

Industry Status: Metals & Mining

1 week 10/10/23 to 10/17/23								
9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest
.	.	.	68 METALS->	68 METALS->	.	.	.	.
.	.	4 Aluminum	.	.	.	.	.	.
.	.	<-Copper 2	<-Copper 2	.	.	.	.	.
.	.	16 Gold->	16 Gold->	.	.	.	.	.
.	.	.	.	.	22 Indust Mt/Mn	.	.	.
.	.	.	.	.	.	.	.	3 Nonmet Mining
10 Silver->	10 Silver->	10 Silver->	.	11 Steel/Iron	.	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.

October 17, 2023

UP +1 to **AVERAGE** strength rating
(**5th** strongest of 9 levels),
previous move was **DOWN**

Note unusually strong move in Silver sub-industry

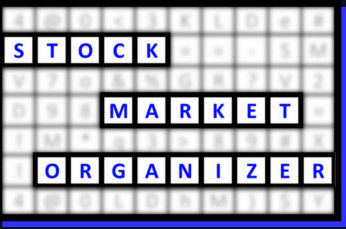


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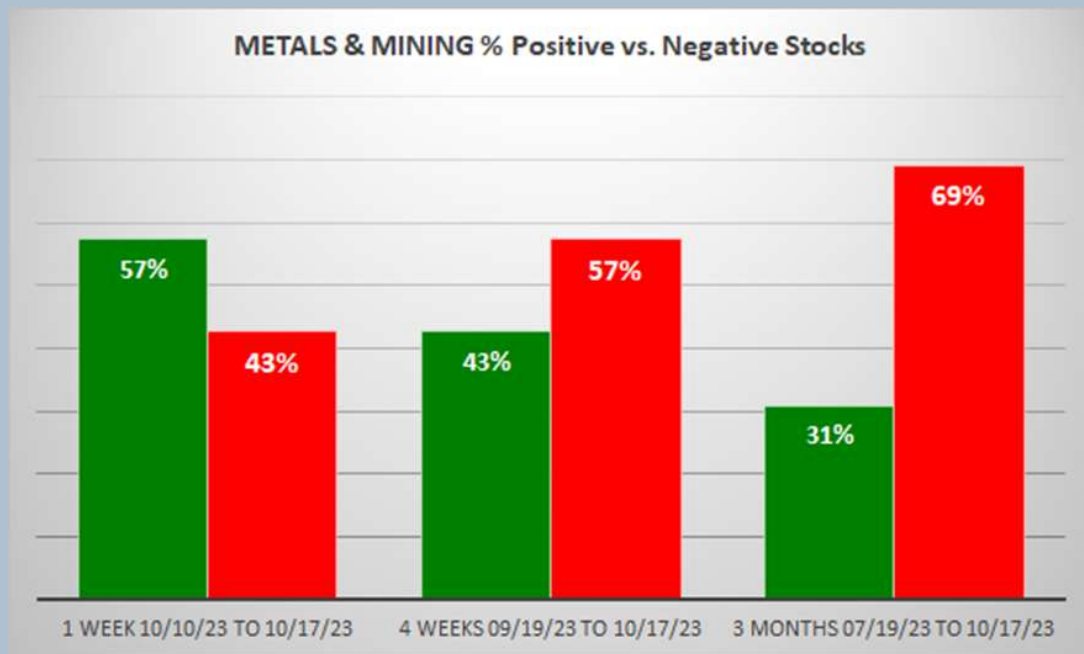
1. INDUSTRY OVERVIEW

1A. Performance

Past 10 Weeks Strengthening/Weakening week-by-week, per the following chart:

