



# Informe anual 2023

de la Cámara Minera de México  
LXXXVI Asamblea General Ordinaria

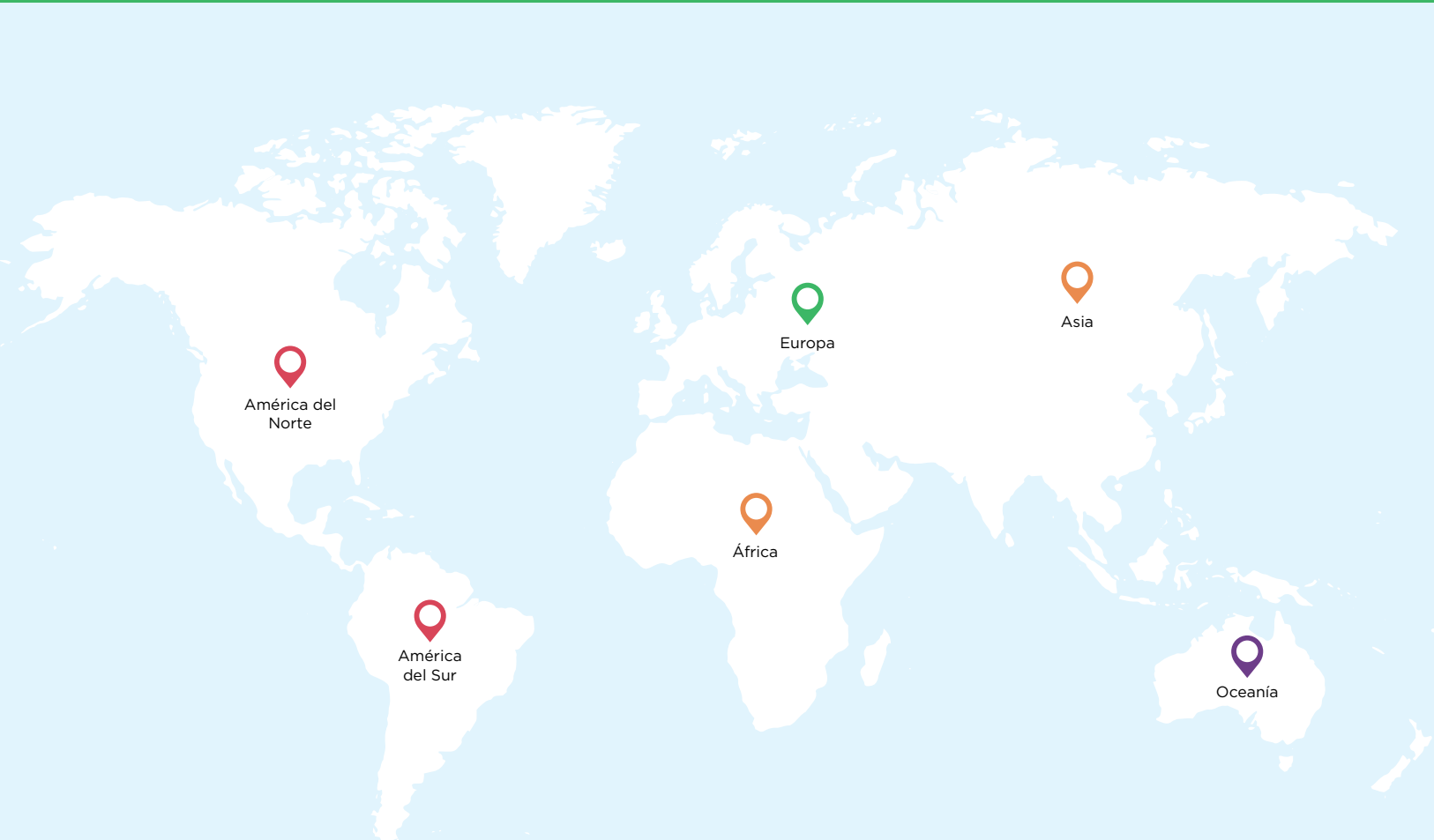


# MINERÍA COMPETITIVA

Estadísticas



# PARTICIPACIÓN DE MÉXICO EN LA PRODUCCIÓN MINERA MUNDIAL EN 2022



**Plata**  
1° Lugar  
(24.22%)

**Plomo**  
4° Lugar  
(6.05%)

**Molibdeno**  
5° Lugar  
(6.34%)

**Zinc**  
7° Lugar  
(5.96%)

**Caolín**  
11° Lugar  
(0.50%)

**Fierro**  
17° Lugar  
(0.42%)

**Fluorita**  
2° Lugar  
(11.74%)

**Celestita**  
4° Lugar  
(6.42%)

**Diatomita**  
6° Lugar  
(3.94%)

**Yeso**  
8° Lugar  
(3.51%)

**Manganeso**  
11° Lugar  
(1.14%)

**Arena Silica**  
19° Lugar  
(0.71%)

**Sulfato de Sodio**  
3° Lugar  
(4.80%)

**Sulfato de Magnesio**  
5° Lugar  
(2.61%)

**Cadmio**  
6° Lugar  
(4.91%)

**Oro**  
9° Lugar  
(3.42%)

**Feldespatos**  
14° Lugar  
(1.14%)

**Fosforita**  
23° Lugar  
(0.72%)

**Wollastonita**  
3° Lugar  
(8.62%)

**Barita**  
5° Lugar  
(4.07%)

**Sal**  
7° Lugar  
(3.06%)

**Cobre**  
10° Lugar  
(3.37%)

**Grafito**  
16° Lugar  
(0.14%)

## VOLUMEN Y VALOR DE LA PRODUCCIÓN MINERO-METALÚRGICA, 2021-2022

PRODUCTOS	VOLUMEN (Toneladas)		VAR	VALOR (Miles de pesos)		VAR
	2021	2022	2022/2021 %	2021	2022	2022/2021 %
<b>TOTAL</b>				334,782,290.2	316,955,704.8	-5.3
<b>I.- METALES PRECIOSOS<sup>1/</sup></b>				163,625,827.7	152,766,417.7	-6.6
Oro (Kg)	80,989	83,481	3.1	95,193,087.9	97,099,046.2	2.0
Plata (Kg)	4,175,955	3,941,329	-5.6	68,432,739.8	55,667,371.5	-18.7
<b>II.- METALES INDUSTRIALES NO FERROSOS<sup>1/</sup></b>				134,380,410.7	123,323,757.8	-8.2
Plomo	182,230	142,774	-21.7	8,201,756.4	6,172,182.4	-24.7
Cobre	472,767	486,076	2.8	92,889,435.8	86,228,654.7	-7.2
Zinc	395,066	319,438	-19.1	24,346,660.3	22,474,970.0	-7.7
Bismuto	0	0	-	0.0	0.0	-
Cadmio	1,051	1,174	11.7	51,753.3	58,065.0	12.2
Selenio	135	141	4.4	61,769.0	59,017.5	-4.5
Molibdeno	16,319	15,496	-5.0	8,829,036.0	8,330,868.3	-5.6
<b>III.- METALES Y MINERALES SIDERÚRGICOS</b>				18,500,037.3	18,643,145.2	0.8
Carbón No Coquizable <sup>2/</sup>	4,568,553	4,632,921	1.4	2,726,444.4	2,764,681.4	1.4
Coque <sup>2/</sup>	484,223	479,800	-0.9	2,736,718.6	2,689,827.1	-1.7
Pellets de Hierro <sup>1/</sup>	6,807,477	6,799,766	-0.1	12,080,511.8	12,012,259.3	-0.6
Manganeso <sup>1/</sup>	220,560	220,745	0.1	956,362.5	1,176,377.4	23.0
<b>IV.- MINERALES NO METÁLICOS<sup>2/</sup></b>				18,276,014.4	22,222,384.1	21.6
Azufre <sup>3/</sup>	176,321	289,125	64.0	364,248	588,900.3	61.7
Grafito	1,778	1,976	11.1	11,344	12,570.1	10.8
Barita	320,642	305,270	-4.8	1,010,089	997,422.4	-1.3
Dolomita	10,070,638	10,287,326	2.2	2,252,002	2,329,839.4	3.5
Fluorita	1,007,118	1,000,626	-0.6	3,701,357	4,504,038.2	21.7
Caolín	223,332	227,798	2.0	730,136	744,564.8	2.0
Arena Sílica	2,664,642	4,038,190	51.5	1,633,426	2,475,410.5	51.5
Yeso	6,386,777	6,558,087	2.7	1,067,190	1,093,902.5	2.5
Fosforita	456,335	441,704	-3.2	783,606	845,237.7	7.9
Wollastonita	102,711	84,713	-17.5	432,362	346,632.0	-19.8
Celestita	21,351	33,787	58.2	22,502	31,008.0	37.8
Feldespató	372,102	494,671	32.9	320,752	426,406.4	32.9
Sal	7,644,755	8,659,668	13.3	2,953,765	3,487,504.3	18.1
Diatomita	160,956	164,001	1.9	582,699	593,551.6	1.9
Sulfato de Sodio	762,854	764,189	0.2	2,190,466	3,402,129.2	55.3
Sulfato de Magnesio	64,195	66,498	3.6	220,072	343,266.7	56.0

### Notas:

1./ Contenido metálico.

2./ Volumen del mineral.

3./ Obtenido de la refinería del petróleo crudo.

La suma de los parciales puede no coincidir con los totales debido al redondeo.

El valor de la producción para los metales excepto para el selenio y pellet de hierro, se obtiene con las cotizaciones internacionales; para los minerales no metálicos, el valor de la producción se obtiene con los precios del mercado nacional.

Fuente: INEGI.

PRODUCTOS	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>METALES PRECIOSOS</b>									
Oro (Kg)	21,324	20,406	21,825	30,357	38,962	43,710	50,818	62,400	79,376
Plata	2,748	2,569	2,569	2,894	2,970	3,135	3,236	3,554	4,410
<b>METALES INDUSTRIALES NO FERROSOS</b>									
Plomo	138,707	139,348	118,484	134,388	135,025	137,133	141,173	143,838	192,062
Cobre	329,573	355,653	405,539	429,042	334,129	337,527	246,593	240,648	270,136
Zinc	446,104	413,991	426,361	476,307	479,379	452,012	453,588	489,766	570,004
Molibdeno	3,428	3,524	3,731	4,245	2,519	6,491	7,812	10,167	10,849
<b>METALES Y MINERALES SIDERÚRGICOS</b>									
Carbón Mineral	6,370,872	6,648,257	6,450,594	9,940,326	10,882,685	11,886,757	10,402,658	9,496,189	9,240,569
Fierro	6,577,434	8,182,406	8,825,155	9,548,619	9,614,623	10,916,437	11,688,107	11,680,000	13,998,273
Manganeso	88,358	114,550	135,893	132,872	124,417	152,446	169,908	118,578	174,761
<b>MINERALES NO METÁLICOS</b>									
Azufre	877,035	1,051,968	1,125,591	1,016,822	1,073,567	1,029,736	1,040,546	1,114,028	993,375
Grafito	13,885	8,730	14,769	12,357	11,773	9,900	7,229	5,015	6,628
Barita	163,620	287,451	306,668	268,657	199,605	185,921	140,066	151,791	143,225
Dolomita	457,665	565,896	1,158,929	1,308,977	1,282,590	1,123,225	1,233,993	982,650	1,499,744
Fluorita	622,477	756,258	842,698	875,450	936,433	933,361	1,057,649	1,045,940	1,067,386
Caolín	68,890	28,272	16,241	32,648	18,852	86,784	85,092	78,086	120,094
Arena Silica	1,778,714	1,689,042	2,055,940	2,120,878	2,661,770	2,950,438	2,779,075	2,483,605	2,207,650
Feldespato	332,101	346,315	364,166	373,411	459,209	438,696	445,519	347,510	398,849
Yeso	6,703,109	6,864,890	9,221,458	6,251,968	6,075,892	6,918,973	6,933,279	5,756,936	3,559,579
Fosforita	4,764	5,500	350	350	7,500	47,721	969,094	1,421,823	1,507,402
Sal	7,801,948	7,546,987	8,565,520	9,507,623	8,377,771	8,032,273	8,808,714	7,445,025	8,430,562
Wollastonita	42,756	31,234	28,224	27,132	44,280	50,809	46,844	29,728	46,548
Celestita	94,015	130,329	87,610	110,833	128,321	96,902	29,621	36,127	31,429
Diatomita	62,322	67,801	59,818	62,132	62,948	82,519	128,536	80,807	91,710
Sulfato de Sodio	551,500	586,100	608,000	607,000	614,000	605,000	618,000	606,000	620,000
Sulfato de Magnesio	22,580	27,100	28,100	27,900	33,000	33,900	43,053	34,700	39,400

**Notas:**

Arena silica incluye arena para vidrio, cuarzo y silicosos.

Azufre incluye la extracción minera y el obtenido en la refinación de petróleo crudo.

Año con mayor producción en el periodo

Fuente: INEGI.

