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INFORME DE RECURSOS MINERAIS

Série Ouro - Informe Gerais, Nº 12

PROGRAMA NACIONAL DE PROSPECÇÃO DE OURO

MAP OF GOLD PRODUCTION AND RESERVES OF BRAZIL

1:7.000.000 SCALE

Rio de Janeiro
2000

CPRM
Serviço Geológico do Brasil

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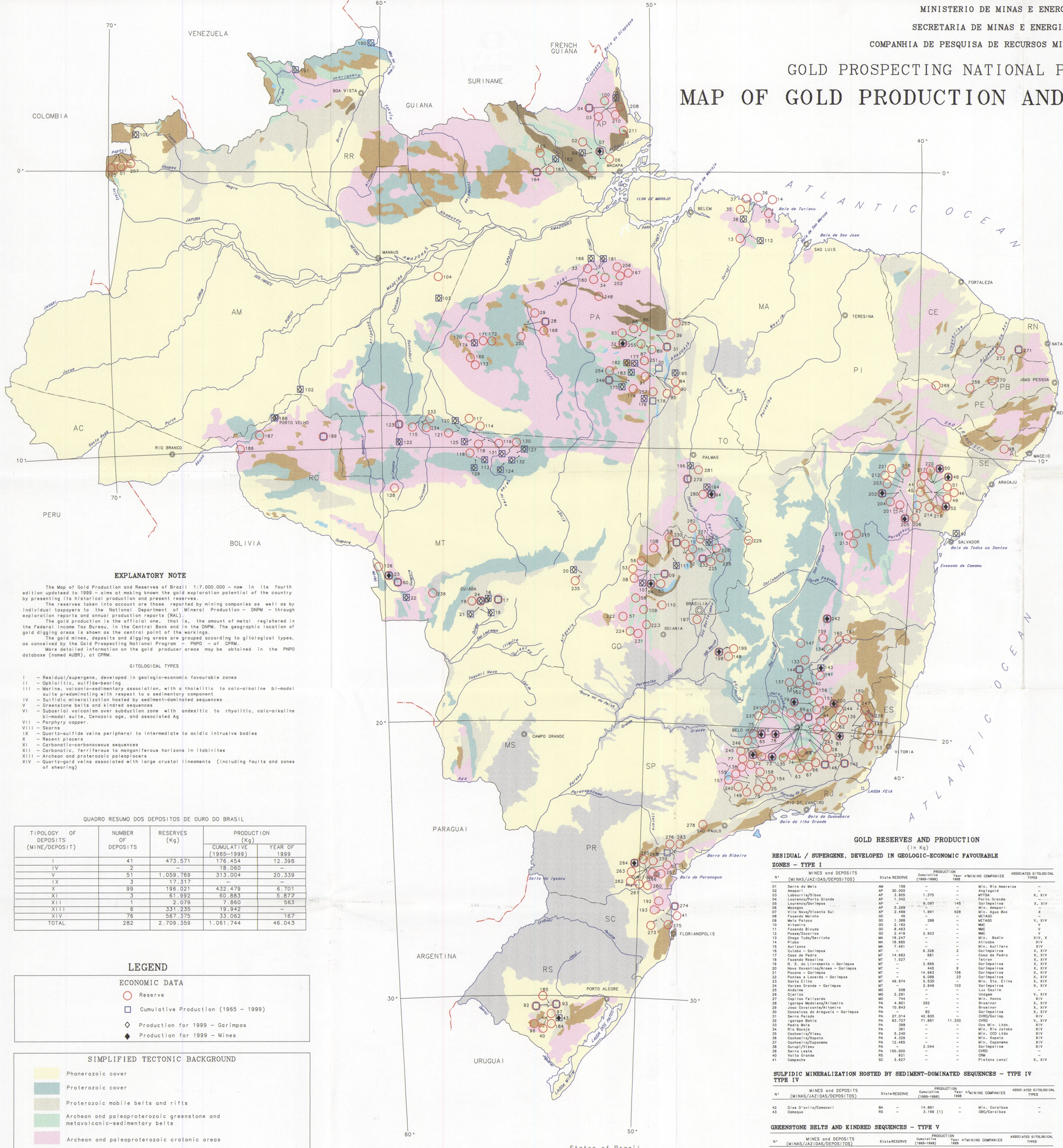
GOLD PROSPECTING NATIONAL PROGRAM – PNPO

MAP OF GOLD PRODUCTION AND RESERVES OF BRAZIL



EXPLANATORY NOTE

The Map of Gold Production and Reserves of Brazil 1:7.000.000 – now in its fourth edition updated to 1999 – aims at making known the gold exploration potential of the country by presenting its historical production and present reserves.