9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest	Period
.	.	.	68 METALS->	68 METALS->	.	.	.	.	7 Days - 10/10/23 to 10/17/23
.	.	.	68 METALS	.	.	.	.	.	7 Days - 10/03/23 to 10/10/23
.	.	.	68 METALS	.	.	.	.	.	7 Days - 09/26/23 to 10/03/23
.	.	.	<-METALS 68	<-METALS 68	.	.	.	.	7 Days - 09/19/23 to 09/26/23
.	.	.	.	68 METALS	.	.	.	.	7 Days - 09/12/23 to 09/19/23
.	.	.	.	68 METALS	.	.	.	.	7 Days - 09/05/23 to 09/12/23
.	.	.	.	68 METALS	.	.	.	.	7 Days - 08/29/23 to 09/05/23
.	.	.	68 METALS->	68 METALS->	.	.	.	.	7 Days - 08/22/23 to 08/29/23
.	.	.	68 METALS	.	.	.	.	.	7 Days - 08/15/23 to 08/22/23
.	.	.	<-METALS 68	<-METALS 68	.	.	.	.	7 Days - 08/08/23 to 08/15/23

STRENGTHENING 1 Week vs. Mid- and Longer-Term // 1 week positive/negative stocks ratio is HIGHER than both 4 weeks and 3 Months, per the following chart:



Special Highlight, Silver sub-industry strengthened 3 levels:

STOCK DETAIL (EDUCATIONAL PURPOSES ONLY/NOT FINANCIAL ADVICE)										1 week 10/10/23 to 10/17/23									
Length - Begin/End	Sub-Industry	Ticker	Company	ID1	ID2	% Chg	ID3	Status		9Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest	
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	WPM	Wheaton Precious Metals Corp	51-71-51	65%	6%	-3%	5Avg	.	.	.	WPM-->	WPM-->	WPM-->	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	SILV	SilverCrest Metals	61-71-51	21%	8%	-16%	6Weak	SILV-->	SILV-->	SILV-->	SILV-->	SILV-->	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	CDE	Coeur Mining Inc.	71-71-51	7%	20%	-14%	7Weaker	CDE-->	CDE-->	CDE-->	CDE-->	CDE-->	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	HL	Hecla Mining Co	71-71-51	39%	14%	-18%	7Weaker	HL-->	HL-->	HL-->	HL-->	HL-->	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	AG	First Majestic Silver Corp	71-71-51	5%	12%	-13%	7Weaker	AG-->	AG-->	AG-->	AG-->	AG-->	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	FSM	Fortuna Silver Mines	71-71-51	16%	7%	-10%	7Weaker	FSM-->	FSM-->	FSM-->	FSM-->	FSM-->	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	MAG	Mag Silver Corp	71-71-51	33%	6%	-8%	7Weaker	MAG-->	MAG-->	MAG-->	MAG-->	MAG-->	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	SSRM	SSR Mining Inc.	95-71-51	24%	6%	-6%	9Weakest	SSRM	.	.	.	.	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	PAAS	Pan Amer Silver Cp.	95-71-51	17%	6%	-7%	9Weakest	PAAS	.	.	.	.	.	.	.	.	.	.
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	EXK	Endeavour Silver Corp	95-71-51	22%	4%	-21%	9Weakest	EXK	.	.	.	.	.	.	.	.	.	.

1B. Background

Largest of 7 sub-industries (68 stocks, average 10):

- * Industrial Metals & Minerals (22 stocks)
- * Gold (16 stocks)
- * Steel & Iron (11 stocks)
- * Silver (10 stocks)

Top 10 by Market Capitalization:

SCCO/Southern Copper Corp, FCX/Freeport-McMoran Inc, NUE/Nucor Corp, NEM/Newmont Corporation, GOLD/Barrick Gold Corp, FNV/Franco Nevada Corp, AEM/Agnico Eagle Mines Ltd, TECK/Teck Resources Limited, WPM/Wheaton Precious Metals Corp, STLD/Steel Dynamics Inc

2. SUB-INDUSTRIES AND STOCKS DETAIL

2A. Sub-Industries Overview

Strengthened: 2/7 sub-industries

Weakened: 1/7 sub-industries

STRONGEST at Strongest rating/1st strongest of 9 levels:

- * Nonmetallic Mineral Mining (3 stocks)

WEAKEST at Weaker rating/7th strongest of 9 levels:

- * Aluminum (4 stocks)
- * Copper (2 stocks)
- * Silver (10 stocks)