## VOLUMEN DE LA PRODUCCIÓN MINERA NACIONAL DURANTE EL PERIODO DE 2002-2022

(Toneladas)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
88,649	102,802	119,774	117,771	134,759	132,413	126,820	118,359	108,985	110,361	124,776	148,502
4,777	5,358	5,821	5,766	5,955	5,408	5,815	6,049	5,840	5,605	6,097	6,630
223,717	238,091	253,361	250,462	263,772	241,271	243,022	240,304	259,457	260,390	272,231	272,988
443,621	500,275	480,124	515,025	594,451	766,129	742,246	751,005	768,542	732,863	734,137	753,885
631,859	660,349	642,542	659,878	786,774	661,188	671,444	690,895	676,677	688,461	742,926	744,341
10,787	11,366	12,562	14,370	11,327	11,896	13,985	15,149	16,890	18,562	16,319	15,496
13,718,159	13,656,051	13,065,353	13,453,540	7,492,620	8,130,459	7,279,817	6,971,434	5,625,943	3,530,398	6,231,583	5,963,306
12,805,778	14,915,941	18,839,574	16,627,920	13,461,932	12,089,682	11,712,533	12,172,621	11,561,771	9,376,627	9,116,275	9,190,282
170,935	188,294	211,559	235,686	217,466	205,645	211,510	209,023	218,902	218,606	220,560	220,745
959,488	1,010,875	1,025,841	992,939	858,127	673,285	551,218	442,657	364,967	264,078	176,321	289,125
7,348	7,520	7,024	9,160	6,524	3,839	1,746	4,130	1,591	1,461	1,778	1,976
134,727	139,997	119,402	130,914	271,697	150,970	359,912	366,234	378,295	372,262	320,642	305,270
2,785,314	2,111,114	8,756,485	8,277,102	7,703,934	7,236,944	6,059,970	7,561,140	6,346,295	9,165,515	10,070,638	10,287,326
1,206,907	1,237,091	1,210,477	1,109,721	624,574	655,255	724,380	1,182,058	1,231,465	914,597	1,007,118	1,000,626
120,003	163,148	379,110	342,917	155,513	259,551	279,225	143,156	122,431	236,033	223,332	227,798
2,542,143	3,592,813	2,937,949	2,548,336	1,750,548	2,398,971	2,355,909	2,511,246	2,671,422	2,514,378	2,664,642	4,038,190
382,497	380,441	164,484	150,726	159,372	122,176	233,050	209,770	304,084	318,120	372,102	494,671
3,838,348	4,692,510	5,090,863	5,495,594	5,456,829	5,402,691	5,837,419	5,819,046	5,779,061	5,811,182	6,386,777	6,558,087
1,690,606	1,724,662	2,217,481	1,733,479	1,929,439	2,909,266	1,925,870	741,678	558,107	577,152	456,335	441,704
8,769,140	8,730,247	9,461,320	10,250,239	9,368,089	8,906,567	8,671,281	9,029,147	8,667,883	8,086,044	7,644,755	8,659,668
47,523	55,204	57,302	54,579	57,451	63,683	87,562	83,620	100,897	77,665	102,711	84,713
40,669	46,190	67,778	64,931	79,022	33,230	40,699	35,489	39,215	38,304	21,351	33,787
84,231	84,537	87,463	87,849	89,810	96,686	96,374	92,700	92,635	144,102	160,956	164,001
630,500	638,000	641,500	637,141	732,569	750,021	753,494	780,606	774,163	747,941	762,854	764,189
45,598	44,700	45,281	46,942	47,210	55,377	57,092	54,787	62,222	62,584	64,195	66,498

PRODUCTOS	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>METALES PRECIOSOS</b>									
Oro (Kg)	23,594	22,177	21,824	26,782	35,899	39,355	50,365	51,393	72,596
Plata (Kg)	3,146,257	2,945,710	2,569,477	2,565,586	2,413,147	2,351,570	2,668,028	2,693,265	3,499,470
<b>METALES INDUSTRIALES NO FERROSOS</b>									
Plomo	138,749	144,297	110,931	121,669	120,450	89,838	100,725	100,361	158,206
Cobre	314,820	303,765	352,286	373,252	327,536	335,502	268,620	227,750	237,609
Zinc	431,662	412,255	374,428	427,061	432,347	426,509	397,306	384,478	518,429
Antimonio	155	434	503	565	778	414	380	74	71
Arsénico	1,946	1,729	1,828	1,664	1,595	513	ND	0	0
Bismuto	1,126	1,064	1,014	970	1,186	1,170	1,132	854	982
Estaño	9	21	24	17	25	19	15	0	0
Cadmio	1,389	1,638	1,618	1,627	1,399	1,605	1,550	1,510	1,464
Selenio	0	0	0	0	0	0	0	0	62
Titanio	940	0	0	0	0	0	0	0	0
<b>METALES Y MINERALES SIDERÚRGICOS</b>									
Coque	1,451,091	1,462,106	1,445,052	1,491,847	1,569,561	1,536,325	1,547,391	1,315,444	1,648,439
Hierro (Pellets)	5,965,427	6,759,198	6,889,538	7,012,306	6,589,586	7,323,121	7,725,959	7,073,440	7,931,194

**Notas:**

ND = Información No disponible.

Año con mayor producción en el periodo

Fuente: INEGI.

## VOLUMEN DE LA PRODUCCIÓN MINERO-METALÚRGICA NACIONAL DURANTE EL PERIODO DE 2002-2022

(Toneladas)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
84,118	96,650	97,967	98,166	123,364	116,924	100,989	91,237	73,451	71,703	80,989	83,481
4,150,347	4,496,393	4,860,923	4,729,407	4,959,383	4,109,608	4,000,075	3,694,009	3,498,483	3,809,144	4,175,955	3,941,329
182,202	210,382	200,362	196,746	212,964	159,044	165,654	131,759	149,054	176,249	182,230	142,774
402,430	439,531	409,172	452,419	485,528	490,999	463,349	473,612	486,903	491,926	472,767	486,076
447,948	500,125	420,915	449,146	454,626	384,248	401,479	381,521	325,276	394,254	395,066	319,438
5	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
935	800	824	948	601	539	513	333	251	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1,485	1,482	1,451	1,409	1,283	1,244	1,142	1,307	952	978	1,051	1,174
95	95	132	120	99	121	112	107	127	106	135	141
0	0	0	0	0	0	0	0	0	0	0	0
2,121,866	2,166,046	2,216,314	2,229,899	1,778,725	1,368,136	1,295,342	1,180,415	990,979	696,595	484,223	479,800
7,763,048	8,047,183	8,093,547	7,855,096	7,581,577	6,969,582	6,927,642	7,085,389	7,140,873	5,859,462	6,807,477	6,799,766



PRODUCTOS	ENE	FEB	MAR	ABR	MAY
<b>TOTAL</b>	<b>29,526,988.3</b>	<b>28,814,317.9</b>	<b>31,010,424.3</b>	<b>28,498,007.2</b>	<b>27,246,236.6</b>
<b>MINERALES PRECIOSOS</b>	<b>14,583,377.3</b>	<b>14,150,650.4</b>	<b>15,198,710.5</b>	<b>13,249,258.5</b>	<b>12,785,450.5</b>
Oro	9,590,598.0	8,986,355.2	9,463,479.9	8,019,687.3	7,851,228.2
Plata	4,992,779.3	5,164,295.3	5,735,230.7	5,229,571.2	4,934,222.3
<b>MINERALES INDUSTRIALES NO FERROSOS</b>	<b>11,416,416.5</b>	<b>11,546,429.4</b>	<b>12,233,080.2</b>	<b>11,592,963.6</b>	<b>10,837,860.7</b>
Plomo	598,541.7	559,106.8	575,510.3	566,822.5	502,278.2
Cobre	7,969,571.7	8,240,827.2	8,654,088.3	8,367,296.8	7,733,365.3
Zinc	2,101,101.4	2,020,989.8	2,186,549.9	2,099,187.4	1,906,642.2
Bismuto	0.0	0.0	0.0	0.0	0.0
Cadmio	6,488.4	5,217.1	5,418.9	4,462.4	5,010.9
Selenio	5,131.0	5,105.2	4,791.9	4,661.9	4,627.3
Molibdeno	735,582.3	715,183.3	806,720.9	550,532.6	685,936.8
<b>MINERALES SIDERÚRGICOS</b>	<b>1,754,013.1</b>	<b>1,432,175.2</b>	<b>1,735,335.9</b>	<b>1,746,976.3</b>	<b>1,676,777.0</b>
Carbón No Coquizable	214,331.2	219,843.6	227,292.8	235,676.4	239,733.0
Coque	207,325.5	214,216.6	241,895.6	228,865.9	242,766.3
Fierro	1,256,298.4	932,215.8	1,131,110.3	1,132,136.5	1,056,201.5
Manganeso	76,058.0	65,899.1	135,037.2	150,297.5	138,076.2
<b>MINERALES NO METÁLICOS</b>	<b>1,773,181.4</b>	<b>1,685,062.9</b>	<b>1,843,297.6</b>	<b>1,908,808.7</b>	<b>1,946,148.4</b>
Azufre	46,608.0	38,752.5	49,961.6	80,078.8	61,386.1
Grafito	1,112.4	1,164.2	1,089.3	1,100.5	945.8
Barita	65,090.7	73,097.7	74,356.4	112,370.5	75,022.7
Dolomita	188,833.7	172,656.2	185,056.0	185,799.1	187,658.1
Fluorita	515,673.7	375,477.8	307,416.5	330,827.9	345,960.8
Caolín	50,802.2	51,588.3	56,439.4	54,925.5	62,798.8
Arena Sílica	206,621.5	205,169.9	204,200.7	202,361.7	200,688.8
Yeso	90,924.0	92,777.2	93,668.4	92,561.5	92,331.4
Fosforita	12,938.9	43,197.2	84,907.3	118,763.6	94,282.2
Wollastonita	26,783.7	19,996.5	33,067.9	36,649.0	56,535.0
Celestita	2,525.2	2,431.6	3,467.0	1,658.1	3,309.1
Feldespato	31,312.2	30,362.2	30,864.8	29,668.3	34,165.4
Sal	261,345.5	269,829.3	304,071.8	246,304.9	344,991.6
Diatomita	50,575.2	50,016.7	48,904.4	47,873.0	46,930.2
Sulfato de Sodio	210,509.2	238,125.4	336,448.9	335,880.0	303,802.5
Sulfato de Magnesio	11,525.6	20,420.1	29,377.4	31,986.3	35,339.9

**Notas:**

El valor de la producción para los metales excepto el arsénico, el bismuto, el selenio y el pellet de fierro, se obtienen con las cotizaciones internacionales; para los minerales no metálicos el valor de la producción se obtiene de los precios del mercado nacional.

La suma de los parciales puede no coincidir con los totales debido al redondeo.

Fuente: INEGI.

## VALOR MENSUAL DE LA PRODUCCIÓN MINERO-METALÚRGICA 2022

( Miles de pesos a precios corrientes )

JUN	JUL	AGO	SEP	OCT	NOV	DIC	TOTAL
<b>26,176,948.7</b>	<b>23,325,495.2</b>	<b>25,332,575.3</b>	<b>23,744,767.7</b>	<b>23,726,612.8</b>	<b>23,804,175.2</b>	<b>25,749,155.5</b>	<b>316,955,704.8</b>
<b>13,121,591.0</b>	<b>11,159,771.0</b>	<b>11,945,828.9</b>	<b>11,455,756.0</b>	<b>11,141,554.0</b>	<b>11,270,253.8</b>	<b>12,704,215.8</b>	<b>152,766,417.7</b>
8,343,949.3	7,151,783.7	7,754,123.7	7,619,797.7	7,283,450.8	7,043,961.8	7,990,630.6	<b>97,099,046.2</b>
4,777,641.7	4,007,987.3	4,191,705.2	3,835,958.2	3,858,103.2	4,226,291.9	4,713,585.3	<b>55,667,371.5</b>
<b>9,603,563.9</b>	<b>8,800,383.4</b>	<b>9,756,629.8</b>	<b>9,044,218.9</b>	<b>9,250,489.4</b>	<b>9,301,532.3</b>	<b>9,940,189.5</b>	<b>123,323,757.8</b>
487,059.6	492,921.3	508,801.7	451,268.3	466,851.3	469,724.1	493,296.5	<b>6,172,182.4</b>
6,549,163.8	5,893,921.6	6,571,328.3	6,187,067.7	6,445,701.3	6,642,562.3	6,973,760.3	<b>86,228,654.7</b>
1,876,417.6	1,728,693.7	1,987,447.3	1,711,498.2	1,645,325.1	1,441,439.6	1,769,677.8	<b>22,474,970.0</b>
0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>0.0</b>
5,226.2	4,603.3	4,280.5	4,414.4	4,432.7	4,366.4	4,143.6	<b>58,065.0</b>
5,022.4	5,183.3	5,108.4	5,504.3	4,602.7	4,428.3	4,850.8	<b>59,017.5</b>
680,674.3	675,060.2	679,663.7	684,465.9	683,576.2	739,011.7	694,460.5	<b>8,330,868.3</b>
<b>1,639,205.5</b>	<b>1,599,641.7</b>	<b>1,479,203.1</b>	<b>1,376,508.5</b>	<b>1,412,701.8</b>	<b>1,392,371.7</b>	<b>1,398,235.3</b>	<b>18,643,145.2</b>
242,453.2	237,333.3	229,751.9	228,824.7	228,875.0	231,911.3	228,655.1	<b>2,764,681.4</b>
264,094.3	239,256.2	224,676.1	197,840.1	195,353.2	221,967.3	211,569.9	<b>2,689,827.1</b>
1,008,563.9	999,635.0	976,948.6	860,072.8	913,088.2	864,754.8	881,233.5	<b>12,012,259.3</b>
124,094.1	123,417.3	47,826.5	89,771.0	75,385.4	73,738.3	76,776.8	<b>1,176,377.4</b>
<b>1,812,588.3</b>	<b>1,765,699.0</b>	<b>2,150,913.4</b>	<b>1,868,284.4</b>	<b>1,921,867.7</b>	<b>1,840,017.4</b>	<b>1,706,514.9</b>	<b>22,222,384.1</b>
43,555.6	47,424.7	47,063.3	42,143.3	57,317.6	50,254.0	24,354.8	<b>588,900.3</b>
1,058.1	995.6	1,045.9	1,052.5	1,001.6	982.1	1,022.1	<b>12,570.1</b>
80,614.3	88,988.7	87,282.1	90,091.4	91,574.2	84,085.2	74,848.5	<b>997,422.4</b>
192,517.0	202,082.4	204,928.8	204,112.4	205,707.0	201,511.3	198,977.2	<b>2,329,839.4</b>
343,144.5	315,454.3	529,812.8	421,974.8	339,668.5	324,187.4	354,439.3	<b>4,504,038.2</b>
64,492.5	64,840.8	64,569.5	64,668.5	68,756.8	71,759.0	68,923.4	<b>744,564.8</b>
201,034.0	207,038.3	209,170.9	209,726.3	209,835.4	210,040.2	209,522.8	<b>2,475,410.5</b>
92,933.3	90,202.9	90,151.3	87,853.4	89,072.7	91,274.0	90,152.6	<b>1,093,902.5</b>
53,673.2	67,313.6	86,974.2	33,525.1	64,659.7	88,074.1	96,928.5	<b>845,237.7</b>
25,281.5	30,667.9	37,929.5	21,406.7	24,603.9	17,216.8	16,493.5	<b>346,632.0</b>
3,252.1	2,604.4	1,283.2	3,461.7	2,286.7	2,537.4	2,191.5	<b>31,008.0</b>
35,224.8	37,959.9	38,893.4	39,250.3	39,832.2	40,256.3	38,616.7	<b>426,406.4</b>
313,544.7	318,160.0	363,346.0	245,691.6	306,533.7	265,360.6	248,324.9	<b>3,487,504.3</b>
47,032.9	48,802.7	50,039.1	50,293.2	50,869.5	51,183.5	51,031.3	<b>593,551.6</b>
282,606.4	214,260.8	306,610.5	321,719.5	334,209.5	318,869.2	199,087.1	<b>3,402,129.2</b>
32,623.4	28,902.0	31,812.9	31,313.5	35,938.6	22,426.3	31,600.6	<b>343,266.7</b>

PRODUCTOS	ENE	FEB	MAR	ABR	MAY
<b>MINERALES PRECIOSOS <sup>a/</sup></b>					
Oro (Kg)	8,018	7,354	7,341	6,416	6,574
Plata (Kg)	326,817	334,821	343,272	329,963	347,215
<b>MINERALES INDUSTRIALES NO FERROSOS <sup>a/</sup></b>					
Plomo	12,479	11,893	11,835	11,790	12,154
Cobre	39,826	40,494	41,065	40,917	41,046
Zinc	26,922	27,200	26,687	23,925	25,204
Bismuto	0	0	0	0	0
Cadmio	114	102	119	93	104
Selenio	13	12	11	11	11
Molibdeno	1,341	1,276	1,439	1,044	1,282
<b>MINERALES SIDERÚRGICOS</b>					
Carbón Todo Uno	405,096	419,707	447,466	478,042	544,070
Carbón Lavado	249,605	276,885	277,711	273,366	279,601
Fierro en Extracción <sup>a/</sup>	972,035	744,436	839,135	734,098	893,394
Carbón No Coquizable <sup>b/</sup>	365,943	376,570	390,960	400,450	400,477
Coque <sup>b/</sup>	36,183	37,047	44,558	41,351	43,415
Pellets de Fierro <sup>a/</sup>	544,137	476,280	583,998	608,847	580,192
Manganeso <sup>a/</sup>	15,508	13,137	21,739	21,474	20,270
<b>MINERALES NO METÁLICOS <sup>b/</sup></b>					
Azufre <sup>c/</sup>	26,047	23,907	24,155	30,857	26,326
Grafito	176	177	171	174	149
Barita	21,796	26,232	26,683	30,250	23,079
Dolomita	860,855	835,994	821,438	800,434	820,532
Fluorita	84,340	86,004	85,050	86,532	81,376
Caolín	15,814	16,064	17,130	16,707	19,081
Arena Silica	337,066	334,698	333,117	330,117	327,388
Yeso	539,157	552,255	562,573	555,925	554,543
Fosforita	6,747	24,599	55,584	60,018	53,778
Wollastonita	8,411	8,053	9,363	9,192	9,333
Celestita	3,132	2,820	3,969	1,479	3,318
Feldespato	36,325	35,223	35,806	34,418	39,635
Sal	644,265	662,504	740,607	597,765	861,428
Diatomita	13,969	13,806	13,505	13,243	12,971
Sulfato de Sodio	66,603	60,150	66,624	64,523	61,427
Sulfato de Magnesio	4,989	4,409	5,203	5,471	6,118

**Notas:**

a/ Contenido metálico.

b/ Volumen del mineral.

c/ Obtenido en la refinación del petróleo crudo.

