

1,047
Mining Titles

243 Mining titles in exploration

134 Mining titles in construction & assembly

669 Mining titles in exploitation

1 In advance technical evaluation

Titles by contractual stage

1,017,985 ha
(0.89% of national territory)

1,602 Mining concession proposals

2,691,797 ha
(2.36% of national territory)

Source: NMA, - Ann A minería 31/07/2022

Colombia presents three (3) belts of copper porphyries in which important prospects for copper are found:

Western belt: Acandi, Murindo, Pantanos-Pegadorcito, Andagueda and Piedranca.

Eastern belt: Andes, Inferno-Chili, Dolores and Mocoa.

Central belt: Quebradona, El Pisco, Tambo, Piedrasentada-Dominical and Mazamoras.

Copper exploration projects are currently being developed in different areas of the country, mostly in the departments of Córdoba, Antioquia and Chocó, with positive results.

ECONOMIC DATA

PRODUCTION Copper contained in concentrates		EXPORTS Copper and its concentrates		EXPORTS Copper and its concentrates	
2019	7,644 Ton	2019	30,041 Ton	2019	40.7 Million USD
2020	9,372 Ton	2020	40,465 Ton	2020	54.1 Million USD
2021 ^{Pr}	9,194 Ton	2021	52,558 Ton	2021	91.2 Million USD

2021 WORLD RANKINGS

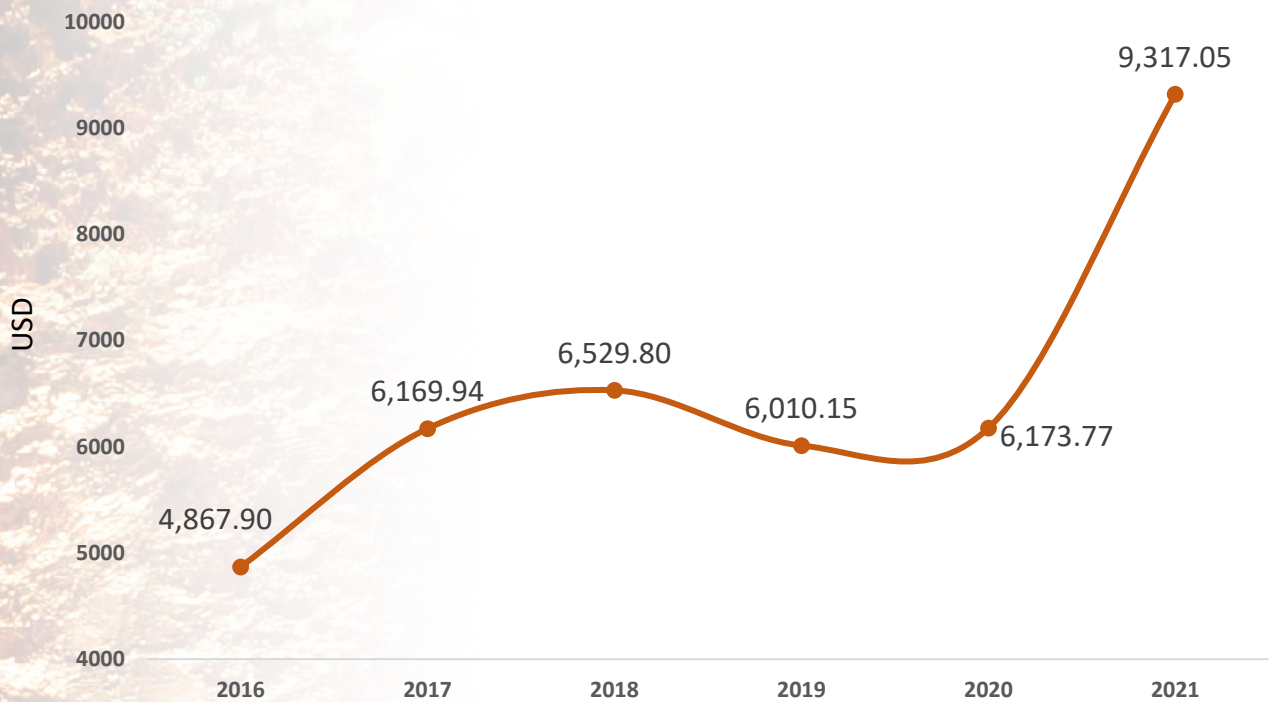
WORLD PRODUCTION		PRODUCTION IN LATIN AMERICA*		MAIN PRODUCING COMPANIES	
	(000t)		(000t)		(000t)
1. Chile	5,624	1. Chile	5,624	1. Freeport-McMoRan	1,743
2. Peru	2,299	2. Peru	2,299	2. Codelco	1,728
3. Dem. Rep. Congo	1,798	3. Mexico	720	3. BHP	1,636
4. China	1,741	4. Brazil	554	4. Glencore	1,196
5. United States	1,230	5. Panama	331	5. Southern Copper	958
6. Australia	830	6. Colombia	9.2	6. First Quantum	816
				7. Antofagasta	721