The reserves taken into account are those reported by mining companies as well as by individual taxpayers to the National Department of Mineral Production – DNPM – through exploration reports and annual production reports (RAL).

The gold production is the official one, that is, the amount of metal registered in the Federal Income Tax Bureau, in the Central Bank and in the DNPM. The geographic location of gold digging areas is shown as the central point of the workings.

The gold mines deposits are grouped according to gitological types, as conceived by the Gold Prospecting National Program – PNPO – of CPRM.

More detailed information on the gold producer areas may be obtained in the PNPO database (named AUBR), at CPRM.

GITOLOGICAL TYPES

I – Residual/supergene, developed in geologic-economic favourable zones
II – Ophiolitic, sulfide-bearing
III – Marine, volcanic-sedimentary association, with a tholeiitic to calc-alkaline bi-modal suite predominating with respect to a sedimentary component
IV – Sulfidic mineralization hosted by sediment-dominated sequences
V – Greenstone belts and kindred sequences
VI – Subaerial volcanism over subduction zone with andesitic to rhyolitic, calc-alkaline bi-modal suite, Cenozoic age, and associated Ag
VII – Porphyry copper.
VIII – Skarns
IX – Quartz-sulfide veins peripheral to intermediate to acidic intrusive bodies
X – Recent placers
XI – Carbonatic-carbonaceous sequences
XII – Carbonatic, ferriferous to manganiferous horizons in itabirites
XIII – Archean and proterozoic paleoplacers
XIV – Quartz-gold veins associated with large crustal lineaments (including faults and zones of shearing)

QUADRO RESUMO DOS DEPOSITOS DE OURO DO BRASIL

TIPOLOGY OF DEPOSITS (MINE/DEPOSIT)	NUMBER OF DEPOSITS	RESERVES (Kg)	PRODUCTION (Kg)	
			CUMULATIVE (1965–1999)	YEAR OF 1999
I	41	473.571	176.454	12.396
IV	2	–	18.060	–
V	51	1.059.769	313.004	20.339
IX	3	17.317	–	–
X	99	196.021	432.479	6.701
XI	3	61.992	60.883	5.877
XII	1	2.079	7.860	563
XIII	6	331.235	19.942	–
XIV	76	567.375	33.062	167
TOTAL	282	2.709.359	1.061.744	46.043

LEGEND

ECONOMIC DATA

- Reserve
- Cumulative Production (1965 – 1999)
- Production for 1999 – Garimpos
- Production for 1999 – Mines

SIMPLIFIED TECTONIC BACKGROUND

- Phanerozoic cover
- Proterozoic cover
- Proterozoic mobile belts and rifts
- Archean and paleoproterozoic greenstone and metavolcanic-sedimentary belts
- Archean and paleoproterozoic cratonic areas

VOLCANIC AND PLUTONIC ROCKS

- Basalts
- Basic-Ultrabasic rocks
- Granitoids
- Charnockite-series rocks

SOURCES OF DATA

– Companhia de Pesquisa de Recursos Minerais, 1995, Manual Tecnico do Programa Nacional de Prospecção de Ouro.
– Delgado, I. de M. e Pedreira A. J., 1995. Mapa de Depositos Minerais Selecionados e de Garimpos do Brasil.
– Departamento Nacional da Produção Mineral. Relatorios de Pesquisa e Relatorios Anuais de Lavra.
– _____1980 – 1996 . Anuario Mineral Brasileiro
– _____1996 . Tabelas de Produção de Ouro. Diretoria de Economia Mineral
– _____1993 . Cadastramento Nacional dos Garimpeiros do Brasil Departamento Nacional da Produção Mineral / Companhia de Pesquisa de Recursos Minerais 1980 a 1986.Relatorios do Projeto Estudo dos Garimpos Brasileiros
– _____1987 – 1990 . Relatorios do Projeto Ouro-Gemas.
– Companhia de Pesquisa de Recursos Minerais. Mapa de Reservas e Producao de Ouro do Brasil. 1995.
– Companhia de Pesquisa de Recursos Minerais. Base de Dados AUBR.
– Coordenacao Geral de Economia e Politica Mineral da SMM/MME,2000 – Tabelas Producao Industrial Comercializada de Ouro e Producao Garimpeira de Ouro – 1982/1999.