Fuente: INEGI.

## VOLUMEN MENSUAL DE LA PRODUCCIÓN MINERO-METALÚRGICA 2022 (Toneladas)

JUN	JUL	AGO	SEP	OCT	NOV	DIC	TOTAL
7,074	6,229	6,753	7,003	6,795	6,833	7,092	<b>83,482</b>
345,728	318,173	321,915	316,155	309,679	321,833	325,758	<b>3,941,329</b>
11,712	12,155	12,016	11,981	11,733	11,495	11,531	<b>142,774</b>
36,076	38,118	41,151	39,897	42,272	42,513	42,701	<b>486,076</b>
25,532	27,190	27,674	27,175	27,810	25,345	28,774	<b>319,438</b>
0	0	0	0	0	0	0	<b>0</b>
97	90	94	92	92	91	86	<b>1,174</b>
12	12	12	13	11	11	12	<b>141</b>
1,278	1,231	1,275	1,282	1,287	1,426	1,335	<b>15,496</b>
531,896	562,889	531,351	521,572	513,143	514,812	493,262	<b>5,963,306</b>
280,468	287,596	281,936	280,339	276,134	279,039	276,607	<b>3,319,287</b>
846,049	642,099	742,770	621,839	706,839	777,086	670,502	<b>9,190,282</b>
400,995	390,159	381,116	379,697	376,047	384,174	386,333	<b>4,632,921</b>
47,716	43,390	40,594	35,430	35,296	36,594	38,226	<b>479,800</b>
568,700	564,598	581,606	532,809	587,449	583,396	587,754	<b>6,799,766</b>
19,420	19,766	9,198	20,998	19,472	19,791	19,972	<b>220,745</b>
18,571	23,040	23,670	20,472	25,197	23,272	23,611	<b>289,125</b>
167	157	165	166	158	155	161	<b>1,976</b>
23,147	26,432	25,486	26,531	26,853	25,221	23,560	<b>305,270</b>
835,530	880,311	891,049	888,326	894,849	884,128	873,880	<b>10,287,326</b>
79,749	79,801	81,817	83,751	83,535	83,758	84,913	<b>1,000,626</b>
19,627	19,670	19,619	19,873	21,134	22,001	21,078	<b>227,798</b>
327,951	337,746	341,225	342,131	342,309	342,643	341,799	<b>4,038,190</b>
558,158	541,759	541,449	527,648	534,971	548,192	541,457	<b>6,558,087</b>
32,183	39,354	32,397	17,861	35,409	33,879	49,895	<b>441,704</b>
7,866	7,337	7,748	6,288	5,479	3,040	2,603	<b>84,713</b>
3,731	2,787	1,421	3,589	2,304	2,721	2,516	<b>33,787</b>
40,864	44,037	45,120	45,534	46,209	46,701	44,799	<b>494,671</b>
771,772	788,741	897,545	615,184	762,330	682,217	635,310	<b>8,659,668</b>
13,005	13,490	13,834	13,897	14,052	14,135	14,094	<b>164,001</b>
61,009	63,620	65,049	63,769	65,908	64,218	61,289	<b>764,189</b>
5,952	5,702	5,726	5,292	6,054	5,522	6,060	<b>66,498</b>

PRODUCTOS	UNIDAD MEDIDA	ENE	FEB	MAR	ABR	MAY
<b>MINERALES PRECIOSOS</b>						
Oro	Dls * Oz. Tr	1,815.752273	1,857.552778	1,948.434091	1,935.744737	1,851.750000
Plata	Dls * Oz. Tr	23.190455	23.447222	25.251364	24.544211	22.032727
<b>MINERALES INDUSTRIALES NO FERROSOS</b>						
Plomo	Dls * Lib	1.061818	1.042222	1.071818	1.085789	0.934409
Cobre	Dls * Lib	4.430000	4.511667	4.645000	4.618421	4.260000
Zinc	Dls * Lib	1.727727	1.647222	1.805909	1.981579	1.710455
Bismuto	Dls * Lib	27.582821	31.507821	33.514321	32.511071	33.012696
Cadmio	\$ * Kg	56.915800	51.147797	45.537147	47.982846	48.181963
Selenio	Dls * Lib	8.737724	9.431723	9.601765	9.571485	9.511388
Molibdeno	Dls * Lib	12.143333	12.425778	12.356593	11.909531	12.097844
<b>MINERALES SIDERÚRGICOS</b>						
Carbón No Coquizable	\$ * Kg	0.585696	0.583806	0.581371	0.588529	0.598619
Coque	\$ * Kg	5.729915	5.782294	5.428781	5.534712	5.591762
Fierro	\$ * Kg	2.308791	1.798661	1.762788	1.859476	1.820434
Manganeso	Dls * Kg	0.239360	0.245170	0.301840	0.348480	0.339550
<b>MINERALES NO METÁLICOS</b>						
Azufre	\$ * Kg	1.789379	1.620970	2.068375	2.595159	2.331767
Grafito	\$ * Kg	6.320720	6.577490	6.370220	6.324498	6.347359
Barita	\$ * Kg	2.986358	2.786585	2.786660	3.714726	3.250693
Dolomita	\$ * Kg	0.219356	0.206528	0.225283	0.232123	0.228703
Fluorita	\$ * Kg	6.114224	4.365818	3.614538	3.823186	4.251386
Caolín	\$ * Kg	3.212483	3.211426	3.294767	3.287573	3.291170
Arena Sílica	\$ * Kg	0.613000	0.613000	0.613000	0.613000	0.613000
Yeso	\$ * Kg	0.168641	0.167997	0.166500	0.166500	0.166500
Fosforita	\$ * Kg	1.917721	1.756057	1.527549	1.978800	1.753175
Wollastonita	\$ * Kg	3.184361	2.483109	3.531761	3.987052	6.057537
Celestita	\$ * Kg	0.806246	0.862270	0.873514	1.121100	0.997307
Feldespató	\$ * Kg	0.862000	0.862000	0.862000	0.862000	0.862000
Sal	\$ * Kg	0.405649	0.407287	0.410571	0.412043	0.400488
Diatomita	\$ * Kg	3.620529	3.622824	3.621205	3.614963	3.618084
Sulfato de Sodio	\$ * Kg	3.160657	3.958860	5.049965	5.205586	4.945748
Sulfato de Magnesio	\$ * Kg	2.310201	4.631466	5.646238	5.846523	5.776385
Dólar	\$ * Dls	20.489800	20.460500	20.579600	20.084500	20.061400

**Nota:**

P/ Cifras preliminares.

## PRECIOS NACIONALES E INTERNACIONALES 2022 P/

JUN	JUL	AGO	SEP	OCT	NOV	DIC	PROMEDIO
1,834.017000	1,738.833333	1,774.159375	1,685.882500	1,667.167500	1,647.095238	1,788.908824	<b>1,795.441471</b>
21.487000	19.078571	20.117500	18.798500	19.377600	20.982381	22.974412	<b>21.773495</b>
0.943000	0.895714	0.954063	0.851050	0.902550	0.952190	0.990588	<b>0.973768</b>
4.116500	3.415238	3.598000	3.503950	3.458750	3.640857	3.781647	<b>3.998336</b>
1.666500	1.404286	1.618125	1.423050	1.342000	1.325238	1.424118	<b>1.589684</b>
32.761884	32.887290	32.824587	32.855939	32.840263	32.401341	32.918642	<b>32.301556</b>
53.878171	51.147797	45.537147	47.982846	48.181963	47.982846	48.181963	<b>49.388191</b>
9.490603	9.540470	9.591544	9.566982	9.491302	9.380618	9.360187	<b>9.439649</b>
12.077281	12.112427	12.010809	12.063603	12.047868	12.075956	12.045319	<b>12.113862</b>
0.604629	0.608299	0.602840	0.602651	0.608634	0.603662	0.591860	<b>0.596716</b>
5.534712	5.514086	5.534712	5.583971	5.534712	6.065674	5.534712	<b>5.614170</b>
1.773455	1.770525	1.679743	1.614223	1.554328	1.482278	1.499324	<b>1.743669</b>
0.319440	0.304040	0.258280	0.212960	0.193600	0.191400	0.196240	<b>0.262530</b>
2.345358	2.058364	1.988312	2.058581	2.274778	2.159418	1.031503	<b>2.026830</b>
6.335929	6.341644	6.338787	6.340216	6.339502	6.335959	6.348560	<b>6.360074</b>
3.482710	3.366702	3.424706	3.395704	3.410205	3.333935	3.176933	<b>3.259660</b>
0.230413	0.229558	0.229986	0.229772	0.229879	0.227921	0.227694	<b>0.226435</b>
4.302806	3.953012	6.475583	5.038445	4.066182	3.870525	4.174146	<b>4.504154</b>
3.285908	3.296433	3.291171	3.254089	3.253376	3.261624	3.269922	<b>3.267495</b>
0.613000	0.613000	0.613000	0.613000	0.613000	0.613000	0.613000	<b>0.613000</b>
0.166500	0.166500	0.166500	0.166500	0.166500	0.166500	0.166500	<b>0.166803</b>
1.667750	1.710463	2.684638	1.877002	1.826080	2.599667	1.942650	<b>1.936796</b>
3.214018	4.179902	4.895394	3.404381	4.490590	5.663436	6.336352	<b>4.285658</b>
0.871644	0.934476	0.903060	0.964531	0.992504	0.932532	0.871021	<b>0.927517</b>
0.862000	0.862000	0.862000	0.862000	0.862000	0.862000	0.862000	<b>0.862000</b>
0.406266	0.403377	0.404822	0.399379	0.402101	0.388968	0.390872	<b>0.402652</b>
3.616524	3.617695	3.617110	3.618999	3.620089	3.621049	3.620781	<b>3.619154</b>
4.632209	3.367822	4.713532	5.045077	5.070849	4.965418	3.248333	<b>4.447005</b>
5.481085	5.068744	5.555862	5.917148	5.936345	4.061266	5.214616	<b>5.120490</b>
20.003800	20.536500	20.131900	20.075200	19.997300	19.466300	19.589400	<b>20.123017</b>

## COTIZACIONES DE LOS PRINCIPALES METALES 1992-2022

Año	Oro <sup>1/</sup>	Plata <sup>1/</sup>	Cobre <sup>2/</sup>	Plomo <sup>2/</sup>	Zinc <sup>2/</sup>
1992	343.82	3.95	106.02	24.54	58.38
1993	359.78	4.24	90.16	18.43	46.16
1994	384.00	5.37	110.23	24.85	49.23
1995	384.15	5.20	138.33	28.62	53.40
1996	386.61	5.20	109.04	35.12	51.11
1997	331.02	4.90	106.67	28.31	64.56
1998	294.16	5.53	75.91	23.98	51.43
1999	278.11	5.24	72.08	22.80	53.47
2000	279.02	4.97	83.71	20.59	55.23
2001	270.98	4.38	72.56	21.60	43.40
2002	309.90	4.60	70.00	20.50	35.30
2003	363.50	4.88	80.70	23.40	37.60
2004	409.20	6.65	130.00	40.20	47.50
2005	444.90	7.31	166.90	44.30	62.70
2006	604.30	11.57	304.90	58.50	148.60
2007	696.70	13.39	322.90	117.00	147.10
2008	871.70	15.02	315.50	94.80	85.00
2009	972.80	14.65	233.60	78.00	75.10
2010	1,224.70	20.16	341.80	97.50	98.00
2011	1,568.60	35.11	400.10	108.90	99.50
2012	1,668.80	31.15	360.60	93.54	88.40
2013	1,411.00	23.83	333.10	97.70	87.10
2014	1,265.58	19.08	311.20	95.10	98.10
2015	1,160.10	15.70	249.60	81.00	87.70
2016	1,249.00	17.14	220.80	84.70	95.016
2017	1,257.86	17.05	279.68	105.12	131.36
2018	1,268.93	15.71	295.88	101.72	132.54
2019	1,393.71	16.21	272.14	90.70	115.50
2020	1,770.07	20.55	280.35	82.81	102.83
2021	1,799.00	25.15	422.63	100.00	136.30
2022	1,800.09	21.76	399.03	97.53	157.77

**Notas:**

1/ Dólares por onza.

2/ Centavos de dólar por libra.

Fuente: Metals Week, LME y Cochilco.

