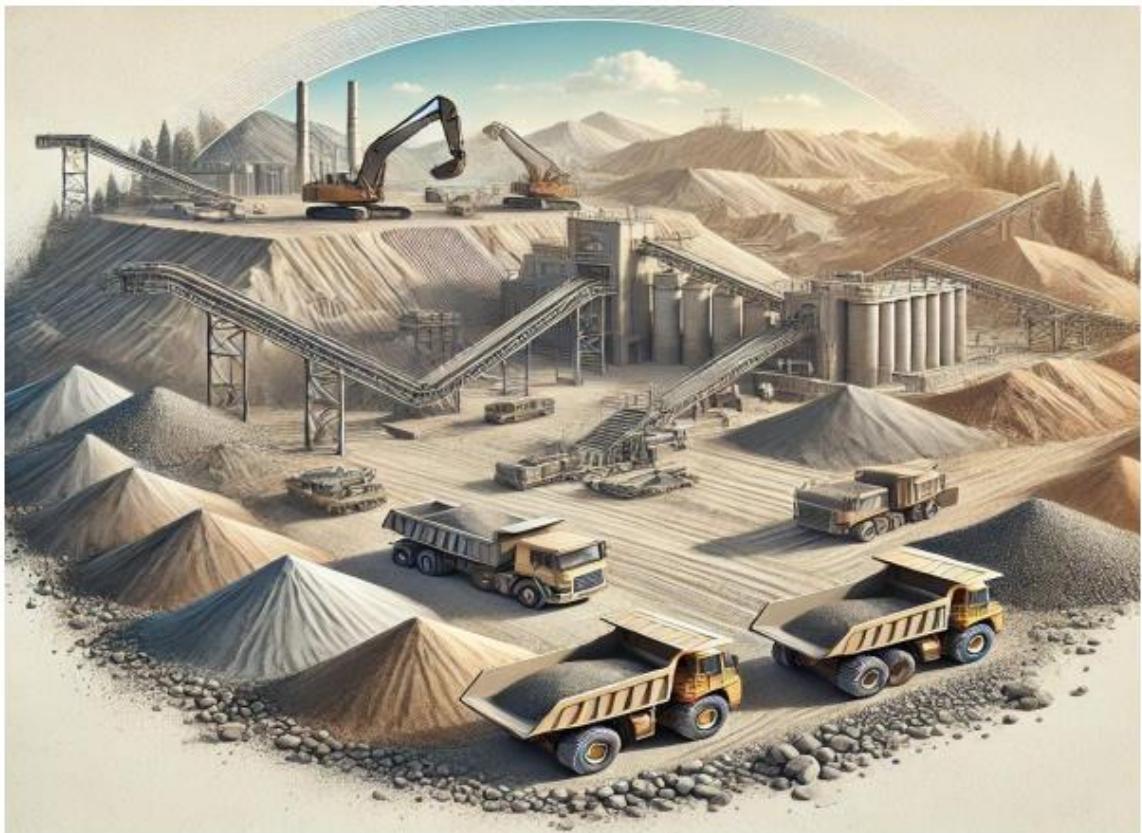


Kurdistan Region Government
Ministry of Planning
Kurdistan Region Statistics



هیأت الإحصاء
ونظيم المعلومات الجغرافية
Commission of statistics and GIS

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023



Industrial Statistics Department
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Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023
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Introduction

In their work as a whole, Federal Statistics and Geographical Information System authority and Kurdistan Region statistics Office aimed to provide statistical data on economic and social activities, including industrial activities. The economic and social sectors, especially industrial activities, are the cornerstone of the national economy, and the provision of such data is a key tool for the planning and development process.

Industrial statistics directorate from Federal Statistics and Geographic Information System authority and industrial statistics department from Kurdistan Region statistics Office (KRSO) conducted mine survey for the private sector in all governorates across Iraq and Kurdistan region for 2023. The survey was carried out in coordination with the national accounting directorate, environmental statistics department and information technology department.

The survey report consists of two parts, which include a number of information and indicators, the most prominent of which are the number of mines, production capacity, number of workers, wages, etc. The survey was first conducted in 2003 in all governorates of Iraq and Kurdistan Region, and then in 2009 and 2014.

Section One

Importance of Mining and quarrying industries

The importance of the mining sector lies in its contribution to the country's economic development and the provision of various job opportunities. The most important features of this sector are:

- Providing raw materials for the production of various products,
- Creating job opportunities in various fields such as engineering, Exploration, manufacturing, transportation and trade,
- Contributing to the economic growth of all regions and countries with mineral resources,
- Improving the income level of workers in mining field,
- Supporting scientific research and technological development in the mining field
- Protecting environment by employing new technologies in mining field that reduce environmental impact of mining operations.

The beneficiaries of mining survey

- Ministry of Planning,
- Ministry of Industry,
- Ministry of Health,
- Ministry of Environment,
- Higher education students,
- Governorates,
- Trade syndicates and industry organizations.

Concepts

Mine

A mine is a place on earth dogged by humans to extract natural underground resources such as gravel, sand and stone.

Total production value

It refers to the value of goods and services produced at market prices, including industrial products and products produced for personal consumption. The value of Sold products is affected by changes in inventories of finished goods and goods under production process.

Value of supplies

value of supplies refers to goods and services used as primary requirements in the production process, rather than fixed assets.

Worker

Workers refers all people employed in the establishment, whether paid or unpaid, including the employer, household members and others working there.

Wages and Benefits

Wages and benefits are the monetary payments and Bonus an organization provides to workers in exchange for what they do over a given period.

Expenses

Expenses refer to total employee compensation and other operating costs, including fuel, administrative services, lubricants, and maintenance services.

Income

Income is the daily amount of cash earned from an entity's activities.

Fixed Assets

Fixed assets are defined as long-term assets used by a company to generate revenue. One of the most important purposes of fixed assets is to provide long-term financial benefits to the company due to their useful life of more than one year. Examples of fixed assets include equipment, transportation vehicles, residential and non-residential buildings, and land.

Fixed assets acquired during the year

They are also known as (capital formation), are assets purchased by the company within the year for use in achieving its objectives and not for resale. Examples include residential and non-residential buildings, land, means of transport, equipment, machinery, and furniture.

Statistical classification

Statistical classification is defined as a systematic arrangement of related items used to group data based on similarities. Classification allows data and information to be organized into meaningful categories, thereby producing useful statistics. For the mining survey, the Fourth Revision of the International Standard Industrial Classification of All Economic Activities (ISIC Rev. 4) was used.

Survey Methodology

The mining industry is an important sector that significantly contributes to strengthening the national economy and ensuring financial stability. It is not only involved in the extraction of natural resources but also serves as a strategic sector that provides opportunities for sustainable development and promotes long-term economic growth.

The survey method outlines a fundamental principle of scientific research and consists of the following stages:

Identifying requirements and indicators

Identifying the requirements and indicators is the starting point for conducting a mining survey, and the first step to ensure that all the objectives of the survey are achieved, which are summarized as follows:

- Access to the number of mines at the government level,
- Determine the production capacity of the mines,
- Access to the number of workers and the value of wages paid,
- Determine mining revenues,
- Access to the value of requirements (inputs).
- Determine the value of fixed assets.
- Determine the volume of mining products by type (sand, clay, gypsum, gypsum stone limestone, stone, sand, iron dust, pebbles, black sand, secondary gypsum).
- the environmental impact of mining.