States of Brazil

AC – Acre
AL – Alagoas
AM – Amazonas
AP – Amapa
BA – Bahia
CE – Ceara
DF – Distrito Federal
ES – Espirito Santo
GO – Goias
MA – Maranhao
MG – Minas Gerais
MS – Mato Grosso do Sul
MT – Mato Grosso
PA – Para
PB – Paraiba
PE – Pernambuco
PI – Piaui
PR – Parana
RJ – Rio de Janeiro
RN – Rio Grande do Norte
RO – Rondonia
RR – Roraima
RS – Rio Grande do Sul
SC – Santa Catarina
SE – Sergipe
SP – Sao Paulo
TO – Tocantins

SCALE

1 : 7.000.000

140km 70 0 140 280 420km

POLYCONIC PROJECTION

2000

GOLD RESERVES AND PRODUCTION

(in Kg)

RESIDUAL / SUPERGENE, DEVELOPED IN GEOLOGIC-ECONOMIC FAVOURABLE ZONES – TYPE I

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
01	Serra do Melo	AM	156	–	–	Min. Rio Amarelos	–
02	Amapari	AP	30.000	–	–	Angiogold	–
03	Lobourite/Silvos	AP	3.605	1.375	–	MYTSA	X, XIV
04	Lourenco/Porto Grande	AP	1.342	–	–	Porto Grande	–
05	Lourenco/Garimpos	AP	–	9.097	145	Garimpeiros	X, XIV
06	Mazagao	AP	5.299	–	–	Min. Amapari	–
07	Vila Nova/Vicente Sul	AP	2.469	1.991	628	Min. Agua Boa	X
08	Fazenda Moinho	GO	45	–	–	METAGO	–
09	Mela Pateco	GO	1.388	288	–	METAGO	V, XIV
10	Altamira	GO	2.162	–	–	WMC	V
11	Fazenda Bicuda	GO	8.463	–	–	WMC	V
12	Posse/Zacarias	GO	2.416	2.903	–	WMC	V
13	Chega Tudo/Serrinha	MA	16.247	–	–	Min. Badin	XIV, X
14	Piaba	MA	18.985	–	–	Alicoba	XIV
15	Aurizona	MA	7.481	–	–	Min. Aurifera	XIV
16	Culaba – Garimpos	MT	–	9.328	2	Garimpeiros	X, XIV
17	Casa de Pedra	MT	14.983	681	–	Casa de Pedra	X, XIV
18	Fazenda Rosalina	MT	1.527	–	–	Tetron	X, XIV
19	N. S. do Livramento – Garimpos	MT	–	2.898	–	Garimpeiros	X, XIV
20	Novo Xavantina/Areas – Garimpos	MT	–	445	9	Garimpeiros	X, XIV
21	Pocone – Garimpos	MT	–	14.993	156	Garimpeiros	X, XIV
22	Pontes e Lacerda – Garimpos	MT	–	6.089	23	Garimpeiros	X, XIV
23	Santa Elina	MT	49.674	5.535	–	Min. Sta. Elina	X, XIV
24	Varzea Grande – Garimpos	MT	–	2.946	103	Garimpeiros	X, XIV
25	Andaime	MG	508	–	–	Lux Caulim	–
26	Ojerina	MG	2.281	–	–	Unagem	V, XIV
27	Capitao Felizardo	MG	744	–	–	Min. Hanna	XIV
28	Igarape Madeira/Altamira	PA	4.851	292	–	Brasinor	X, XIV
29	Joao Covalcante/Altamira	PA	10.843	–	–	Brasinor	X, XIV
30	Conceicao do Araguaia – Garimpos	PA	–	82	–	Garimpeiros	X, XIV
31	Serra Pelada	PA	27.014	42.605	–	CVRD/Garimp	XIV
32	Igarape Bahia	PA	83.727	71.861	11.330	CVRD	V, XIV
33	Pedro Mole	PA	398	–	–	Oca Min. Ltda.	XIV
34	Rio Bacaja	PA	361	–	–	Min. Rio Jatoba	XIV
35	Cachoeira/Vieseu	PA	5.240	–	–	Min. CCO Ltda	XIV
36	Cachoeira/Xapoto	PA	4.329	–	–	Min. Xapoto	XIV
37	Cachoeira/Capanema	PA	12.465	–	–	Min. Capanema	XIV
38	Gurupi/Vieseu	PA	–	3.044	–	Garimpeiros	XIV
39	Serra Leste	PA	150.000	–	–	CVRD	–
40	Volta Grande	RS	921	–	–	CRM	–
41	Campeche	SC	3.627	–	–	Platano Lenzi	X, XIV