## RESUMEN DE LA PRODUCCIÓN MINERA POR ENTIDAD, PRINCIPALES PRODUCTOS, 2022

ESTADO	ORO (Kg)	PLATA (Kg)	PLOMO (Tons)	COBRE (Tons)	ZINC (Tons)	FIERRO (Tons)
<b>TOTAL</b>	<b>148,502.30</b>	<b>6,630,389</b>	<b>272,988</b>	<b>753,885</b>	<b>744,341</b>	<b>9,190,282</b>
AGUASCALIENTES	704.0	19,000	2,053	483	7,380	0
BAJA CALIFORNIA	553.0	7,266	0	0	0	0
BAJA CALIFORNIA SUR	0.0	0	0	13,588	1,277	0
COAHUILA DE ZARAGOZA	12.9	96,154	0	0	0	1,620,289
COLIMA						2,774,375
CHIHUAHUA	16,293.9	1,372,036	36,299	21,514	81,329	371,812
DURANGO	20,079.6	1,399,203	25,531	4,813	129,614	1,505,608
GUANAJUATO	1,521.9	32,069	0	0	0	0
GUERRERO	20,557.4	49,392	4,340	0	18,482	163
HIDALGO	62.9	57,914	3,864	4,028	20,858	0
JALISCO	171.6	36,081	6,039	0	946	0
ESTADO DE MÉXICO	1,321.3	226,200	8,895	902	41,847	0
MICHOACÁN DE OCAMPO	245.6	990	0	36	0	2,850,713
MORELOS						0
NAYARIT	13.9	6,007	0	0	0	0
NUEVO LEÓN						0
OAXACA	4,204.1	351,808	10,423	2,347	28,469	0
PUEBLA						66,269
QUERÉTARO	303.1	2,090	0	0	0	0
SAN LUIS POTOSÍ	1,132.2	134,655	1,849	32,213	31,496	0
SINALOA	471.2	39,686	931	628	2,118	0
SONORA	38,145.0	429,230	0	569,758	19,904	1,053
ZACATECAS	42,708.7	2,370,608	172,764	103,575	360,621	0

**Nota:**

La suma de los parciales puede no coincidir con los totales debido al redondeo.

Fuente: INEGI.



## RESUMEN DE LA PRODUCCIÓN MINERA POR ENTIDAD Y MUNICIPIO, PRINCIPALES PRODUCTOS, 2022 <sup>1/</sup>

ESTADO Y MUNICIPIO	ORO (Kg)	PLATA (Kg)	PLOMO (Tons)	COBRE (Tons)	ZINC (Tons)
<b>TOTAL</b>	<b>148,502.3</b>	<b>6,630,389</b>	<b>272,988</b>	<b>753,885</b>	<b>744,341</b>
<b>AGUASCALIENTES</b>	<b>704.0</b>	<b>19,000</b>	<b>2,053</b>	<b>483</b>	<b>7,380</b>
Asientos	704.0	19,000	2,053	483	7,380
<b>BAJA CALIFORNIA</b>	<b>553.0</b>	<b>7,266</b>	<b>0</b>	<b>0</b>	<b>0</b>
Mexicali	553.0	7,266	-	-	-
<b>BAJA CALIFORNIA SUR</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>13,588</b>	<b>1,277</b>
Mulegé	-	-	-	13,588	1,277
<b>COAHUILA DE ZARAGOZA</b>	<b>12.9</b>	<b>96,154</b>	<b>0</b>	<b>0</b>	<b>0</b>
Ocampo	12.9	96,154	-	-	-
<b>CHIHUAHUA</b>	<b>16,293.9</b>	<b>1,372,036</b>	<b>36,299</b>	<b>21,514</b>	<b>81,329</b>
Aquiles Serdán	-	-	-	-	-
Ascensión	6.0	0	118	0	0
Cusihuiríachi	56.1	62,091	402	-	78
Chínipas	3,604.6	247,840	-	-	-
Guadalupe y Calvo	1,971.0	453,520	9,769	-	32,616
Guazapares	-	144,249	-	-	-
Hidalgo del Parral	66.0	2,482	-	-	-
Madera	4,411.5	175,506	-	-	-
Matamoros	-	-	151	-	-
Ocampo	4,650.9	101,631	-	-	-
San Francisco del Oro	48.2	25,391	7,499	1,701	18,692
Santa Bárbara	198.9	114,345	18,360	5,524	29,652
Temósachic	86.0	243	-	-	-
Urique	1,194.7	44,738	-	14,289	291
<b>DURANGO</b>	<b>20,079.6</b>	<b>1,399,203</b>	<b>25,531</b>	<b>4,813</b>	<b>129,614</b>
Canelas	-	855	12	-	-
Cuencamé	297.1	44,511	4,751	2,877	99,314
Guanaceví	1,066.9	362,136	1,033	16	2,189
Mapimí	-	11,644	5,624	-	7,482
Nombre de Dios	-	-	-	-	-
Otáez	3,444.8	379,709	-	-	-
Pánuco de Coronado	243.6	20,349	-	1,920	-
San Dimas	2,512.0	192,845	-	-	-
San Juan del Río	9,943.3	-	-	-	-
Santiago Papasquiaro	2,431.0	316,224	9,461	0	15,871
Tepehuanes	78.1	29,358	60	-	156
Topia	62.8	41,572	4,590	-	4,602

## RESUMEN DE LA PRODUCCIÓN MINERA POR ENTIDAD Y MUNICIPIO, PRINCIPALES PRODUCTOS, 2022 <sup>1/</sup>

ESTADO Y MUNICIPIO	ORO (Kg)	PLATA (Kg)	PLOMO (Tons)	COBRE (Tons)	ZINC (Tons)
<b>GUANAJUATO</b>	<b>1,521.9</b>	<b>32,069</b>	<b>0</b>	<b>0</b>	<b>0</b>
Guanajuato	1,521.9	32,069	-	-	-
<b>GUERRERO</b>	<b>20,557.4</b>	<b>49,392</b>	<b>4,340</b>	<b>0</b>	<b>18,482</b>
Cocula	15,920.6	5,173	-	-	-
Eduardo Neri	4,165.0	4,342	-	-	-
<b>HIDALGO</b>	<b>62.9</b>	<b>57,914</b>	<b>3,864</b>	<b>4,028</b>	<b>20,858</b>
Mineral del Chico	15.1	3,613	-	-	-
Pachuca de Soto	47.8	20,466	-	-	-
Zimapán	-	33,835	3,864	4,028	20,858
<b>JALISCO</b>	<b>171.6</b>	<b>36,081</b>	<b>6,039</b>	<b>0</b>	<b>946</b>
Bolaños	161.1	29,738	6,039	-	946
Etzatlán	-	-	0	-	-
San Martín de Bolaños	-	-	-	-	-
San Sebastián del Oeste	10.5	6,343	-	-	-
<b>ESTADO DE MÉXICO</b>	<b>1,321.3</b>	<b>226,200</b>	<b>8,895</b>	<b>902</b>	<b>41,847</b>
Zacazonapan	1,312.2	206,515	8,668	902	41,393
Zacualpan	9.1	19,685	227	-	454
<b>MICHOACÁN DE OCAMPO</b>	<b>245.6</b>	<b>990</b>	<b>0</b>	<b>36</b>	<b>0</b>
Arteaga	77.8	990	-	-	-
Churumuco	0	-	-	0	-
Huetamo	0	-	-	0	-
Turicato	167.8	-	-	36	-
<b>NAYARIT</b>	<b>13.9</b>	<b>6,007</b>	<b>0</b>	<b>0</b>	<b>0</b>
Compostela	0	-	-	-	-
Santa María del Oro	13.9	6,007	-	-	-
<b>OAXACA</b>	<b>4,204.1</b>	<b>351,808</b>	<b>10,423</b>	<b>2,347</b>	<b>28,469</b>
Ixtlán de Juárez	6.4	571	57	-	-
San José del Progreso	1,309.0	246,237	-	-	-
San Pedro Totolápam	2,888.7	105,000	10,366	2,347	28,469
<b>QUERÉTARO</b>	<b>303.1</b>	<b>2,090</b>	<b>0</b>	<b>0</b>	<b>0</b>
Colón	303.1	2,090	-	-	-
<b>SAN LUIS POTOSÍ</b>	<b>1,132.2</b>	<b>134,655</b>	<b>1,849</b>	<b>32,213</b>	<b>31,496</b>
Cerro de San Pedro	193.1	399	-	-	-
Charcas	55.0	49,096	1,849	5,352	31,496
Villa de la Paz	884.1	85,160	-	26,861	-

## RESUMEN DE LA PRODUCCIÓN MINERA POR ENTIDAD Y MUNICIPIO, PRINCIPALES PRODUCTOS, 2022 <sup>1/</sup>

ESTADO Y MUNICIPIO	ORO (Kg)	PLATA (Kg)	PLOMO (Tons)	COBRE (Tons)	ZINC (Tons)
<b>SINALOA</b>	<b>471.2</b>	<b>39,686</b>	<b>931</b>	<b>628</b>	<b>2,118</b>
Concordia	94.9	10,680	-	-	-
Cosalá	25.3	26,074	931	628	2,118
Mocorito	152.8	509	-	-	-
Rosario	198.2	2,423	-	-	-
<b>SONORA</b>	<b>38,145.0</b>	<b>429,230</b>	<b>0</b>	<b>569,758</b>	<b>19,904</b>
Álamos	-	-	-	17,908	-
Altar	59.6	125	-	-	-
Banámichi	2,785.0	51,251	-	-	-
Caborca	16,277.7	47,268	-	-	-
Cananea	1,147.2	162,001	-	433,711	-
La Colorada	5,199.8	92,887	0	-	19,904
Cucurpe	3,151.1	7,579	-	-	-
Magdalena	1,440.5	-	-	-	-
Nacozari de García	220.0	65,288	-	114,023	-
Sahuaripa	6,469.4	2,220	-	-	-
San Javier	-	-	-	-	-
Santa Ana	1,394.7	611	-	-	-
Santa Cruz	-	-	-	4,116	-
<b>ZACATECAS</b>	<b>42,708.7</b>	<b>2,370,608</b>	<b>172,764</b>	<b>103,575</b>	<b>360,621</b>
Concepción del Oro	630.4	11,561	-	9,892	-
Chalchihuites	210.1	172,935	8,300	-	6,939
Fresnillo	4,314.1	1,053,346	64,987	-	102,823
General Pánfilo Natera	-	39,915	216	-	139
Jerez	15.2	1,112	12	29	-
Mazapil	36,576.7	884,569	87,642	61,783	215,202
Melchor Ocampo	-	48	-	-	-
Miguel Auza	-	3,480	3,148	-	2,782
Morelos	19.1	45,626	1,237	24,602	3,018
Ojocaliente	420.3	57	-	-	-
Sombrerete	7.0	151,845	6,648	7,257	28,893
Vetagrande	-	75	562	-	825
Villanueva	4.8	279	12	12	-
Zacatecas	511.0	5,760	-	-	-

**Notas:**

1/ Contenido metálico.

Las sumas de los parciales pueden no coincidir con los totales debido al redondeo.

Fuente: INEGI.



ESTADO Y MUNICIPIO	Barita	Caolín	Carbón		Celestita	Coque	Diatomita	Dolomita	Fierro	
			No Coquizable	Todo Uno					Mina <sup>2/</sup>	Pellets <sup>3/</sup>
<b>Total en toneladas</b>	<b>305,270</b>	<b>227,798</b>	<b>4,632,921</b>	<b>5,963,306</b>	<b>33,787</b>	<b>479,800</b>	<b>164,001</b>	<b>10,287,326</b>	<b>9,190,282</b>	<b>6,799,766</b>
<b>BAJA CALIFORNIA</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Ensenada	-	-	-	-	-	-	-	-	-	-
<b>BAJA CALIFORNIA SUR</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Mulegé	-	-	-	-	-	-	-	-	-	-
La Paz	-	-	-	-	-	-	-	-	-	-
<b>COAHUILA DE ZARAGOZA</b>	<b>14,433</b>	<b>0</b>	<b>4,632,921</b>	<b>5,963,306</b>	<b>33,787</b>	<b>479,800</b>	<b>0</b>	<b>1,213,810</b>	<b>1,620,289</b>	<b>1,281,075</b>
Abasolo	-	-	512	512	-	-	-	-	-	-
Acuña	-	-	-	-	-	-	-	-	-	-
Castaños	-	-	-	-	-	-	-	619,108	-	-
Cuatro Ciénegas	-	-	-	-	-	-	-	-	-	-
Escobedo	-	-	948	948	-	-	-	-	-	-
Hidalgo	-	-	-	-	-	-	-	-	-	-
Juárez	-	-	4,170	4,170	-	-	-	-	-	-
Matamoros	-	-	-	-	-	-	-	-	-	-
Monclova	-	-	0	0	-	479,800	-	-	-	1,281,075
Múzquiz	13,904	-	51,869	1,493,602	-	-	-	-	-	-
Nava	-	-	4,325,151	4,210,348	-	-	-	-	-	-
Ocampo	-	-	-	-	-	-	-	23,186	-	-
Parras	529	-	-	-	-	-	-	-	-	-
Progreso	-	-	66,364	60,430	-	-	-	-	-	-
Ramos Arizpe	-	-	-	-	-	-	-	222,033	-	-
Sabinas	-	-	144,097	138,861	-	-	-	-	-	-
San Juan de Sabinas	-	-	39,810	54,435	-	0	-	-	-	-
San Pedro	-	-	-	-	33,787	-	-	-	256	-
Sierra Mojada	-	-	-	-	-	-	-	349,483	1,620,033	-
<b>COLIMA</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,774,375</b>	<b>4,160,506</b>
Armería	-	-	-	-	-	-	-	-	-	-
Colima	-	-	-	-	-	-	-	-	168,746	-
Cuauhtémoc	-	-	-	-	-	-	-	-	-	1,578,837
Manzanillo	-	-	-	-	-	-	-	-	-	2,581,669
Minatitlán	-	-	-	-	-	-	-	-	2,605,629	-
Tecomán	-	-	-	-	-	-	-	0	-	-
<b>CHIHUAHUA</b>	<b>3,887</b>	<b>180,920</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,602,666</b>	<b>371,812</b>	<b>0</b>
Camargo	-	-	-	-	-	-	-	-	371,812	-
Chihuahua	-	137,615	-	-	-	-	-	4,039,637	-	-
Guadalupe	-	-	-	-	-	-	-	-	-	-
Jiménez	-	43,305	-	-	-	-	-	-	-	-
Juárez	-	-	-	-	-	-	-	4,563,029	-	-
Julimes	3,887	-	-	-	-	-	-	-	-	-
<b>DURANGO</b>	<b>0</b>	<b>390</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,505,608</b>	<b>0</b>
Durango	-	-	-	-	-	-	-	-	1,505,608	-
Indé	-	-	-	-	-	-	-	-	-	-
Peñón Blanco	-	390	-	-	-	-	-	-	-	-

## RESUMEN DE LA PRODUCCIÓN MINERA POR ENTIDAD Y MUNICIPIO, 2022<sup>A/ B/</sup>

Feldespatos	Fluorita	Fosforita	Grafito	Manganeso	Molibdeno	Sal	Arena Sílica	Wollastonita	Yeso	Sulfato de Sodio	Sulfato de Magnesio
494,671	1,000,626	441,704	1,976	220,745	15,496	8,659,668	4,038,190	84,713	6,558,087	764,189	66,498
0	0	0	0	0	0	864	0	0	0	0	0
-	-	-	-	-	-	864	-	-	-	-	-
0	0	367,274	0	0	0	6,853,310	0	0	2,919,810	0	0
-	-	-	-	-	-	6,853,310	-	-	2,919,810	-	-
-	-	367,274	-	-	-	-	-	-	-	-	-
0	32,763	0	0	0	0	0	1,977,833	0	263,100	764,189	66,498
-	-	-	-	-	-	-	-	-	-	-	-
-	30,167	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	3,017	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1,977,833	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	29,287	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	2,596	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	230,796	-	-
-	-	-	-	-	-	-	-	-	-	764,189	66,498
0	0	0	0	0	0	16,183	0	0	96,841	0	0
-	-	-	-	-	-	9,650	-	-	-	-	-
-	-	-	-	-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	6,533	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	96,841	-	-
0	0	0	0	0	0	0	0	0	406,737	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	325,641	-	-
-	-	-	-	-	-	-	0	-	-	-	-
-	-	-	-	-	-	-	-	-	81,096	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	371	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	371	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