Design phase

This phase involves planning the statistical work as an integrated process. During this phase, the statistical population is defined, the survey framework and sample are designed, the survey questionnaire is developed, data collection methods and tools are determined, and the sampling units are identified. The key outputs of this phase include the following:

Target statistical population

The target statistical population for the private sector mining and quarrying survey consists of operating quarries in Iraq. The unit of measurement is the individual quarry.

Data Source

Data collection was conducted through mining field surveys. Information was gathered using statistical forms and personal interviews carried out by trained field teams prepared to perform the survey under the supervision of the Industrial Statistics Department from Statistics and Geographic Information System, the Industrial Statistics Department from Kurdistan Region Statistical Office, and other directorates.

Survey questionnaire design

The survey questionnaire was prepared and designed by the Industrial Statistics department from Federal Statistics and Geographical Information System authority, then submitted to the technical directorates of Federal Statistics and Geographical Information System authority and governorate statistical directorates.

Questionnaire sections

Questionnaire sections cover the following:

- Organization (mining) identification data,
- Mining products and supplies,
- Water and environment,
- Fixed assets.

Coverage

Spatial Coverage

The mine survey covers all governorates of Iraq, including the governorates of Kurdistan Region.

Temporal Coverage

The survey covers the year 2023.

Statistical Framework in Mining Survey

- Planning to create and design a statistical framework that covers the entire statistical population (statistical sample),
- Determining the metadata needed to create a statistical framework.

This framework has been extended to all private sector mines in all governorates of Iraq and Kurdistan region.

Organizational stage

This is the final preparatory stage that takes place before visiting institutions and collecting information and includes the following:

Data collection

- Identification of enumerators,
- Training of enumerators through training courses.

Two training courses were held for Iraqi governorates staff in Najaf and for Kurdistan Region governorates staff in Baghdad. In these courses, the field and office staff were prepared and the questionnaire was discussed.

Tabulation

- Organizing data into different groups,
- Summarizing long and detailed data in a simpler and clearer way by focusing on key points,
- Integrating and linking related datasets, and resolving missing, incomplete, and illogical data,
- Organizing, presenting, and interpreting data.

Table 1: Key Indicators in Mining and Quarrying Survey in Private Sector in 2023

	Indicator	Value
1	Number of mines	1,809
2	Number of workers	11,060
3	Total wages and benefits (billion ID)	59.77
4	Total production value (billion ID)	507.82
5	Total supplies value (billion ID)	200.63
6	Designated mining area (dunam)	12,530
7	Value of worker's product in production (million dinars)	45.91
8	Dinar productivity of wages	10
9	Degree of manufacturing (%)	40
10	Average annual wage per worker (million dinars)	4.68

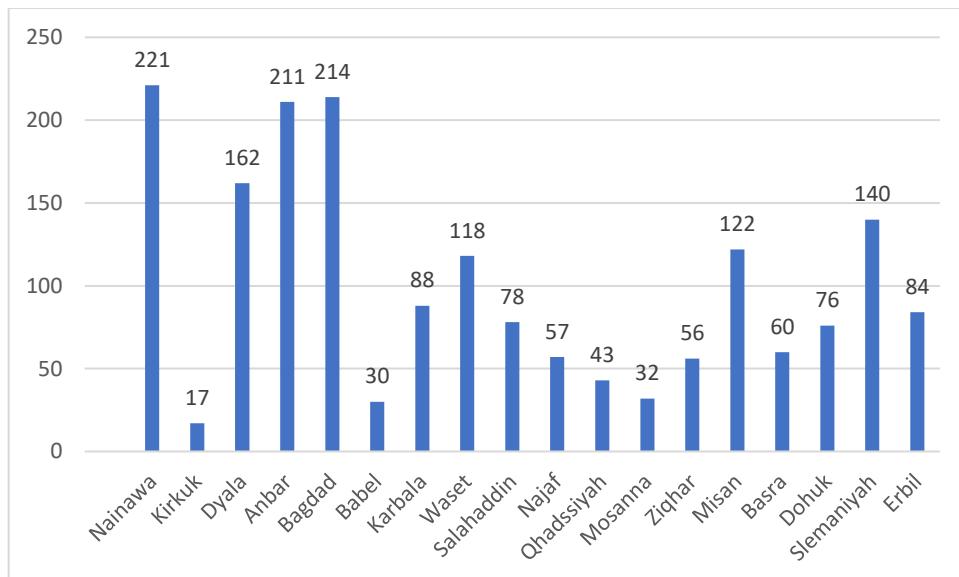
Section two: Results

The importance of this survey lies in the data and indicators it provides, with the most significant indicators described in detail below.

Number of mines

The results of this survey show that the total number of mines in the Iraqi governorates and Kurdistan Region is 1809 mines, of which 1509 mines (83%) are located in the Iraqi governorates and 300 mines (17%) are located in Kurdistan Region. The distribution of mines among Iraqi governorates was as follows: Nainawa governorate had the largest number of mines (221), accounting for 15% of the total number of mines in Iraq. the figure shows the environmental nature of the Nainawa, which is known for its diversity. Baghdad governorate follows with 214 mines, representing 14%. Kirkuk governorate with 17 mines, has the lowest number of mines in Iraqi governorates, accounting for 1% of the total number of mines in Iraqi governorate. The distribution of mines in Kurdistan Region is as follows: Sulaymaniyah governorate ranks first with 140 mines, which is 47% of the total number of mines in Kurdistan Region, followed by Erbil governorate with 84 mines, accounting for 28%. Duhok governorate recorded the lowest number of mines in Kurdistan Region with 76 mines, representing 25%.

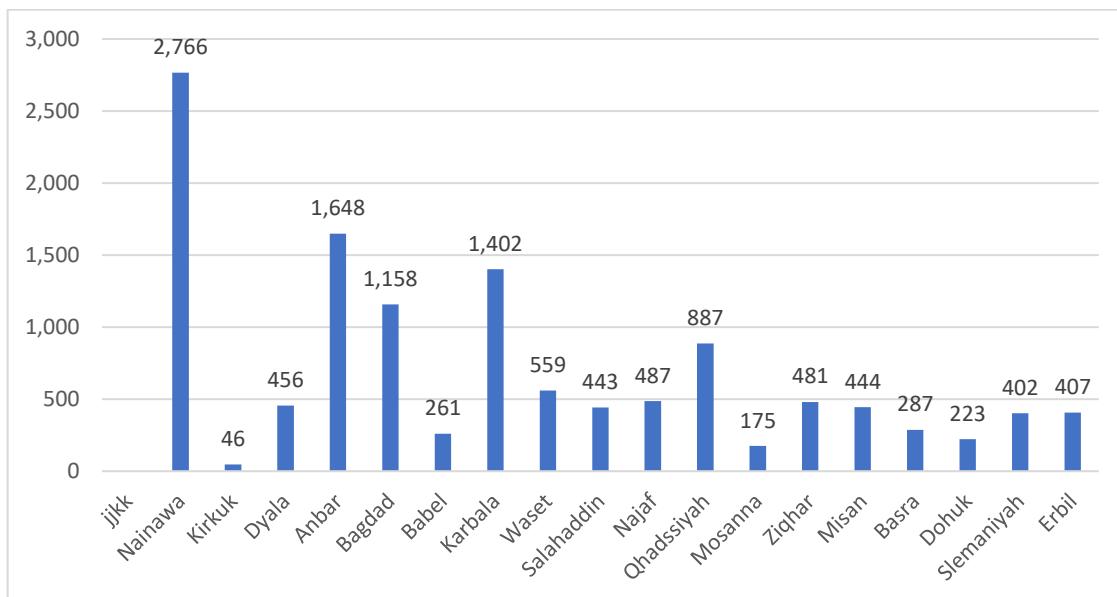
Figure 1: Number of mines in the private sector by governorates in 2023