2B. Sub-Industries 10-Week Strengthening Analysis

What: recent week-by-week strength changes for the industry and each underlying sub-industry

Why: objective measurement of strengthening and weakening enabling comparison within and across industries and sub-industries

INDUSTRY CURRENT PERIOD SUMMARY										1 week 10/10/23 to 10/17/23									
Length - Begin/End	Industry/Sub-Industry	Period	#	Min	Avg	Max	Status	9Weekest	8YWeek	7Weeker	6Week	5Avg	4Strong	3Stronger	2VStrong	1Strongest			
7 Days - 10/10/23 to 10/17/23	METALS & MINING	Period 1 of 10 (Current)	68	-13%	-1%	2%	26%	Strengthened				68 METALS->	68 METALS->						
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Aluminum	Period 1 of 10 (Current)	4	-2%	-1%	0%	Unchanged				4 Aluminum								
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Copper	Period 1 of 10 (Current)	2	-2%	-2%	-1%	-1%	Weakened			<-Copper 2	<-Copper 2							
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Gold	Period 1 of 10 (Current)	16	0%	6%	10%	Strengthened				16 Gold->	16 Gold->							
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	Period 1 of 10 (Current)	22	-3%	2%	26%	Unchanged						22 Indust Mt/Mn						
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Nonmetallc Mineral Mining	Period 1 of 10 (Current)	3	-3%	10%	22%	Unchanged									3 Nonmet Mining			
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Silver	Period 1 of 10 (Current)	10	4%	9%	20%	Strengthened	10 Silver->	10 Silver->	10 Silver->									
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Steel & Iron	Period 1 of 10 (Current)	11	-13%	-3%	1%	Weakened					11 Steel/Iron							
7 Days - 10/10/23 to 10/17/23		Period 1 of 10 (Current)																	
7 Days - 10/10/23 to 10/17/23		Period 1 of 10 (Current)																	
PREVIOUS WEEKS (EDUCATIONAL PURPOSES ONLY/NOT A STOCK OR INVESTMENT RECOMMENDATION)																			
Length - Begin/End	Industry/Sub-Industry	Period	#	Min	Avg	Max	Status	9Weekest	8YWeek	7Weeker	6Week	5Avg	4Strong	3Stronger	2VStrong	1Strongest			
7 Days - 10/10/23 to 10/17/23	METALS & MINING	Period 1 of 10 (Current)	68	-13%	-1%	2%	26%	Strengthened				68 METALS->	68 METALS->						
7 Days - 10/03/23 to 10/10/23	METALS & MINING	Period 2 of 10	68	-14%	3%	11%	Strengthened				68 METALS								
7 Days - 09/26/23 to 10/03/23	METALS & MINING	Period 3 of 10	68	-15%	-2%	7%	Unchanged				68 METALS								
7 Days - 09/19/23 to 09/26/23	METALS & MINING	Period 4 of 10	68	-13%	-3%	14%	Weakened				<-METALS 68	<-METALS 68							
7 Days - 09/12/23 to 09/19/23	METALS & MINING	Period 5 of 10	68	-11%	-2%	20%	Unchanged												
7 Days - 08/05/23 to 08/12/23	METALS & MINING	Period 6 of 10	68	-13%	-2%	8%	Unchanged												
7 Days - 08/29/23 to 09/05/23	METALS & MINING	Period 7 of 10	68	-13%	-2%	10%	Weakened												
7 Days - 08/22/23 to 08/29/23	METALS & MINING	Period 8 of 10	68	-5%	-4%	13%	Strengthened				68 METALS->	68 METALS->							