SULFIDIC MINERALIZATION HOSTED BY SEDIMENT-DOMINATED SEQUENCES – TYPE IV

TYPE IV

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
42	Dias D'avila/Camacari	BA	–	14.861	–	Min. Caraibas	–
43	Camaqua	RS	–	3.199 (1)	–	CBC/Caraibas	–

GREENSTONE BELTS AND KINDRED SEQUENCES – TYPE V

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
44	Aracl	BA	1.305	–	–	Min. Guanhoes	XIV
45	Barrocas	BA	7.109	–	–	Min. Cametetu	XIV
46	Dor de Dente	BA	1.849	–	–	Min. Topajos	–
47	Pepegalo	BA	7.353	–	–	Min. Marmore	–
48	Fazenda Maria Preta/CVRD	BA	2.435	3.559	–	Min. Iriri	–
49	Agua Doce	BA	6.584	–	–	CVRD	–
50	Maria Preta/CBPM	BA	1.307	1.964	–	CBPM	–
51	Boniinho	BA	3.375	–	–	CVRD	–
52	Fazenda Brasileiro	BA	24.729	49.855	4.874	CVRD	–
53	Chapeu de Sol/Mine Inglesa	GO	6.133	–	–	Serrao do Sul	–
54	Minas II, III, Nova e Corpoaul	GO	93.520	39.075	4.955	Serra Grande	XIV
55	Guarinos	GO	1.527	–	–	Mantite	–
56	Chapada/Alto Horizonte	GO	91.141 (2)	–	–	Min. Sta. Elina	I, XIV
57	Lavrinha	GO	50	–	–	Min. Sta. Elina	–
58	Mora Rosa	GO	5.271	–	–	Min. Janipapo	XIV
59	Serra de Cubatao	GO	48	–	–	Min. Apinage	–
60	Cabaceiri	MT	1.421	5.146	–	Manati /RTZ	XIV
61	Espirito Santo	MG	44.460	1.890	–	Morro Velho	–
62	Itacire	MG	2.918	–	–	Itacire	XIV
63	Rora Grande	MG	2.551	–	–	CVRD	XIV
64	Serra do Pieco	MG	18.286	–	–	Min. Tapaua	–
65	Caete	MG	1.674	830	136	CVRD	XIV
66	Carropato	MG	2.156	–	–	Min. Itapora	XIV
67	Furnas do Cutao	MG	3.488	–	–	CVRD	–
68	Itabirito	MG	989	–	–	Min. Itamonte	XIV
69	Bela Fama	MG	830	–	–	Morro Velho	–
70	Bicalho	MG	1.352	–	–	Morro Velho	–
71	Faria	MG	2.049	–	–	Morro Velho	–
72	Faz. Dora Milho/Samuel de Paula	MG	165	–	–	Morro Velho	–
73	Mina Grande	MG	42.239	103.829	1.068	Morro Velho	–
74	Mina Velha	MG	15.136	–	–	Morro Velho	–
75	Raposos	MG	47.379	22.203	625	Morro Velho	–
76	Serra Negra	MG	3.789	–	–	Serra Negra	XIV
77	Itajobi	MG	4.924	–	–	Itajobi Ltda.	XIV
78	Culaba	MG	84.543	41.169	4.448	Morro Velho	–
79	Barro Feliz – Primario	MG	106.253	36.128	3.937	Sao Bento	–
80	Brumal	MG	9.818	–	–	CVRD	XIV
81	Corrego de Sitio	MG	1.977	4.803	–	Itajobi	XIV
82	Santa Quiteria/Bau	MG	9.442	–	–	Sao Bento	–
83	Alemao	PA	98.000	–	–	CVRD	–
84	Babacu	PA	1.087	–	–	CVRD	XIV
85	Mamoc	PA	4.013	–	–	CVRD	XIV
86	Pojuca	PA	28.475	–	–	CVRD	–
87	Serra da Sapucaia	PA	8.685	–	–	Multiplic	–
88	Salobo	PA	167.637(2)	–	–	CVRD/NMV	–
89	Sossego	PA	74.460	–	–	CVRD/PHELP DODGE	–
90	Lago Seca	PA	3.909	–	–	CVRD	XIV
91	Rio Maria	PA	3.103	–	–	Min. Itacolumes	XIV
92	Carrito do Ouro/Boaseroca	RS	2.202	78	–	KDG/Minesul	XIV
93	Guardinha/Vila Nova	RS	236	342	–	MINESUL	XIV
94	Almas/Paiol	TO	4.398	2.133	296	CVRD	XIV

