

MINERAL RESOURCES OF THE UNITED STATES.

SUMMARY.

METALS.

Iron and steel.—The production of pig iron in the United States in the year 1889 was 7,603,642 long tons, or 8,516,079 short tons, valued at \$120,000,000, taking as the standard of valuation the price of No. 1 anthracite pig iron in Philadelphia. This was greater than the product of any previous year; but in 1890 the product increased greatly, reaching 10,307,028 short tons, valued at \$151,200,410, and in 1891, 9,273,455 short tons. The production of Bessemer steel in the United States in 1890 was 4,131,535 short tons, against 3,281,829 short tons in 1889, a gain of nearly 26 per cent. The consumption of limestone for flux in iron ore smelting was 5,521,622 long tons in 1890.

Gold and silver.—In 1889 the mines of the United States produced, according to the census returns, 1,590,869 fine ounces of gold, with a coinage value of \$32,886,744, and 51,354,851 ounces of silver, with a coining value of \$66,396,988. In 1890 the product, according to the Director of the Mint, was: Gold, 1,588,880 ounces, valued at \$32,845,000, and silver, 54,500,000 ounces, with a coining value of \$70,464,645.

Copper.—The copper product remained nearly stationary in 1889, being 231,246,214 pounds, and in 1890 increasing to 265,115,133 pounds. It was worth, respectively, \$26,907,809 and \$30,848,797.

Lead.—The total product increased in 1889 to 182,967 short tons, worth \$16,137,689, compared with 180,555 short tons in 1888, worth \$15,924,951. In 1890 the product decreased to 161,754 short tons, worth \$14,266,703. The producers carried a stock of 10,389 short tons on January 1, 1891, as compared with 7,715 short tons on January 1, 1890. The lead content of the ores imported from Mexico was 26,570 tons in 1889, and 18,124 tons in 1890. The production of lead in the first half of 1891 increased to 95,121 short tons.

Zinc.—In 1888 the total product of spelter was 55,903 short tons, worth \$5,500,855. In 1889 it increased to 58,860 short tons, worth \$5,791,824, and in 1890 to 63,683 short tons, worth \$6,266,407. The stocks in

the hands of producers are small, considering the magnitude of the industry. On January 1, 1890, these stocks were 2,535 short tons, and on January 1, 1891, had decreased to 1,134 tons.

Quicksilver.—The industry continues to decline in spite of active prospecting for new supplies. In 1888 the product was 33,250 flasks of 76½ pounds net, valued in San Francisco at \$1,413,125. In 1889 this declined to 26,484 flasks, although the price was \$45 per flask, which was sufficient to cause strong inquiry for new supplies. In 1890 the product decreased to 22,926 flasks, the average price increasing to \$48.33 per flask. The product all came from California.

Nickel.—During the years 1889 and 1890 the condition of the industry changed completely, due to the development of extensive supplies in Canada. The inquiry for still other new deposits was nevertheless stimulated by the successful tests of steel containing a small percentage of nickel for armor plates. Previously the markets were regulated principally by the output of the New Caledonia mines. In 1888 the total product in the United States was 204,328 pounds. In 1889 this increased to 252,663 pounds and in 1890 to 223,488 pounds, worth \$134,093. The product from Canadian matte was 35,000 pounds in 1889 and 100,000 pounds in 1890.

Cobalt oxide.—The product has followed the nickel industry, except that proportionately more nickel has been produced than cobalt oxide, because the Canadian matte contains scarcely any cobalt. The New Caledonian producers have produced a greater proportion of cobalt by the aid of a manganiferous iron ore containing nickel and cobalt. The product in 1889 was 13,955 pounds and in 1890 6,788 pounds. The price remained at about \$2.50 per pound in 1889 and \$2.40 in 1890.

Chromic iron ore.—The industry remains unchanged. The supplies come from California, together with increasing importations from Turkey and Asia Minor. The output in California in 1889 was 2,000 long tons, and in 1890 3,599 long tons, worth \$53,985.

Manganese.—Product in 1889, 24,197 long tons, which includes a small shipment from Colorado. In 1890 the product was 25,684 long tons, worth \$219,050. The importations are increasing. In addition, manganiferous iron ores were produced to the amount of 83,434 tons in 1889 and 61,860 tons in 1890.

