



**MINISTRY OF MINING
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND
PETROLEUM AUTHORITY OF
MONGOLIA**

Mineral Resources and Petroleum Statistics



First half of the 2018

www.mrpam.gov.mn



STATISTICAL INFORMATION ON MINERAL RESOURCES AND PETROLEUM



On June 5, 2018, the German-Mongolian Development Cooperation was established by the Federal Ministry of Geology and Natural Resources of Mongolia with the launch of "Mongolia's Mineral Resource Development Capacity Building" jointly with Mongolia's Mineral Resource and Petroleum Authority organized. The opening ceremony was attended Ms. Ch.Anun, by Chairman of the Ministry of Foreign Affairs and Trade of Mongolia; Mr. Kh.Kherlen, Chairman of Mineral Resources and Petroleum Authority; Mr.Christian Glasse, Head of Development Cooperation Division of the German Embassy, and representatives of BGR, Projects of Soemim, Merit, Australia, Canada universities and institutes participated.

Compiled: Monitoring-Evaluation and Statistics Division
of Mineral Resources and Petroleum Authority

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Main indicators

1. Number of valid licenses (by the July 05, 2018)	3233
Mining licenses	1651
Exploration licenses	1582
2. Valid licensed area (by the July 05, 2018)	9,7 mln.ha
Mining licensed area	1,5 mln.ha
Exploration licensed area	8,2 mln.ha
3. Licensed area of Mongolian territory (by the July 05, 2018)	6,2%
Mining licensed area	1,0%
Exploration licensed area	5,2%
4. The role of Mining sector in Gross Domestic Product (2018)	21,86%*
5. Mining industry in Gross Industrial Output (First half, 2018)	79,80%*
6. Production of major mining products (First half, 2018):	
Copper metal concentrate	653,7 mln.ha*
Molybdenium metal concentrate	2549,0 t*
Gold	6937,2 kg
Fluorspar concentrate	32,5 ths.t*
Iron ore	1516,1 ths.t*
Zincum concentrate	39,6 ths.t*
7. Main minerals export (First half, 2018):	
Flourspar ore and concentrate	3373,2 ths.t**
Copper concentrate	773,7 ths.t**
Zinc	61,6 ths.t**
Gold	3431,9 kg**
Coal	19042,1 ths.t**
8. Produced coal (First half, 2018)	25940,3 ths.t
9. Sold coal (First half, 2018)	23420 ths.t
10. Implementation of approved budget revenue plan (First half, 2018)	46,1%
License fee	43,9%
Petroleum export	51,4%
Reimbursement	15,3%

Notes: * Data from National Statistical Office, www.1212.mn

** Data from Customs General Administration, www.ecustoms.mn



1. GEOLOGICAL STATISTICS

1.1. Geological survey conducted at expense of the state budget, mln MNT, 2012-2017

Type of work	2013		2014		2015		2016		2017	
	mln MNT	%	mln MNT	%	mln MNT	%	mln MNT	%	mln MNT	%
TOTAL	6 809,9	93,0%	9 209,2	92%	9 280,6	82%	9 341,1	100%	12255	91,8
SGMP 1:200000	763,8	95,6%	807,2	89%	330,5	63%	642,7	100%	482,3	100,0
SGMP 1:50000	5 809,4	96,5%	7 314,8	93%	5 556,7	78%	4 975,8	100%	5355,9	100,0
Thematic work	155,8	34,3%	1 003,5	88%	3 167,7	92%	3 476,1	100%	6274,6	80,8
Cooperation projects	80,9	168,9%	83,6	70%	225,6	79%	246,6	100%	142,4	100,0

Source: Data from Geology and Exploration Division, MRPAM

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284,474



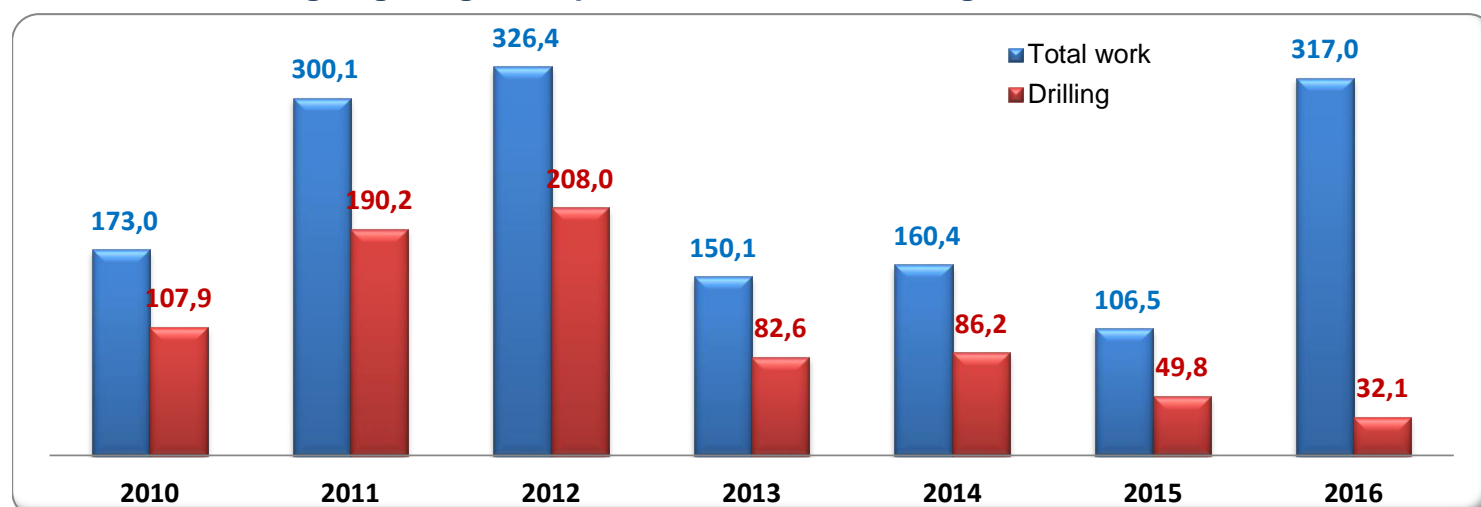
1.2. Geological and exploration survey conducted at expenses of the exploration license holders, mln.MNT, 2010-2016

Total	172 959,4	300 098,4	326 394,7	150 095,8	160 421,9	106 462,1	317 208,0	100,0
Preparation	4677,5	5051,8	4882,8	3 842,3	3 146,2	2 998,7	35 833,2	11,3
Mapping	2270,0	3957,4	4714,8	2 328,8	3 006,8	2 314,2	5 799,1	1,8
Geological survey	2862,7	6880,8	3925,7	2 530,5	2 535,4	2 789,2	6 334,2	2,0
Sampling	2561,0	5685,4	6603,1	2 659,3	2 259,7	2 047,1	32 368,9	10,2
Geophysical work	20581,7	28835,7	23573,7	13 427,2	12 413,9	10 716,5	10 097,6	3,2
Mining	4495,4	7389,5	5153,1	2 530,8	4 887,8	2 784,2	1 692,1	0,5
Drilling	107941,6	190240,1	208018,8	82 575,7	86 233,0	49 794,5	101 740,1	32,1
Geochemical work	377,0	1562,5	3292,1	2 133,4	746,0	779,1	-	-
Laboratory	7693,4	19023,1	22152,4	10 889,8	10 490,8	6 710,6	8 823,9	2,8
Topogeodetic work	1680,3	5778,5	2348,2	1 880,4	1 357,9	1 638,3	2 163,8	0,7
Hydrogeological wo	510,3	2571,0	4116,9	751,6	2 781,3	2 549,9	1 168,0	0,4
Transport	5724,2	6526,7	6685,8	5 182,5	3 780,9	3 112,8	21 055,0	6,6
Indoor, laboratory in	4609,4	10475,1	18540,5	11 233,7	21 563,1	11 055,0	46 447,6	14,6
Environment reclam	675,1	699,8	1424,7	1 382,0	2 015,8	1 749,6	1 343,9	0,4
Field sampling	1547,9	2140,3	862,1	416,6	1 484,7	1 246,9	2 844,5	0,9
Geomorphology	0,0	0,0	11,0	25,3	0,0	20,6	-	-
Archeology	0,0	0,0	1070,9	528,3	123,0	96,8	231,2	-
Paleontology	0,0	0,0	925,4	448,9	88,3	43,3	-	0,1
Other	4752,0	3280,7	8092,8	5 328,7	1 506,9	4 791,0	39 264,9	12,4

Explanation: There are some types of expenditure in 2016 as aggregate and the cost of 2016 is not the final option.

Source: Reports from exploration license holders, MRPAM

1.3. Private funding of geological exploration work and drilling, bln.MNT





	Total work	Drilling
2010	173,0	107,9
2011	300,1	190,2
2012	326,4	208,0
2013	150,1	82,6
2014	160,4	86,2
2015	106,5	49,8
2016	317,0	32,1



1.4. Mineral resource reserves registered in the State's integrated registry, 2016-2018

No	Deposit types	unit	Registered reserves					
			2016		2017		2018	
			ore	metal	ore	metal	ore	metal
1	Gold (rock)	ths.t/kg	62 864,24	33 819,66	8412,8	3211,9	61657,9	15924,4
2	Gold (placer)	kg	6581,0	5955,2	3374,7	3015,0	2 464,41	2 201,15
3	Iron	ths.t	54463,2	18030,0	45655,7	11870,9	-	-
4	Polymetal	ths.t	15091,4	-	-	-	2837,3	-
	Cu	t	-	57547,3	-	-	-	-
	Zn	t	-	41043,0	-	77,7	-	-
	eqZn	t	-	-	-	-	-	73807,0
	Pb	t	-	-	-	83,4	-	-
	eqPb	t	-	-	-	1636,3	-	-
5	Molybdenium	ths.t	-	-	-	-	35 270,97	10 352,37
6	Tungsten	ths.t/t	-	-	502,6	4,4	-	-
7	Rare earth elements	ths.t/t	-	-	0,12	0,041	274,6	0,02
8	Copper	ths.t/t	2042008.33*	7789023.59*	29183,0	134,9	-	-
9	Tin	ths.t	-	89,6	-	0,7	-	-
10	Fluorspar	ths.t	801,1	335,0	1177,56	664,58	258,08	118,47
11	Uranium	t	4,9	-	-	-	-	-
12	Coal	mln.t	1295,43		3579,7		1359,3	
13	Pear shaft	mln.t						
14	Limestone	mln.t	155,4		185,8		36,3	

Source: Data from Geology and Exploration Division, MRPAM

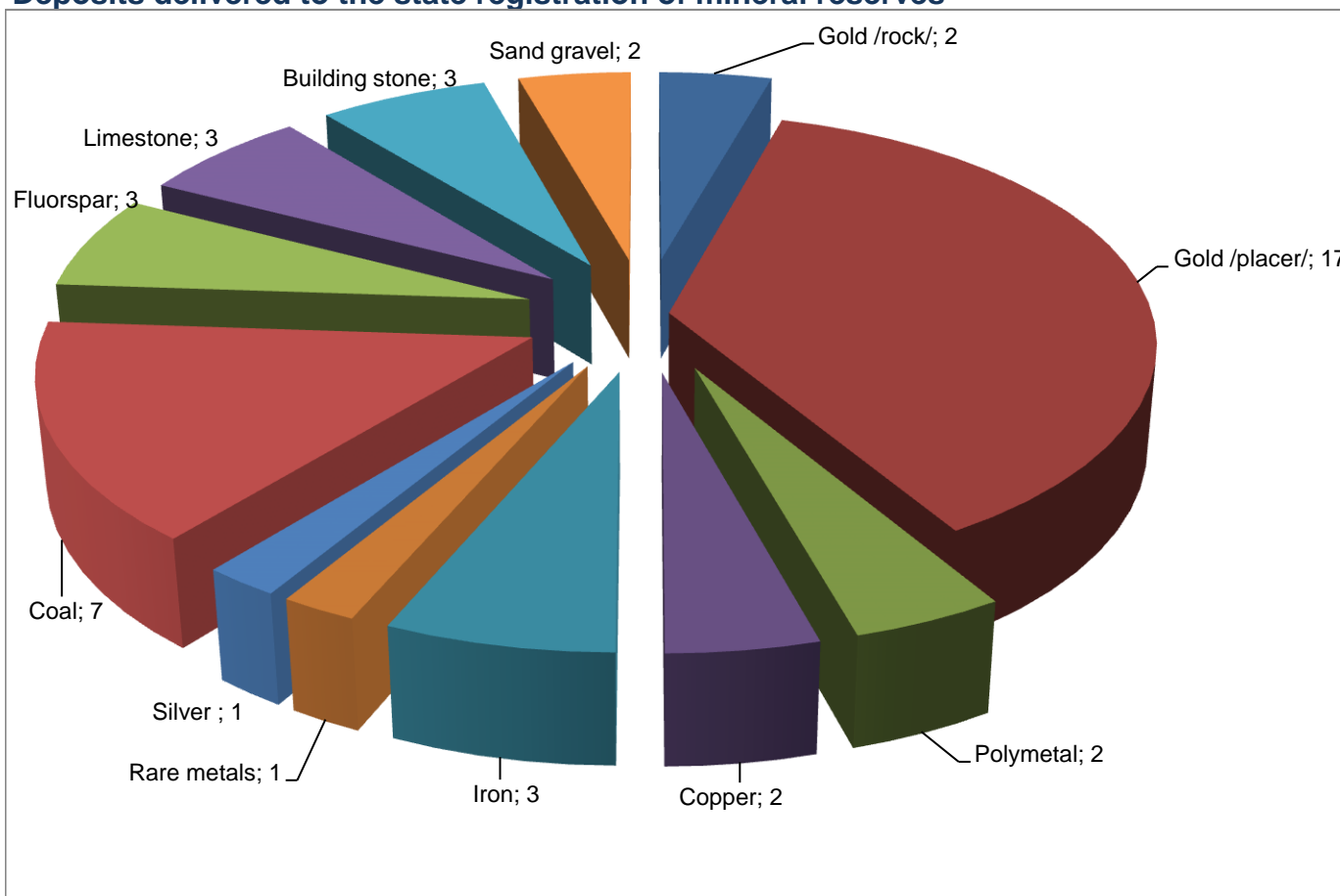




1.5. Deposit delivered to the state registration of mineral reserves, 2018

Number	Type of minerals	Quantity
1	Gold (rock)	4
2	Gold (placer)	25
3	Polymetal	2
4	Molibden	3
5	Copper	2
6	Iron	5
7	Silver	1
8	Coal	2
9	Fluorspar	15
10	Limestone	6
11	Building stone	5
12	Mud deposits	11
13	Sand gravel	3
14	Silicon sandstone	5