7 Days - 08/15/23 to 08/22/23	METALS & MINING	Period 9 of 10	68	-10%	1%	11%	Unchanged				68 METALS								
7 Days - 08/08/23 to 08/15/23	METALS & MINING	Period 10 of 10	68	-21%	-3%	26%	Weakened				<-METALS 68	<-METALS 68							
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Aluminum	Period 1 of 10 (Current)	4	-2%	-1%	0%	Unchanged				4 Aluminum								
7 Days - 10/03/23 to 10/10/23	METALS & MINING - Aluminum	Period 2 of 10	4	-1%	2%	2%	Unchanged				4 Aluminum								
7 Days - 09/26/23 to 10/03/23	METALS & MINING - Aluminum	Period 3 of 10	4	-1%	3%	7%	Unchanged				4 Aluminum								
7 Days - 09/19/23 to 09/26/23	METALS & MINING - Aluminum	Period 4 of 10	4	-6%	-6%	-5%	Weakened				<-Aluminum 4	<-Aluminum 4							
7 Days - 09/12/23 to 09/19/23	METALS & MINING - Aluminum	Period 5 of 10	4	-6%	-1%	2%	Unchanged				4 Aluminum								
7 Days - 09/05/23 to 09/12/23	METALS & MINING - Aluminum	Period 6 of 10	4	-9%	2%	1%	Strengthened				4 Aluminum								
7 Days - 08/29/23 to 09/05/23	METALS & MINING - Aluminum	Period 7 of 10	4	-1%	0%	2%	Unchanged				4 Aluminum								
7 Days - 08/22/23 to 08/29/23	METALS & MINING - Aluminum	Period 8 of 10	4	-9%	0%	3%	Unchanged				4 Aluminum								
7 Days - 08/15/23 to 08/22/23	METALS & MINING - Aluminum	Period 9 of 10	4	-9%	-1%	2%	Weakened				4 Aluminum								
7 Days - 08/08/23 to 08/15/23	METALS & MINING - Aluminum	Period 10 of 10	4	-13%	-8%	-4%	Weakened				<-Aluminum 4	<-Aluminum 4	<-Aluminum 4						
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Copper	Period 1 of 10 (Current)	2	-2%	-2%	-2%	-2%	Weakened			<-Copper 2	<-Copper 2							
7 Days - 10/03/23 to 10/10/23	METALS & MINING - Copper	Period 2 of 10	2	-2%	2%	3%	Strengthened				2 Copper->	2 Copper->							
7 Days - 09/26/23 to 10/03/23	METALS & MINING - Copper	Period 3 of 10	2	-1%	0%	1%	Unchanged				2 Copper								
7 Days - 09/19/23 to 09/26/23	METALS & MINING - Copper	Period 4 of 10	2	-6%	-6%	-6%	Weakened				<-Copper 2	<-Copper 2	<-Copper 2	<-Copper 2	<-Copper 2	<-Copper 2			
7 Days - 09/12/23 to 09/19/23	METALS & MINING - Copper	Period 5 of 10	2	-3%	-2%	-1%	-1%	Unchanged			<-Copper 2	<-Copper 2	<-Copper 2	<-Copper 2	<-Copper 2	<-Copper 2			
7 Days - 09/05/23 to 09/12/23	METALS & MINING - Copper	Period 6 of 10	2	-2%	-1%	0%	0%	Weakened											
7 Days - 08/29/23 to 09/05/23	METALS & MINING - Copper	Period 7 of 10	2	-2%	0%	2%	Strengthened												
7 Days - 08/22/23 to 08/29/23	METALS & MINING - Copper	Period 8 of 10	2	2%	2%	3%	Strengthened							2 Copper->	2 Copper->	2 Copper->			
7 Days - 08/15/23 to 08/22/23	METALS & MINING - Copper	Period 9 of 10	2	1%	1%	1%	Weakened							2 Copper->	2 Copper->	2 Copper->			
7 Days - 08/08/23 to 08/15/23	METALS & MINING - Copper	Period 10 of 10	2	2%	2%	5%	-4%	Weakened						<-Copper 2	<-Copper 2	<-Copper 2			
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Gold	Period 1 of 10 (Current)	16	0%	6%	10%	Strengthened				16 Gold->	16 Gold->	16 Gold->						