Aluminum.—The production of aluminum, including that in alloys, continued and increased from about 19,000 pounds in 1888 to 47,468 pounds in 1889, and 61,281 pounds in 1890. The price decreased from \$4.50 per pound in 1888 to \$1 per pound in 1890 for ingots. The manufacture of aluminum into musical instruments, thin sheets for ornamental purposes, and into various utensils is increasing.

Antimony.—In 1889, 115 short tons were produced, valued at \$28,000; in 1890 this increased to 129 short tons, valued at \$40,756. This included a slight product from a new source, Ketchum, Idaho.

FUELS.

Coal.—In 1889 the total product of coal of all kinds was 141,229,513 short tons, valued at the mines, before any expenses for shipment, at \$160,226,323. The product included 45,600,487 short tons of Pennsylvania and other anthracite, worth \$65,879,514, and 95,629,026 short tons of bituminous coal and lignite, valued at \$94,346,809.

In 1890 the total product increased to 157,788,657 short tons, a gain of over $4\frac{1}{2}$ per cent. over 1889. The total value at the mines was \$176,804,573. Of the above, 46,468,641 short tons were anthracite, worth \$66,383,772, and 111,320,016 short tons were bituminous coal and lignite, worth \$110,420,801.

Petroleum.—The product in 1889 was 35,163,513 barrels, valued at \$26,963,340. In 1890, the product was 45,822,672 barrels, worth \$35,365,105. The feature of the two years has been the successful refining of Lima (Ohio) oil, which now supplies a large share of the domestic trade, and the great increase in the Pennsylvania product in 1890, making this the year of greatest product.

Natural gas.—The product, measured in terms of the coal displaced, shows a decline from \$22,629,875 in 1888 to \$21,097,099 in 1889. The product declined again in 1890 to \$18,742,725.

STRUCTURAL MATERIALS.

Building stone.—The product in 1889 includes granite to the value of \$14,464,095, at the place where produced and in the condition in which it was first sold; marble, \$3,488,170; sandstone, \$10,816,057; blue-stone, \$1,689,606; limestone, \$19,095,179; and slate, \$3,482,513. In 1890 the total value of these products aggregates \$54,000,000. Even allowing for a considerable growth in the industry since 1888, these figures show that the statement then made was too small.

ABRASIVE MATERIALS.

Millstones.—The product continued to decrease. In 1889 the product was valued at \$35,155, and in 1890, at \$23,720.

Grindstones.—The supply still comes from Ohio and Michigan. The consumption has increased in grinding wood pulp. The product in 1889 was valued at \$439,587, and in 1890, at \$450,000.

Oilstones and whetstones.—This industry derives its supplies from well established quarries in Arkansas, Indiana, and New Hampshire. In 1889 the product amounted to 2,354,000 pounds, chiefly novaculite, and valued at \$32,980. In 1890 the value of the product was \$69,909 in the rough state.

MISCELLANEOUS.

Precious stones.—The product is small and with the exception of agatized wood, the tourmalines regularly produced in Maine, and a few gems from North Carolina, consists principally of tourists' jewelry. It was valued at \$188,807 in 1889 and \$118,833 in 1890.

Phosphate rock.—In 1889 the production of phosphate rock was established as a new industry in Florida and its importance is increasing. The total product from all sources amounted to 550,245 long tons in 1889, which was the greatest amount ever reported. In 1890 the product was 510,499 long tons, worth \$3,213,795.

Marls.—The product in 1889 was 139,522 short tons, worth \$63,956, and in 1890, 153,620 short tons, worth \$69,880. There is little change in the industry.

Salt.—Product in 1889, 8,005,565 barrels, worth \$4,195,412, and in 1890, 8,776,991 barrels, worth \$4,752,286.

Bromine.—The product in 1889 was 418,891 pounds, valued at \$125,667. In 1890 this decreased to 387,847 pounds on account of the accumulation of stock.

Borax.—In 1889 the product was 8,000,000 pounds worth \$500,000, increasing in 1890 to 9,500,000 pounds.

Sulphur.—In 1889 and 1890 the Utah works were closed by litigation. There was a small product from the Nevada mines in 1889, amounting to 1,150 short tons. Efforts are being made to open the Louisiana mines.