Deposits delivered to the state registration of mineral reserves



Source: Data from Geology and Exploration Division, MRPAM



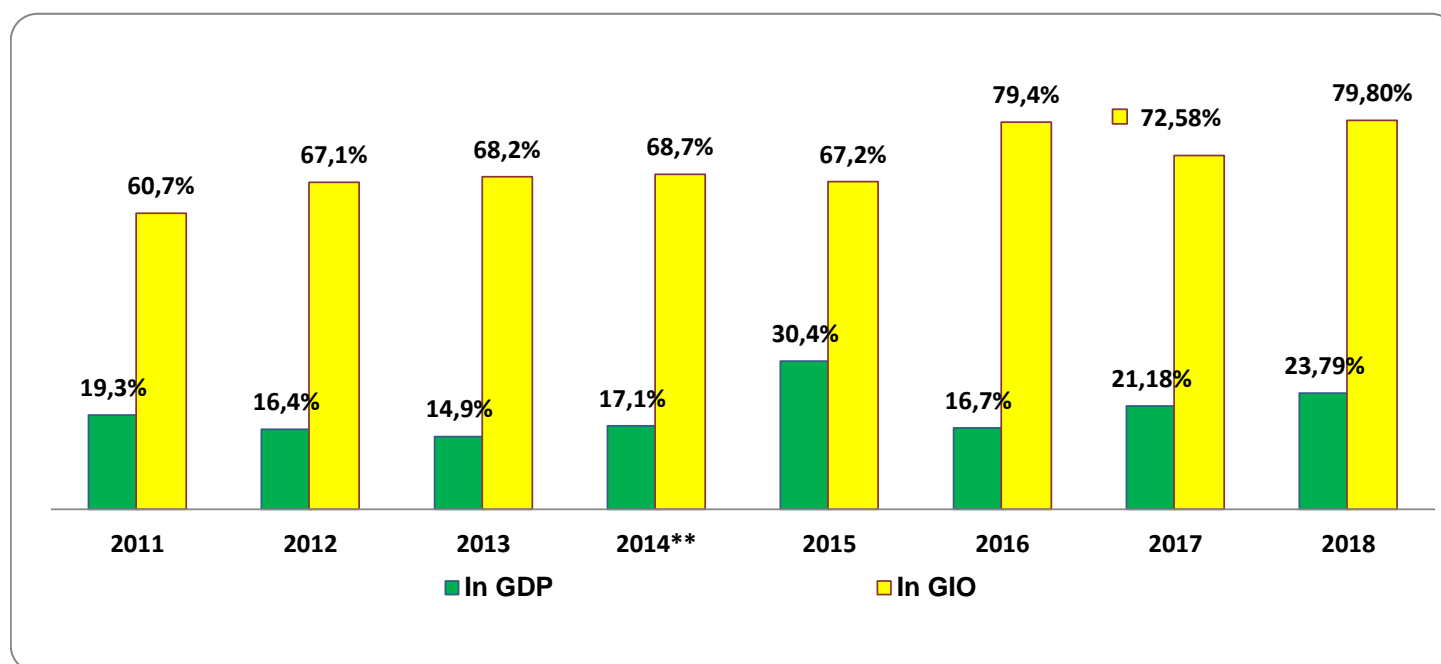


2. MINING STATISTICS

2.1. Production of commodities in mining industry, at current prices, /billion MNT /, 2011-2018

Production	2011	2012	2013	2014	2015	2016	2017	2018
Gross domestic production	13 173,8	16 688,4	19 174,2	22 227,1	23 166,8	23 886,4	20 257,9	15166,6
Mining production	2 536,2	2 742,8	2 849,4	3 661,0	3 867,7	3 984,8	4 291,3	3608,1
Gross industrial output	6 185,6	5 723,6	7 651,7	9 299,6	8 714,4	9 927,1	12 932,7	8622,9
Mining and quarrying	3 752,3	3 839,7	5 217,4	6 388,9	5 858,0	7 884,7	9 386,0	6800,8

2.2. The role of Mining sector in the National economy



2.3. Production of major mining commodities, 2010-2018

Type of minerals	2011	2012	2013	2014	2015	2016	2017	2018
Copper concentrate with metal grade, thous.t	347,4	347,6	533,3	712,0	890,7	1445,1	1 084,9	653,7
Molybdenum concentrate with metal grade, ton	4163,1	4050,2	3869,2	4254,0	5441,0	5173,7	4 673,7	2549
Gold, kg	5702,6	5995,0	8904,4	11503,8	14556,2	18435,7	17 397,5	6937,2
Fluorspar concentrate, thous.t	116,4	157,2	76,4	374,9	230,8	34,1	17,1	32,5
Iron ore, concentrate, thous.t	5678,3	7561,4	6011,2	10260,5	6173,4	2209,9	3 069,1	1516,1
Zinc concentrate, thous	104,7	119,1	104,1	93,2	89,6	100,2	69,0	39,6
Tungsten concentrate, ton	12,6	66,0	-	-	-	-	-	-

Source: www.1212.mn, National Statistical Office



	2011	2012	2013	2014**	2015	2016	2017	2018
In GDP	####	16,4%	14,9%	17,1%	30,4%	16,7%	21,18%	23,79%
In GIO	####	67,1%	68,2%	68,7%	67,2%	79,4%	72,58%	79,80%

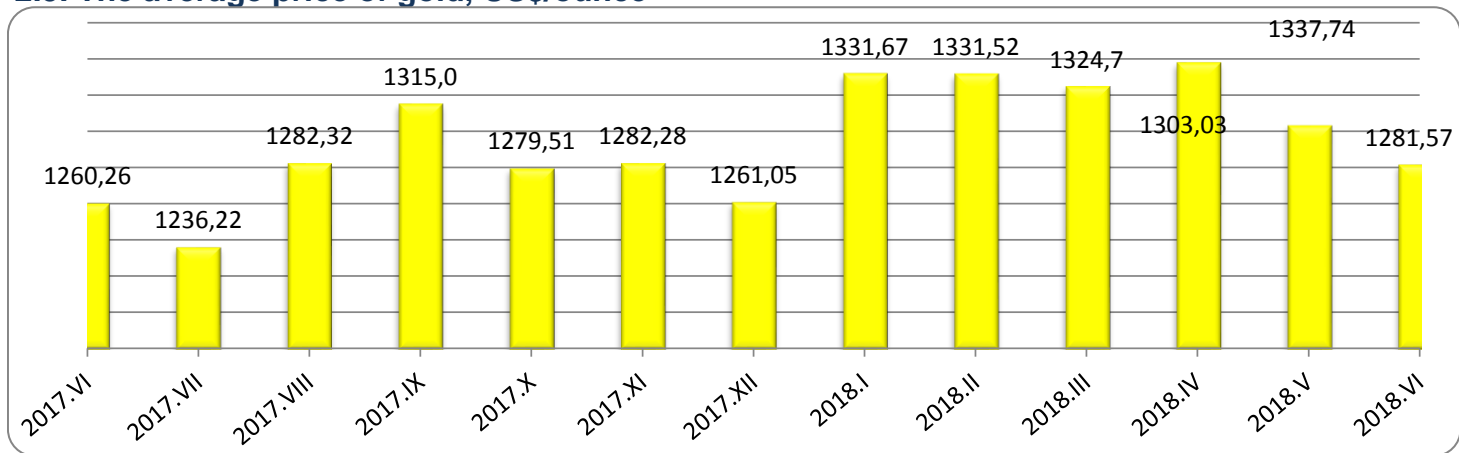


2.4. The average of commodity prices in the world market. US\$, 2014-2018

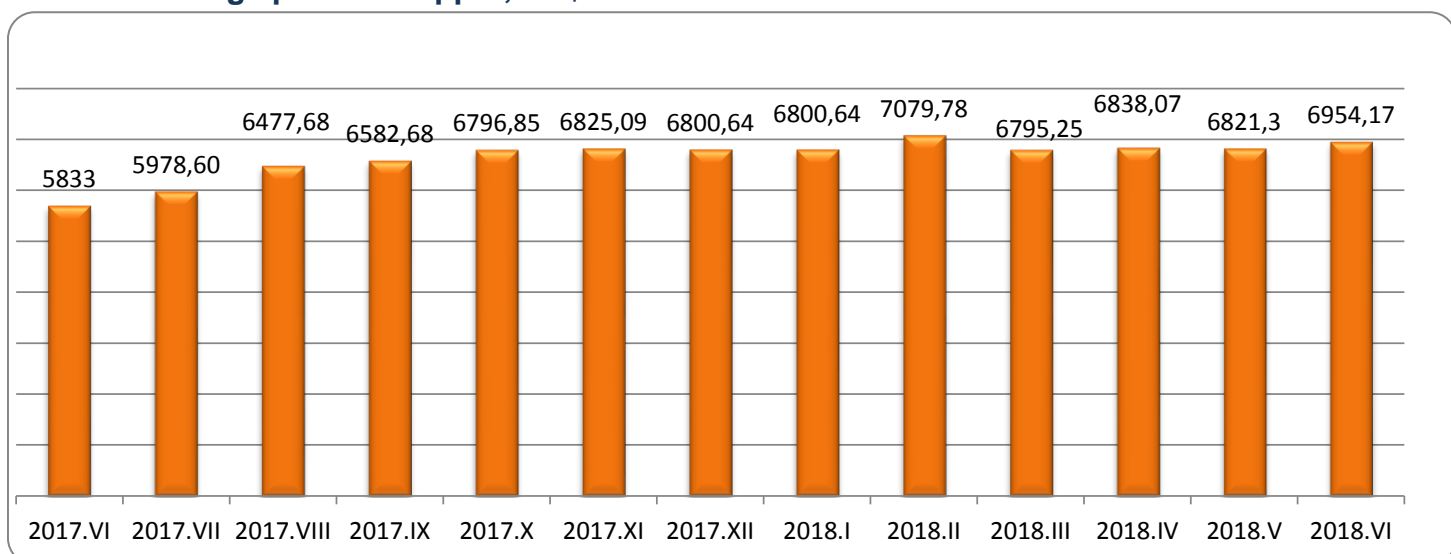
Number	Mineral commodities	Unit of measurement	2014	2015	2016	2017	June, 2018
1	Gold, ounce	\$/унци	1271,19	1160,09	1151,40	1257,11	1281,57
2	Silver, ounce	\$/унци	19,07	15,71	16,38	17,14	16,52
3	Copper, tons	\$/тн	6859,50	5501,03	5665,83	6162,36	6954,17
4	Zinc, tons	\$/тн	2161,05	1928,76	2671,34	2893,57	3091,22
5	Blue lead, tons	\$/тн	2095,44	1786,15	2230,30	2317,05	2440,15
6	Tin, tons	\$/тн	21909,93	16079,32	21274,13	20090,07	20652,03
7	Molybdenum, tons	\$/тн	25202,97	14618,15	15000,00	15665,13	25000
8	Tungsten, tons	\$/тн	50971,02	36082,38	32000,00	36011,13	43300,0
9	Iron ore, tons	\$/тн	93,11	49,82	62,00	54,28	44,98
10	Fluorite concentrate AG-97	\$/тн	305,66	283,29	260,00	345,38	490
11	Fluorite ore MG-85	\$/тн	240,00	244,33	250,00	293,88	360
12	Thermal coal	\$/тн	56,63	49,10	40,40	42,15	31,4
13	Coking coal	\$/тн	150,00	106,20	121,30	113,63	137,4

Source: www.kitco.com, www.westmetall.com, www.lme.com, www.asianmetal.com, www.lndmin.com