QUARTZ-SULFIDE VEINS PERIPHERAL TO INTERMEDIATE TO ACIDIC INTRUSIVE BODIES – TYPE IX

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
95	Passo Tres	PR	380	–	–	Minerovale	–
96	Cerrito do Pires/Bloco Butia	RS	10.021	–	–	Carbro/Carmec	XIV
97	Vista Alegre/Volta Grande	RS	6.916	–	–	CRM	I, X, XIV

RECENT PLACERS – TYPE X

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
98	Barra Grande	AL	8.154	–	–	Capoeirana	–
99	Cupixi – Garimpos	AP	–	4.244	219	Garimpeiros	I, XIV
100	Regina-Aluviao	AP	611	1.703	–	Min. Mutum	–
101	Alto Rio Negro – Garimpos	AM	–	2.165	42	Garimpeiros	I, XIV
102	Baixo Rio Madeira – Garimpos	AM	–	1.561	32	Garimpeiros	I
103	Paraauri – Garimpos	AM	–	3.338	58	Garimpeiros	I, XIV
104	Patin/Roncador	AM	831	–	–	Manobel Min.	–
105	Serra do Caparo	AM	2.934	–	–	N J Scalabrin	–
106	Covalcante – Garimpos	GO	–	1.184	–	Garimpeiros	I, XIV
107	Crixas – Garimpos	GO	–	4.122	–	Garimpeiros	I, XIV
108	Faina	GO	1.411	–	–	Coop. Garimp.	–
109	Ferreira/Serra do Cubatao	GO	189	–	–	Min. Apinaje	–
110	Corrego Agua Vermelha	GO	383	–	–	Frencodip	–
111	Uruacu – Garimpos	GO	–	1.823	–	Garimpeiros	–
112	Gurupi – Garimpos	MA	–	3.471	15	Garimpeiros	I, XIV
113	Alto Floresta – Garimpos	MT	–	54.638	1.212	Garimpeiros	I, XIV
114	Aripuana	MT	819	–	–	Mariua	I, XIV
115	Juruena	MT	672	41	–	Juruena	–
116	Rio Sao Manuel	MT	1.434	–	–	Sinterol	–
117	Teles Pires	MT	1.193	120	–	TP Mineracao	–
118	Ilha Prainha	MT	776	–	–	Entrerios-CNM	–
119	Ilha Alzair	MT	3.002	–	–	Serrinha-CNM	–
120	Apiacas	MT	–	4.867	2	Garimpeiros	–
121	Apiacas/Ximari	MT	33.308	1.709	–	Porto Estrela	–
122	Aripuana – Garimpos	MT	–	1.334	–	Garimpeiros	I, XIV
123	Santo Onofre	MT	1.036	152	–	Sto. Onofre	–
124	Colider – Garimpos	MT	–	2.000	–	Garimpeiros	I, XIV
125	Guaranto do Norte – Garimpos	MT	–	6.749	304	Garimpeiros	I, XIV
126	Rio Galera	MT	1.829	–	–	Min. Marajoara	–
127	Matupa – Garimpos	MT	–	2.941	–	Garimpeiros	I, XIV
128	Juina/Martelandia	MT	2.948 (3)	–	–	Camargo Correia	–
129	Paranaita – Garimpos	MT	–	5.871	–	Garimpeiros	I, XIV
130	Corrego Volta Grande	MT	1.818	–	–	METAMAT	–
131	Peixoto de Azevedo	MT	–	46.968	748	Garimpeiros	–
132	Terra Nova do Norte – Garimpos	MT	–	3.834	–	Garimpeiros	–
133	Bocaiuva/Cisco Anz./Duas Barras	MG	832	–	–	Magid Mahmud	–
134	Botumirim/Cor. Azeite/Peixe Cru	MG	138 (3)	–	–	Jose Idelbrando	–
135	Conceicao da Barra de Minas	MG	45	–	–	Cesar Brighenti	–
136	Conceicao de Ipanema	MG	2.416	–	–	Min. Porto Real	–
137	Campo/Tombadouro	MG	1.053	205	–	Dragag. Fluvial	I, XIV
138	Cordislandia	MG	280 (3)	–	–	Cordislandia	–
139	Coronel Murta	MG	196 (3)	–	–	Clinic SM	–
140	Datas de Lima	MG	35 (2 3)	–	–	Min. Lapas	–
141	Diamantina	MG	1.448 (3)	23	–	Vou da Sala	–
142	Mata Cavalo	MG	60	50	–	CVRD	–
143	Rio Jequitinhonha/Rio Novo	MG	5.360 (3)	677	–	Min. Rio Novo	–
144	Rio Jequitinhonha/Tejucana	MG	15.654 (3)	1.030	–	Min. Tejucana	–