Area of Mines

Based on 2023 private sector mining survey, the total area allocated for mining in Iraq and Kurdistan Region was 12,530 dunams. Of this, 11,499 dunams (92%) were located in Iraqi governorates, while the Kurdistan Region accounted for 1,031 dunams, representing 8% of the total mining area in Iraq and Kurdistan Region.

Figure 2: Area allocated for mining (dunam) by governorates, private sector mining survey 2023



Job opportunity (employment)

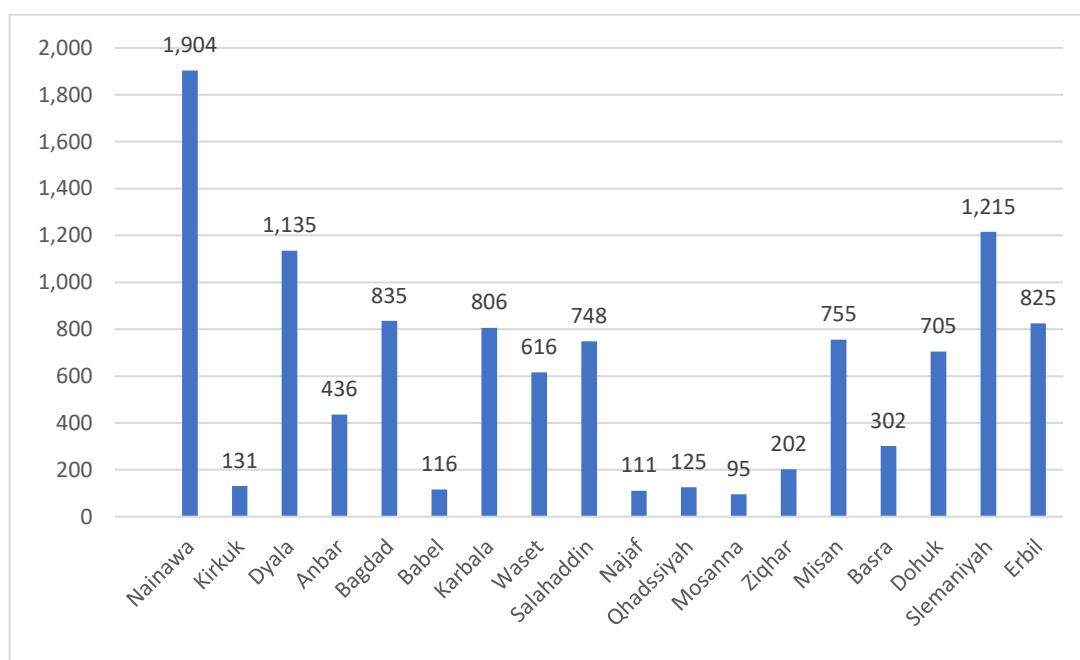
Currently, the Iraqi economy is experiencing a significant rise in unemployment. This unemployment is primarily structural, resulting from the stagnation of key production sectors particularly agriculture, manufacturing and shifts in labor market demand. To assess the workforce and wages in the mining sector, the following employment indicators are presented:

Number of workers

Mining contributes to creating jobs for a number of workers across all governorates in Iraq. According to the results of the mining survey in 2023, the total number of workers engaged in the mining sector (Iraqi and Kurdistan Region governorates) accounted for 11,060 workers.

mines are involved in employing a number of workers in all Iraqi provinces. According to the results of the mining survey in 2023, the total number of workers employed in mining (Iraqi and Kurdistan Region governorates) will reach 11,060 workers. Nainewa governorate recorded the highest number of workers (1904), followed by Dyalah (1,135), while Mosanna province had the lowest number of workers (95) compared to other governorates.

Figure 3 : Number of workers in the mining survey for the private sector at the governorates level for 2023



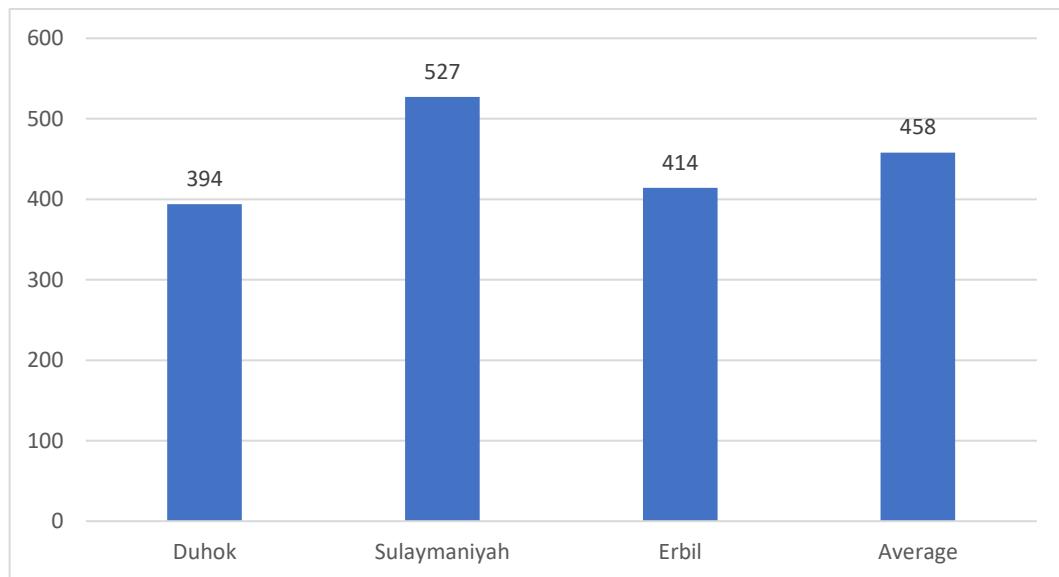
Wages and benefits

Wages vary and are relative, depending on the perspectives of both the worker and the employer. From the worker's point of view, wages represent the income received over different periods of time. From the employer's point of view, wages are the payments made to the worker in return for the work performed.

Wages paid to workers across various sectors of the economy contribute to improving individuals' standards of living and stimulating the overall economy. In this context, survey results indicate that the total wages and benefits received by workers in the mining sector across Iraq amounted to 59.774 billion dinars.