2.5. The average price of gold, US\$/ounce



2.6. The average price of copper, US\$/tons

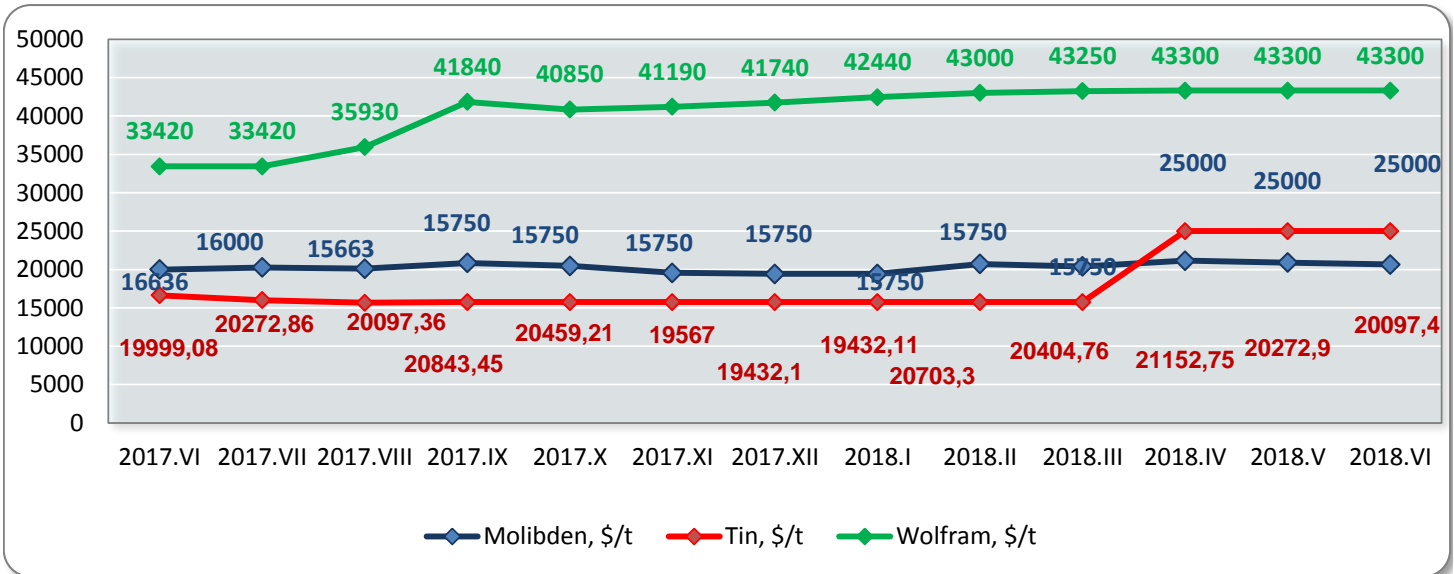




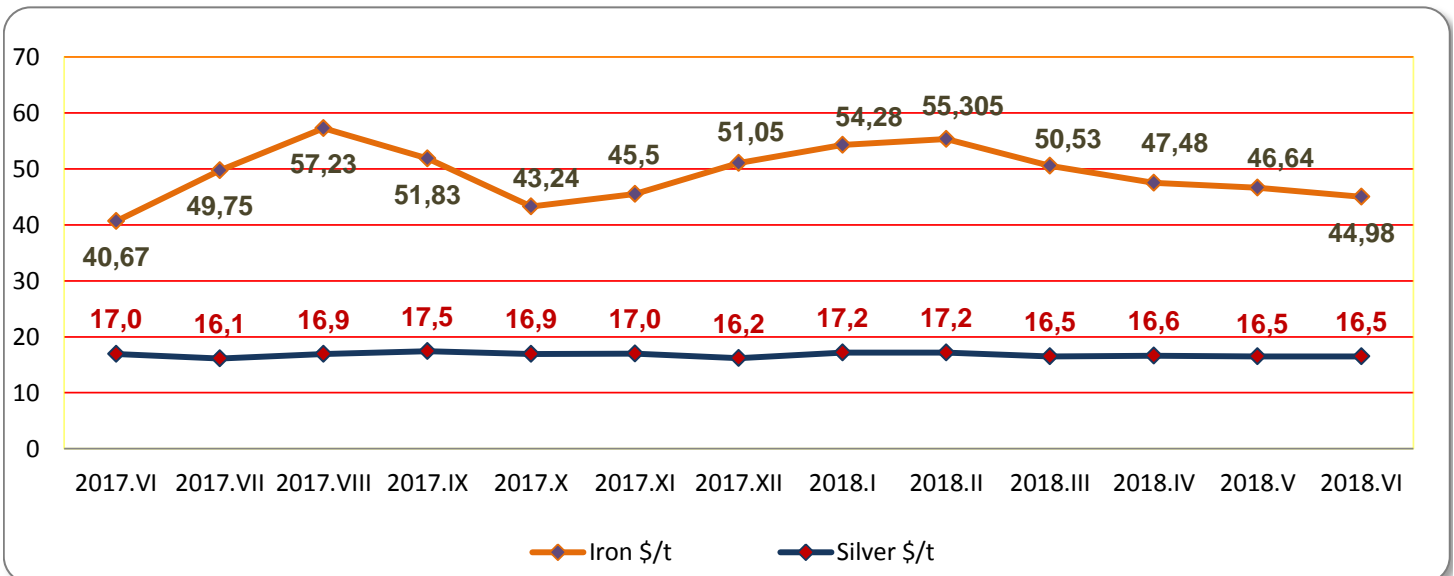
	алт, \$/унци		зэс, \$/тн
2017.III	1231,09	2017.III	5821,09
2017.IV	1265,63	2017.IV	5697,37
2017.V	1233,74	2017.V	5757,53
2017.VI	1260,26	2017.VI	5699,08
2017.VII	1236,22	2017.VII	5978,60
2017.VIII	1282,32	2017.VIII	6477,68
2017.IX	1315,0	2017.IX	6582,68
2017.X	1279,51	2017.X	6796,85
2017.XI	1282,28	2017.XI	6825,09
2017.XII	1261,05	2017.XII	6800,64
2018.I	1331,67	2018.I	6800,64
2018.II	1331,52	2018.II	7079,78
2018.III	1324,7	2018.III	6795,25
2018.IV	1337,74	2018.IV	6838,07
2018.V	1303,03	2018.V	6821,3
2018.VI	1281,57	2018.VI	6954,17



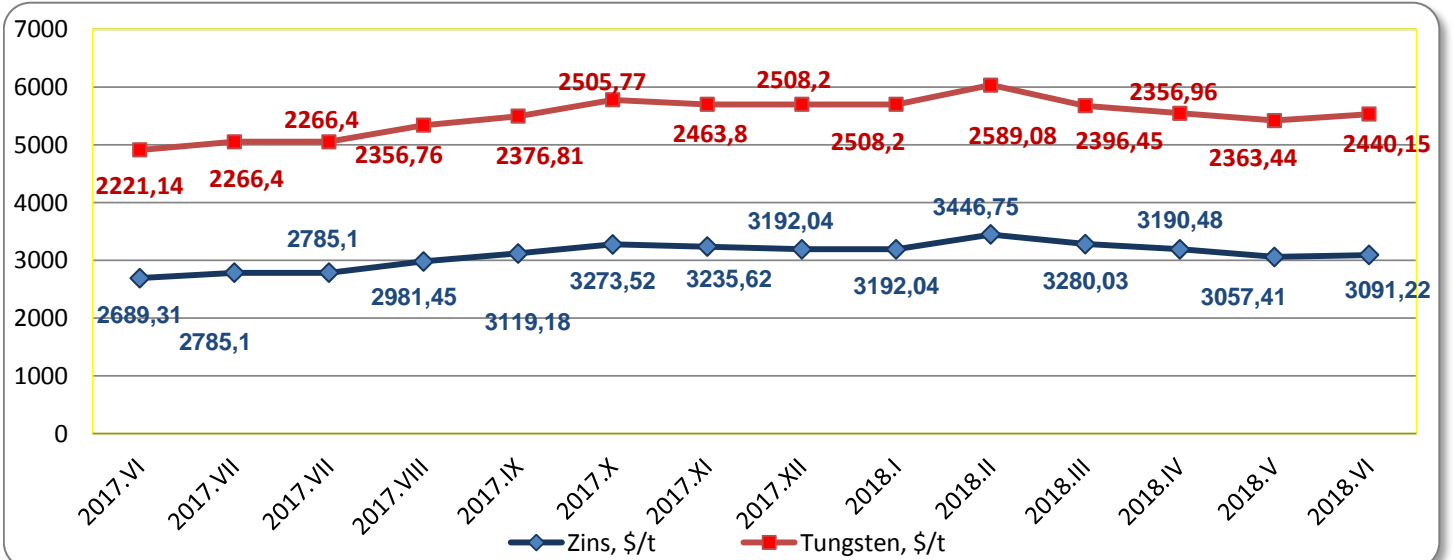
2.7. The average price of metals in the world market, last 12 months



2.8. The average price of metals in the world market, last 12 months



2.9. The average price of metals in the world, last 12 months



Source: www.Indmin.com, www.umetal.com www.sxcoal.com



Molibden, \$/t	Tin, \$/t	Wolfram, \$/t
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2017.IV	19982	15000	33000		
2017.V	20050	15319	32749		
2017.VI	19999,1	16636	33420		
2017.VII	20272,9	16000	33420		
2017.VIII	20097,4	15663	35930	3182,5	3320,6
2017.IX	20843,5	15750	41840	3785,4	3941,3
2017.X	20459,2	15750	40850	2340,2	3195,8
2017.XI	19567	15750	41190		
2017.XII	19432,1	15750	41740		
2018.I	19432,1	15750	42440		
2018.II	20703,3	15750	43000		
2018.III	20404,8	15750	43250		
2018.IV	21152,8	25000	43300		
2018.V	20887,5	25000	43300		
2018.VI	20652	25000	43300		

	Iron \$/t	Silver \$/t
2017.III	71,19	17,6
2017.IV	53,27	18,1
2017.V	62,4	17,6
2017.VI	40,67	17,0
2017.VII	49,75	16,1
2017.VIII	57,23	16,9
2017.IX	51,83	17,5
2017.X	43,24	16,9
2017.XI	45,5	17,0
2017.XII	51,05	16,2
2018.I	54,28	17,2
2018.II	55,305	17,2
2018.III	50,53	16,5
2018.IV	47,48	16,6
2018.V	46,64	16,5
2018.VI	44,98	16,5

	Zins, \$/t	Tungsten, \$/t
2017.IV	2632,5	2230,78
2017.V	2712,87	2239,24
2017.VI	2689,31	2221,14
2017.VII	2785,1	2266,4
2017.VIII	2785,1	2266,4
2017.VIII	2981,45	2356,76
2017.IX	3119,18	2376,81
2017.X	3273,52	2505,77
2017.XI	3235,62	2463,8
2017.XII	3192,04	2508,2
2018.I	3192,04	2508,2
2018.II	3446,75	2589,08
2018.III	3280,03	2396,45
2018.IV	3190,48	2356,96
2018.V	3057,41	2363,44
2018.VI	3091,22	2440,15



2.10. Rehabilitation work by mining license holders, 2008-May 09, 2018

Parametres		Previous years	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Total
1	Area covered by mining /hectare/	17077	709	631	1709	2042	1430	1038	1561	871	2511	1745	31325
2	Rehabilitated area /hectare/	11527	932	711	1533	1443	1402	807	960	750	1000	376,8	21442
3	Expenses for rehabilitation	24805	7683	8300	9657	7013	14808	7382	9212	4019	2313	1602,4	96794
4	Area covered by technical rehabilitation /hectare/	5381	823	580	1290	480	1177	532	523	589	654	420,3	12749
5	Area covered by biological rehabilitation /hectare/	4024	670	300	520	521	378	370	322	320	718	360,1	8502
6	Environmental expenses /mln.MNT/	12019	3592	4158	5708	3323	8597	3876	11683	8597	5455	0	61907
7	Abusive protection rehabilitation /hectare/	-	-	-	-	-	-	-	-	-	257,0	24,1	281,0
8	Abusive protection rehabilitation /mln.MNT/	-	-	-	-	-	-	-	-	-	739,1	26	765
9	Remodeling the mine and rehabilitation of the village /hectare/	-	-	-	-	-	-	-	-	-	29,0	24,1	53,0
10	Remodeling the mine and rehabilitation of the village /mln.MNT/	-	-	-	-	-	-	-	-	-	175,0	65,4	240,0

In 2017, the newly damaged land was 1745 ha, technical rehabilitation was 420.3 hectares and biological rehabilitation was 360.1 ha.

As of today, 31325 hectare area is covered by mining due to mining activities in Mongolia. The area of technical rehabilitation was 12749 hectares, the area of biological rehabilitation was 8502 hectares, expenditure spent on rehabilitation was 96,794.0 million tugrugs and expenditure on environmental protection was 61.907 million tugrugs.

Explanation: Based on the report of the Minerals Law of 2017.

According to Article 48.6 of the Minerals Law, a report on exploitation of mineral resources in 2017 was submitted on 9 May and is based on data that was affected by the 2017 Certified Rehabilitation Report.



2.12. Investments of companies registered with international stock exchange companies operating in Mongolia's mining sector /by the May 07, 2018/

№	Company name	Exchange	Marking	Money unit	The average price of the shares						Market value, May 07, 2018
					2017	Jan, 2018	Feb, 2018	Mar, 2018	1st quarter, 2018	Apr, 2018	
1	Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	3,076	3,365	2,862	3,219	3,158	3,024	5.70B
2	Peabody Energy Corporation	NYQ	BTU	USD	28,498	40,056	40,108	39,236	39,79	36,988	4.57B
3	Rio Tinto plc	LSE	RIO.L	GBp	3,411.9	4,016.8	3,961.4	3,668.8	3,883.2	3,778.1	62.65B
4	Mongolia Energy Corporation Limited	HKG	0276.HK	HKD	0,246	0,207	0,19	0,184	0,194	0,173	325.46M
5	Mongolian Mining Corporation	HKG	0975.HK	HKD	0,237	0,233	0,235	0,211	0,226	0,161	1.58B
6	South Gobi Resources Ltd.	HKG	1878.HK	HKD	1,758	1,33	1,238	1,153	1,242	0,998	269.27M
7	Centerra Gold Inc.	TOR	CG.TO	CAD	7,413	6,275	6,454	7,048	6,592	7,6	2.13B
8	Erdene Resource Development Corporation	TOR	ERD.TO	CAD	0,852	0,535	0,462	0,423	0,475	0,391	56.36M
9	Entrée Resources Ltd.	TOR	ETG.TO	CAD	0,604	0,708	0,572	0,522	0,603	0,472	85.37M
10	Prophecy Development Corp.	TOR	PCY.TO	CAD	4,007	3,848	3,175	2,836	3,299	2,802	19.80M
11	Kincora Copper Limited	VAN	KCC.V	CAD	0,389	0,245	0,219	0,158	0,208	0,139	10.01M
12	Altan Rio Minerals Limited	VAN	AMO.V	CAD	0,02	0,017	0,02	0,018	0,018	0,01	891
13	Xanadu Mines Limited	ASX	XAM.AX	AUD	0,224	0,277	0,245	0,229	0,251	0,195	111.85M
14	Aspire Mining Limited	ASX	AKM.AX	AUD	0,018	0,012	0,011	0,009	0,011	0,009	20.21M
15	Haranga Resources Limited	ASX	HAR.AX	AUD	0,003	0,003	0,003	0,003	0,003	0,003	1.45M
16	Tian Pon Resources Limited	ASX	TPO.AX	AUD	0,047	0,073	0,082	0,09	0,081	0,09	34.79M
17	Banpu Public Company Limited	SET	BANPU.BK	THB	18,109	21,543	21,765	21,338	21,545	19,782	102.72B
18	Petro Matad Limited	LSE	MATD.L	GBp	15,085	9,244	8,62	11,89	9,928	11,93	52.74M
19	Wolf Petroleum Limited	ASX	WOF.AX	AUD	0,026	0,019	0,015	0,013	0,016	0,011	7.59M

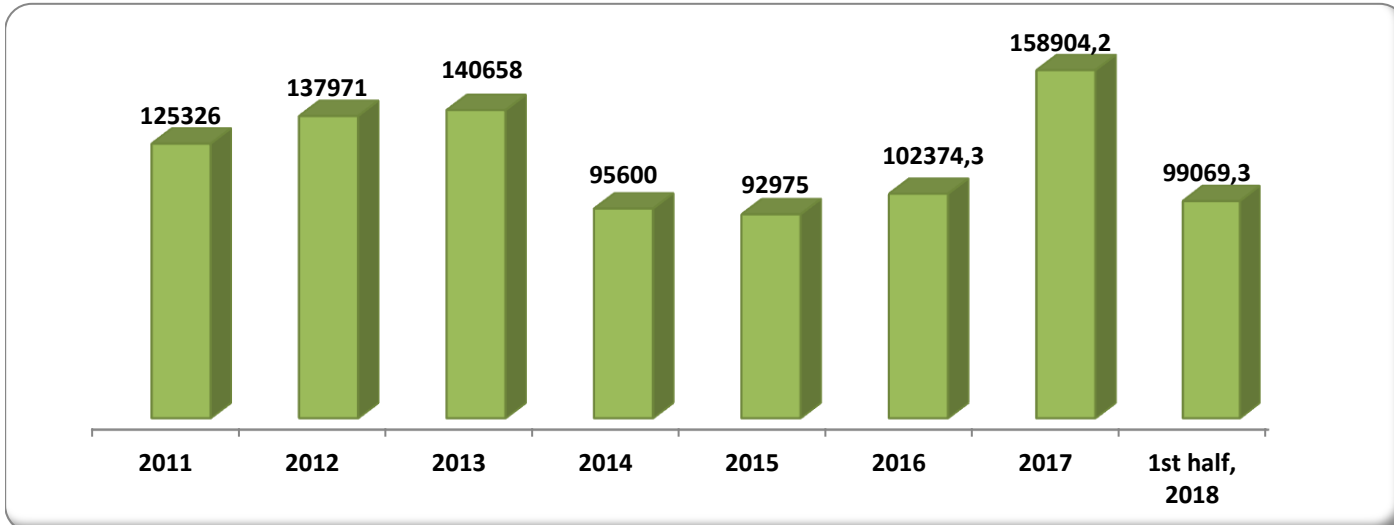
Source: www.nyse.com, www.londonstockexchange.com, www.hkex.com.hk, www.tmx.com, www.tsx.com, www.asx.com.au, www.set.or.th