Pyrites.—The product from Virginia, Massachusetts, and Vermont amounted to 93,705 long tons, worth \$202,119 in 1889, and in 1890 to 111,836 long tons, worth \$273,745.

Barytes.—The use of this material is increasing. The main sources of supply are mines in Missouri, Virginia, and New York. The total product in 1889 was 19,161 long tons and in 1890, 21,911 long tons.

Gypsum.—In 1889 the product was 267,769 short tons of crude gypsum, worth \$764,118, and in 1890, 182,995 short tons, worth \$574,523.

Ozocerite.—Development work was continued in the regions near Soldier's Summit, Utah; 50,000 pounds were produced in 1889, and 350,000 pounds in 1890.

Asphaltum.—During the last two years the product on the Pacific coast has increased markedly and the price has declined. Product in 1889, 51,735 short tons, worth \$171,537, and in 1890, 40,841 short tons, worth \$190,416. The production of gilsonite in Utah continues and amounted to 492 short tons in 1889 and 1,105 tons in 1890.

Soapstone.—The use of this material in the form of slabs for various purposes increased. The total product of all kinds was 36,461 short tons in 1889 and 54,024 short tons in 1890. Of this 23,746 short tons and 41,354 short tons, respectively, consisted of fibrous talc from New York.

Mica.—The production decreased in 1889, but is now increasing again; product in 1889, 49,500 pounds, worth \$50,000, and in 1890, 60,000 pounds, worth \$75,000.

Mineral paints.—The product includes ocher, metallic paints, and some umber and sienna; it amounted to 32,307 long tons in 1889, and 45,732 long tons in 1890.

Graphite.—The principal product in 1889 was 400,000 pounds of refined graphite from Ticonderoga, New York, worth \$33,000. In 1890 this product was about stationary. Besides this, cheaper grades were obtained from several localities for use in making foundry facings, etc.

Fluorspar.—The supply from Rosiclare, Illinois, and Evansville, Indiana, is sufficient for the gradually increasing use as a flux in cupola furnaces and for chemical purposes. The product was 9,500 short tons in 1889, and 8,250 short tons in 1890. Some artificial fluorspar is made as a by-product in the decomposition of Greenland cryolite.

Infusorial earth.—From the usual sources the product was 3,466 short tons in 1889, and 2,532 short tons in 1890.

Mineral waters.—Total product in 1889, 12,780,471 gallons, worth \$1,748,458, and in 1890, 13,907,418 gallons, with a value of \$2,600,750.