Wages and benefits paid to workers in the mining sector in Iraqi governorates amounted to 46.81 billion dinars (78% of total wages), while in Kurdistan Region they amounted to 12.96 billion dinars, representing 22% of total wages (Table 3).

Figure 4 : Average monthly wages and benefits of workers in mining survey for 2023 at the government level of Kurdistan Region (1000 Dinars)



Fixed assets

Fixed assets are long-term tangible assets used by companies to generate revenue. One of their most important roles is to provide long-term financial benefits to the company, as their useful life extends beyond one year.

Based on the survey results, the total value of fixed assets in the Iraqi governorates and Kurdistan Region accounting to 307.286 billion dinars (214.13 billion dinars in the Iraqi governorates and 93.155 billion dinars in Kurdistan Region governorates) as shown in Table 4.

Production Capacity

Production capacity refers to the volume of output that a factory or firm can produce within a given period using available resources. It represents the maximum production achievable based on existing resources and capabilities.

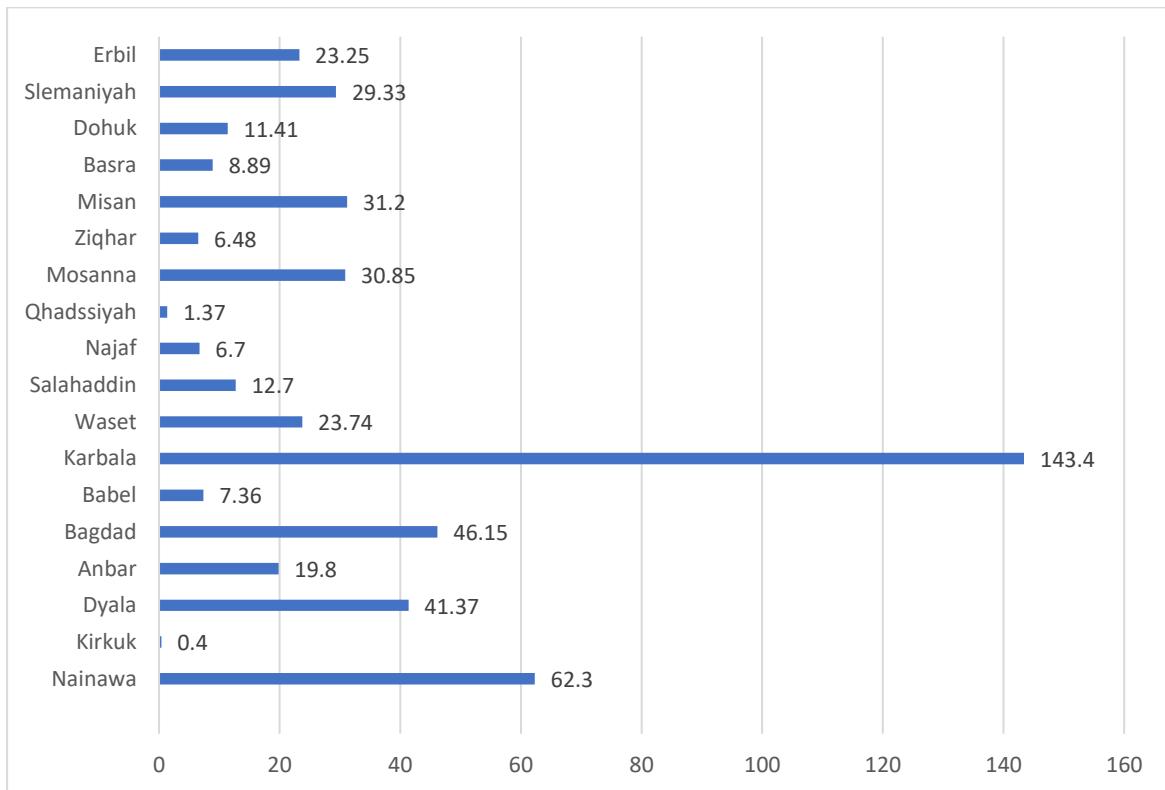
According to the survey results, the total production capacity in the mining sector across Iraqi governorates and Kurdistan Region governorates was 34.1 million cubic meters (or 5.7 million tons). Of this, the Iraqi provinces accounted for 86%, while the Kurdistan Region contributed 14% of the total production capacity in Iraq (Table 5).

Production value

The survey results indicate that the total value of mining products across Iraqi governorates and Kurdistan Region exceeded 507.82 billion dinars, divided between commodity and non-commodity products. The total value of commodity production reached 507.39 billion dinars, accounting for 99% of the total, while non-commodity production was valued at 426 million dinars, representing only 1% of total mining production.

At the governorate level in Kurdistan Region, the value of commodity production reached 63.98 billion dinars, or 13% of the total mining production value in Kurdistan Region, whereas non-commodity production was valued at 3.87 million dinars representing 0.9% of the total value of mining production in Kurdistan Region (Table 6).

Figure 5 : Total value of mining production (billion dinars) at the level of governorates for 2023 Private sector mining survey



Value of supplies

The total value of supplies reached 200.63 billion dinars across the Iraqi governorates and Kurdistan Region, based on the 2023 private sector mining survey. (Table 2).

Volume of production

According to the results of the 2023 mining survey, the total volume of goods produced by mines in Iraq and Kurdistan Region reached 87,69 million m³. Baghdad governorate ranked first, producing 11,53 million m³, which accounted for 13% of total mining production, with sand constituting the majority of production. In contrast, Kirkuk governorate recorded the lowest mining production in Iraq, with only 102,190 m³, representing 0.1% of total production.

Regarding the governorates of Kurdistan Region, the total mining production across all governorates amounted to 10,2 million m³. Sulaymaniyah governorate recorded the highest production, with 5 million m³, mainly consisting of sand amounted to 1,4 million m³ (28.5% of total mining production) in 2023 (Table 7).

Water and Environment

environmental licenses

The 2023 survey results indicate that a total of 1,388 mines (77% of the total) in the Iraqi and Kurdistan governorates possess environmental licenses, while 421 mines (23%) do not.

At the Kurdistan governorates level, 269 mines (90% of the total) hold environmental licenses, while 31 mines (10%) operate without environmental licenses in the Kurdistan Region (Table 8).

Location of mines according to administrative boundaries

According to the 2023 mining survey, 168 mines (9% of the total) are located within municipal boundaries across Iraqi and Kurdistan governorates, while 1,641 mines (91%) are situated outside municipal boundaries (Table 9).

Sources of Water Used in Mining

The 2023 mining survey indicates variations in the sources of water used by mining operations. River water is the most commonly used source, with 374 mines relying on it, representing 21% of all mines at the level of Iraqi and Kurdistan Region's governorates country. According to the results, 246 mines (14%) rely on tank water, the number of mines that do not use water reached 805 (44%) at the governorates level across Iraq and Kurdistan Region (Table 10).

Volume of Mining Waste

In 2023, the total volume of solid mining waste in all Iraqi governorates and Kurdistan region reached 2,147,993 tons, of which 1,345,962 tons (63%) in Iraqi governorates and 802,030 tons (37%) produced in Kurdistan region.