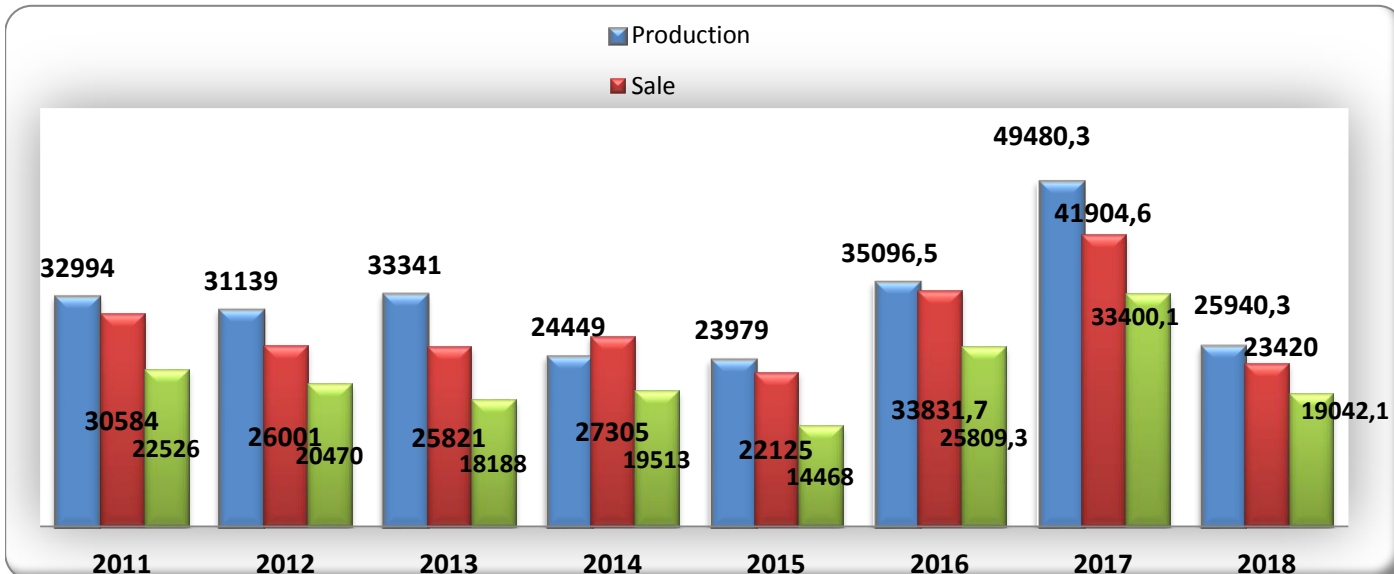


3. COAL STATISTICS

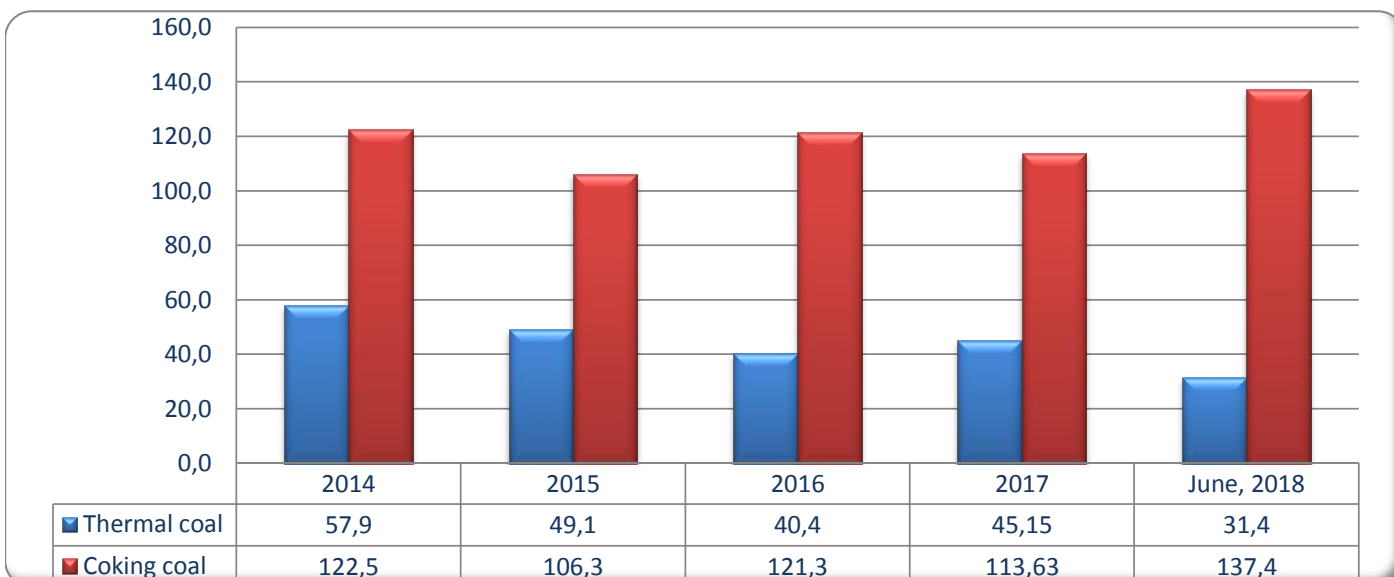
3.1. Striping, ths.m3



3.2. Coal production, sale and export, ths.t



3.3. Coal on the world market average price, US\$/t



Source: Data from Coal mining companies to MRPAM
 infomine.com, <http://sxcoal.com/site/index?lang=en>



3.3. Нүүрсний уурхайнуудын хөрс хуулалт, олборлолт, борлуулалт, экспорт, 2010-2018

	2011	2012	2013	2014	2015	2016	2017	1st half, 2018
Хөрс хуулалт /мян.м3/	125326	137971	140658	95600	92975	102374,3	158904,2	99069,3

	Production	Sale	Export
2011	32994	30584	22526
2012	31139	26001	20470
2013	33341	25821	18188
2014	24449	27305	19513
2015	23979	22125	14468
2016	35096,5	33831,7	25809,3
2017	49480,3	41904,6	33400,1
2018	25940,3	23420	19042,1

	2014	2015	2016	2017	June, 2018
Thermal coal	57,9	49,1	40,4	45,15	31,4
Coking coal	122,5	106,3	121,3	113,63	137,4

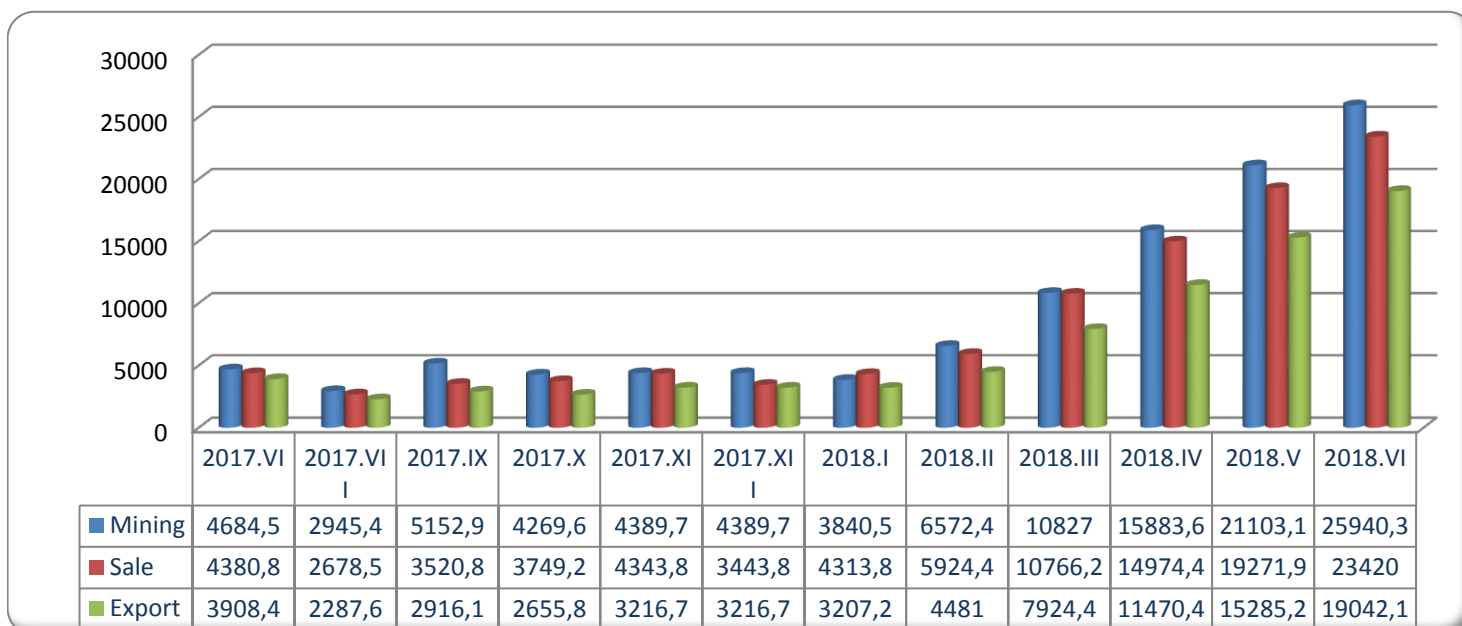
Эрчим хүчний нүүрс	\$/тн	75,0	60,0	56,6	49,1	49,1	40,4
Коксжих нүүрс	\$/тн	200,0	150,0	150,0	106,2	106,2	121,3



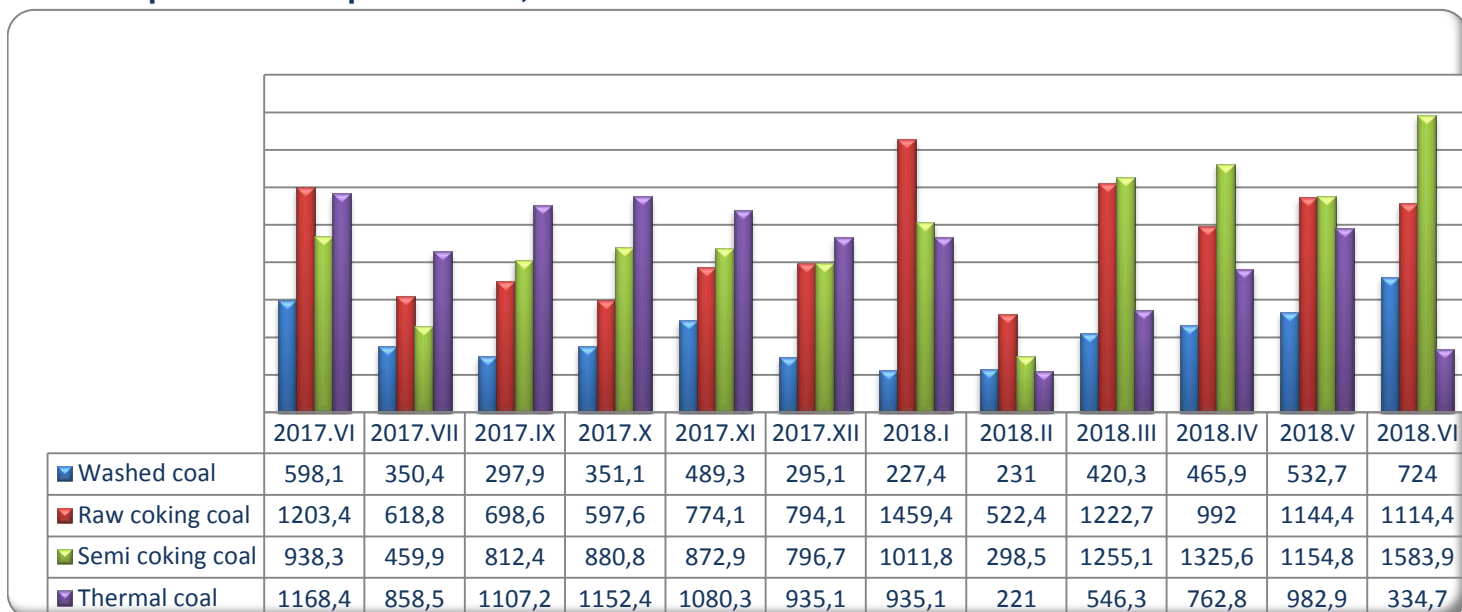
3.4. Stripping, mining, sale and export of Coal mines, Jan-First half, 2018

Type	Stripping /ths.m3/	Mining /ths.t/	Selling /ths.t/	Export /ths.t/
Total	82 248,2	21 103,1	19 271,9	15 285,2
Energy coal mines	12629,5	3 339,7	3 273,3	-
Export coal mines	68 032,0	17 507,2	12629,5	12629,5
Local coal mines	586,7	256,3	3 369,1	-

3.5. Coal mining, sale, and export, last 12 months



3.6. Composition of exported coal, last 12 months



Source: Data form Coal mining companies to MRPAM

	2017.VI	2017.VII	2017.VIII	2017.IX	2017.X	2017.XI	2017.XII	2018.I	2018.II	2018.III	2018.IV	2018.V	2018.VI
Mining	4684,5	2945	5153	4269,6	4390	4389,7	3841	6572,4	10827	15884	21103	25940	
Sale	4380,8	2679	3521	3749,2	4344	3443,8	4314	5924,4	10766	14974	19272	23420	
Export	3908,4	2288	2916	2655,8	3217	3216,7	3207	4481	7924	11470	15285	19042	

Багануур 3737
 Шивээ 1807
 Шарын 758,4
 Адуун 469,5
 Реджилл 33,8
 7657,9 6806 852,2
 эрчим орон/н

	2017.VI	2017.VII	2017.VIII	2017.IX	2017.X	2017.XI	2017.XII	2018.I	2018.II	2018.III	2018.IV	2018.V	2018.VI
Washed coking coal	598,1	350	298	351,1	489,3	295,1	227,4	231	420,3	465,9	532,7	724	
Semi coking coal	1203,4	619	699	597,6	774,1	794,1	1459	522,4	1223	992	1144	1114,4	
Thermal coal	938,3	460	812	880,8	872,9	796,7	1012	298,5	1255	1325,6	1155	1583,9	
	1168,4	859	###	1152,4	1080	935,1	935,1	221	546,3	762,8	982,9	334,7	