Mineral products of the United States for

Products.	1880.		1881.	
	Quantity.	Value.	Quantity.	Value.
METALLIC.				
1 Pig iron, spot value long tons..	3,375,912	\$89,315,569	4,144,254	\$87,029,334
2 Silver, coining value, troy ounces..	30,320,000	39,200,000	33,077,000	43,000,000
3 Gold, coining value do.....	1,741,500	36,000,000	1,676,300	34,700,000
4 Copper, value at New York City... pounds..	60,480,000	11,491,200	71,680,000	12,175,000
5 Lead, value at New York City... short tons..	97,825	9,782,500	117,085	11,240,160
6 Zinc, value at New York City... do.....	23,239	2,277,432	26,800	2,680,000
7 Quicksilver, value at San Francisco. flasks..	59,926	1,797,780	60,851	1,764,679
8 Nickel, value at Philadelphia pounds..	329,968	164,984	265,608	292,235
9 Aluminum, value at Pittsburg do.....	50	10,000	50	10,000
10 Antimony, value at San Francisco. short tons..	100	400	100	400
11 Platinum, value (crude) at San Francisco, troy ounces.				
NONMETALLIC (SPOT VALUES).				
12 Bituminous coal long tons..	38,242,641	53,443,718	48,179,475	60,224,344
13 Pennsylvania anthracite do.....	25,580,139	42,196,678	28,500,016	64,125,636
14 Building stone do.....		18,356,055		20,000,000
15 Petroleum barrels..	26,286,123	24,183,233	27,661,238	25,448,339
16 Lime do.....	28,000,000	19,000,000	30,000,000	20,000,000
17 Natural gas do.....				
18 Cement barrels..	2,072,043	1,852,707	2,500,000	2,000,000
19 Salt do.....	5,961,060	4,829,566	6,200,000	4,200,000
20 Limestone for iron flux long tons..	4,500,000	3,800,000	6,000,000	4,100,000
21 Phosphate rock do.....	211,377	1,123,823	266,734	1,980,259
22 Mineral waters gallons sold..	2,000,000	500,000	3,000,000	700,000
23 Zinc white short tons..	10,107	763,738	10,000	700,000
24 Gypsum do.....	90,000	400,000	85,000	350,000
25 Borax pounds..	3,692,443	277,233	4,046,000	304,461
26 Mineral paints long tons..	3,604	135,840	6,000	100,000
27 Manganese ore do.....	5,761	86,415	4,895	73,425
28 Asphaltum short tons..	444	4,440	2,000	8,000
29 Pyrites long tons..	2,000	5,000	10,000	60,000
30 Crude barytes do.....	20,000	80,000	20,000	80,000
31 Bromine pounds..	404,690	114,752	300,000	75,000
32 Corundum short tons..	1,044	29,280	500	80,000
33 Marls long tons..	1,000,000	500,000	1,000,000	500,000
34 Precious stones do.....		50,000		60,000
35 Gold quartz, souvenirs, jewelry, etc.		50,000		50,000
36 Flint long tons..	20,000	80,000	25,000	100,000
37 Fluorspar short tons..	4,000	16,000	4,000	16,000
38 Graphite pounds..		49,800	400,000	30,000
39 Novaculite do.....	420,000	8,000	500,000	8,580
40 Feldspar long tons..	12,500	60,000	14,000	70,000
41 Chrome iron ore do.....	2,288	27,808	2,000	30,000
42 Mica pounds..	81,669	127,825	100,000	250,000
43 Slate ground as a pigment long tons..	1,000	10,000	1,000	10,000
44 Cobalt oxide pounds..	7,251	24,000	8,280	25,000
45 Sulphur short tons..	600	21,000	600	21,000
46 Rutile pounds..	100	400	200	700
47 Asbestos do.....	150	4,312	200	7,000
48 Pottery clay long tons..	25,783	200,457	25,000	200,000
49 Grindstones do.....		500,000		500,000
50 Millstones do.....		200,000		150,000
51 Ozocerite, refined pounds..				
52 Infusorial earth short tons..	1,833	45,660	1,000	10,000
53 Soapstone do.....	8,441	66,665	7,000	75,000
54 Fibrous talc do.....	4,210	54,730	5,000	60,000
55 Lithographic stone do.....			50	1,000
Total value of metallic products.....		190,039,865		192,892,408
Total value of nonmetallic mineral products.....		173,279,135		206,783,144
Estimated value of mineral products unspecified.....		6,000,000		6,500,000
Grand total.....		369,319,000		406,175,552

SUMMARY.

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the calendar years 1880 to 1890, inclusive.