At the level of Iraq and Kurdistan region, of the mines surveyed, 1,310 reported no solid waste production, while 499 mines produced solid waste.

method of disposal of mining waste

Regarding the disposal methods for solid mining waste, the survey results indicate that 240 mines (13%) use the burial method. Meanwhile, 233 mines (13%) dispose of waste on vacant land (Table 11).

Number of equipment and transportation vehicles used in the mine

The 2023 mine survey results show that, depending on the type of mine, various equipment and transportation vehicles were used. At the governorate level, mine owners collectively possessed a total of 9,641 units of transportation equipment (Tables 12 and 13).

Taxes and duties

Taxes are compulsory levies imposed by government authorities on individuals and companies. They may include charges collected from taxpayers, such as businesses or the consumers of their products, and are used to fund government operations and public services.

The survey results indicate that the total value of taxes in the Iraqi governorates and Kurdistan Region governorates exceeded 43.40 billion dinars. Anbar Governorate recorded the highest tax payment among all governorates, totaling 14.99 billion dinars (Table 14).

Table 2: Summary of the results of mining and quarrying survey for the private sector by governorate in 2023 (1,000 ID)

Series	Governorate	Number of mines	Designated area of the mine	Total production value (1000 ID)	Overall Demands value	number of workers	Total wages, bonus and benefits paid to workers
Iraq's governorates							
1	Nainawa	221	2,766	62,331,451	31,197,132	1,904	8,648,275
2	Kirkuk	17	46	409,818	244,224	131	495,632
3	Dyala	162	456	41,376,197	22,146,608	1,135	9,493,193
4	Anbar	211	1,648	19,883,875	7,995,820	436	2,954,984
5	Bagdad	214	1,158	46,145,198	20,399,715	835	5,698,035
6	Babel	30	261	7,358,143	3,911,863	116	449,193
7	Karbala	88	1,402	143,402,071	21,670,733	806	4,862,673
8	Waset	118	559	23,739,327	12,690,146	616	2,878,635
9	Salahaddin	78	443	12,701,375	5,473,144	748	2,778,551
10	Najaf	57	487	6,695,767	1,732,240	111	695,992
11	Qhadssiyah	43	887	1,370,963	601,086	125	279,156
12	Mosanna	32	175	30,851,900	24,936,485	95	465,487
13	Ziqhar	56	481	6,478,622	2,359,457	202	1,370,465
14	Misan	122	444	31,200,714	11,793,462	755	4,267,378
15	Basra	60	287	9,889,118	1,944,719	302	1,475,747
Total		1,509	11,499	443,834,539	169,096,835	8,315	46,813,397
Kurdistan Region's governorates							
16	Dohuk	76	223	11,412,204	5,788,865	705	3,061,915
17	Slemaniayah	140	402	29,327,964	14,480,922	1,215	6,568,753
18	Erbil	84	407	23,246,607	11,270,511	825	3,330,349
Total		300	1,031	63,986,776	31,540,297	2,745	12,961,017
Total of Iraq and Kurdistan Region		1,809	12,530	507,821,315	200,637,132	11,060	59,774,414

Table 3 : Number of workers, wages and benefits in mining and quarry survey in private sector by governorates in 2023 (1000 ID)

	Governorate	Number of workers				
		Paid	Un paid	Total	Total wages	bonus and benefits paid to workers
Iraq's governorates						
1	Nainawa	1,746	157	1,904	8,589,967	58,308
2	Kirkuk	130	1	131	400,648	94,984
3	Dyala	1,019	116	1,135	8,368,355	1,124,838
4	Anbar	324	112	436	2,498,057	456,927
5	Bagdad	772	63	835	5,228,314	469,722
6	Babel	86	30	116	415,643	33,550
7	Karbala	690	116	806	3,872,048	990,626
8	Waset	543	74	616	2,353,866	524,769
9	Salahaddin	715	32	748	2,330,453	448,098
10	Najaf	101	10	111	593,083	102,908
11	Qhadssiyah	89	36	125	268,108	11,048
12	Mosanna	90	4	95	430,922	34,565
13	Ziqhar	177	25	202	1,151,523	218,942
14	Misan	678	77	755	3,677,832	589,546
15	Basra	235	66	302	1,008,183	467,565
Total		7,396	920	8,315	41,187,002	5,626,395
Kurdistan Region's governorates						
16	Duhok	648	57	705	2,344,378	717,537
17	Sulaimaniyah	1,039	177	1,215	5,681,312	887,442
18	Erbil	671	154	825	2,569,131	761,218
Total		2,357	388	2,745	10,594,821	2,366,196
Total of Iraq and Kurdistan Region		9,753	1,307	11,060	51,781,823	7,992,591

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 4 : Value of fixed assets in mining and quarries for the private sector by governorates in 2023 (1000 ID)

Series	Governorate	Residential buildings	Non-residential buildings	Machinery and equipment	Means of transport	wells and mines	Office equipment	Smal tools and molds	Plants and animal	Other	total
Iraq's governorates											
1	Nainawa	377,119	403,590	26,022,846	14,687,328		118,309	258,747	18,586		41,886,525
2	Kirkuk		61,000	1,717,570	458,630		9,816	1,320	322		2,248,657
3	Dyala	142,059	1,124,294	12,762,887	8,568,706	89,294	102,485	152,206			22,941,931
4	Anbar	227,714	42,390	11,415,060	1,325,459	348,430	37,198	7,217			13,403,467
5	Bagdad			22,207,745	46,157			606,333			22,860,235
6	Babel			2,672,857	961,857	64,286		250			3,699,250
7	Karbala	51,137	52,916	16,950,321	1,718,604		54,294	74,121	3,426	1,657,684	20,562,502
8	Waset	209,814	72,200	12,865,512	4,278,071	242,929	131,779	40,986			17,841,290
9	Salahaddin	249,412	274,059	6,393,941	878,471	35,588	56,312	46,674		277,176	8,211,632
10	Najaf	13,000	25,000	3,158,667	1,245,000	42,500					4,484,167
11	Qhadssiyah	5,400		2,324,958	635,500		2,100	1,500			2,969,458
12	Mosanna	1,500		1,732,765	1,337,366		300	500			3,072,431
13	Ziqhar	6,232		6,371,355	131,871			1,445		317,935	6,828,839
14	Misan	26,306	204,207	21,444,670	10,449,275		22,491	73,060			32,220,010
15	Basra	180,373	8,182	8,153,628	2,150,909	102,000	52,190	23,887		228,500	10,899,669
Total		1,490,065	2,267,837	156,194,782	48,873,204	925,026	587,274	1,288,246	22,334	2,481,296	214,130,064
Kurdistan Region's governorates											
16	Duhok	503,235	53,271	8,563,485	26,453,375		49,723	13,857	192	2,600	35,639,738
17	Sulaimaniyah	1,237,757	925,765	7,158,753	25,655,182	498,690	389,874	321,820		28,430	36,216,270
18	Erbil	1,056,364	294,440	15,480,455	2,250,551	92,336	123,217	63,983		1,938,311	21,299,656
Total		2,797,355	1,273,475	31,202,693	54,359,107	591,026	562,813	399,660	192	1,969,341	93,155,664
Total of Iraq and Kurdistan Region		4,287,421	3,541,313	187,397,475	103,232,310	1,516,052	1,150,087	1,687,906	22,526	4,450,637	307,285,728