4. STATISTICS OF MINERAL LISENSSES AND AREA

4.1. Number of valid licenses and area by provinces

by July 05, 2018

№	Aimags and capital city	Total			Thereof:					
					Mining			Exploration		
		Number of Licenses	Area /ths.ha/	Percenta ge of total territory	Number of Licenses	Area /ths.ha/	Percenta ge of total territory	Number of Licenses	Area /ths.ha/	Percenta ge of total territory
1	Arkhangai	35	30,3	0,5	26	12,6	0,23	9	17,7	0,32
2	Bayan-Ulgii	71	228,8	5,0	27	12,9	0,28	44	215,9	4,72
3	Bayankhongor	171	469,6	4,1	87	67,0	0,58	84	402,7	3,49
4	Bulgan	118	183,4	3,8	69	34,9	0,72	49	148,5	3,05
5	Uvurkhangai	53	117,0	1,9	30	15,7	0,25	23	101,2	1,61
6	Govi-Altai	180	914,9	6,5	49	70,1	0,49	131	844,8	5,96
7	Govisumber	17	58,7	10,6	12	38,7	6,99	5	20,0	3,60
8	Darkhan Uul	81	16,2	5,0	68	9,6	2,94	13	6,6	2,03
9	Dornogovi	403	1664,0	15,2	175	209,8	1,92	228	1454,1	13,30
10	Dornod	177	564,6	4,6	70	56,6	0,46	107	508,0	4,11
11	Dundgovi	218	860,4	11,5	96	156,6	2,10	122	703,8	9,43
12	Zavhan	83	510,2	6,2	8	13,8	0,17	75	496,4	6,01
13	Umnugovi	213	1434,4	8,7	97	512,7	3,10	116	921,7	5,58
14	Orkhon	9	11,0	13,1	9	11,0	13,12	0	0,0	0,00
15	Sukhbaatar	104	447,7	5,4	62	50,5	0,61	42	397,2	4,82
16	Selenge	194	115,3	2,8	142	36,6	0,88	52	78,7	1,90
17	Tuv	454	476,3	6,4	308	145,8	1,97	146	330,5	4,47
18	Uvs	164	608,7	8,7	46	17,9	0,26	118	590,9	8,49
19	Ulaanbaatar	184	14,1	3,0	170	12,6	2,65	14	1,5	0,32
20	Khuvsgul	29	90,3	0,9	19	8,5	0,08	10	81,8	0,81
21	Khovd	125	389,2	5,1	32	12,3	0,16	93	376,9	4,96
22	Khentii	256	512,1	6,3	110	46,4	0,57	146	465,7	5,77
Total		3233	9717,1	6,2	1651	1552,5	0,99	1582	8164,65	5,20

The total area of Mongolia is 1.56 million hectares

Explanation: Some licenses are crossing the boundaries of more than one aimag, thus increasing the number of each aimag.

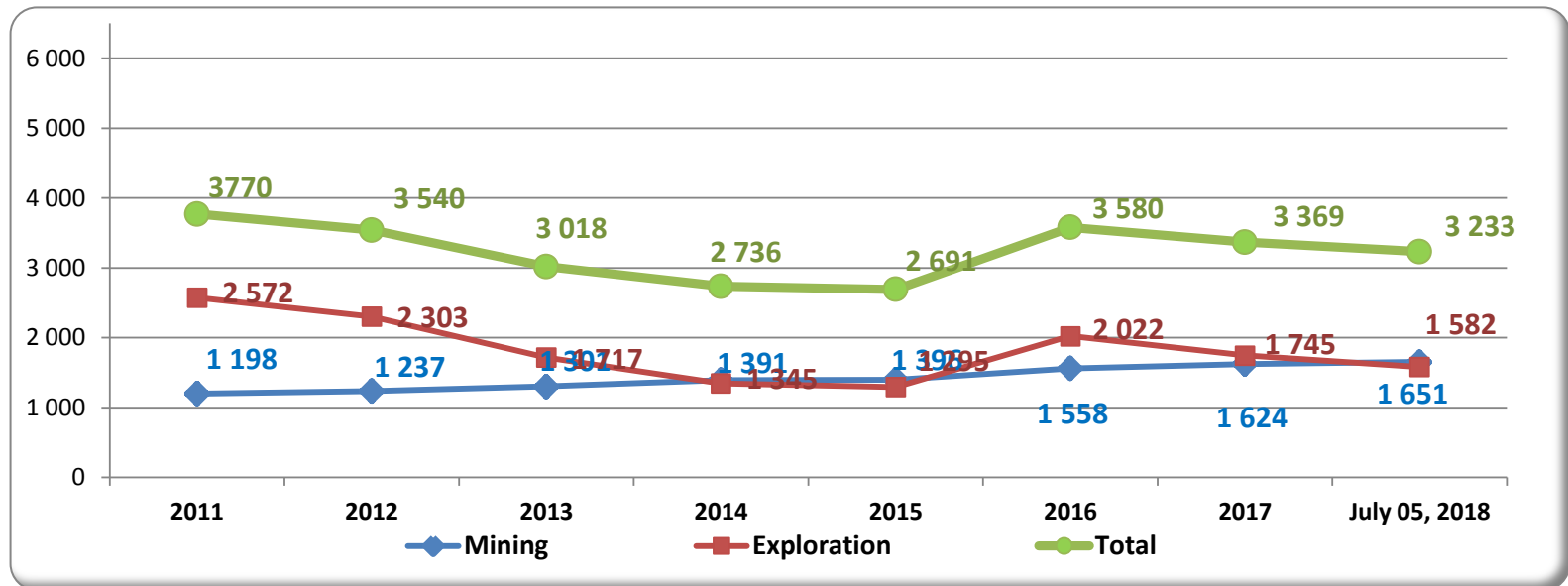


Нийт газар нутаг:	156934	
Архангай	5528510,24	5528,51024
Баян-Өлгий	4577342	4577,342
Баянхонгор	11549250,17	11549,25017
Булган	4867520,05	4867,52005
Өвөрхангай	6287557,52	6287,55752
Говь-Алтай	14181626,55	14181,62655
Говьсүмбэр	554029,9	554,0299
Дархан-Уул	326252,62	326,25262
Дорноговь	10935827,58	10935,82758
Дорнод	12351846,89	12351,84689
Дундговь	7466533,31	7466,53331
Завхан	8258527,82	8258,52782
Өмнөговь	16517762,78	16517,76278
Орхон	84025,28	84,02528
Сүхбаатар	8235104,68	8235,10468
Сэлэнгэ	4148484,36	4148,48436
Төв	7396939,45	7396,93945
Увс	6958517,86	6958,51786
Улаанбаатар	473538,27	473,53827
Хөвсгөл	10099485,68	10099,48568
Ховд	7601238,65	7601,23865
Хэнтий	8069371,63	8069,37163

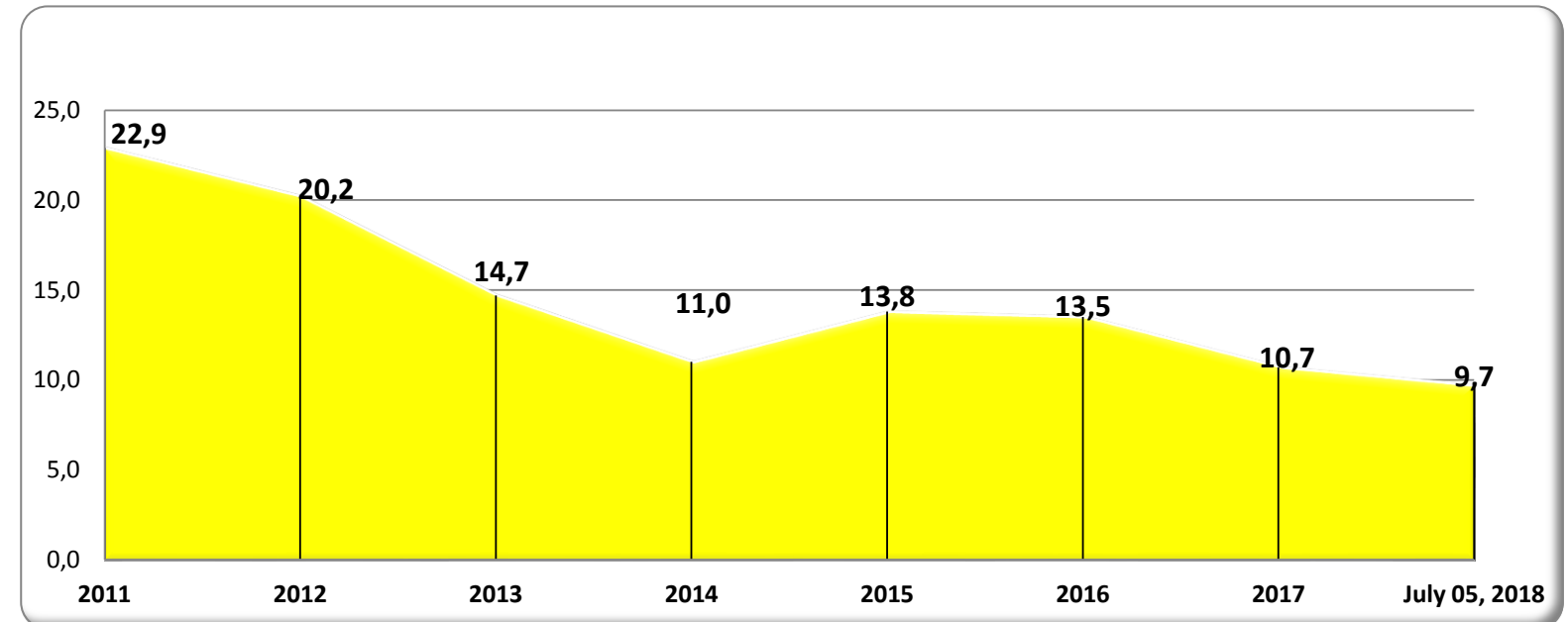
156469293,3



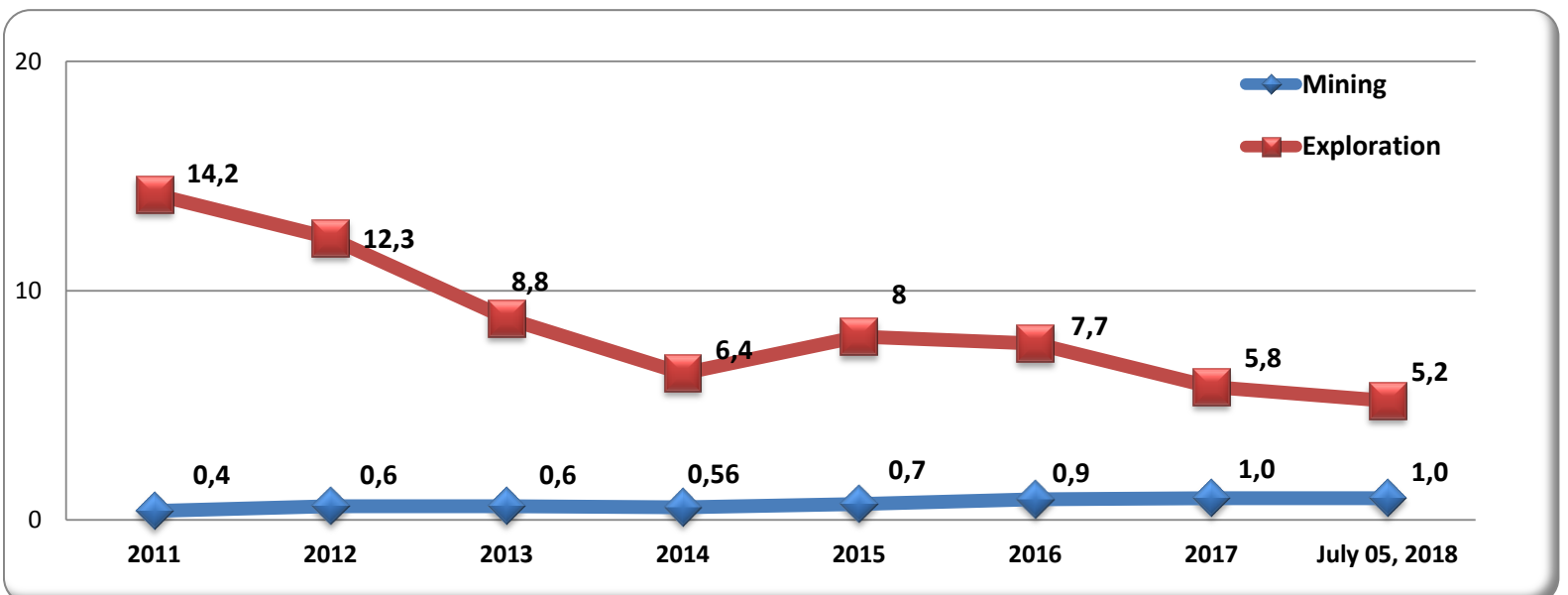
4.2. Number of valid licenses, 2011-July 05, 2018



4.3. Valid licensed area, million hectare, 2011-July 05, 2018



4.4. Percentage of total area, 2011-July 05, 2018



Notes: Exploration licenses stopped issuing since 2010.IV.20
Application for exploration licenses started to receive 2015.I.26

Хүчин төгөлдөр тусгай зөвшөөрлийн тоо, жилийн эцсийн байдлаар

	2011	2012	2013	2014	2015	2016	2017	July 05, 2018
Mining	1 198	1 237	###	1 391	1 396	1 558	1 624	1 651
Exploration	2 572	2 303	###	1 345	1 295	2 022	1 745	1 582
Total	3770	3 540	###	2 736	2 691	3 580	3 369	3 233

Хүчин төгөлдөр тусгай зөвшөөрөл бүхий талбай, сая. гектар, жилийн эцсийн байдлаар

	2011	2012	2013	2014	2015	2016	2017	July 05, 2018
Нийт	22,9	20,2	14,7	11,0	13,8	13,5	10,7	9,7

Нийт тусгай зөвшөөрөлтэй талбайн Монгол улсын нутаг дэвсгэрт эзлэх хувь

	2011	2012	2013	2014	2015	2016	2017	July 05, 2018
Mining	0,4	0,6	0,6	0,56	0,7	0,9	1,0	1,0
Exploration	14,2	12,3	8,8	6,4	8	7,7	5,8	5,2
Total	3770	12,9	9,4	2736	2691	8,6	6,8	6,2