1882.		1883.		1884.		
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
4,623,323	\$106,336,420	4,595,510	\$91,910,200	4,097,868	\$73,761,624	1
36,197,695	46,800,000	35,733,622	46,200,000	37,744,005	48,800,000	2
1,572,186	32,500,000	1,451,249	30,000,000	1,489,949	30,800,000	3
91,646,232	16,068,091	117,151,795	18,064,807	145,221,934	17,789,687	4
132,890	12,624,550	143,957	12,322,719	139,897	10,537,042	5
33,765	3,646,620	36,872	3,311,106	38,544	3,422,707	6
52,732	1,487,042	46,725	1,253,632	31,913	936,327	7
281,616	309,777	58,800	52,920	64,550	48,412	8
60	12,000	83	875	150	1,350	9
200	600	60	12,000	60	12,000	10
		200	600	150	450	11
60,861,190	76,076,487	68,531,500	82,287,800	73,730,539	77,417,066	12
31,358,264	70,556,094	34,336,469	77,257,055	33,175,756	66,351,512	13
	21,000,000		20,000,000		19,000,000	14
30,516,830	24,065,988	23,449,633	25,790,252	24,218,438	20,595,966	15
31,000,000	21,700,000	32,000,000	19,200,000	37,000,000	18,500,000	16
	215,000		475,000		1,460,000	17
3,250,000	3,672,750	4,190,000	4,293,500	4,000,000	3,720,000	18
6,412,373	4,320,140	6,102,231	4,211,042	6,514,237	4,197,734	19
3,850,000	2,310,000	3,814,273	1,907,136	3,401,930	1,700,965	20
332,677	1,992,462	378,380	2,270,280	431,779	2,374,784	21
5,000,000	800,000	7,529,423	1,119,603	10,215,328	1,459,143	22
10,000	700,000	12,000	840,000	13,000	910,000	23
100,000	450,000	90,000	420,000	90,000	390,000	24
4,236,291	338,903	6,500,000	585,000	7,600,000	490,000	25
7,000	105,000	7,000	84,000	7,000	84,000	26
4,532	67,980	6,155	92,325	10,180	122,160	27
3,000	10,500	3,000	10,500	3,000	10,500	28
12,000	72,000	25,000	137,500	35,000	175,000	29
20,000	80,000	27,000	108,000	25,000	100,000	30
250,000	75,000	301,100	72,264	281,100	67,464	31
500	80,000	550	100,000	600	108,000	32
1,080,000	540,000	972,080	486,000	875,000	437,500	33
	75,000		74,050		82,975	34
	75,000		133,000		140,000	35
25,000	100,000	25,000	100,000	30,000	120,000	36
4,000	20,000	4,000	20,000	4,000	20,000	37
425,000	34,000	575,000	46,000			38
600,000	16,000	600,000	10,000	800,000	12,000	39
14,000	70,000	14,100	71,112	10,900	55,112	40
2,500	50,000	3,000	60,000	2,000	35,000	41
100,000	250,000	114,000	285,000	147,410	268,525	42
2,000	24,000	2,000	24,000	2,000	20,000	43
11,453	32,046	1,096	2,795	2,000	5,100	44
600	21,000	1,000	27,000	500	12,000	45
500	1,800	550	2,000	600	2,000	46
1,200	36,000	1,000	30,000	1,000	30,000	47
30,000	240,000	32,000	250,000	35,000	270,000	48
	700,000		600,000		570,000	49
	200,000		150,000		150,000	50
1,000	8,000	1,000	5,000	1,000	5,000	51
6,000	90,000	8,000	150,000	10,000	200,000	52
6,000	75,000	6,000	75,000	10,000	110,000	53
						54
						55
	219,755,109		203,128,859		186,100,599	
	231,340,150		243,812,214		221,879,506	
	6,500,000		6,500,000		5,600,000	
	457,595,259		453,441,073		412,989,105	