7 Days - 10/03/23 to 10/10/23	METALS & MINING - Gold	Period 2 of 10	16	-5%	5%	9%	Strengthened				16 Gold->	16 Gold->	16 Gold->						
7 Days - 09/26/23 to 10/03/23	METALS & MINING - Gold	Period 3 of 10	16	-13%	5%	1%	Unchanged				<-Gold 16	<-Gold 16	<-Gold 16						
7 Days - 09/19/23 to 09/26/23	METALS & MINING - Gold	Period 4 of 10	16	-10%	-5%	1%	Weakened				<-Gold 16	<-Gold 16	<-Gold 16						
7 Days - 09/12/23 to 09/19/23	METALS & MINING - Gold	Period 5 of 10	16	-1%	1%	6%	Strengthened				16 Gold->	16 Gold->	16 Gold->						
7 Days - 09/05/23 to 09/12/23	METALS & MINING - Gold	Period 6 of 10	16	-16%	0%	3%	Unchanged				16 Gold								
7 Days - 08/29/23 to 09/05/23	METALS & MINING - Gold	Period 7 of 10	16	-8%	-5%	1%	Weakened				<-Gold 16	<-Gold 16	<-Gold 16						
7 Days - 08/22/23 to 08/29/23	METALS & MINING - Gold	Period 8 of 10	16	2%	6%	13%	Strengthened				16 Gold->	16 Gold->	16 Gold->						
7 Days - 08/15/23 to 08/22/23	METALS & MINING - Gold	Period 9 of 10	16	-1%	0%	2%	Unchanged				16 Gold								
7 Days - 08/08/23 to 08/15/23	METALS & MINING - Gold	Period 10 of 10	16	-13%	-4%	0%	Weakened				<-Gold 16	<-Gold 16							
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	Period 1 of 10 (Current)	22	-3%	2%	26%	Unchanged							22 Indust Mt/Mn					
7 Days - 10/03/23 to 10/10/23	METALS & MINING - Industrial Metals & Minerals	Period 2 of 10	22	-3%	7%	7%	Unchanged							22 Indust Mt/Mn					
7 Days - 09/26/23 to 10/03/23	METALS & MINING - Industrial Metals & Minerals	Period 3 of 10	22	-13%	-3%	6%	Unchanged							22 Indust Mt/Mn					
7 Days - 09/19/23 to 09/26/23	METALS & MINING - Industrial Metals & Minerals	Period 4 of 10	22	-13%	-1%	14%	Weakened							<-Indust Mt/Mn 22	<-Indust Mt/Mn 22	<-Indust Mt/Mn 22			
7 Days - 09/12/23 to 09/19/23	METALS & MINING - Industrial Metals & Minerals	Period 5 of 10	22	-5%	4%	20%	Strengthened							22 Indust Mt/Mn	22 Indust Mt/Mn	22 Indust Mt/Mn			
7 Days - 09/05/23 to 09/12/23	METALS & MINING - Industrial Metals & Minerals	Period 6 of 10	22	-7%	0%	8%	Weakened							<-Indust Mt/Mn 22	<-Indust Mt/Mn 22	<-Indust Mt/Mn 22			
7 Days - 08/29/23 to 09/05/23	METALS & MINING - Industrial Metals & Minerals	Period 7 of 10	22	-1%	2%	10%	Unchanged							22 Indust Mt/Mn	22 Indust Mt/Mn	22 Indust Mt/Mn			
7 Days - 08/22/23 to 08/29/23	METALS & MINING - Industrial Metals & Minerals	Period 8 of 10	22	-3%	2%	13%	Strengthened							22 Indust Mt/Mn	22 Indust Mt/Mn	22 Indust Mt/Mn			
7 Days - 08/15/23 to 08/22/23	METALS & MINING - Industrial Metals & Minerals	Period 9 of 10	22	-7%	3%	10%	Strengthened							22 Indust Mt/Mn	22 Indust Mt/Mn	22 Indust Mt/Mn			
7 Days - 08/08/23 to 08/15/23	METALS & MINING - Industrial Metals & Minerals	Period 10 of 10	22	-21%	-4%	4%	Weakened							<-Indust Mt/Mn 22	<-Indust Mt/Mn 22	<-Indust Mt/Mn 22			