4.5. Area registered in Geology and mining cadastre

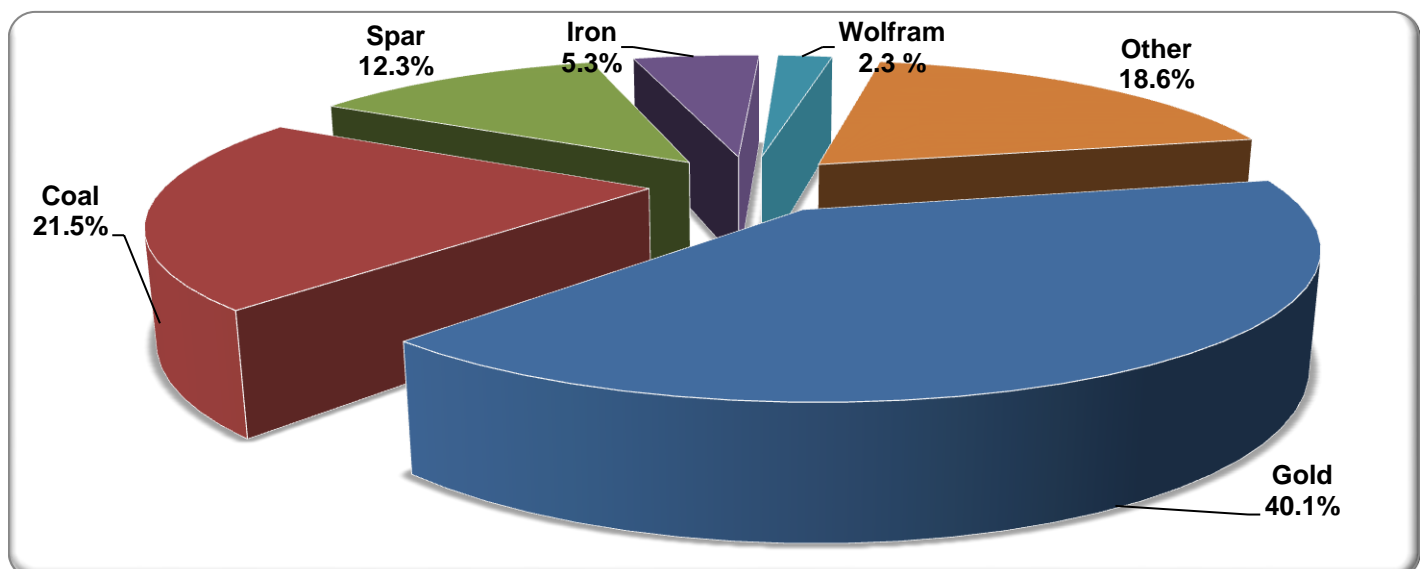
/Overlap/

by July 05, 2018

No	Name of area	Area /mln.hectare/	Percentage of total area
1	Valid mining licensed area	1,5	1,0%
2	Valid exploration licensed area	8,2	5,2%
3	State protected area	29,1	18,6%
4	Special purpose area	28,2	18,0%
5	Strategic deposit, government reserved area	39,2	25,1%
6	Settled area, border and railway strip area	1,1	0,7%
7	Other prohibited area	49,1	31,4%

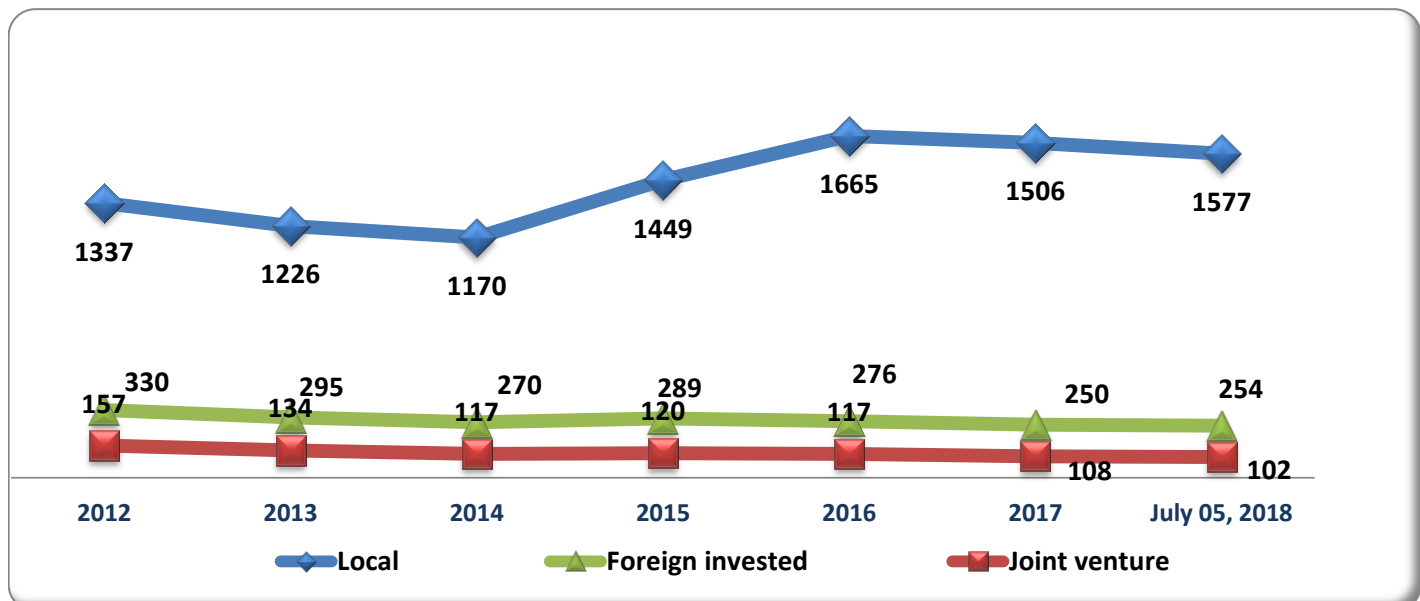
4.6. Mining licenses by Minerals

by July 05, 2018



4.7. Number of valid licensees

by July 05, 2018



Source: Computerized mining cadastre system, MRPAM



Ашигт малтмал ашиглалтын тусгай зөвшөөрлийн тоо, талбайн хэмжээ, ашигт малтмалын төрлөөр

	Gold	Coal	Spar	Iron	Wolfram	Other	Total
Хувиар	40,1	21,5	12,2	5,3	2,3	18,6	100
Тоо	558	299	171	74	32	259	1399

Хүчин төгөлдөр тусгай зөвшөөрөл эзэмшигчидийн тоо

	2012	2013	2014	2015	2016	2017	July 03, 2018
Local	1337	1226	1170	1449	1665	1631	1577
Foreign	330	295	270	289	276	259	254
Joint	157	134	117	120	117	105	102

Ашиглалтын	Галбаин хэмжээ
Нүүрс	756178,4
Алт	272551,4
Уран	53292,43
Зэс	138583,8
Төмөр	37503,58
Түг/тарх	1005,07
Бусад	67696,7

Ашиглалтын	Галбаин хэмжээ	Хувиар
Нүүрс	756178,4	56,9
Алт	272551,4	20,5
Уран	53292,43	4
Зэс	138583,8	10,4
Төмөр	37503,58	2,8
Түг/тарх	1005,07	0,4
Бусад	67696,7	5

Ашигт малтмалын төрөл		Ашиглалтын
		Тоо
Улсын хэмжээ		1510
1	Молибден	11
2	Молибден	2
3	Молибден	3
4	Молибден	1
5	Алт	503
6	Алт, Зэс	9
7	Алт, Кадми	1
8	Алт, Мөнгө	3
9	Алт, Мөнгө	1
10	Алт, Холим	3
11	Анар	1
12	Базальт	1
13	Бал чулуу	2
14	Бар/м	306
15	Бар/м, Цаг	1
16	Бар/м, Э/ц	1
17	Барий, Жо	1
18	Битум	2
19	Болор	2
20	Боржин	3
21	Висмут, Ж	1
22	Вольфрам	13
23	Вольфрам	2
24	Вольфрам 1	
25	Гөлтгөнө	14
26	Гялтгануур	1
27	Гянтболд	17
28	Давс	11
29	Давс, Мөс	2
30	Жонш	169
31	Зэс	13
32	Литий	1
33	Манган	4
34	Мөнгө	2
35	Мөнгө, Төл	1
36	Мөнгө, Хар	1
37	Мөсөн шүү	1
38	Никель, Нс	1
39	Нүүрс	280
40	Нүүрс, Ша	2
41	Нүүрс, Э/ц	2
42	Өнгөт мет	3

43	Перлит	1
44	Полиметал	3
45	Төмөр	69
46	Төмөр, Хол	1
47	Төмөр, Цай	2
48	Тугалга	11
49	У/биндэрьс	1
50	Уран	3
51	Фосфорит	2
52	Хар тугалг	2
53	Ховор мет.	7
54	Холимог м	9
55	Хөнгөн цаг	3
56	Хүдэр	3
57	Хүхэр	1
58	Цайр	6
59	Цеолит	5
60	Шатдаг заг	1
61	Э/шавар	6

Талбайн
хэмжээ
Гектар

1326811

13268,11

2862,25

6598,36

219,21

27255,37

76544

164,78

7003,78

2007,38

3578,53

86,29

32,39

3272,77

41704,3

713,16

39,33

76,07

345,54

135,54

120,87

33,49

2706,39

1008,16

83,6

2282,65

596,17

6169,35

322,71

769,27

21700,79

52900,52

4720,16

7507,04

37,03

53,13

182,78

991,03

573,29

719762,6

32781,68

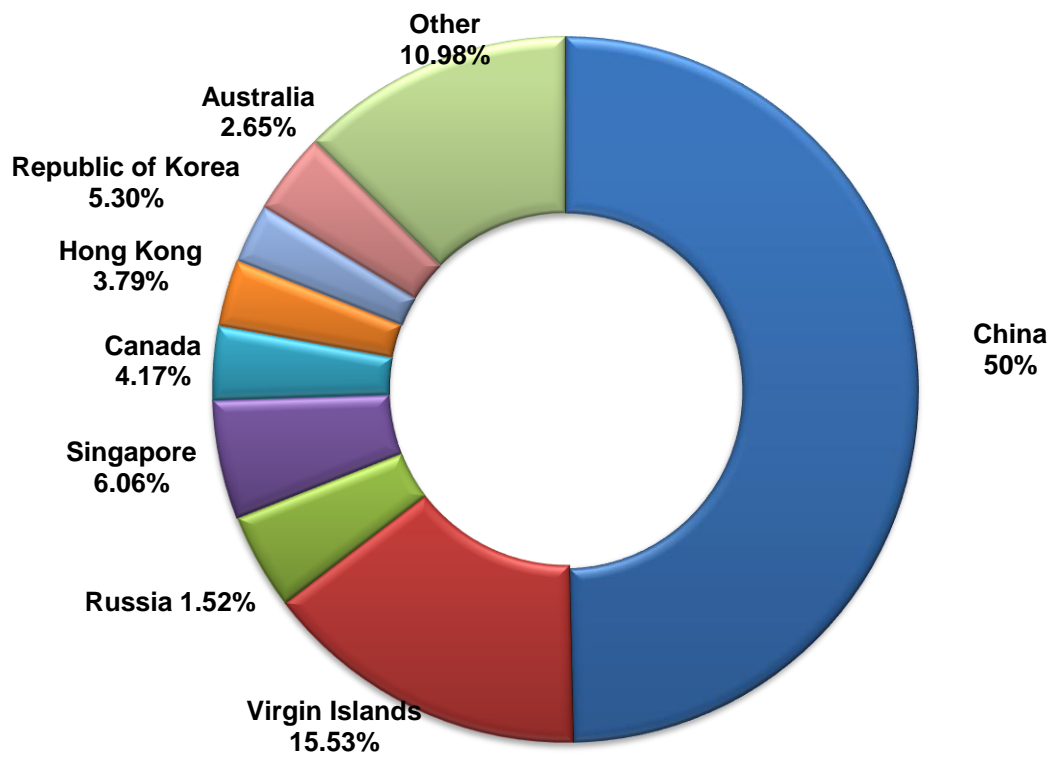
49,86

546,74

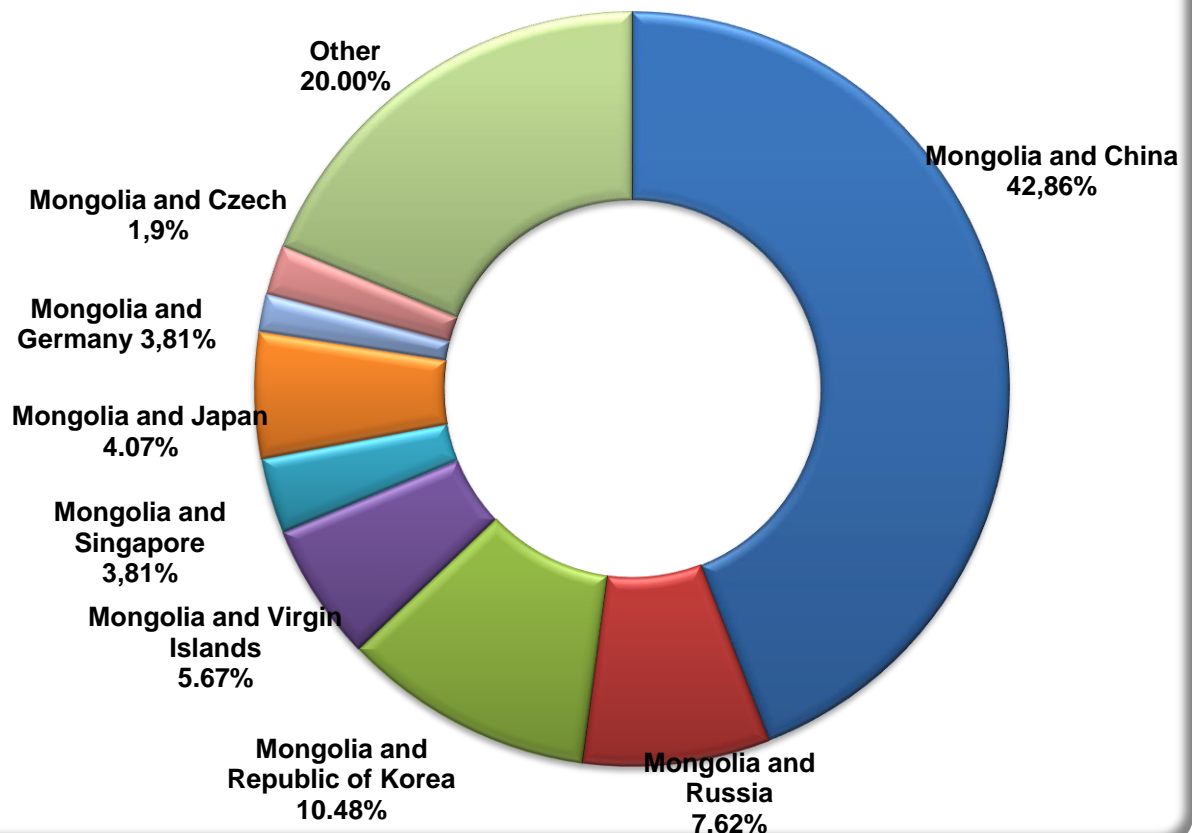
76,89
2406,81
35663,86
1257,34
529,23
3702,44
132,1
53292,43
60,66
449.21.
5018,37
18257,79
1370,88
496,85
192,31
4018,47
733,44
4919,05
342,6