145	Palmital/Palmiras	MG	161	–	–	Min. Porto Real	–
146	Passagem-Aluviao	MG	1.008	421	–	CMP	–
147	Montes Claros/Veredas	MG	41	–	–	Kentantin	–
148	Fazenda Guerra	MG	427	–	–	METAMIG	–
149	Pouso Alegre	MG	95	–	–	Pouso Alegre	–
150	Fazenda do Rio do Carmo	MG	453	–	–	Ouro Aluvionar	–
151	Barro Feliz-Aluviao	MG	196	–	–	Min. Itacira	–
152	Rio Jequitinhonha/Santa Luzia	MG	7.747 (3)	–	–	PC Mineracao	–
153	Santana do Manhuacu	MG	203	–	–	Min. Porto Real	–
154	Bau/Sao Goncalo do Sapucai	MG	1.084	–	–	Samitri S/A	–
155	Sao Sebastiao da Bela Vista	MG	186 (3)	–	–	Min. Sapucaia	–
156	Campo de Pouso/Ouro Fino/Serro	MG	2.409 (3)	–	–	CONVAP	–
157	Silvianopolis	MG	252 (3)	–	–	Silvianopolis	–
158	Fazenda da Colina/Tres Coracoes	MG	528	–	–	Ana M. Giglio	–
159	Rio Itacambira/Virgem da Lapa	MG	155 (3)	–	–	Geol. Clinic	–
160	Rio Jequitinhonha/Virgem da Lapa	MG	121	–	–	Geol. Clinic	–
161	Mandacaru/Vocariu/Virgem da Lapa	MG	733	–	–	Geol. Clinic	–
162	Almeirim – Garimpos	PA	–	3.793	17	Garimpeiros	I, XIV
163	Cururu – Almeirim	PA	8.626	–	–	Min. Cururu	XIV
164	Gavino/Ipitinga – Almeirim	PA	4.123	211	–	Transamazonica	XIV
165	Igarape Coracoi	PA	3.940	–	–	CPRM	–
166	Altamira – Garimpos	PA	–	5.423	120	Garimpeiros	I, XIV
167	Inajo	PA	1.022	–	–	Santo Elina	I, XIV
168	Madalena – Aluviao	PA	119	–	–	Brasinor	–
169	Cregorlainho/Itaituba	PA	2.641	–	–	Milson Uchoa	–
170	Joao Paimitesta/Itaituba	PA	1.967	–	–	Joao Augusto	–
171	Maxiana/Itaituba	PA	3.550	–	–	Orsifel	–
172	Mamoal/Itaituba	PA	6.047	–	–	Best Metals	–
173	Patrocinio/Itaituba	PA	20.322	–	–	Jose Candido	–
174	Prov.Aurif. do Tapajos – Garimpos	PA	–	143.615	2.276	Garimpeiros	I, XIV
175	Ourilandia do Norte – Garimpos	PA	–	1.398	40	Garimpeiros	I, XIV
176	Redencao – Garimpos	PA	–	13.804	116	Garimpeiros	I, XIV
177	Rio Maria – Garimpos	PA	–	1.855	–	Garimpeiros	I, XIV
178	Santana do Araguaia – Garimpos	PA	–	345	–	Garimpeiros	I, XIV
179	Aviao/Sargento	PA	5.635	–	–	Min. Gradaus	I, XIV
180	Oca	PA	4.452	145	–	Oca Mineracao	I, XIV
181	Senador Jose Porfirio – Garimpos	PA	–	1.714	–	Garimpeiros	I, XIV
182	Tucuma/Cumaru – Garimpos	PA	–	25.591	–	Garimpeiros	I, XIV
183	Xingu/Iriri – Garimpos	PA	–	2.193	–	Garimpeiros	I, XIV
184	Volta Grande	RS	176	98	–	CRM	–
185	Juliana	RS	209	–	–	Oscar Andreazza	–
186	Guajara Mirim	RO	6.475	–	–	Min. Rio Novo	–
187	Periquitos	RO	21.130	–	–	CR Almeida	–
188	Rio Madeira – Garimpos	RO	–	51.503	1.240	Garimpeiros	I
189	Vogelume	RO	136	49	–	Brumadinho	–
190	Mau/Quino – Garimpos	RR	–	1.338	40	Garimpeiros	I
191	Uraricoera – Garimpos	RR	–	17.880	160	Garimpeiros	I
192	Itapema/Morro Grande	SC	61	–	–	Euclides Sasco	–
193	Arraial	SC	726	–	–	Minepar	I
194	Almas/Natividade – Garimpos	TO	–	1.241	15	Garimpeiros	I, XIV
195	Arraguaina – Garimpos	TO	–	2.198	20	Garimpeiros	I, XIV
196	Porto Nacional – Garimpos	TO	–	846	25	Garimpeiros	I, XIV