ESTADO Y MUNICIPIO	Barita	Caolín	Carbón		Celestita	Coque	Diatomita	Dolomita	Fierro	
			No Coquizable	Todo Uno					Mina <sup>2/</sup>	Pellets <sup>3/</sup>
<b>Total en toneladas</b>	<b>305,270</b>	<b>227,798</b>	<b>4,632,921</b>	<b>5,963,306</b>	<b>33,787</b>	<b>479,800</b>	<b>164,001</b>	<b>10,287,326</b>	<b>9,190,282</b>	<b>6,799,766</b>
<b>GUANAJUATO</b>	<b>0</b>	<b>11,923</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Celaya	-	7,521	-	-	-	-	-	-	-	-
Comonfort	-	4,402	-	-	-	-	-	-	-	-
<b>GUERRERO</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>163</b>	<b>0</b>
Atenango del Río	-	-	-	-	-	-	-	-	-	-
Petatlán	-	-	-	-	-	-	-	-	-	-
La Unión de Isidoro Montes de Oca	-	-	-	-	-	-	-	-	163	-
<b>HIDALGO</b>	<b>0</b>	<b>1,217</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Agua Blanca de Iturbide	-	1,217	-	-	-	-	-	-	-	-
Molango de Escamilla	-	-	-	-	-	-	-	-	-	-
Pacula	-	-	-	-	-	-	-	-	-	-
Xochicoatlán	-	-	-	-	-	-	-	-	-	-
<b>JALISCO</b>	<b>365</b>	<b>153</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>163,881</b>	<b>3,474</b>	<b>0</b>	<b>0</b>
Chiquilistlán	238	0	-	-	-	-	-	174	-	-
Etzatlán	-	153	-	-	-	-	-	-	-	-
Pihuamo	-	-	-	-	-	-	0	3,276	-	-
Tamazula de Gordiano	-	-	-	-	-	-	-	-	-	-
Tecolotlán	127	-	-	-	-	-	-	-	-	-
Tonaya	-	-	-	-	-	-	-	-	-	-
Tuxcacuesco	-	-	-	-	-	-	-	24	-	-
Villa Corona	-	-	-	-	-	-	108	-	-	-
Zacoalco de Torres	-	-	-	-	-	-	163,773	0	-	-
<b>MICHOACÁN DE OCAMPO</b>	<b>0</b>	<b>2,671</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>120</b>	<b>0</b>	<b>2,850,713</b>	<b>1,358,185</b>
Aquila	-	-	-	-	-	-	-	0	1,193,617	-
Chinicuila	-	0	-	-	-	-	-	-	-	-
Ecuandureo	-	-	-	-	-	-	60	-	-	-
Huetamo	-	-	-	-	-	-	-	-	4,455	-
Lázaro Cárdenas	-	-	-	-	-	-	-	-	1,652,641	1,358,185
Senguio	-	-	-	-	-	-	60	-	-	-
Zinapécuaro	-	2,671	-	-	-	-	-	-	-	-
<b>NAYARIT</b>	<b>0</b>	<b>205</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Santiago Ixcuintla	-	205	-	-	-	-	-	-	-	-
<b>MORELOS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Puente de Ixtla	-	-	-	-	-	-	-	-	-	-
<b>NUEVO LEÓN</b>	<b>205,532</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>467,376</b>	<b>0</b>	<b>0</b>
Aramberri	83,888	-	-	-	-	-	-	-	-	-
Galeana	121,644	-	-	-	-	-	-	-	-	-
García	-	-	-	-	-	-	-	467,376	-	-
Mina	-	-	-	-	-	-	-	-	-	-
<b>OAXACA</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Heroica Ciudad de Juchitán de Zaragoza	-	-	-	-	-	-	-	-	-	-
Salina Cruz	-	-	-	-	-	-	-	-	-	-
San Pedro Huamelula	-	-	-	-	-	-	-	-	-	-
Santiago Astata	-	-	-	-	-	-	-	-	-	-
Santo Domingo Tehuantepec	-	-	-	-	-	-	-	-	-	-

## RESUMEN DE LA PRODUCCIÓN MINERA POR ENTIDAD Y MUNICIPIO, 2022<sup>A/ B/</sup>

Feldespatos	Fluorita	Fosforita	Grafito	Manganeso	Molibdeno	Sal	Arena Sílica	Wollastonita	Yeso	Sulfato de Sodio	Sulfato de Magnesio
494,671	1,000,626	441,704	1,976	220,745	15,496	8,659,668	4,038,190	84,713	6,558,087	764,189	66,498
0	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	40,356	0	0	2,987	0	0
-	-	-	-	-	-	-	-	-	2,987	-	-
-	-	-	-	-	-	40,356	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	74,430	0	194,399	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	188,172	-	-	-	-	-	-	-
-	-	74,430	-	-	-	-	-	-	-	-	-
-	-	-	-	6,227	-	-	-	-	-	-	-
156	0	0	0	0	0	0	0	0	19,286	0	0
-	-	-	-	-	-	-	-	-	88	-	-
-	-	-	-	-	-	-	-	-	-	-	-
156	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	19,114	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	84	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	320	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	320	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	16,098	0	0
-	-	-	-	-	-	-	-	-	16,098	-	-
0	0	0	0	0	0	252,745	0	0	1,351,582	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	0	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	252,745	-	-	313,375	-	-
-	-	-	-	-	-	-	-	-	1,038,207	-	-
0	0	0	0	0	0	4,089	0	0	0	0	0
-	-	-	-	-	-	793	-	-	-	-	-
-	-	-	-	-	-	2,210	-	-	-	-	-
-	-	-	-	-	-	271	-	-	-	-	-
-	-	-	-	-	-	398	-	-	-	-	-
-	-	-	-	-	-	417	-	-	-	-	-



ESTADO Y MUNICIPIO	Barita	Caolín	Carbón		Celestita	Coque	Diatomita	Dolomita	Fierro	
			No Coquizable	Todo Uno					Mina <sup>2/</sup>	Pellets <sup>3/</sup>
<b>Total en toneladas</b>	<b>305,270</b>	<b>227,798</b>	<b>4,632,921</b>	<b>5,963,306</b>	<b>33,787</b>	<b>479,800</b>	<b>164,001</b>	<b>10,287,326</b>	<b>9,190,282</b>	<b>6,799,766</b>
<b>PUEBLA</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66,269</b>	<b>0</b>
Ahuazotepec	-	-	-	-	-	-	-	-	-	-
Jolalpan	-	-	-	-	-	-	-	-	66,269	-
Izúcar de Matamoros	-	-	-	-	-	-	-	0	-	-
<b>QUERÉTARO</b>	<b>0</b>	<b>27,543</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Tequisquiapan	-	27,543	-	-	-	-	-	-	-	-
<b>SAN LUIS POTOSÍ</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Guadalcázar	-	-	-	-	-	-	-	-	-	-
San Nicolás Tolentino	-	-	-	-	-	-	-	-	-	-
Santa María del Río	-	-	-	-	-	-	-	0	-	-
Villa Juárez	-	-	-	-	-	-	-	-	-	-
Zaragoza	-	-	-	-	-	-	-	-	-	-
<b>SONORA</b>	<b>81,053</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,053</b>	<b>0</b>
Álamos	-	-	-	-	-	-	-	-	-	-
Baviácora	-	-	-	-	-	-	-	0	-	-
Cananea	-	-	-	-	-	-	-	-	-	-
Carbó	-	-	-	-	-	-	-	0	-	-
La Colorada	-	-	-	-	-	-	-	0	-	-
Hermosillo	-	-	-	-	-	-	-	0	-	-
Huásabas	-	-	-	-	-	-	-	0	-	-
Huatabampo	-	-	-	-	-	-	-	-	-	-
Nacoziari de García	-	-	-	-	-	-	-	-	-	-
Rosario	-	-	-	-	-	-	-	-	1,053	-
Soyopa	-	-	-	-	-	-	-	-	-	-
Villa Pesqueira	81,053	-	-	-	-	-	-	-	-	-
San Ignacio Río Muerto	-	-	-	-	-	-	-	-	-	-
<b>VERACRUZ DE IGNACIO DE LA LLAVE</b>	<b>0</b>	<b>2,776</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Huayacocotla	-	2,776	-	-	-	-	-	-	-	-
Ixhuatlán del Sureste	-	-	-	-	-	-	-	-	-	-
Jáltipan	-	-	-	-	-	-	-	-	-	-
Pánuco	-	-	-	-	-	-	-	-	-	-
San Juan Evangelista	-	-	-	-	-	-	-	-	-	-
<b>YUCATÁN</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Río Lagartos	-	-	-	-	-	-	-	-	-	-
<b>NO DEFINIDO</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Notas:**

A/ El selenio se recupera a partir de 2010 con una producción de 141 toneladas.

B/ En el caso del azufre, este se recupera en las refinerías de petróleo que se ubican en las siguientes entidades: **Chiapas** 0 tons., **Guanajuato** 9 727 tons., Hidalgo 2 141, **Nuevo León** 52 193 tons., **Oaxaca** 4 593 tons., **Tabasco** 176 282 tons., **Tamaulipas** 31 556 tons., y **Veracruz de Ignacio de la Llave** 12 633 tons. El **total nacional** es de **289 125 tons.**

1/ Se considera como origen el lugar donde se encuentran ubicadas las plantas coquizadoras, ya que el origen del mineral utilizado como materia prima se registra en la producción minera del carbón.

2/ Contenido metálico en producción de mina.

3/ Contenido metálico en producción de pellets, considerando como origen el lugar donde se encuentran ubicadas las plantas pelletizadoras; ya que el origen del mineral utilizado se registra en la columna relativa a producción de mina.

Fuente: INEGI.

## RESUMEN DE LA PRODUCCIÓN MINERA POR ENTIDAD Y MUNICIPIO, 2022<sup>A/ B/</sup>

Feldespatos	Fluorita	Fosforita	Grafito	Manganeso	Molibdeno	Sal	Arena Sílica	Wollastonita	Yeso	Sulfato de Sodio	Sulfato de Magnesio
494,671	1,000,626	441,704	1,976	220,745	15,496	8,659,668	4,038,190	84,713	6,558,087	764,189	66,498
494,515	0	0	0	0	0	0	0	0	411,143	0	0
494,515	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	411,143	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
0	967,492	0	0	0	0	0	0	0	925,976	0	0
-	-	-	-	-	-	-	-	-	348,257	-	-
-	-	-	-	-	-	-	-	-	136,447	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	441,272	-	-
-	967,492	-	-	-	-	-	-	-	-	-	-
0	0	0	1,976	0	15,496	257,064	4,286	84,713	144,207	0	0
-	-	-	-	-	-	-	-	-	144,207	-	-
-	-	-	-	-	-	8,974	-	-	-	-	-
-	-	-	-	-	5,375	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	1,976	-	-	-	-	-	-	-	-
-	-	-	-	-	-	28,851	-	84,713	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	9,684	-	-	-	-	-
-	-	-	-	-	10,121	-	4,286	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	209,555	-	-	-	-	-
0	0	0	0	26,346	0	1,160,322	2,056,071	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	791,309	-	-	-	-	-
-	-	-	-	-	-	369,013	1,411,219	-	-	-	-
-	-	-	-	26,346	-	-	-	-	-	-	-
-	-	-	-	-	-	-	644,852	-	-	-	-
0	0	0	0	0	0	25,133	0	0	0	0	0
-	-	-	-	-	-	25,133	-	-	-	-	-
0	0	0	0	0	0	49,602	0	0	0	0	0

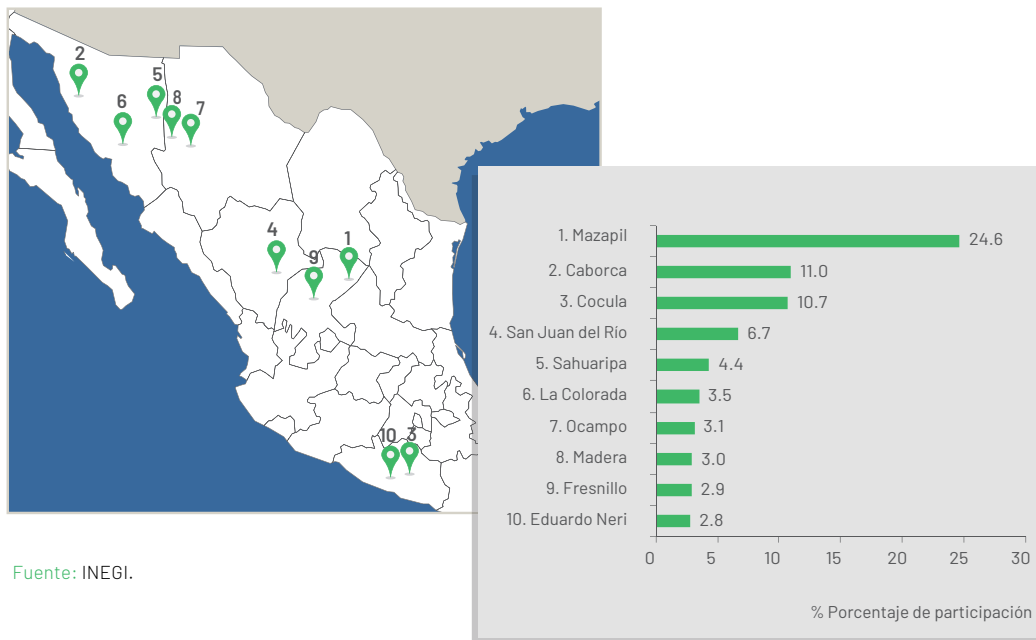
PRODUCTOS	ENE	FEB	MAR	ABR	MAY
<b>TOTAL</b>	<b>89.156</b>	<b>87.111</b>	<b>89.515</b>	<b>84.285</b>	<b>86.626</b>
<b>MINERALES PRECIOSOS</b>	<b>90.240</b>	<b>86.704</b>	<b>87.566</b>	<b>79.894</b>	<b>82.885</b>
Oro	98.213	90.079	89.920	78.590	80.525
Plata	80.680	82.656	84.742	81.457	85.716
<b>MINERALES INDUSTRIALES NO FERROSOS</b>	<b>106.043</b>	<b>106.730</b>	<b>108.508</b>	<b>104.422</b>	<b>106.955</b>
Plomo	74.739	71.229	70.882	70.612	72.792
Cobre	116.800	118.759	120.433	119.999	120.378
Zinc	76.753	77.545	76.083	68.209	71.855
Bismuto	0.000	0.000	0.000	0.000	0.000
Cadmio	94.280	84.356	98.415	76.912	86.010
Selenio	118.182	109.091	100.000	100.000	100.000
Molibdeno	128.101	121.891	137.462	99.729	122.465
<b>MINERALES SIDERÚRGICOS</b>	<b>45.718</b>	<b>42.221</b>	<b>51.086</b>	<b>51.792</b>	<b>50.588</b>
Carbón No Coquizable	33.610	34.586	35.908	36.780	36.782
Coque	19.591	20.059	24.125	22.389	23.507
Fierro	80.677	70.616	86.587	90.271	86.023
Manganeso	87.964	74.515	123.307	121.804	114.975
<b>MINERALES NO METÁLICOS</b>	<b>87.994</b>	<b>88.294</b>	<b>93.322</b>	<b>91.003</b>	<b>93.976</b>
Azufre	30.469	27.966	28.256	36.096	30.795
Grafito	30.068	30.239	29.214	29.727	25.456
Barita	219.052	263.634	268.166	304.015	231.946
Dolomita	117.973	114.566	112.571	109.693	112.447
Fluorita	83.610	85.260	84.314	85.783	80.672
Caolín	50.056	50.848	54.222	52.883	60.397
Arena Silica	137.674	136.707	136.061	134.836	133.721
Yeso	127.088	130.176	132.608	131.041	130.715
Fosforita	3.651	13.312	30.080	32.479	29.102
Wollastonita	176.140	168.643	196.077	192.496	195.449
Celestita	55.452	49.928	70.271	26.185	58.745
Feldespato	265.011	256.971	261.224	251.098	289.159
Sal	81.714	84.027	93.933	75.816	109.257
Diatomita	191.656	189.420	185.290	181.695	177.963
Sulfato de Sodio	124.589	112.518	124.628	120.698	114.906
Sulfato de Magnesio	132.214	116.844	137.886	144.988	162.134

Fuente: INEGI.