4.8. Composition of foreign invested license holders by countries, by July 05, 2018



4.9. Composition of the joint venture license holders by countries



Source: Computerized mining cadastre system, MRPAM



гадаадын 100%

	Эзэмшигч	
		276
China	129	50,00
Virgin Islands	39	14,13
Republic of Korea	13	4,71
Singapore	16	5,80
Canada	10	3,62
Hong Kong	10	3,62
Russia	7	2,54
Australia	6	2,17
Бусад	29	10,51

хамтарсан

	Эзэмшигч	
		123
Mongolia and China	35	28,46
Mongolia and Russia	9	7,32
Mongolia and Republic of Korea	9	7,32
Mongolia and Virgin Islands	7	5,69
Mongolia and Singapore	5	4,07
Mongolia and Japan	5	4,07
Mongolia and Germany	4	3,25
Others	16	13,01

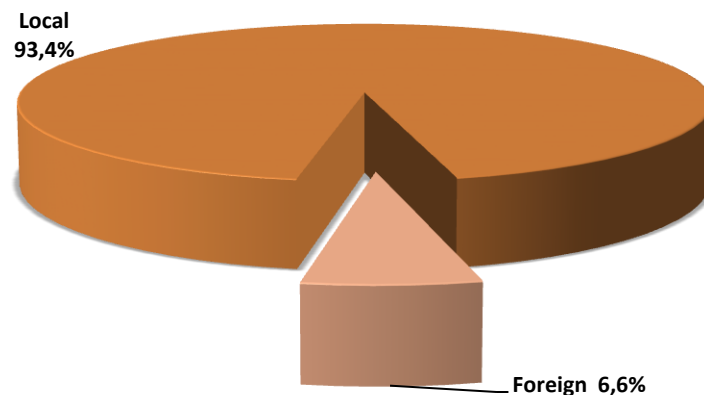
Valid unshuulj filder hiij oruulna



4.10. Origin of license holders

Name of Country	Holder		License		Area /hectare/	
	Тоо	Хувь	Тоо	Хувь	Гектар	Хувь
Total	1933	100,0%	3233	100,00%	9 717 138,6	100,00%
1 Mongolia	1577	0,8158303	2554	0,78997835	7274132,64	74,86%
2 China	176	0,0910502	237	0,07330653	497097,08	5,12%
3 Virgin Islands	43	0,0222452	110	0,03402413	380024	3,91%
4 South Korea	25	0,0129333	39	0,0120631	106651,99	1,10%
5 Сингапур	22	0,0113813	75	0,02319827	470599,58	4,84%
6 Hong Kong	13	0,0067253	28	0,00866069	188731,76	1,94%
7 Canada	12	0,006208	30	0,00927931	233767,19	2,41%
8 Russia	12	0,006208	14	0,00433034	7775,27	0,08%
9 Australia	7	0,0036213	8	0,00247448	38042,21	0,39%
10 Japan	7	0,0036213	63	0,01948655	213991,17	2,20%
11 Germany	6	0,003104	7	0,00216517	13864	0,14%
12 Holland	5	0,0025867	21	0,00649552	133376,99	1,37%
13 Luxemburg	4	0,0020693	8	0,00247448	20095,77	0,21%
14 Czech Republic	4	0,0020693	7	0,00216517	52526,28	0,54%
15 Great Britain	4	0,0020693	7	0,00216517	19669,24	0,20%
16 USA	3	0,001552	5	0,00154655	3203,59	0,03%
17 Ukraine	2	0,0010347	2	0,00061862	291,84	0,00%
18 Bulgaria	2	0,0010347	4	0,00123724	4784,6	0,05%
19 Bermud	2	0,0010347	3	0,00092793	7314,33	0,08%
20 Poland	1	0,0005173	1	0,00030931	1561,28	0,02%
21 Seychelles	1	0,0005173	1	0,00030931	36390,95	0,37%
22 Hungary	1	0,0005173	1	0,00030931	87,42	0,00%
23 Barbados	1	0,0005173	3	0,00092793	10039,97	0,10%
24 New Zealand	1	0,0005173	2	0,00061862	151,65	0,00%
25 Malaysia	1	0,0005173	2	0,00061862	2416,53	0,02%
26 Kazakhstan	1	0,0005173	1	0,00030931	551,23	0,01%

4.11. License holders by Investors, First half, 2018



Source: Computerized mining cadastre system, MRPAM

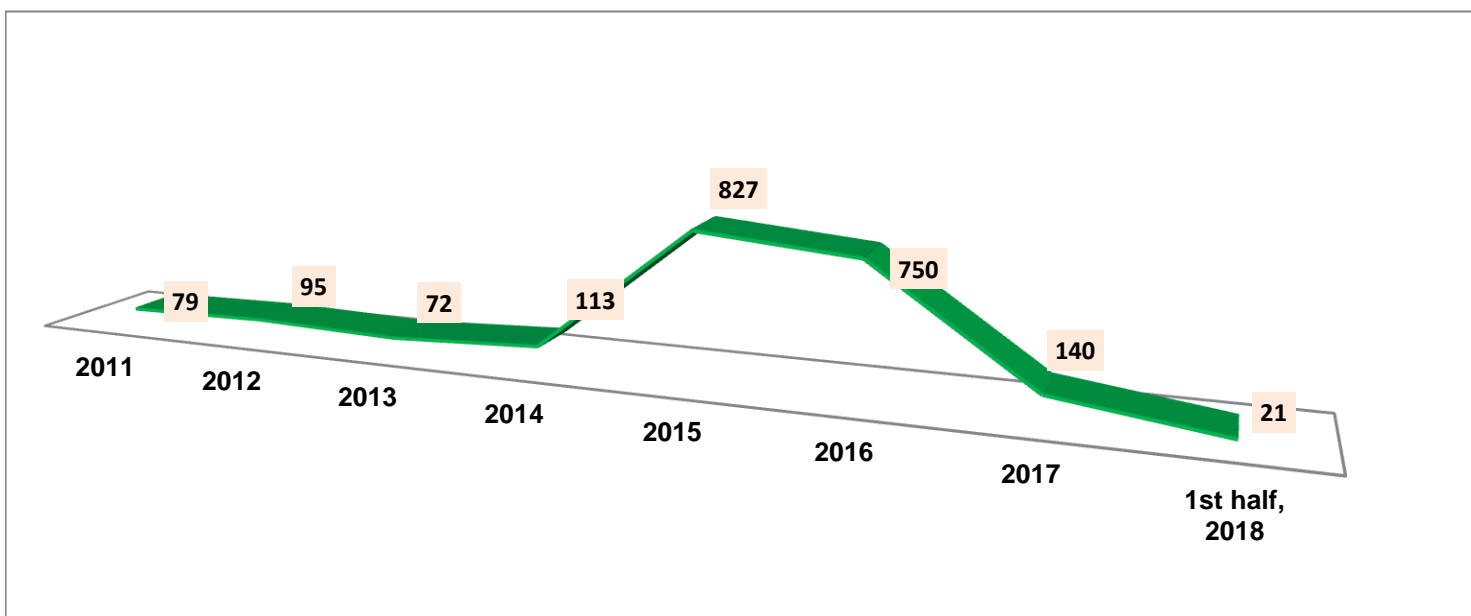




4.12. Changes in license registry, 2011-First half, 2018

Type of registration	2011	2012	2013	2014	2015	2016	2017	1st half, 2018
1. New issued	79	95	72	113	827	750	151	25
<i>Mining</i>	79	95	72	97	91	93	77	20
<i>Exploration</i>	0	0	0	2	697	629	41	5
<i>Selection processed</i>	0	0	0	14	39	28	33	0
2. Reversed	89	141	146	119	150	166	97	51
<i>Mining</i>	4	7	16	13	25	25	13	7
<i>Exploration</i>	85	134	130	106	125	141	84	44
3. Canceled	275	270	347	123	173	241	237	91
<i>Mining</i>	65	139	43	14	10	37	35	10
<i>Exploration</i>	210	131	304	109	163	204	202	81
4. Expired	225	175	253	289	179	124	176	92
5. Transferred	441	200	8	51	88	146	136	112
<i>Mining</i>	58	47	8	38	46	50	62	26
<i>Exploration</i>	383	153	0	13	42	96	74	86
6. Extended	997	601	317	444	336	167	162	254
7. Pledged	62	38	61	40	22	29	39	29
<i>Mining</i>	39	22	42	34	22	27	34	29
<i>Exploration</i>	23	16	19	6	0	2	5	0
8. Terminated pledges	28	42	31	29	24	16	39	15
<i>Mining</i>	8	15	29	24	19	12	38	14
<i>Exploration</i>	20	27	2	5	5	4	1	1
9. Refunded	94	56	15	11	19	35	26	31
<i>Mining</i>	29	16	9	7	10	15	19	10
<i>Exploration</i>	65	40	6	4	9	20	7	21

4.13. Number of issued licenses, First half, 2018



Source: Computerized mining cadastre system, MRPAM

2016.03.14

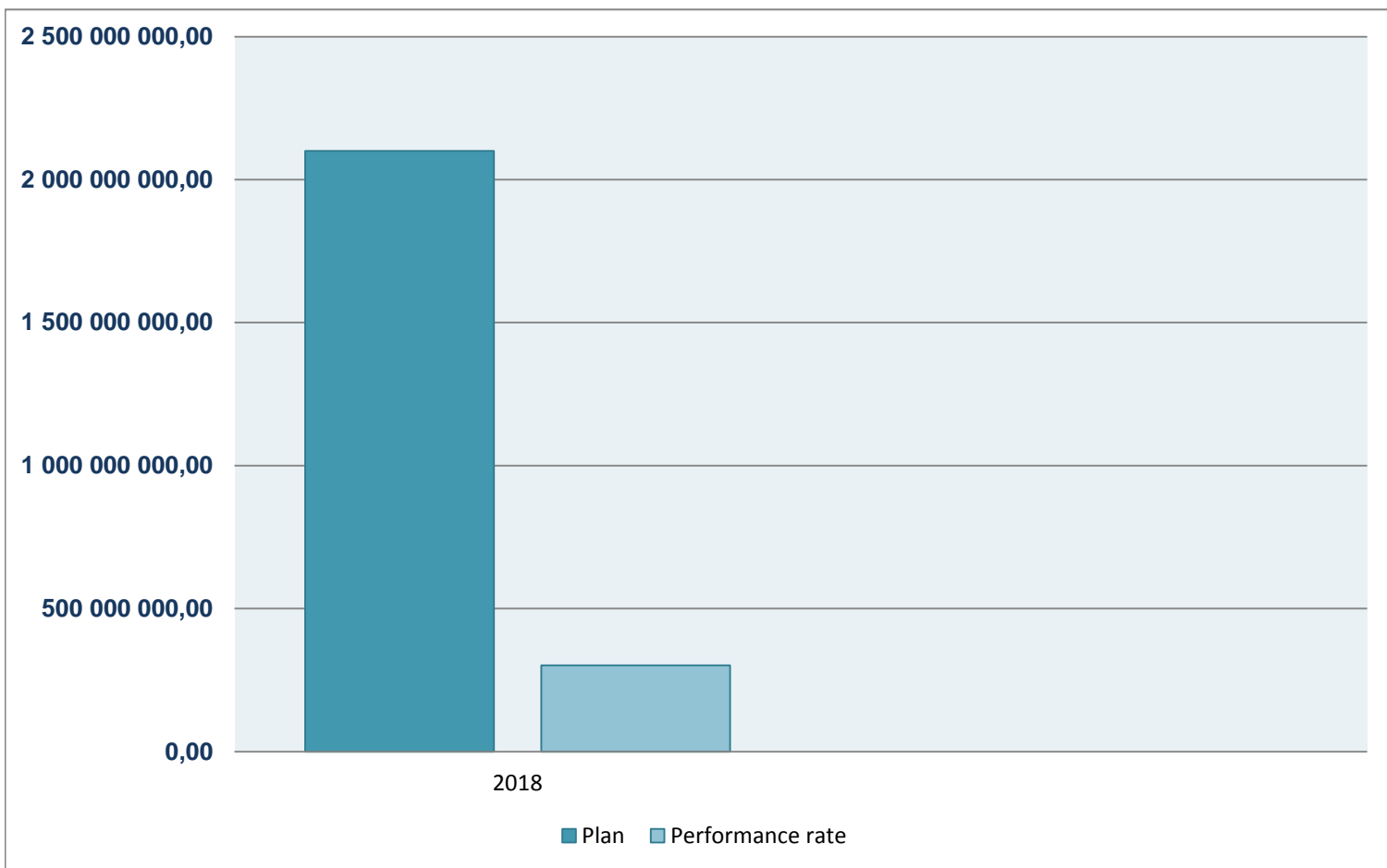
	2011	2012	2013	2014	2015	2016	2017	June, 2018
	678	601	285	421	364	750	486	
	79	114	72	113	91	166	57	25
	89	141	146	199	150	241	188	89
	4	7	16	11	25	124	126	99
	65	139	43	23	10		34	
	441	200	8	75	88		81	23

2011	2012	2013	2014	2015	2016	2017	1st half, 2018
79	95	72	113	827	750	140	21



5. Concentration of exploration expenditure

5.1. Reimbursement of deposits explored by the state budget, MNT



According to the reimbursement contract, MNT 2,100,000,000 was planned, out of it, MNT 301 077 703,62,00 was paid back by the First half of the 2018. /in increasing amount /