Mineral products of the United States for the

Products.		1885.		1886.	
		Quantity.	Value.	Quantity.	Value.
METALLIC.					
1	Pig iron, spot value.....long tons..	4,044,525	\$64,712,400	5,683,329	\$95,195,760
2	Silver, coining value.....troy ounces..	39,910,279	51,600,000	39,445,312	51,000,000
3	Gold, coining value.....do.....	1,538,376	31,800,000	1,881,250	35,000,000
4	Copper, value at New York City...pounds..	170,962,607	18,292,999	161,235,381	16,527,651
5	Lead, value at New York City...short tons..	129,412	10,469,431	135,629	12,667,749
6	Zinc, value at New York City.....do....	40,688	3,539,856	42,641	3,752,400
7	Quicksilver, value at San Francisco..flasks..	32,073	979,189	29,981	1,060,000
8	Nickel, value at Philadelphia.....pounds..	277,904	179,975	214,992	127,157
9	Aluminum, value at Philadelphia.....do....	283	2,550	3,000	27,000
10	Antimony, value at San Francisco..short ton.	50	10,000	35	7,000
11	Platinum, value (crude) at San Francisco, troy ounces.	250	187	50	100
NONMETALLIC (SPOT VALUES).					
12	Bituminous coal.....long tons..	64,840,668	82,347,648	65,810,676	78,481,056
13	Pennsylvania anthracite.....do....	34,228,548	76,671,948	34,853,077	76,119,120
14	Building stone.....do.....		19,000,000		19,000,000
15	Petroleum.....barrels..	21,847,205	19,198,243	28,064,841	19,996,313
16	Lime.....do.....	40,000,000	20,000,000	42,500,000	21,250,000
17	Natural gas.....do.....		4,857,206		10,012,000
18	Cement.....barrels..	4,150,000	3,492,500	4,500,000	3,990,000
19	Salt.....do.....	7,038,653	4,825,345	7,707,081	4,736,585
20	Limestone for iron flux.....long tons..	3,356,956	1,678,478	4,717,163	2,830,297
21	Phosphate rock.....do.....	437,856	2,846,064	430,549	1,872,936
22	Mineral waters, gallons sold.....do....	9,148,401	1,312,845	8,950,317	1,284,070
23	Zinc white.....short tons..	15,000	1,050,000	18,000	1,440,000
24	Gypsum.....do.....	90,405	405,000	95,250	428,625
25	Borax.....pounds..	8,000,000	480,000	9,778,290	488,915
26	Mineral paints.....long tons..	3,950	43,575	15,800	285,000
27	Manganese ore.....long tons..	23,258	190,281	30,193	277,636
28	Asphaltum.....short tons..	3,000	10,500	3,500	14,000
29	Pyrites.....long tons..	49,000	220,500	55,000	220,000
30	Crude barytes.....do.....	15,000	75,000	10,000	50,000
31	Bromine.....pounds..	310,000	89,900	428,334	141,350
32	Corundum.....short tons..	600	108,000	645	116,190
33	Marls.....do.....	875,000	437,500	800,000	400,000
34	Precious stones.....do.....		69,900		79,056
35	Gold quartz, souvenirs, jewelry, etc.....do....		140,000		40,000
36	Flint.....long tons..	30,000	120,000	30,000	120,000
37	Fluorspar.....short tons..	5,000	22,500	5,000	22,000
38	Graphite.....pounds..	327,883	26,231	415,525	33,242
39	Novaculite.....do.....	1,000,000	15,000	1,160,000	15,000
40	Feldspar.....long tons..	13,600	68,000	14,900	74,500
41	Chrome iron ore.....do.....	2,700	40,000	2,000	30,000
42	Mica.....pounds..	92,000	161,000	40,000	70,000
43	Slate ground as a pigment.....long tons..	1,975	24,687	3,000	30,000
44	Cobalt oxide.....pounds..	68,723	65,373	35,000	36,878
45	Sulphur.....short tons..	715	17,875	2,500	75,000
46	Rutile.....pounds..	600	2,000	600	2,000
47	Asbestos.....short tons..	300	9,000	200	6,000
48	Potters' clay.....long tons..	36,000	275,000	40,000	325,000
49	Grindstones.....do.....		500,000		250,000
50	Millstones.....do.....		100,000		140,000
51	Ozocerite, refined.....pounds..				
52	Infusorial earth.....short tons..	1,000	5,000	1,200	6,000
53	Soapstone.....do.....	10,000	200,000	12,000	225,000
54	Fibrous tale.....do.....	10,000	110,000	12,000	125,000
55	Lithographic stone.....do.....			40	700
Total value of metallic products.....			181,586,587		215,364,825
Total value of nonmetallic mineral products.			241,312,093		245,139,469
Estimated value of mineral products unspecified.			5,000,000		5,000,000
Grand total.....			427,898,680		465,504,294

SUMMARY.

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calendar years 1880 to 1890, inclusive—Continued.