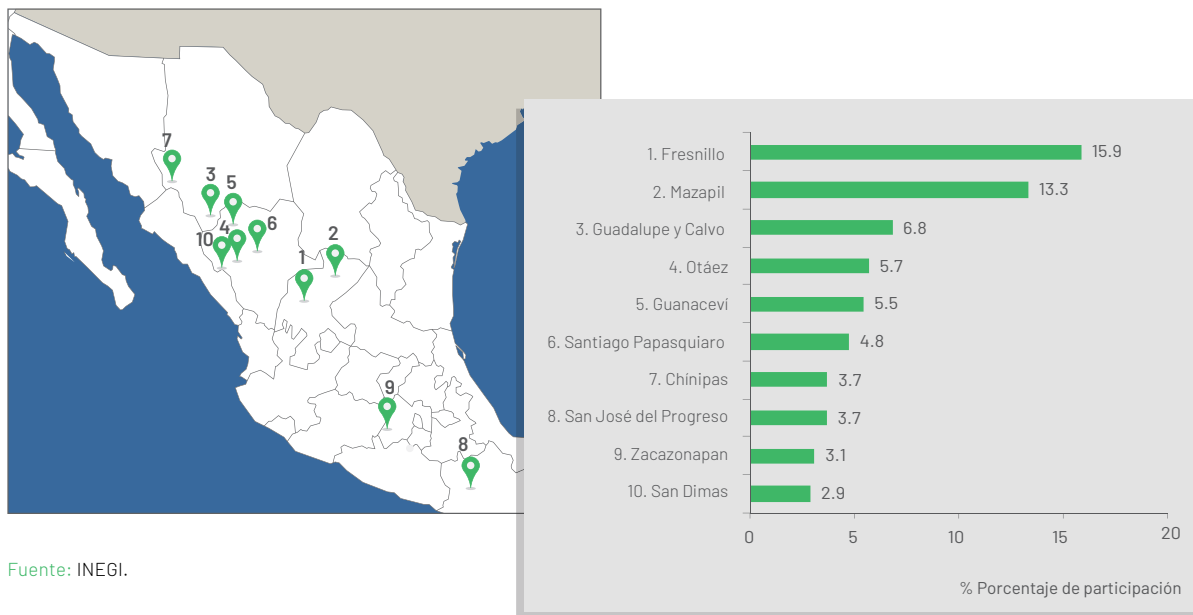
## ÍNDICES MENSUALES DE VOLUMEN FÍSICO DE LA PRODUCCIÓN MINERO-METALÚRGICA 2022 (2013 = 100)

JUN	JUL	AGO	SEP	OCT	NOV	DIC	PROMEDIO
<b>85.208</b>	<b>82.087</b>	<b>85.953</b>	<b>84.993</b>	<b>85.951</b>	<b>86.608</b>	<b>88.206</b>	<b>86.3</b>
<b>86.058</b>	<b>77.321</b>	<b>81.241</b>	<b>82.264</b>	<b>80.148</b>	<b>81.766</b>	<b>83.936</b>	<b>83.3</b>
86.650	76.299	82.718	85.780	83.232	83.698	86.870	85.2
85.349	78.546	79.470	78.048	76.449	79.450	80.419	81.1
<b>97.248</b>	<b>102.001</b>	<b>108.300</b>	<b>105.662</b>	<b>110.428</b>	<b>110.346</b>	<b>111.934</b>	<b>106.5</b>
70.145	72.798	71.966	71.756	70.271	68.845	69.061	71.3
105.802	111.791	120.686	117.008	123.973	124.680	125.231	118.8
72.790	77.517	78.897	77.474	79.284	72.257	82.033	75.9
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
80.221	74.431	77.739	76.085	76.085	75.258	71.123	80.9
109.091	109.091	109.091	118.182	100.000	100.000	109.091	106.8
122.082	117.593	121.796	122.465	122.942	136.220	127.527	123.4
<b>50.848</b>	<b>49.502</b>	<b>48.024</b>	<b>46.024</b>	<b>48.551</b>	<b>48.833</b>	<b>49.498</b>	<b>48.6</b>
36.830	35.835	35.004	34.874	34.538	35.285	35.483	35.5
25.835	23.493	21.979	19.183	19.111	19.813	20.697	21.6
84.319	83.711	86.233	78.998	87.099	86.498	87.144	84.0
110.154	112.116	52.173	119.104	110.449	112.258	113.285	104.3
<b>89.757</b>	<b>92.659</b>	<b>95.504</b>	<b>88.609</b>	<b>93.877</b>	<b>91.130</b>	<b>90.170</b>	<b>91.4</b>
21.724	26.952	27.689	23.948	29.475	27.223	27.619	28.2
28.531	26.822	28.189	28.360	26.993	26.481	27.506	28.1
232.629	265.644	256.136	266.639	269.875	253.473	236.780	255.7
114.502	120.639	122.111	121.737	122.631	121.162	119.758	117.5
79.059	79.110	81.109	83.026	82.812	83.033	84.178	82.7
62.126	62.262	62.100	62.904	66.896	69.640	66.718	60.1
133.951	137.952	139.373	139.743	139.815	139.952	139.607	137.4
131.567	127.701	127.628	124.375	126.101	129.218	127.630	128.8
17.416	21.297	17.532	9.666	19.162	18.334	27.001	19.9
164.727	153.649	162.256	131.681	114.739	63.663	54.511	147.8
66.057	49.343	25.159	63.543	40.792	48.175	44.545	49.9
298.125	321.274	329.175	332.195	337.120	340.709	326.833	300.7
97.886	100.038	113.838	78.025	96.688	86.527	80.578	91.5
178.430	185.084	189.804	190.668	192.795	193.933	193.371	187.5
114.124	119.009	121.682	119.287	123.289	120.127	114.648	119.1
157.735	151.110	151.746	140.244	160.438	146.340	160.597	146.9

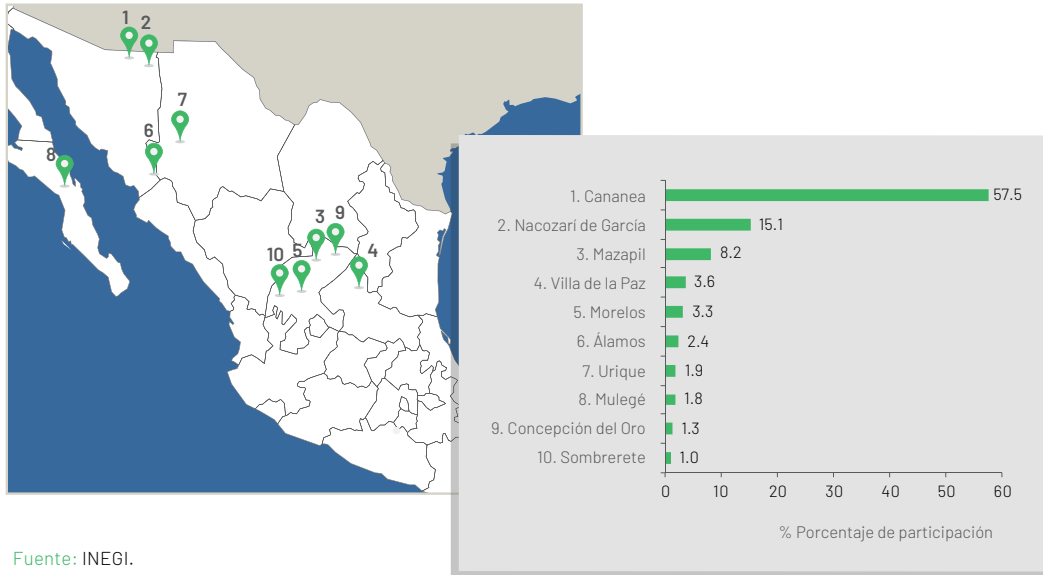
## PRINCIPALES MUNICIPIOS PRODUCTORES DE ORO DURANTE 2022



## PRINCIPALES MUNICIPIOS PRODUCTORES DE PLATA DURANTE 2022

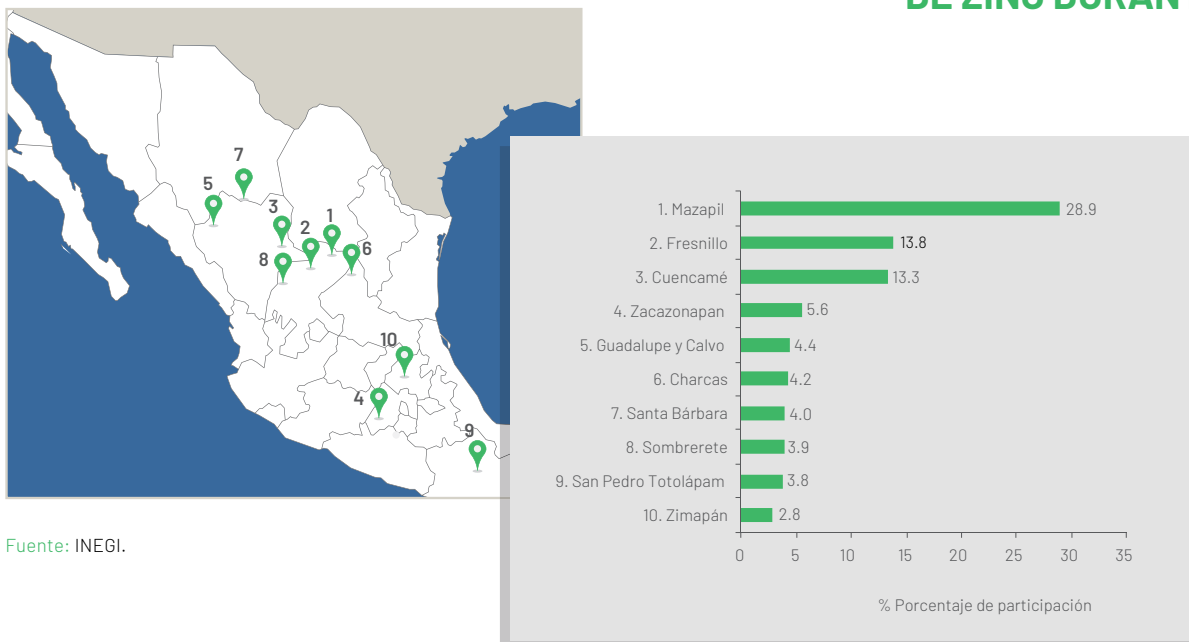


## PRINCIPALES MUNICIPIOS PRODUCTORES DE COBRE DURANTE 2022



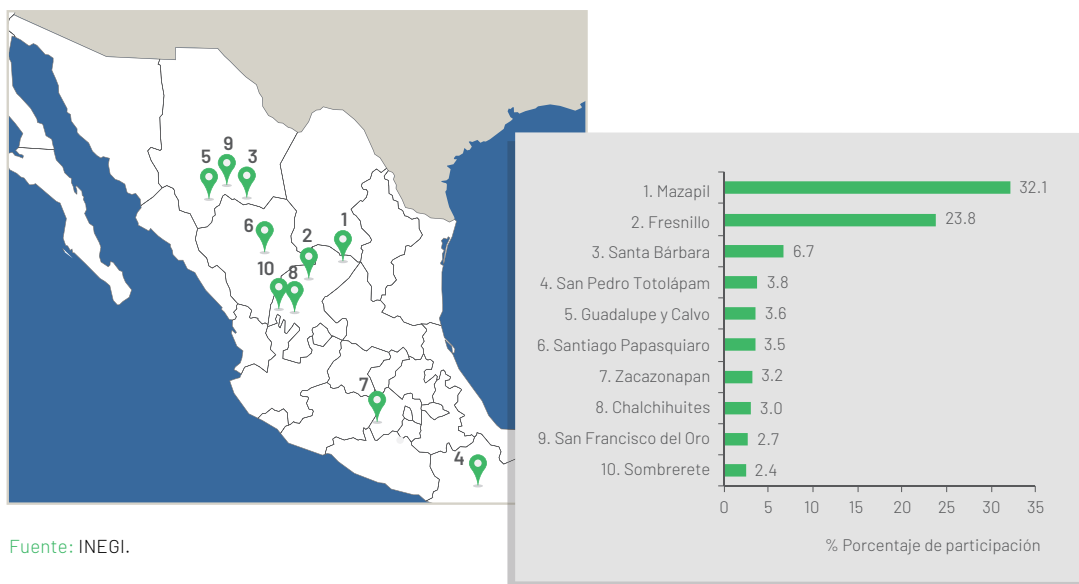
Fuente: INEGI.