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 5: Production capacity of mines for private sector by governorates in 2023

Series	Governorate	Mines' production capacity		designated area of the mine (dunam)	Number of mines
		M ³	Ton		
Iraq's governorates					
1	Nainawa	1,996,464	88,972	2,766	221
2	Kirkuk	327,000	–	46	17
3	Dyala	2,288,495	–	456	162
4	Anbar	765,360	–	1,648	211
5	Bagdad	2,515,250	–	1,158	214
6	Babel	1,858,000	–	261	30
7	Karbala	5,654,408	–	1,402	88
8	Waset	2,326,456	–	559	118
9	Salahaddin	486,812	–	443	78
10	Najaf	562,500	–	487	57
11	Qhadssiyah	649,285	–	887	43
12	Mosanna	3,439,304	3,764,580	175	32
13	Ziqhar	1,659,420	–	481	56
14	Misan	2,681,739	–	444	122
15	Basra	2,034,750	–	287	60
Total		29,245,243	3,853,552	11,499	1,509
Kurdistan Region's governorates					
16	Duhok	379,300	–	223	76
17	Sulaimaniyah	3,416,040	1,699,025	402	140
18	Erbil	1,068,550	191,640	407	84
Total		4,863,890	1,890,665	1,031	300
Total of Iraq and Kurdistan Region		34,109,133	5,744,217	12,530	1,809

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 6: Goods and non-commodity's value in mining and quarrying survey in private sector, by governorates in 2023, (1000 ID)

Series	Governorate	Commodity value	non-commodity output Value	Total value
Iraq's governorates				
1	Nainawa	62,331,451	-	62,331,451
2	Kirkuk	409,818	-	409,818
3	Dyala	41,376,197	-	41,376,197
4	Anbar	19,858,875	25,000	19,883,875
5	Bagdad	46,145,198	-	46,145,198
6	Babel	7,358,143	-	7,358,143
7	Karbala	143,402,071	-	143,402,071
8	Waset	23,739,327	-	23,739,327
9	Salahaddin	12,701,375	-	12,701,375
10	Najaf	6,695,767	-	6,695,767
11	Qhadssiyah	1,157,848	213,115	1,370,963
12	Mosanna	30,667,665	184,235	30,851,900
13	Ziqhar	6,478,622	-	6,478,622
14	Misan	31,200,714	-	31,200,714
15	Basra	9,889,118	-	9,889,118
Total		443,412,189	422,350	443,834,539
Kurdistan Region's governorates				
16	Duhok	11,412,204	-	11,412,204
17	Sulaimaniyah	29,327,964	-	29,327,964
18	Erbil	23,242,732	3,875	23,246,607
Total		63,982,901	3,875	63,986,776
Total of Iraq and Kurdistan Region		507,395,090	426,225	507,821,315

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 7: production Volume in Mining and quarry Survey in Private Sector by products and governorates in 2023 (m3)

Serie s	Governorate	gravel	Clay	Soil	Gypsum	Gypsum stone	limestone	stone	sand	Iron dust	pebbles	black sand	secondary gypsum
Iraq's governorates													
1	Nainawa	4,413,470					415,723		3,932,013		-		
2	Kirkuk	3,500		34,400	53,680				2,000		8,610		
3	Diyala	3,267,028		2,152,503					3,081,215		-		
4	Anbar			466,215	2,843,198	291,365		54,557	47,262	57,600	227,077		
5	Bagdad			11,536,299							-		
6	Babel			2,452,714							-		
7	Karbala*	1,690,631			318,725				5,964,664		-		
8	Waset	2,482,106	2,186,063						762,443		-		
9	Salahaddin	536,520		245,704					1,062,020		-	69,810	
10	Najaf				734,283				18,000		1,020,000		
11	Qhadssiyah			867,680					75,084		-		
12	Mosanna		4,346,848	1,079,492			3,764,580	8,320			6,900		7,500
13	Ziqhar			3,113,148							-		
14	Misan	2,458,398	3,086,391	49,386							-		
15	Basra	876,600			12,000				996,982		67,100		
Total		15,728,253	9,619,301	21,997,541	3,961,886	291,365	4,180,303	62,877	15,941,682	57,600	1,329,687	69,810	7,500
Kurdistan Region's governorates													
16	Duhok	669,553							67,600	749,506		-	
17	Sulaimaniyah	1,198,800		998,333	37,940				818,192	1,426,091		63,196	
18	Erbil	663,018		50,280	203,285				578,496	1,183,865		1,073	193,750
Total		2,531,371	-	1,048,613	241,225	-	-	1,464,289	3,359,462	-	64,269	193,750	-
Total of Iraq and Kurdistan Region		18,259,624	9,619,301	23,046,155	4,203,111	291,365	4,180,303	1,527,165	19,301,144	57,600	1,393,956	263,560	7,500

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Continued 7: Volume of Mining Production in Mining and quarry Survey in Private Sector by governorates in 2023 (m3)

	Governorate	crushed stone	mixed	Halal stone	Boulder	Bricks	Silica	Marble	Mosaic Stone	Limestone stone	Dust	Total
Iraq's governorates												
1	Nainawa	44,182		282,490	278,347							9,366,225
2	Kirkuk											102,190
3	Dyala											8,500,747
4	Anbar											3,987,273
5	Bagdad											11,536,299
6	Babel											2,452,714
7	Karbala				236,589	280,148						8,490,758
8	Waset		651,429									6,082,040
9	Salahaddin	428,824			35,318							2,378,194
10	Najaf											1,772,283
11	Qhadssiyah											942,764
12	Mosanna											9,213,639
13	Ziqhar											3,113,148
14	Misan		1,176,818		36,250							6,807,243
15	Basra		753,877		40,000							2,746,559
Total		473,006	2,582,124	282,490	626,504	280,148	-	-	-	-	-	77,492,077
Kurdistan Region's governorates												
16	Duhok	195,862	130,000		233,233							2,045,754
17	Sulaimaniyah				301,550		2,340	85,796			69,623	5,001,861
18	Erbil	2,050	273,670						4,000	2,667		3,156,154
Total		197,912	403,670	-	534,783	-	2,340	85,796	4,000	2,667	69,623	10,203,769
Total of Iraq and Kurdistan Region		670,918	2,985,793	282,490	1,161,287	280,148	2,340	85,796	4,000	2,667	69,623	87,695,845

* In Kirkuk Governorate, Brick production is expressed in units of 1,000 bricks.