CARBONATIC-CARBONACEOUS SEQUENCES – TYPE XI

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
197	Luziania	GO	5.602	–	–	Canvap Min.	I, XIV
198	Morro do Ouro	MG	50.301	60.883	5.877	RPM	I, XIV
199	Franco Braz/Paracatu	MG	5.889	–	–	Franco Braz	I, XIV

CARBONATIC, FERRIFEROUS TO MANGANIFEROUS HORIZONS IN ITABIRITES – TYPE XII

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
200	Caue/Conceicao Itabira	MG	2.079	7.860	563	CVRD	–

ARCHEAN AND PROTEROZOIC PALEOPLACERS – TYPE XIII

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
201	Canavieiras	BA	131.568	19.942	–	Morro Velho	–
202	Joao Belo	BA	194.865	(4)	–	Morro Velho	–
203	Miguel Calmon	BA	204	–	–	Jacobina	–
204	Serra do Campo Limpo	BA	594	–	–	Serra do Navio	XIV
205	Pindobaçu	BA	2.951	–	–	CBPM	–
206	Laje do Preto	BA	1.053	–	–	UNIGEO	–

QUARTZ-GOLD VEINS ASSOCIATED WITH LARGE CRUSTAL LINEAMENTS (INCLUDING FAULTS AND ZONES OF SHEARING) – TYPE XIV

N°	MINES and DEPOSITS (MINAS/JAZIDAS/DEPOSITOS)	State	RESERVE	PRODUCTION Cumulative (1965–1998)	PRODUCTION Year of 1998	MINING COMPANIES	ASSOCIATED GITOLOGICAL TYPES
207	Serra Esperanca	AM	1.405	–	–	Min. Rio Amarelos	–
208	Regina-Primario	AP	13.371	–	–	Min. Mutum	–
209	Santa Maria	AP	1.092	–	–	CAEMI	–
210	Salamangana	AP	34.677	19.356	–	CMA	V
211	Tartarugalinho	AP	6.821	–	–	Min. Saretama	–
212	Gomio do Emo	BA	386	–	–	CBPM	–
213	Morro do Fogo	BA	6.836	–	–	Morro do Fogo	–
214	Boniinho/Sampaio	BA	639	–	–	CVRD	V
215	Ibiajara	BA	7.200	–	–	Billiton	–
216	Ipueiras/Antas	BA	655	–	–	DOCEGEO	–
217	Fazenda Mari	BA	1.306	–	–	Min. Jerupari	V
218	Serra de Santa Cruz	BA	482	–	–	Montana	–
219	Serra de Santa Maria	BA	1.221	–	–	Min. Pajeu	–
220	Fazenda Lemeira	BA	412	–	–	Min. Japura	–
221	Saude	BA	472	–	–	Edgard A. P.	–
222	Bacilandia/Faz. Nova	GO	10.230	–	–	Sta. Elina	–
223	Poco da Sociedade	GO	2.146	–	–	Min. Aurifera	V
224	Jenipapo	GO	2.436	–	–	Min. Janipapo	–
225	Buraco do Ouro	GO	2.880	16	–	Cobra Dourada	–
226	Corrego Love Pe	GO	103	–	–	Leao Dourado	–
227	Cerigaela-Rio Trairas	GO	1.158	–	–	Min. Cerigela	–
228	Rio Branco	GO	1.315	–	–	Min.Cavalcante	–
229	Mina do Cipoeto	GO	616	–	–	WMC	V, XIV
230	Estrela do Norte	GO	2.416	14	–	Min. Alfenas	–
231	Sao Joao da Paraiba	GO	1.277	3.061	–	Min. Janipapo	–