## PRINCIPALES MUNICIPIOS PRODUCTORES DE ZINC DURANTE 2022

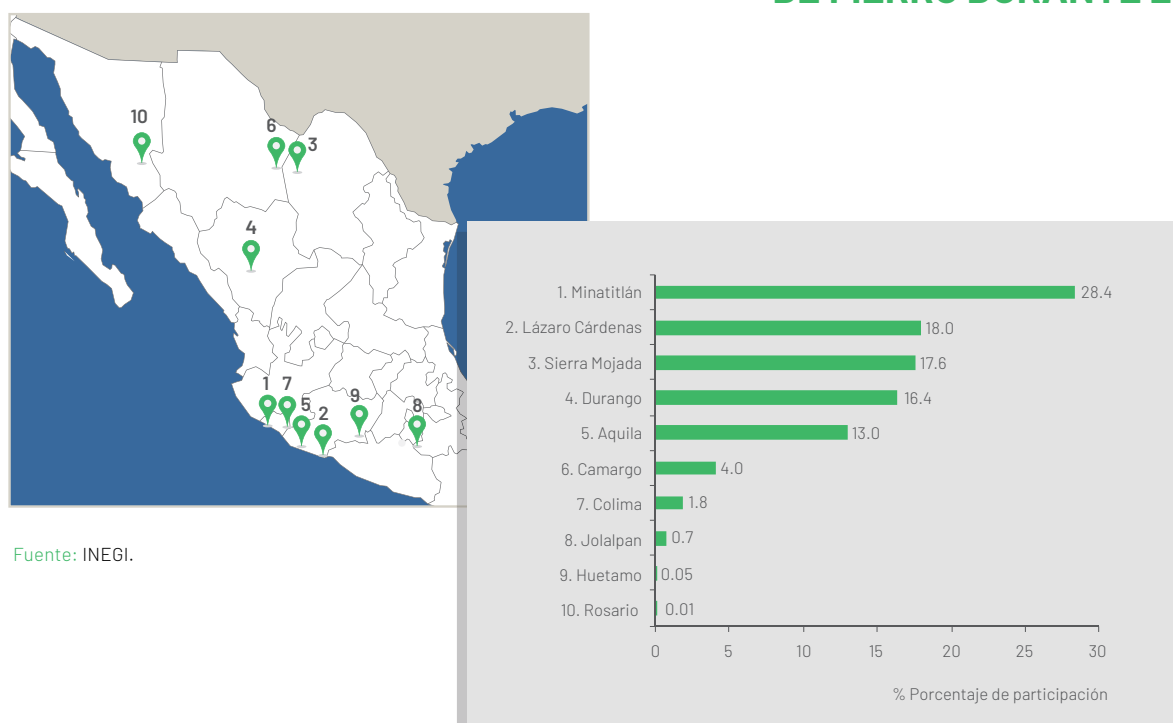


Fuente: INEGI.

## PRINCIPALES MUNICIPIOS PRODUCTORES DE PLOMO DURANTE 2022



## PRINCIPALES MUNICIPIOS PRODUCTORES DE FIERRO DURANTE 2022



## EXPORTACIONES MINERO-METALÚRGICAS 2015-2022 (Dólares)

PRODUCTOS	2015	2016	2017	2018	2019	2020	2021r/	2022 p/
<b>TOTAL</b>	<b>14,629,789,749</b>	<b>15,729,780,841</b>	<b>16,649,804,962</b>	<b>18,124,998,998</b>	<b>17,819,802,166</b>	<b>19,027,128,627</b>	<b>22,968,702,526</b>	<b>22,408,067,002</b>
<b>METALES PRECIOSOS</b>	<b>6,791,489,261</b>	<b>7,409,244,629</b>	<b>7,096,898,566</b>	<b>6,829,383,348</b>	<b>7,309,871,544</b>	<b>8,021,955,797</b>	<b>8,597,172,607</b>	<b>7,832,248,590</b>
Oro	4,321,352,119	4,888,529,589	4,442,267,239	4,316,479,675	4,625,541,890	4,877,213,478	5,195,244,566	4,769,960,339
Plata	2,361,901,215	2,407,434,356	2,529,681,477	2,330,801,003	2,465,010,424	2,748,782,806	3,397,550,244	3,027,953,573
Platino	108,235,927	113,280,684	124,949,850	182,102,670	219,319,230	395,959,513	4,377,797	34,334,678
<b>METALES INDUSTRIALES</b>	<b>6,698,606,789</b>	<b>7,196,668,845</b>	<b>8,417,963,723</b>	<b>10,001,663,122</b>	<b>9,185,082,582</b>	<b>9,822,708,002</b>	<b>13,115,871,719</b>	<b>13,516,570,279</b>
Cobre	2,520,673,000	2,820,726,054	3,556,847,581	4,246,599,469	4,361,832,119	4,603,707,301	6,365,843,841	6,352,277,022
Zinc	1,083,105,010	1,145,731,742	1,599,812,846	1,779,594,423	1,392,037,787	1,163,810,614	1,531,690,471	1,617,177,665
Plomo	1,599,926,957	1,195,422,527	1,513,082,898	1,247,394,075	1,023,171,267	1,830,510,235	2,401,119,781	2,224,227,937
Fierro	626,012,619	524,645,514	821,825,725	1,507,653,031	1,218,457,240	1,135,976,992	1,285,678,411	1,099,988,885
Aluminio	428,015,661	1,207,706,368	518,857,032	623,814,541	562,026,443	555,054,493	1,023,120,016	1,417,881,018
Magnesio	39,929,394	33,577,215	43,281,228	49,870,122	31,886,082	25,345,613	50,645,560	64,192,306
Níquel	14,657,444	16,530,610	22,619,071	30,696,983	38,448,012	28,239,620	29,150,642	48,191,011
Titanio	12,737,886	7,816,044	22,326,539	14,870,395	23,761,729	18,525,074	60,992,459	72,856,448
Estaño	16,533,193	14,728,452	16,189,791	20,588,288	23,145,647	22,579,390	44,637,681	43,445,270
Otros	357,015,625	229,784,319	303,121,012	480,581,795	510,316,256	438,958,670	322,992,857	576,332,719
<b>MINERALES NO METÁLICOS</b>	<b>1,139,693,699</b>	<b>1,123,867,367</b>	<b>1,134,942,673</b>	<b>1,293,952,528</b>	<b>1,324,848,040</b>	<b>1,182,464,828</b>	<b>1,255,658,200</b>	<b>1,059,248,133</b>
Abrasivos Naturales	163,530,680	173,578,949	169,360,144	182,149,331	191,818,724	155,521,080	5,194,289	2,397,260
Fluorita	128,561,750	116,850,436	131,139,020	188,546,003	236,992,898	212,896,615	217,962,197	171,626,163
Grafito	109,671,187	134,176,835	131,962,024	162,673,603	190,900,422	175,805,288	4,643,196	7,007,556
Cemento	93,760,533	101,915,011	125,116,845	183,833,303	180,466,985	188,237,761	205,176,350	278,694,617
Sal	154,740,833	143,962,699	114,999,677	118,287,715	137,905,261	118,153,456	164,799,901	167,997,712
Rocas Dimensionables	106,632,408	103,557,432	87,210,694	71,655,812	66,827,407	61,304,713	10,910,320	9,886,468
Piedras Preciosas	82,954,881	75,733,936	50,889,881	42,687,453	39,803,221	30,650,473	4,888,665	5,188,473
Barita	27,846,483	15,831,848	39,073,702	42,178,106	46,842,085	29,054,404	35,247,190	39,324,293
Otros	271,994,944	258,260,221	285,190,686	301,941,202	233,291,037	210,841,038	606,836,093	377,125,591

### Notas:

r/ Cifras revisadas.

p/ Cifras preliminares sujetas a revisión.

Fuente: Secretaría de Economía, Banxico e INEGI, varios años.



## IMPORTACIONES MINERO-METALÚRGICAS 2015-2022

(Dólares)

PAÍSES	2015	2016	2017	2018	2019	2020	2021/r	2022 p/
<b>TOTAL</b>	<b>8,118,621,324</b>	<b>8,000,176,484</b>	<b>9,435,790,906</b>	<b>12,385,976,820</b>	<b>11,058,884,731</b>	<b>8,878,674,992</b>	<b>12,513,893,742</b>	<b>14,458,064,963</b>
<b>Metales Preciosos</b>	<b>338,957,985</b>	<b>275,327,990</b>	<b>242,408,162</b>	<b>300,050,076</b>	<b>267,586,293</b>	<b>234,785,878</b>	<b>334,805,941</b>	<b>327,544,386</b>
Oro	197,621,101	159,706,914	113,957,608	146,535,305	127,035,358	113,521,914	135,932,013	145,322,520
Plata	85,257,393	73,645,801	82,175,336	97,072,770	95,522,715	100,726,990	163,912,529	152,034,410
Platino	56,079,491	41,975,275	46,275,218	56,442,001	45,028,220	20,536,974	34,961,400	30,187,456
<b>Metales Industriales</b>	<b>5,440,125,294</b>	<b>5,394,535,883</b>	<b>6,181,589,465</b>	<b>8,799,643,380</b>	<b>7,943,049,494</b>	<b>6,955,998,640</b>	<b>10,293,336,155</b>	<b>11,516,202,664</b>
Aluminio	2,603,913,249	2,331,459,037	2,598,843,057	3,233,403,631	2,743,389,801	2,061,898,974	3,679,397,730	5,191,993,371
Fierro	1,087,688,693	1,308,550,152	1,329,624,426	2,515,118,545	2,185,246,970	1,919,724,977	2,340,237,753	2,442,674,995
Cobre	841,576,602	858,318,241	1,106,278,305	1,665,721,500	1,923,769,481	2,182,064,674	3,067,245,782	2,110,310,081
Zinc	117,829,808	165,213,290	219,066,057	309,910,295	265,751,294	145,644,607	203,496,194	367,158,044
Níquel	159,287,242	158,967,283	184,434,466	225,380,897	290,563,946	214,681,720	229,980,711	348,031,961
Titanio	75,682,515	112,994,324	139,967,014	168,193,837	9,889,756	14,908,937	282,487,254	338,792,134
Estaño	107,120,866	112,447,917	135,013,400	140,296,117	134,426,677	109,417,542	194,365,802	180,174,597
Magnesio	86,106,907	67,082,758	78,397,645	91,824,446	31,188,816	27,226,971	101,782,150	171,464,575
Tungsteno	29,369,121	27,651,717	35,100,808	36,932,116	34,792,572	27,043,436	42,150,713	51,076,022
Otros	331,550,291	251,851,164	354,864,287	412,861,996	324,030,181	253,386,802	152,192,066	314,526,883
<b>Minerales No Metálicos</b>	<b>2,339,538,045</b>	<b>2,330,312,611</b>	<b>3,011,793,279</b>	<b>3,286,283,364</b>	<b>2,848,248,944</b>	<b>1,687,890,474</b>	<b>1,885,751,645</b>	<b>2,614,317,913</b>
Carbón	797,379,051	826,611,065	1,400,614,300	1,516,283,165	1,184,724,760	304,262,630	709,725,204	1,269,221,811
Abrasivos Naturales	155,772,501	167,874,358	179,008,281	182,194,496	170,642,891	139,815,573	11,097,606	10,053,531
Rocas Dimensionables	161,857,308	159,607,136	156,924,679	176,916,645	147,800,621	118,546,345	2,930,188	2,371,512
Piedras Preciosas	166,415,323	154,231,019	136,076,720	131,731,654	124,286,747	88,871,534	22,086,695	23,627,479
Fosforita	114,403,780	77,995,515	120,642,612	143,358,207	142,973,150	161,723,740	132,458,864	154,148,528
Silice	73,414,132	69,119,350	99,737,702	87,544,017	83,138,045	49,386,015	70,726,733	83,999,884
Caolín	75,770,308	80,518,890	81,652,716	88,502,426	88,361,393	83,452,219	97,258,224	110,152,302
Arcillas	43,409,408	43,805,381	40,564,581	40,730,704	33,532,600	32,055,091	72,186,667	68,496,262
Otros	751,116,234	750,549,897	796,571,688	919,022,050	872,788,737	709,777,327	767,281,465	892,246,604

**Notas:**

r/ Cifras revisadas.

p/ Cifras preliminares sujetas a revisión.

Fuente: Secretaría de Economía, Banxico e INEGI, varios años.

## BALANZA COMERCIAL MINERO-METALÚRGICA 2015-2022

(Dólares)

EXPORTACIONES	2015	2016	2017	2018	2019	2020	2021 r/	2022 p/
<b>TOTAL</b>	<b>14,629,789,749</b>	<b>15,729,780,841</b>	<b>16,649,804,962</b>	<b>18,124,998,998</b>	<b>17,819,802,166</b>	<b>19,027,128,627</b>	<b>22,968,702,526</b>	<b>22,408,067,002</b>
Minerales Metálicos	13,490,096,050	14,605,913,474	15,514,862,289	16,831,046,470	16,494,954,126	17,844,663,799	21,713,044,326	21,348,818,869
Metales Preciosos	6,791,489,261	7,409,244,629	7,096,898,566	6,829,383,348	7,309,871,544	8,021,955,797	8,597,172,607	7,832,248,590
Metales Industriales	6,698,606,789	7,196,668,845	8,417,963,723	10,001,663,122	9,185,082,582	9,822,708,002	13,115,871,719	13,516,570,279
Minerales No Metálicos	1,139,693,699	1,123,867,367	1,134,942,673	1,293,952,528	1,324,848,040	1,182,464,828	1,255,658,200	1,059,248,133
<b>IMPORTACIONES</b>								
<b>TOTAL</b>	<b>8,118,621,324</b>	<b>8,000,176,484</b>	<b>9,435,790,906</b>	<b>12,385,976,820</b>	<b>11,058,884,731</b>	<b>8,878,674,992</b>	<b>12,513,893,742</b>	<b>14,458,064,963</b>
Minerales Metálicos	5,779,083,279	5,669,863,873	6,423,997,627	9,099,693,456	8,210,635,787	7,190,784,518	10,628,142,097	11,843,747,050
Metales Preciosos	338,957,985	275,327,990	242,408,162	300,050,076	267,586,293	234,785,878	334,805,941	327,544,386
Metales Industriales	5,440,125,294	5,394,535,883	6,181,589,465	8,799,643,380	7,943,049,494	6,955,998,640	10,293,336,155	11,516,202,664
Minerales No Metálicos	2,339,538,045	2,330,312,611	3,011,793,279	3,286,283,364	2,848,248,944	1,687,890,474	1,885,751,645	2,614,317,913
<b>SALDO</b>								
<b>TOTAL</b>	<b>6,511,168,425</b>	<b>7,729,604,357</b>	<b>7,214,014,056</b>	<b>5,739,022,178</b>	<b>6,760,917,435</b>	<b>10,148,453,635</b>	<b>10,454,808,784</b>	<b>7,950,002,039</b>
Minerales Metálicos	7,711,012,771	8,936,049,601	9,090,864,662	7,731,353,014	8,284,318,339	10,653,879,281	11,084,902,229	9,505,071,819
Metales Preciosos	6,452,531,276	7,133,916,639	6,854,490,404	6,529,333,272	7,042,285,251	7,787,169,919	8,262,366,666	7,504,704,204
Metales Industriales	1,258,481,495	1,802,132,962	2,236,374,258	1,202,019,742	1,242,033,088	2,866,709,362	2,822,535,564	2,000,367,615
Minerales No Metálicos	-1,199,844,346	-1,206,445,244	-1,876,850,606	-1,992,330,836	-1,523,400,904	-505,425,646	-630,093,445	-1,555,069,780

**Notas:**

r/ Cifras revisadas.

p/ Cifras preliminares sujetas a revisión.