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 8 : Environmental license for mines in mining and quarries surveys in private sector by governorates in 2023

Series	Governorate	Number of mines without environmental license	Number of mines with environmental license	Total
Iraq's governorates				
1	Nainawa	147	74	221
2	Kirkuk	—	17	17
3	Dyala	69	93	162
4	Anbar	27	184	211
5	Bagdad	—	214	214
6	Babel	—	30	30
7	Karbala	—	88	88
8	Waset	—	118	118
9	Salahaddin	25	53	78
10	Najaf	12	45	57
11	Qhadssiyah	10	33	43
12	Mosanna	—	32	32
13	Ziqhar	—	56	56
14	Misan	42	80	122
15	Basra	60	—	60
Total		391	1,118	1,509
Kurdistan Region's governorates				
16	Duhok	—	76	76
17	Sulaimaniyah	—	140	140
18	Erbil	31	53	84
Total		31	269	300
Total of Iraq and Kurdistan Region		421	1,388	1,809

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 9 : Location of mines within the administrative boundaries of the municipality in the mining and quarries survey for the private sector by governorates in 2023

	Governorate	Number of quarries located within the administrative boundaries of the municipality	Number of quarries located outside the administrative boundaries of the municipality	Total
Iraq's governorates				
1	Nainawa	11	210	221
2	Kirkuk	—	17	17
3	Dyala	32	130	162
4	Anbar	13	199	211
5	Bagdad	—	214	214
6	Babel	—	30	30
7	Karbala	—	88	88
8	Waset	—	118	118
9	Salahaddin	27	51	78
10	Najaf	1	56	57
11	Qhadssiyah	—	43	43
12	Mosanna	—	32	32
13	Ziqhar	—	56	56
14	Misan	17	105	122
15	Basra	14	46	60
Total		115	1,394	1,509
Kurdistan Region's governorates				
16	Duhok	22	54	76
17	Sulaimaniyah		140	140
18	Erbil	31	53	84
Total		53	247	300
Total of Iraq and Kurdistan Region		168	1,641	1,809

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 10: Water sources used in mining and quarries in private sector by governorate in 2023

	Governorate	River	Lake	Well	Tank
Iraq's governorates					
1	Nainawa	141	-	-	26
2	Kirkuk	-	-	-	-
3	Dyala	67	-	8	93
4	Anbar	-	-	3	-
5	Bagdad	-	-	180	-
6	Babel	-	-	-	-
7	Karbala	8	-	3	72
8	Waset	-	-	24	-
9	Salahaddin	32	38	6	-
10	Najaf	-	-	-	-
11	Qhadssiyah	-	-	-	6
12	Mosanna	-	-	-	-
13	Ziqhar	-	-	2	5
14	Misan	-	-	-	-
15	Basra	-	-	-	-
Total		248	38	228	203
Kurdistan Region's governorates					
16	Duhok	60	-	-	13
17	Sulaimaniyah	38	11	39	30
18	Erbil	28	-	25	-
Total		126	11	63	43
Total of Iraq and Kurdistan Region		374	49	291	246

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 11 : Method of waste disposal in the mining and quarrying survey in private sector in 2023

Does the mine produce solid waste?					Methods of disposing of mineral solid waste			
Series	Governorate	No	Yes	Volume of solid waste (tons)	in road maintenance	It is laid down in the adjacent lands	Bury	Throwing in vacant lands
Iraq's governorates								
1	Nainawa	22	199	518,887	-	-	111	88
2	Kirkuk	16	1	5,000	-	-	-	1
3	Dyala	162	-	-	-	-	-	-
4	Anbar	211	-	-	-	-	-	-
5	Bagdad	214	-	-	-	-	-	-
6	Babel	30	-	-	-	-	-	-
7	Karbala	31	57	175,737	-	-	18	39
8	Waset	55	63	339,884	-	24		38
9	Salahaddin	69	9	147,529	-	-	9	-
10	Najaf	57	-	-	-	-		-
11	Qhadssiyah	14	29	150,375	-	-	14	15
12	Mosanna	28	4	8,550	-	-	3	1
13	Ziqhar	56	-	-	-	-	-	-
14	Misan	122	-	-	-	-	-	-
15	Basra	60	-	-	-	-	-	-
Total		1,147	362	1,345,962	-	24	155	183
Kurdistan Region's governorates								
16	Duhok	30	46	272,610		-	41	5
17	Sulaimaniyah	86	54	391,667	2	-	40	12
18	Erbil	46	38	137,753		-	4	34
Total		163	137	802,030	2	-	85	50
Total of Iraq and Kurdistan Region		1,310	499	2,147,993	2	24	240	233

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 12 : Machinery, equipment, and transportation tools owned by the mine owner in mining and quarrying surveys in private sector by governorates in 2023

Series	Governorate	Shovel	Digger	Trucks	Sledgehammer	Air compressor crusher	Grinding machine	Electric generator	Water pump
Iraq's governorates									
1	Nainawa	224	219	408		41		136	149
2	Kirkuk	30	27	30				10	
3	Dyala	226	117	298		69		73	61
4	Anbar	254	31	30		5			
5	Bagdad	214	126	373					
6	Babel	29	24	33					
7	Karbala	164	109	106					
8	Wasit	167	79	134		81		11	
9	Salahaddin	93	64	131		7	4	69	25
10	Najaf	57	10	33					
11	Qhadssiyah	22	15	12					
12	Mosanna	28	14	38					
13	Ziqhar	56	34	65					
14	Misan	216	160	269		49		61	
15	Basra	128	36	29		38		59	29
Total		1,907	1,065	1,990	-	290	4	419	263
Kurdistan Region's governorates									
16	Duhok	123	86	152		36		73	69
17	Sulaimaniyah	211	180	196	7	66	10	105	33
18	Erbil	157	86	61		78	46		
Total		490	352	409	7	179	56	178	102
Total of Iraq and Kurdistan Region		2,398	1,417	2,399	7	469	60	597	365

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Continued 12: Machinery, equipment, and transportation tools owned by the mine owner in mining and quarrying surveys in private sector by governorates in 2023

Series	Governorate	Vibrator	Pick-up cars	Transportation car	drying machine	Gravel and sand washer	Sieve	Conveyor belt	Total
Iraq's governorates									
1	Nainawa	149	106	40	191		542		2,204
2	Kirkuk		11	1		1			110
3	Dyala		24			69			938
4	Anbar								320
5	Bagdad								713
6	Babel								86
7	Karbala		3						382
8	Waset	5	60			5			543
9	Salahaddi n	18	6	9		69	2		498
10	Najaf								100
11	Qhadssiyah								48
12	Mosanna		2						81
13	Ziqhar								155
14	Misan		2				56		813
15	Basra	4	49	2			42	2	418
Total		176	263	53	191	145	642	2	7,410
Kurdistan Region's governorates									
16	Duhok		57			68	23	25	712
17	Sulaymaniyah	28	92	4	4	70	12		1,017
18	Erbil		23	12		37	2		502
Total		28	172	16	4	175	37	25	2,231
Total of Iraq and Kurdistan Region		204	436	68	195	320	679	27	9,641

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 13 : Machinery, equipment, and transportation tools owned by the mine owner in mining and quarrying surveys in private sector by mine type in 2023

Series	Mine type	Shovel	Digger	Trucks	Sledgehammer	Air compressor crusher	Grinding machine	Electric generator	Water pump	Vibrator	Pick-up cars	Transportation car	drying machine	Gravel and sand washer	Σ Sieve	Conveyor belt	Total
1	Soil	668	380	894		5		5		2	3				9		1,966
2	Gravel	385	261	447		234	2	169	67	5	124			74	87	2	1,858
3	Sand	395	251	327		31	2	139	54	37	56	23	4	163	6		1,487
4	Marble	25	48	6		15	6	11		8	16				2		137
5	Rocks and ores	430	117	105	4	63	50	23			32	16					838
6	Gravel and sand	312	223	464		17		208	220	149	163	7	191	50	546	25	2,574
7	* Other	181	138	158	3	104		43	24	3	41	22		33	30		781
Total of Iraq and Kurdistan Region		2,398	1,417	2,399	7	469	60	597	365	204	436	68	195	320	679	27	9,641