232	Aurumina/Fazenda Aveia	GO	615	240	–	Nova Roma	–
233	Rio Juruena	MT	1.105	–	–	Aripuana	–
234	Juruena	MT	308	–	–	Mario Herbert	–
235	Ribeirao do Piau	MT	32.331	–	–	Min. Jaguar	–
236	Sao Francisco	MT	523	–	–	Sao Francisco	–
237	Pontal/Rio Sao Joao/Varjao	MG	941	1.614	–	Min. Pitangui	V
238	Rio Itapetininga	MG	760	–	–	Min. Culete	–
239	Passagem-Primario	MG	189.831	254	–	CMP	–
240	Ouro Fino/Serro	MG	2.429	–	–	CONVAP	–
241	Itamo/Cosquilho/Bento Lopes	MG	26.948	–	–	Min. Itajobi	V
242	Riacho dos Machados	MG	9.234	4.835	–	CVRD	–
243	Morro Grande/Rio Acima	MG	87.880 (5)	–	–	NUCLEBRAS	–
244	Patamo/S.A.	MG	1.970	–	–	Min. do Alegria	–
245	Fazenda das Cristais/Sabara	MG	437	–	–	Eustaquio Mac.	–
246	Sitio Sao Jose/Sabara	MG	2.420	–	–	Min. Antonina	–
247	Fazenda Palmeira/Simonesia	MG	2.621	–	–	Min. Porto Real	–
248	Fazendinha/Rio Xingu	PA	1.004	–	–	COMINA	–
249	Gradaus	PA	3.547	30	–	Min. Gradaus	–
250	Madeira-Primario	PA	5.832	–	–	BRASINOR	–
251	Murisqea	PA	8.688	–	–	Multiplic	–
252	Rio Anapu/Portel	PA	6.593	–	–	Reunidas	–
253	Marabo	PA	429	–	–	Min. Mapuera	–
254	Cumaru	PA	3.547	–	–	Min. Gradaus	V
255	Aguas Claras	PA	26.500	–	–	CVRD	–
256	Rio Anapu	PA	4.003	–	–	Essex S/A	–
257	Redencao	PA	3.539	–	–	Min. Redencao	V
258	Coalhoes/Farias/Covico	PB	1.325	–	–	OLDBRECHT	–
259	Barreiro	PR	669	–	–	Trevisan	–
260	Barreiro/Campo Largo	PR	1.377	–	–	Francisco Adao	I
261	Barreiro/Almon	PR	106	–	–	Min. Almon	I
262	Barreiro/Real Mil	PR	1.248	–	–	Min. Real Mil	I
263	Campo de Santana	PR	148	–	–	J.R. Empreiteira	I
264	Campo de Santana/Tabipora	PR	1.732	1.380	167	Min. Tabipora	I
265	Minerapar	PR	367	–	–	MINERDPAR	–
266	Ferradura	PR	433	–	–	Paulo Roberto	I
267	Morretes	PR	1.160	–	–	MINERDPAR	–
268	Panelas	PR	–	1.070 (6)	–	Plumbum	–
269	Riacho do Amolar	PE	253	–	–	Serrita	–
270	Sertaozinho	PE	607	28	–	CPRM	–
271	Sao Francisco/Buji/Maxixe	RN	2.043	982	–	Min. Xapetube	–
272	Serra do Rodrigues	RN	3.283	–	–	Min. Sertanaja	–
273	Alto Worsow	SC	2.200	–	–	Fanuelsen A.	–
274	Arraial/Bau/Schram	SC	5.862	148	–	Minepar	–
275	Braco do Cristalina	SC	779	–	–	A. P.	–
276	Eldorado	SP	3.281	–	–	CPRM	–
277	Pilaes	SP	2.431	–	–	CPRM	–
278	Fazenda Sao Jose/Sao Roque	SP

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