Fuente: Secretaría de Economía, Banxico e INEGI, varios años.

## EXPORTACIONES MINERO-METALÚRGICAS POR PAÍS 2015-2022 (Dólares)

PAÍSES	2015	2016	2017	2018	2019	2020	2021 r/	2022 P/
<b>TOTAL</b>	<b>14,629,789,749</b>	<b>15,729,780,841</b>	<b>16,649,804,962</b>	<b>18,124,998,998</b>	<b>17,819,802,166</b>	<b>19,027,128,627</b>	<b>22,968,702,526</b>	<b>22,408,067,002</b>
Estados Unidos	7,616,157,217	7,742,175,861	8,237,415,160	8,838,818,697	8,784,156,774	8,354,353,628	10,703,638,900	10,140,609,739
China	1,527,758,227	1,894,234,904	2,588,504,624	3,133,726,639	3,042,754,713	3,650,418,570	4,164,279,503	4,180,848,965
Corea	1,035,232,877	839,607,872	1,088,897,471	1,158,183,020	1,045,616,430	1,637,423,122	1,662,181,936	1,774,993,899
Reino Unido	355,220,488	1,292,522,505	772,601,632	721,342,102	1,282,927,091	1,297,278,902	1,609,818,370	1,549,158,885
Suiza	999,737,310	371,251,767	423,232,460	518,729,170	382,357,847	618,903,934	619,975,300	666,859,878
Japón	306,207,891	395,987,095	512,344,366	542,737,730	647,928,046	606,585,653	783,692,634	739,466,923
Bélgica	492,688,665	350,084,310	477,408,459	532,389,850	377,622,085	336,849,561	446,681,496	416,241,547
Canadá	412,055,893	362,712,379	402,801,519	470,622,885	281,236,420	333,660,830	382,639,053	383,124,252
Brasil	240,212,386	186,436,082	216,237,053	230,131,650	191,152,147	250,517,593	274,398,917	281,366,686
Alemania	93,378,824	217,442,278	228,755,512	313,055,080	161,399,507	145,056,837	191,570,429	178,863,248
Italia	188,026,927	226,333,813	173,316,900	146,835,670	200,953,263	138,053,414	212,834,580	185,111,877
Países Bajos	91,352,738	112,878,732	103,537,319	154,219,187	112,835,350	114,894,725	142,067,044	136,954,896
España	123,647,212	143,439,890	139,555,354	141,110,233	133,327,776	111,928,024	153,483,190	140,776,715
Taiwán	109,606,287	58,822,438	62,461,767	98,206,162	93,072,607	106,209,176	124,088,119	123,070,411
Chile	31,186,143	20,008,612	29,278,307	56,437,651	80,024,921	99,278,226	111,495,893	112,846,721
Guatemala	41,395,715	47,430,921	72,761,962	80,672,201	58,718,840	63,529,410	76,187,545	74,572,943
Perú	171,099,005	36,641,981	65,849,338	83,670,984	22,855,395	33,871,495	35,173,727	37,102,659
Australia	170,328,617	153,411,581	298,405,332	204,102,269	27,175,219	28,424,960	34,670,322	33,649,934
Colombia	34,566,229	19,863,692	28,105,766	32,625,286	18,745,604	24,831,136	27,068,525	27,825,605
Costa Rica	30,970,070	35,215,040	51,616,587	36,237,271	21,924,503	20,091,166	26,256,294	24,638,293
Puerto Rico	11,392,933	13,220,359	30,094,427	30,870,236	11,429,271	19,377,604	19,061,728	20,708,637
Ecuador	18,753,891	8,874,524	18,088,885	10,734,400	8,958,182	16,496,553	15,730,243	17,387,061
Argentina	10,988,505	15,369,285	19,690,124	16,974,459	13,426,235	12,800,146	16,378,706	15,526,767
Rep. Dominicana	11,521,197	8,247,447	4,003,096	11,947,605	1,692,113	11,704,587	8,155,146	10,870,235
Francia	8,351,330	4,878,120	3,787,140	28,672,352	16,219,289	9,944,795	16,455,323	13,882,780
Belice	9,385,544	10,762,326	10,443,847	10,269,859	11,776,786	9,753,683	13,476,907	12,317,386
El Salvador	5,991,413	5,474,577	7,101,090	7,877,937	10,859,670	9,707,647	12,858,065	11,988,410
Cuba	6,734,293	4,756,648	7,160,759	5,889,831	8,774,084	4,423,396	8,324,509	6,665,355
Nicaragua	4,481,893	2,752,686	3,264,897	3,598,014	1,784,985	4,414,443	3,814,831	4,460,282
Venezuela	32,125,037	11,749,696	8,403,161	8,837,399	7,543,532	3,896,217	7,213,260	5,812,866
Honduras	5,546,856	5,946,823	5,958,488	8,311,327	6,350,364	3,752,738	6,357,697	5,311,039
Panamá	4,624,801	3,226,790	3,065,585	3,718,702	1,501,749	1,243,463	1,718,361	1,570,416
Jamaica	846,884	2,356,771	1,620,230	2,080,430	3,888,773	803,042	2,990,901	1,931,816
Los demás	428,216,451	1,125,663,036	554,036,345	481,362,710	748,812,595	946,649,951	1,053,965,071	1,071,549,878

### Notas:

r/ Cifras revisadas.

p/ Cifras preliminares sujetas a revisión.

Fuente: Secretaría de Economía, Banxico e INEGI, varios años.

## IMPORTACIONES MINERO-METALÚRGICAS POR PAÍS 2015-2022

(Dólares)

PAÍSES	2015	2016	2017	2018	2019	2020	2021/r	2022 /p
<b>TOTAL</b>	<b>8,118,621,324</b>	<b>8,000,176,484</b>	<b>9,435,790,906</b>	<b>12,385,976,820</b>	<b>11,058,884,731</b>	<b>8,878,674,992</b>	<b>12,513,893,742</b>	<b>14,458,064,963</b>
Estados Unidos de América	4,106,898,304	3,910,115,951	4,236,639,553	5,084,647,123	4,724,140,294	4,456,740,951	5,813,583,844	6,987,080,227
Brasil	214,038,594	455,074,902	348,155,807	188,704,166	1,114,782,721	1,050,229,135	1,370,840,492	1,647,006,202
Canadá	681,420,403	567,279,504	693,323,225	498,125,049	523,752,270	367,272,300	555,153,749	619,735,239
Sudáfrica	54,506,221	68,048,978	163,798,106	24,588,998	249,251,395	253,097,730	319,384,698	390,574,922
Rusia	375,648,188	245,401,018	306,360,247	311,612,001	556,825,467	243,594,856	486,708,546	479,497,391
China	375,575,692	371,794,983	511,585,257	357,492,732	354,450,079	235,360,470	366,404,759	403,295,787
Chile	186,016,313	145,275,966	381,421,832	282,515,367	346,364,080	225,421,576	354,825,725	388,514,540
India	490,022,386	323,633,596	338,901,246	418,506,403	303,615,508	176,312,269	296,031,112	314,565,156
Perú	91,903,808	63,545,653	80,073,005	16,734,602	131,008,605	166,450,335	191,422,916	246,105,437
Colombia	106,203,564	205,845,892	729,775,647	231,499,255	744,363,191	137,366,410	517,953,590	411,055,660
Japón	50,667,894	48,059,983	53,331,094	43,818,350	96,689,212	109,097,460	131,588,026	164,843,177
Alemania	106,298,438	111,251,210	154,486,182	67,464,665	130,563,801	87,794,896	135,741,483	149,897,965
Corea del Sur	62,735,179	65,941,545	51,191,872	51,950,482	104,939,259	64,169,236	104,594,124	112,668,689
España	57,505,732	66,713,032	64,528,370	56,673,961	86,796,531	54,936,496	87,822,786	95,462,901
Países Bajos	14,451,467	16,182,933	19,222,513	11,967,504	28,502,028	54,325,955	54,410,394	75,664,110
Argentina	23,430,229	43,840,222	60,932,709	40,874	118,583,279	48,145,475	101,021,496	97,558,277
Italia	64,906,734	67,847,680	71,017,899	52,569,673	52,141,190	37,216,594	55,727,823	62,494,692
Australia	342,436,039	254,872,094	101,591,079	4,621,653	49,253,550	34,912,735	52,470,474	58,737,179
Tailandia	16,554,802	20,397,020	22,792,443	2,444,508	23,139,226	25,369,808	30,970,335	38,547,100
R. Unido de la Gran Bretaña e Irlanda	47,015,069	37,072,116	45,963,952	12,104,466	62,595,832	25,220,540	53,189,084	51,260,904
Grecia	8,677,534	11,262,043	9,699,999	11,134,175	15,061,082	21,582,333	23,730,750	31,281,164
Suecia	26,526,901	28,144,091	49,962,431	18,624,038	25,223,422	20,537,981	28,744,474	33,327,182
Bolivia	17,837,519	15,820,139	12,022,933	15,615,017	40,557,284	16,767,077	34,762,720	33,733,529
Bélgica	17,053,224	21,460,402	23,680,453	3,947,719	22,136,605	16,376,256	24,065,165	27,235,553
Francia	14,256,974	16,286,450	20,522,246	9,055,028	17,614,074	13,990,671	19,825,226	22,843,875
Noruega	11,515,041	24,540,162	28,862,294	20,032,342	15,687,234	9,919,446	15,865,991	17,241,904
Finlandia	9,493,863	9,016,751	9,596,448	4,931,161	9,332,526	8,530,675	11,291,905	13,468,804
Austria	8,247,501	10,065,481	14,422,742	3,354,189	9,081,162	7,498,739	10,422,465	12,126,341
Israel	9,530,049	10,185,835	10,225,480	11,513,834	14,950,948	5,340,934	12,222,860	11,409,505
Portugal	3,266,377	2,948,053	3,508,572	2,788,607	3,495,638	3,764,629	4,630,774	5,740,275
Suiza	5,264,694	6,393,331	4,225,118	680,920	1,788,376	2,125,721	2,509,866	3,180,666
Dinamarca	1,123,036	569,244	873,264	286,581	2,407,877	1,847,713	2,664,453	3,043,614
Guatemala	5,197,689	2,878,668	2,511,582	111,278	2,830,414	1,488,662	2,650,489	2,743,207
Los demás	512,395,866	752,411,556	810,585,306	4,565,820,099	1,076,960,571	895,868,928	1,240,661,149	1,446,123,787

### Notas:

r/ Cifras revisadas.

p/ Cifras preliminares sujetas a revisión.

Fuente: Secretaría de Economía, Banxico e INEGI, varios años.

## EMPLEO EN EL SECTOR MINERO-METALÚRGICO POR RAMA DE ACTIVIDAD 2015-2022 (Personas)

INDUSTRIAS	2015	2016	2017	2018	2019	2020	2021	2022
11 EXTRACCIÓN Y BENEFICIO DE CARBÓN MINERAL, GRAFITO y MINERALES NO METÁLICOS; EXCEPTO SAL	39,245	37,731	38,564	37,882	36,056	34,093	35,544	35,001
13 EXTRACCIÓN Y BENEFICIO DE MINERALES METÁLICOS	67,896	70,601	75,379	75,546	74,615	71,046	77,125	77,529
14 EXPLOTACIÓN DE SAL	2,242	2,167	2,152	2,097	2,187	2,313	2,897	4,042
33 FABRICACIÓN DE PRODUCTOS DE MINERALES NO METÁLICOS; EXCEPTO DEL PETRÓLEO Y DEL CARBÓN MINERAL	134,334	139,485	142,710	143,655	143,997	143,326	160,458	162,902
34 INDUSTRIAS METÁLICAS BÁSICAS	101,195	104,718	112,751	119,840	122,238	117,157	130,155	137,906
<b>TOTAL SECTOR MINERO</b>	<b>344,912</b>	<b>354,702</b>	<b>371,556</b>	<b>379,020</b>	<b>379,093</b>	<b>367,935</b>	<b>406,179</b>	<b>417,380</b>

Fuente: IMSS.

## EMPLEO MINERO-METALÚRGICO POR ESTADO Y RAMA DE ACTIVIDAD 2022 (Personas)

ESTADO / RAMA	Minerales No Metálicos	Minerales Metálicos	Sal	Productos a base de Minerales No Metálicos	Industrias Metálicas Básicas	Total
AGUASCALIENTES-1	225	445	31	2,898	1,678	5,277
BAJA CALIFORNIA -2	708	69	89	8,291	6,681	15,838
BAJA CALIFORNIA SUR-3	2,592	17	1,171	434	28	4,242
CAMPECHE-4	65		3	239	28	335
COAHUILA-5	4,993	5,740	66	7,240	19,965	38,004
COLIMA-6	138	2,186	216	657	94	3,291
CHIAPAS-7	64	-	4	700	7	775
CHIHUAHUA-8	572	10,734	30	5,682	4,373	21,391
CIUDAD DE MÉXICO-9	636	1,231	278	6,334	3,807	12,286
DURANGO-10	2,260	9,078	7	1,435	1,868	14,648
GUANAJUATO-11	810	2,845	38	8,506	10,798	22,997
GUERRERO-12	158	3,742	35	538	39	4,512
HIDALGO-13	2,348	1,849	19	6,454	2,436	13,106
JALISCO-14	1,504	944	40	11,052	7,147	20,687
ESTADO DE MÉXICO-15	1,604	1,386	90	18,860	12,596	34,536
MICHOACÁN-16	470	1,235	22	1,295	5,458	8,480
MORELOS-17	205	14	43	1,931	62	2,255
NAYARIT-18	362	208	18	632	34	1,254
NUEVO LEÓN-19	3,669	604	90	32,357	27,685	64,405
OAXACA-20	434	1,450	6	1,938	6	3,834
PUEBLA-21	1,253	141	46	3,870	1,964	7,274
QUERÉTARO-22	901	889	28	6,715	5,275	13,808
QUINTANA ROO-23	747		19	1,879	47	2,692
SAN LUIS POTOSÍ-24	2,344	2,346	20	5,668	6,313	16,691
SINALOA-25	869	3,015	53	1,798	112	5,847
SONORA-26	1,679	12,487	348	2,842	3,502	20,858
TABASCO-27	540	99	0	1,021	29	1,689
TAMAULIPAS-28	452	13	98	5,254	3,516	9,333
TLAXCALA-29	128	56	8	7,083	590	7,865
VERACRUZ-30	1,405	145	520	4,364	11,053	17,487
YUCATÁN-31	753	1	596	3,813	248	5,411
ZACATECAS-32	113	14,560	10	1,122	467	16,272
<b>TOTAL NACIONAL</b>	<b>35,001</b>	<b>77,529</b>	<b>4,042</b>	<b>162,902</b>	<b>137,906</b>	<b>417,380</b>

Fuente: IMSS.