* Boulder, Halan stone, Mixed, Dust, Silica)

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 14 : Value of taxes and fees for mining and quarrying surveys in private sector in 2023 (1000 ID)

Series	Governorate	Stock of goods for selling purpose	Total	Taxes and fees	Fees	Other fees	Total
Iraq's governorates							
1	Nainawa	-	-	36,110			36,110
2	Kirkuk	-	-	3,949,158			3,949,158
3	Anbar	-	-	14,820,406		175,069	14,995,475
4	Bagdad	-	-	4,778,914			4,778,914
5	Babel	-	-	2,638,357			2,638,357
6	Karbala	213,411	213,411	1,922,269			1,922,269
7	Waset	-	-			3,405,231	3,405,231
8	Salahaddin	-	-	332,724			332,724
9	Najaf	-	-	3,152,117		198,900	3,351,017
10	Qhadssiyah	-	-	96,004	5,725	24,417	126,146
11	Mosanna	-	-			5,855,664	5,855,664
12	Ziqhar	-	-	2,014,194			2,014,194
Total		213,411	213,411	33,740,253	5,725	9,659,280	43,405,258
Kurdistan Region's governorates							
1	Duhok	-	-			862,987	862,987
2	Sulaimaniyah	-	-	2,528,675	38,380	963,111	3,530,166
3	Erbil	-	-			1,017,235	1,017,235
Total		-	-	2,528,675	38,380	2,843,332	5,410,387
Total of Iraq and Kurdistan Region		213,411	213,411	36,268,928	44,105	12,502,613	43,405,258

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Table 15 : Production volume of commodity produced in mining and quarrying survey for private sector for the year 2023

Series	Product	Product volume (m ³)	Production volume (Tons)	Production volume (in thousands)	Total
1	gravel	17,833,692	425,932		18,259,624
2	Clay	9,619,301			9,619,301
3	Soil	22,596,155	450,000		23,046,155
4	Gypsum	4,203,111			4,203,111
5	Gypsum stone		291,365		291,365
6	limestone	415,723	3,764,580		4,180,303
7	Stone	190,953	1,336,212		1,527,165
8	Sand	18,427,132	874,013		19,301,144
9	Iron dust	57,600			57,600
10	pebbles	1,325,783			1,325,783
11	black sand	263,560			263,560
12	Gravel and sand for construction purposes	68,173			68,173
13	secondary gypsum	7,500			7,500
14	crushed gravel	670,918			670,918
15	Mixed	2,985,793			2,985,793
16	Hallan stone		282,490		282,490
17	Boulder	1,161,287			1,161,287
18	Bricks			280,148	280,148
19	Silica		2,340		2,340
20	Marble		85,796		85,796
21	Mosaic stone		4,000		4,000
22	Limestone stone		2,667		2,667
23	Dust	29,063	40,560		69,623
Total of Iraq and Kurdistan Region		79,855,743	7,559,954	280,148	87,695,845

Table 16: Production value of mining and quarrying survey in private sector by product type in 2023, (1000 ID)

Series	governorate	gravel	clay	soil	Gypsum	Gypsum stone	limestone	stone	sand	Iron dust	pebbles	black sand	secondary gypsum
Iraq's governorates													
1	Nainawa	15,007,523					3,936,192		36,634,858		-		
2	Kirkuk	7,000		103,200	268,398				14,000		17,220		
3	Dyala	9,839,238		7,333,383					24,203,576		-		
4	Anbar			1,551,755	13,642,969	1,456,826		339,878	47,262	1,900,800	919,385		
5	Bagdad			46,145,198							-		
6	Babel			7,358,143							-		
7	Karbala	51,140,509			7,008,811				48,755,911		-		
8	Waset	13,848,231	7,422,724						1,165,514		-		
9	Salahaddin	1,921,112		245,704					8,547,327		-	767,915	
10	Najaf				3,202,767				144,000		3,349,000		
11	Qhadssiyah			932,596					225,252		-		
12	Mosanna		13,429,470	3,238,475			13,858,320	83,200			20,700		37,500
13	Zighar			6,478,622							-		
14	Misan	16,693,392	9,259,173	197,545							-		
15	Basra	5,521,800			48,000				1,993,964		417,600		
Total		113,978,805	30,111,367	73,584,620	24,170,944	1,456,826	17,794,512	423,078	121,731,664	1,900,800	4,723,905	767,915	37,500
Kurdistan Region's governorates													
16	Duhok	1,849,642							540,800	7,074,712	-		
17	Sulaimaniyah	3,129,090		998,333	2,276,400				5,705,787	12,831,896	178,192		
18	Erbil	2,176,753		100,560	9,955,412				1,997,182	6,988,528		4,018	1,550,000
Total		7,155,485	-	1,098,893	12,231,812	-	-	8,243,768	26,895,136	-	182,210	1,550,000	-
Total of Iraq and Kurdistan Region		121,134,291	30,111,367	74,683,514	36,402,756	1,456,826	17,794,512	8,666,847	148,626,800	1,900,800	4,906,115	2,317,915	37,500

Mining and quarrying survey for private Sector in Iraq and Kurdistan Region 2023

Continued 16: Production value of mining and quarrying survey in private sector by product type in 2023, (1000 ID)

Series	Governorate	Crusher	Mixed	Hallan stone	Boulder	Bricks	Silica	Marble	Mosaic stone	Limestone	Dust	Non-commodity	Total production	
Iraq's governorates														
1	Nainawa	88,364		6,107,820	556,694								62,331,451	
2	Kirkuk												409,818	
3	Dyala												41,376,197	
4	Anbar										25,000		19,883,875	
5	Bagdad												46,145,198	
6	Babel												7,358,143	
7	Karbala				2,050,560	34,446,280							143,402,071	
8	Waset		1,302,857										23,739,327	
9	Salahaddin	1,184,000			35,318								12,701,375	
10	Najaf												6,695,767	
11	Qhadssiyah											213,115	1,370,963	
12	Mosanna												184,235	30,851,900
13	Ziqhar													6,478,622
14	Misan		4,760,604		290,000									31,200,714
15	Basra		1,507,755		400,000									9,889,118
Total		1,272,364	7,571,216	6,107,820	3,332,572	34,446,280	-	-	-	-	-	422,350	443,834,539	
Kurdistan Region's governorates														
16	Duhok	626,521	494,000		826,530								11,412,204	
17	Sulaimaniyah				745,550		351,000	2,554,734			556,982		29,327,964	
18	Erbil	8,200	404,480						36,267	21,333		3,875	23,246,607	
Total		634,721	898,480	-	1,572,080	-	351,000	2,554,734	36,267	21,333	556,982	3,875	63,986,776	
Total of Iraq and Kurdistan Region		1,907,085	8,469,696	6,107,820	4,904,652	34,446,280	351,000	2,554,734	36,267	21,333	556,982	426,225	507,821,315	