	2018
Plan	2 100 000 000,00
Performanc	301 077 703,62



6. State investment revenue

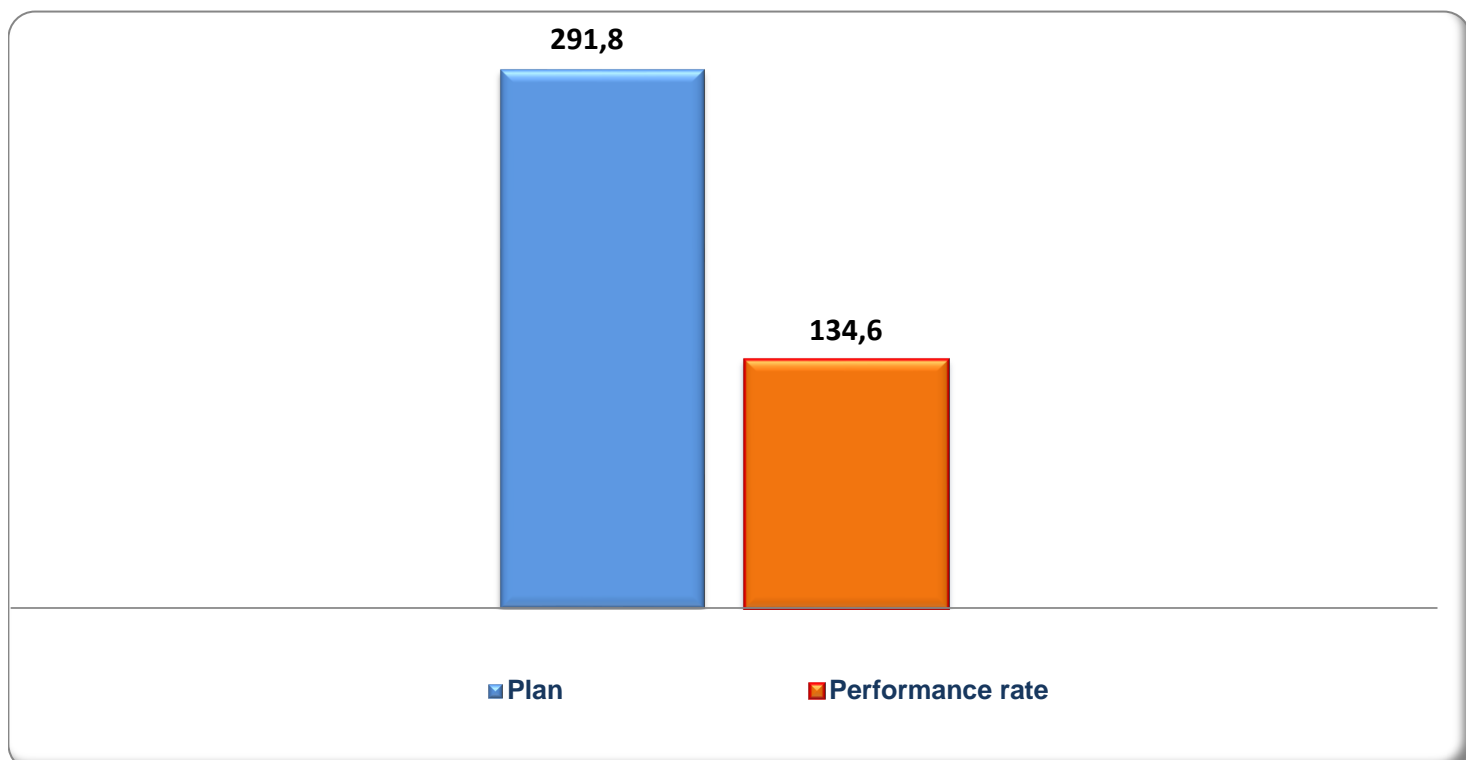
6.1. Budget revenue performance, MNT, First half, 2018

Income type		Plan of 2018	Performance rate, June, 2018	Performance rate, First half, 2018	Performance rate, 2018, %
№	State budget revenues	291 808 115 046	23 445 772 889	134 586 044 431	46,12%
1	License fee	37 000 000 000	2 802 529 018	16 259 166 520	43,94%
2	Reimbursement	2 100 000 000	20 423 825	321 074 704	15,29%
3	Petroleum revenues	223 448 349 919	20 416 224 510	114 734 247 094	51,35%
4	Other revenues /Service revenues/	6 109 765 127	206 595 536	3 271 556 114	53,55%
5	Own income /Selection of tender/	23 150 000 000	-	-	0%

Other revenues

№	Revenue type	Plan of 2018	Performance rate, June, 2018	Performance rate, 1st half, 2018	Performance rate, June, 2018, %
1	Service revenue /mineral resources/	3 717 273 977	158 455 536	1 276 675 345	34,34%
2	Service revenue /petroleum/	2 392 491 150	48 140 000	1 977 722 323	82,66%
3	Interest Income	0	-	17 158 446	-

6.3. Income plan and performance rate, bln.MNT, First half, 2018



Source: Administration and Management Division, MRPAM



30 739 176 588 76,3%

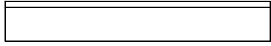
3 694 947 644 75,8%

139 451 949 14,6%

25 098 469 967 81,3%

Plan	Performance rate
291,8	134,6

138,0



3182,5 3320,6

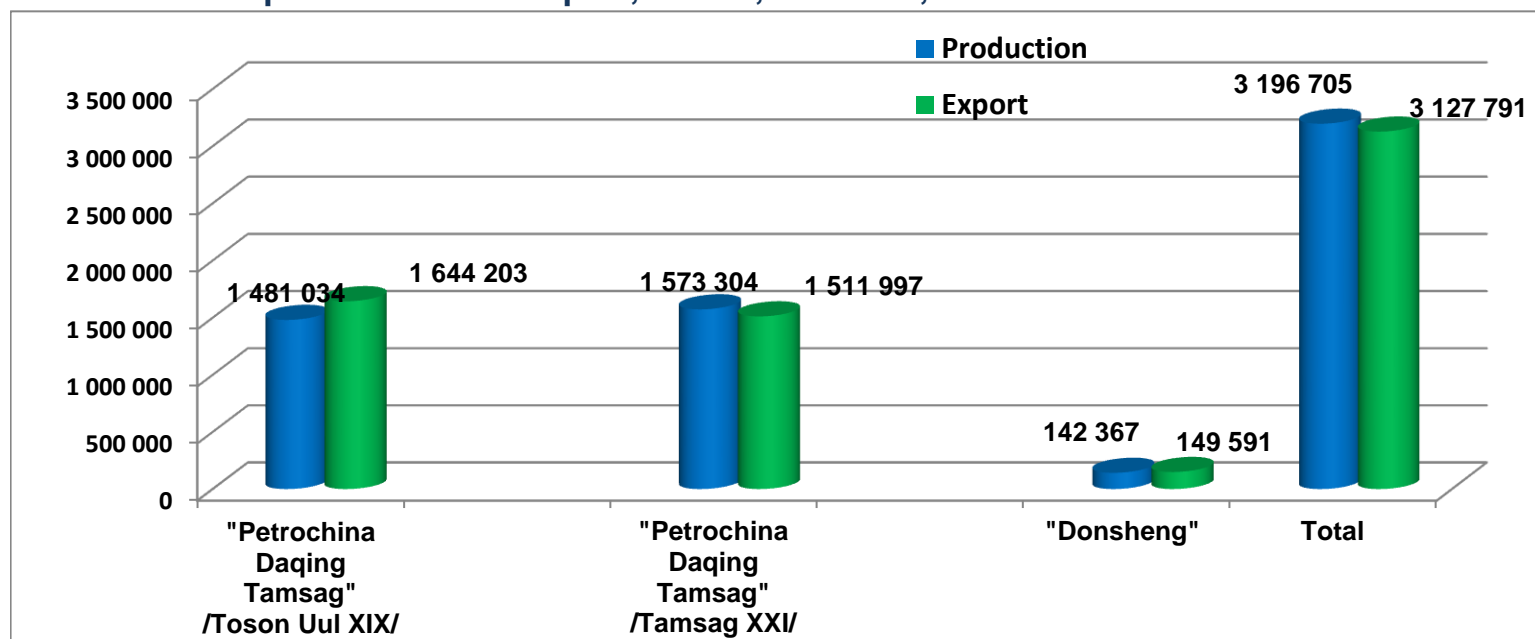
3785,4 3941,3

2340,2 3195,8



7. PETROLEUM STATISTICS

7.1. Petroleum production and export, barrel, First half, 2018



7.2. Petroleum production and export, by companies

No	Type, size	"Petrochina Daqing Tamsag" /Toson Uul XIX/	"Petrochina Daqing Tamsag" /Tamsag XXI/	"Donsheng"	Total
1	Production	1 481 034	1 573 304	142 367	3 196 705
2	Export	1 644 203	1 511 997	149 591	3 127 791

Source: Petroleum Production Division, MRPAM

7.3. Petroleum products importing, tn, First half, 2018

No	Country	Less than 90 octane	Over 90 octane	Diesel	TC-1	Other /тос, мазут, битум, хий/	Total
1	Russia	23 861,1	181 451,9	429 284,7	24 315,1	121 336,1	780 249,0
2	China	-	4 012,4	1 445,3	-	663,7	6 121,4
3	Republic of Korea	-	3 112,9	3 536,5	-	16 815,3	23 464,8
4	Other countries	-	-	-	-	30 891,6	30 891,6
Total		23 861,1	188 577,2	434 266,5	24 315,1	169 706,8	840 726,7

Source : Petroleum Product Division, MRPAM



7.5. The average retail price of petroleum products sold throughout Mongolia, June, 2018

/MNT/

Number	Zone name	Pillar centre	Province, city	Type							
				A-80		AI-92		AI-95		DT	
				June 19	June 26	June 19	June 26	June 19	June 26	June 19	June 26
1	Western region	Khovd, Uliastai	Bayan-Ulgii	1620	1650	1750	1750	-	-	1800	1800
2			Govi-Altai	1750	1750	1860	1860	-	-	2140	2140
3			Zavkhan	1820	1820	1920	1920	-	-	2260	2260
4			Uvs	1760	1760	1940	1940	-	-	2060	2060
5			Hovd	1820	1820	1940	1940	-	-	2200	2200
The average price of western region				1754	1760	1882	1882	-	-	2092	2092
6	Hangai region	Kharkhorin, Eerdenet	Arkhangai	1720	1720	1790	1790	2100	2100	2150	2150
7			Bayankhongor	1680	1680	1810	1810	-	-	2140	2140
8			Bulgan	1630	1630	1770	1770	2070	2070	2040	2040
9			Ovorkhangai	1720	1720	1790	1790	-	-	2100	2100
10			Orkhon	1620	1620	1760	1760	2070	2070	2040	2040
11			Selenge	1580	1580	1730	1730	2040	2040	2020	2020
12			Khuvsgul	1670	1700	1850	1850	2180	2180	2080	2080
The average price of hangai region				1660	1664	1786	1786	2092	2092	2081	2081
13	Central region	Zuunmod, Darkhan	Ulaanbaatar	1580	1580	1725	1725	2058	2045	2020	2020
14			Tuv	1520	1520	1740	1740	2040	2040	2020	2020
15			Darkhan	1580	1580	1730	1730	2040	2040	2010	2010
16			Govisumber	1640	1640	1780	1780	2050	2050	2100	2100
17			Dundgovi	1700	1700	1780	1780	2050	2050	2100	2100
18			Dornogovi	1650	1650	1780	1780	2050	2050	2080	2080
19			Umnugovi	1700	1700	1850	1850	2050	2050	2150	2150
20			Zamin Uud	1690	1690	1820	1820	2100	2100	2100	2100
The average price of central region				1633	1633	1776	1776	2055	2053	2073	2073
21	Eastern region	Choibalsan, Undurkhaan	Dornod	1680	1680	1830	1830	2100	2100	2100	2100
22			Sukhbaatar	1700	1750	1850	1850	2100	2100	2160	2160
23			Khentii	1700	1700	1780	1780	2050	2050	2100	2100
The average price of eastern region				1693	1710	1820	1820	2083	2083	2120	2120
State average price				1 685	1691	1 815	1815	2076	2076	2091	2091

The retail price main companies /in Ulaanbaatar city/

Number	Company name	A-80	AI-92	AI-95	Diesel
1	"Shunkhlai" LLC	1 580	1 730	2 040	2 010
2	"Sod Mongol" LLC	1 580	1 730	2 050	2 020
3	"Magnai trade" LLC	1 580	1 730	2 040	2 010
4	"Petrovis" LLC	1 580	1 750	2 050	1980-2100
Average price		1 580	1 735	2 045	2 013

Source: Aggregated data of the Petroleum Product Division submitted by the entities.



8. Mining and petroleum examination and testing central laboratory statistics

June, 2018

Type of coal	Name	Classification	Border name	Entities	Deposite name	Quality Indicators							
						TM	Adb	Vdaf	St,db	Qnet,ar	FSI	GI	
						Weight, %				kcal/k	Index		
Raw coal	Antracite	Antacite	Khangii	IKH GOBI Energy LLC	Mandakh nuur	5,1	11,0	8,1	0,46	7006	0,0	0,0	
	Coal	Coking	Khangii	COA LLC	Ail Bayan	2,1	6,7	24,0	0,63	7367	8,5	94,5	
			Gashuun sukhait	Endens	Baruun, zuun tsankhi	1,5	13,7	26,9	0,61	6172	7,0	84,6	
				Tavantolgoi	Tavan tolgoi 4rd orifice	1,5	15,1	28,4	0,67	6992	5,5	64,2	
			Weak coking	Gashuun sukhait	Tavantolgoi	Tavan tolgoi 8th orifice	1,2	23,2	33,5	1,37	5912	4,5	50,2
		Shivee khuren		Uush zoos	Khuren shand	2,5	10,0	39,3	1,04	6561	4,5	68,4	
				Tsagaan uvuljuu	Baruun noyon uul	-	-	-	-	-	-	-	-
				SGS LLC	Чинхуа мак	3,5	4,0	32,1	0,65	7319	6,0	74,3	
		Chinkhua Mak LLC		SGS	-	-	-	-	-	-	-	-	
		Mak LLC		Mogoin gol	1,5	13,0	32,8	1,29	7532	9,0	99,7		
		Zamiin Uud			Bor khul	-	-	-	-	-	-	-	
		Non-coking coking	Khangii	COA LLC	Ail Bayan	1,1	38,4	26,4	0,33	5827	0,0	0,0	
			Gashuun sukhait	Tavan tolgoi	ITT Energy	4,5	24,6	29,9	0,56	5593	0,0	0,0	
				Endens	Tavan tolgoi energy	1,2	33,3	33,9	1,04	5451	1,0	15,6	
			Shivee khuren	Usukh zoog	Khuren shand	5,9	11,2	35,6	0,58	6250	0,0	0,0	
				Mak XXK	Nariin sukhait	12,8	6,9	44,7	0,65	5310	0,0	0,0	
				Chinkhua Mak LLC		-	-	-	-	-	-	-	
	Gavkhiant ord			Zangat Uul	-	-	-	-	-	-	-		
	Other	Zamiin Uud	Chingis Khar Alt LLC	Dalan Chkha	1,7	21,0	20,1	1,70	4718	0,0	0,0		
			Shtain coal	Dalan Shtain	4,7	22,2	45,5	1,23	5062	0,0	0,0		
			CIG LLC	Dalan FShR	26,8	9,3	43,1	1,88	3637	0,0	0,0		
			Friendship resource LLC	Bayantsogt	-	-	-	-	-	-	-		
	Brown coal	Bichigt	Erdeniin bosgo LLC	Khuut	-	-	-	-	-	-	-		
Circon geology LLC			Ukhaa khudag	0,8	22,6	18,7	0,55	6032	6,0	70,3			
Washed coal	Coal	Coking	Gashuun sukhait	Energy resource	Khushuut	-	-	-	-	-	-		
			Yarant	Mo and Co LLC	Ukhaa khudag	8,4	8,6	25,8	0,57	7406	8,0	86,4	
		Weak coking	Gashuun sukhait	Tumen zaag LLC	SGS	-	-	-	-	-	-		
			Noncoking	Gashuun sukhait	Energy resource LLC	-	-	-	-	-	-		
Cox	27,04-0010	Gashuun sukhait		Coke	0,1	14,0	1,2	0,60	6203	0,0	0,0		

Source: Mining and Petroleum Central Laboratory





Mineral Resources and Petroleum Authority of Mongolia