40*. Colombia 9.2

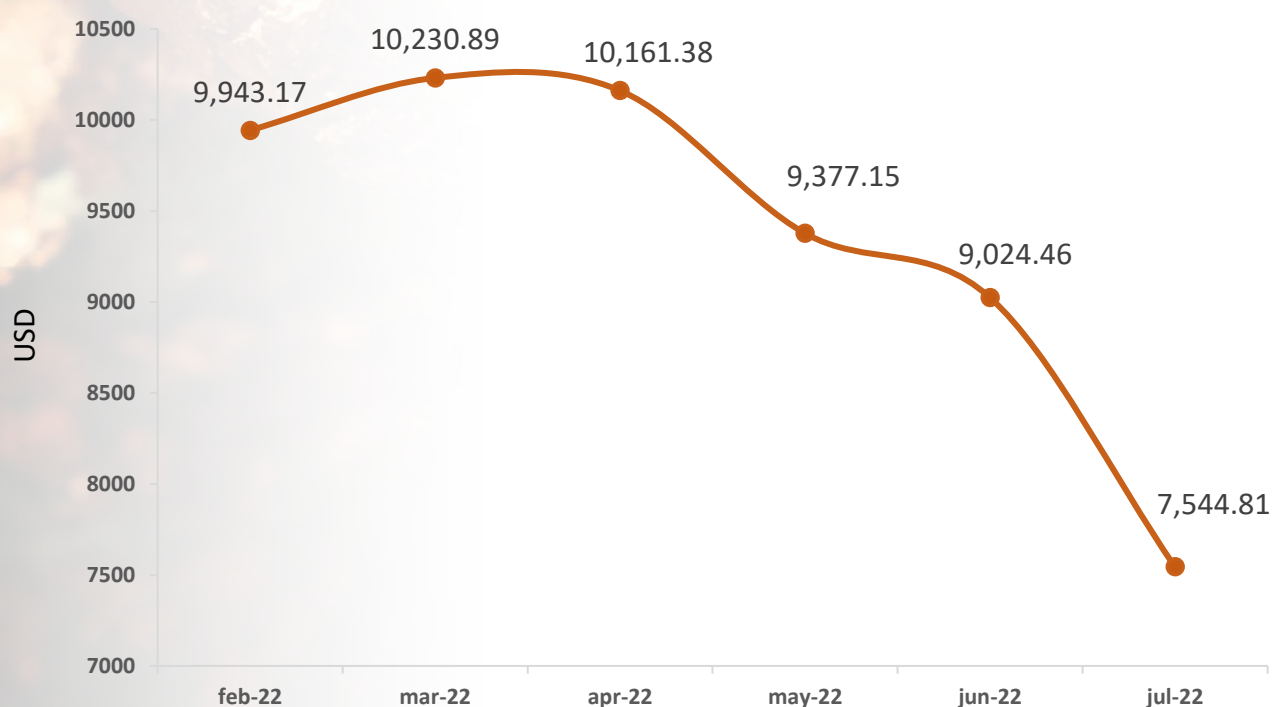
In Colombia deposits with an average tenor between **1.25% and 2.51% Cu** in Probable Reserves, are explored and exploited.

ECONOMIC DATA

Average price in the last 6 years USD/mt



Average price in the last 6 months USD/mt



MAIN PROJECTS WITH RESOURCE AND RESERVE REPORTS UNDER INTERNATIONAL STANDARDS

Company	Project	Minerals	Standard
AngloGold Ashanti	Quebradona	Gold and copper	SAMREC
Atico Mining Corp.	El Roble	Gold and copper	NI 43-101
Cordoba Minerals Corp.	San Matías	Gold and copper	NI 43-101
Goldmining Inc.	La Mina	Gold and copper	NI 43-101
Goldmining Inc.	Titiribí	Gold and copper	NI 43-101
Goldmining Inc.	Yarumalito	Gold and copper	NI 43-101
Libero Copper & Gold Corp.	Mocoa	Copper and molybdenum	NI 43-101
Sociedad Minera de Santander-MINESA ((Mubadala Investment Company)	Soto Norte	Gold and copper	JORC

Main projects in exploitation 2021

Company	Project	Production 2021 (000 lbs)
Atico Mining Corp.	El Roble	18,065

Production in Colombia corresponds to copper contained in polymetallic concentrates.

Copper was established as a strategic mineral for Colombia in 2012.

The ANM started in March 2021 the objective selection process to award **Six Strategic Mining Areas of copper and polymetallic minerals**, in order to select the most favorable offer for the granting of special exploration and exploitation contracts for strategic minerals. **Five blocks (copper areas) were awarded in 2021/2022.**

Copper concentrate exports are transported by sea from the port of Buenaventura (mainly). Export destinations for **2021**: China 100%.

Source: NMA 31/05/2022, DANE, SIMCO – UPME, TSX-TSXV, JSE, MINESA, <http://aticomining.com>, Colombian Geological Survey – CGS. Pr. preliminary.

In the Metallogenic **Map of Colombia 2018** published by the Colombian Geological Survey - CGS, **142 deposits**, occurrences and prospects of cupriferous type porphyry, volcanogenic massive sulphides (VMS), skarn, iron-copper-gold oxide deposits, and deposits hosted in sediments or stratoligates, especially in the Serrania de Perija and the Cordillera Occidental are identified.

The Colombian Geological Survey - CGS has established that Colombia has favorable geological environments for the existence of copper deposits, mainly in the departments of Cordoba, Choco, Nariño, Antioquia and the northeastern region of the country, in the provinces of La Guajira and Cesar.