1887.		1888		1889.		1890.		
Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
6,417,148	\$121,925,800	6,489,738	\$107,000,000	7,603,642	\$120,000,000	9,202,703	\$151,200,410	1
41,269,240	53,350,000	45,783,632	59,195,000	51,354,851	66,396,988	54,500,000	70,464,645	2
1,596,500	33,000,000	1,604,927	33,175,000	1,590,869	32,886,744	1,588,880	32,845,000	3
185,227,331	21,115,916	231,270,622	33,833,954	231,246,214	26,907,809	265,115,133	30,848,797	4
160,700	14,463,000	180,555	15,924,951	182,967	16,137,689	161,754	14,266,703	5
50,340	4,782,300	55,903	5,500,855	58,860	5,791,824	63,683	6,266,407	6
33,825	1,429,000	33,250	1,413,125	26,484	1,190,500	22,926	1,203,615	7
205,566	133,200	204,328	127,632	252,663	151,598	223,488	134,093	8
18,000	59,000	19,000	65,000	47,408	97,335	61,281	61,281	9
75	15,000	100	20,000	115	23,000	129	40,756	10
448	1,838	500	2,000	500	2,000	600	2,500	11
78,470,857	98,004,656	91,106,998	101,860,529	85,383,059	94,346,809	99,392,871	110,420,801	12
37,578,747	84,552,181	41,624,611	89,020,483	40,714,721	65,879,514	41,489,858	66,383,772	13
25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	42,809,706	42,809,706	47,000,000	14
28,278,886	18,877,094	27,612,025	17,947,620	35,163,513	26,963,340	45,822,672	35,365,105	15
46,750,000	23,375,000	49,087,000	24,543,500	68,474,608	33,217,015	60,000,000	35,000,000	16
15,817,500	15,817,500	22,629,875	22,629,875	21,097,069	21,097,069	18,742,725	18,742,725	17
6,692,744	5,674,377	8,503,295	5,021,139	7,000,000	5,000,000	8,000,000	6,000,000	18
7,831,962	4,093,846	8,055,831	4,374,203	8,005,565	4,195,412	8,776,991	4,752,286	19
5,377,000	3,226,200	5,438,000	2,719,000	6,318,000	3,159,000	5,621,622	2,760,811	20
480,558	1,836,818	448,567	2,018,552	550,245	2,937,776	510,499	3,213,795	21
8,259,609	1,261,473	9,578,648	1,679,802	12,780,471	1,748,458	13,907,418	2,600,750	22
18,000	1,440,000	20,000	1,600,000	16,970	1,357,000	1,600,000	1,600,000	23
95,000	425,000	110,000	550,000	267,769	764,118	182,995	574,523	24
11,000,000	550,000	7,589,000	455,340	8,000,000	500,000	9,500,000	617,500	25
20,000	310,000	24,000	380,000	32,307	463,766	45,732	661,992	26
34,524	333,844	29,198	279,571	24,197	240,559	25,684	219,050	27
4,000	16,000	53,800	331,500	51,735	171,537	40,841	190,416	28
52,000	210,000	54,331	167,658	93,705	202,119	111,836	273,745	29
15,000	75,000	20,000	110,000	19,161	106,313	21,911	86,505	30
199,987	61,717	307,386	95,290	418,891	125,667	387,847	104,719	31
600	108,000	589	91,620	2,245	105,565	1,970	80,395	32
600,000	300,000	300,000	150,000	139,522	63,956	153,620	69,880	33
88,600	88,600	88,600	64,850	188,807	188,807	118,833	118,833	34
75,000	75,000	75,000	75,000	11,113	49,137	13,000	57,400	35
32,000	185,000	30,000	175,000	9,500	45,835	8,250	55,328	36
5,000	20,000	6,000	30,000	33,000	72,662	77,500	77,500	37
416,000	34,000	400,000	33,000	5,982,300	32,980	69,909	69,909	38
1,200,000	16,000	1,500,000	18,000	6,970	39,370	8,000	45,200	39
10,200	56,100	8,700	50,000	2,000	30,000	3,599	53,985	40
3,000	40,000	1,500	20,000	49,500	50,000	60,000	75,000	41
70,500	142,250	48,000	70,000	2,000	20,000	2,000	20,000	42
2,000	20,000	2,500	25,000	13,955	31,092	6,788	16,291	43
18,340	18,774	8,491	15,782	1,150	7,850	400	1,000	44
3,000	100,000	3,000	1,000	3,000	1,800	71	4,560	45
1,000	3,000	1,000	3,000	30	635,578	350,000	756,000	46
150	4,500	100	3,000	294,344	439,587	450,000	450,000	47
43,000	340,000	36,750	300,000	81,000	35,155	23,720	23,720	48
224,400	224,400	281,800	281,800	50,000	2,500	350,000	26,250	49
100,000	100,000	81,000	81,000	3,466	23,372	2,532	50,240	50
3,000	15,000	1,500	7,500	12,715	231,708	13,670	252,309	51
12,000	225,000	15,000	250,000	23,746	244,170	41,354	389,196	52
15,000	160,000	20,000	210,000	18	243			53
250,275,054	250,275,054	256,257,517	256,257,517	269,590,487	269,590,487	307,334,207	307,334,207	54
287,416,320	287,416,320	303,241,114	303,241,114	307,640,175	307,640,175	339,270,491	339,270,491	55
5,000,000	5,000,000	5,000,000	5,000,000	10,000,000	10,000,000	10,000,000	10,000,000	
542,691,374	542,691,374	564,498,631	564,498,631	587,230,692	587,230,692	656,604,698	656,604,698	