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Nonmetallc Mineral Mining	Period 1 of 10 (Current)	3	3%	10%	22%	Unchanged									3 Nonmet Mining			
7 Days - 10/03/23 to 10/10/23	METALS & MINING - Nonmetallc Mineral Mining	Period 2 of 10	3	4%	8%	11%	Unchanged									3 Nonmet Mining			
7 Days - 09/26/23 to 10/03/23	METALS & MINING - Nonmetallc Mineral Mining	Period 3 of 10	3	6%	6%	6%	Strengthened									3 Nonmet Mining			
7 Days - 09/19/23 to 09/26/23	METALS & MINING - Nonmetallc Mineral Mining	Period 4 of 10	3	-2%	3%	8%	Strengthened									3 Nonmet Mining			
7 Days - 09/12/23 to 09/19/23	METALS & MINING - Nonmetallc Mineral Mining	Period 5 of 10	3	4%	8%	13%	Strengthened									3 Nonmet Mining			
7 Days - 09/05/23 to 09/12/23	METALS & MINING - Nonmetallc Mineral Mining	Period 6 of 10	3	-1%	3%	6%	Unchanged									3 Nonmet Mining			
7 Days - 08/29/23 to 09/05/23	METALS & MINING - Nonmetallc Mineral Mining	Period 7 of 10	3	-8%	0%	8%	Unchanged									3 Nonmet Mining			
7 Days - 08/22/23 to 08/29/23	METALS & MINING - Nonmetallc Mineral Mining	Period 8 of 10	3	0%	2%	6%	Unchanged									3 Nonmet Mining			
7 Days - 08/15/23 to 08/22/23	METALS & MINING - Nonmetallc Mineral Mining	Period 9 of 10	3	5%	11%	11%	Unchanged									3 Nonmet Mining			
7 Days - 08/08/23 to 08/15/23	METALS & MINING - Nonmetallc Mineral Mining	Period 10 of 10	3	-13%	-4%	2%	Weakened									<-Nonmet Mining 3			
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Silver	Period 1 of 10 (Current)	10	4%	9%	20%	Strengthened	10 Silver->	10 Silver->	10 Silver->									
7 Days - 10/03/23 to 10/10/23	METALS & MINING - Silver	Period 2 of 10	10	-1%	3%	6%	Unchanged	10 Silver											
7 Days - 09/26/23 to 10/03/23	METALS & MINING - Silver	Period 3 of 10	10	-6%	2%	6%	Unchanged	10 Silver											
7 Days - 09/19/23 to 09/26/23	METALS & MINING - Silver	Period 4 of 10	10	-13%	-7%	0%	Weakened	<-Silver 10	<-Silver 10	<-Silver 10									
7 Days - 09/12/23 to 09/19/23	METALS & MINING - Silver	Period 5 of 10	10	-1%	6%	6%	Unchanged				10 Silver								
7 Days - 09/05/23 to 09/12/23	METALS & MINING - Silver	Period 6 of 10	10	-6%	-2%	3%	Strengthened				10 Silver								
7 Days - 08/29/23 to 09/05/23	METALS & MINING - Silver	Period 7 of 10	10	-10%	-7%	-4%	Weakened				<-Silver 10	<-Silver 10							
7 Days - 08/22/23 to 08/29/23	METALS & MINING - Silver	Period 8 of 10	10	4%	6%	13%	Strengthened				10 Silver->	10 Silver->							
7 Days - 08/15/23 to 08/22/23	METALS & MINING - Silver	Period 9 of 10	10	-10%	-1%	6%	Strengthened				10 Silver								
7 Days - 08/08/23 to 08/15/23	METALS & MINING - Silver	Period 10 of 10	10	-13%	-4%	8%	Weakened				10 Silver								
7 Days - 10/10/23 to 10/17/23	METALS & MINING - Steel & Iron	Period 1 of 10 (Current)	11	-13%	-3%	1%	Weakened						11 Steel/Iron						
7 Days - 10/03/23 to 10/10/23	METALS & MINING - Steel & Iron	Period 2 of 10	11	-1%	2%	5%	Strengthened					11 Steel/Iron->	11 Steel/Iron->						
7 Days - 09/26/23 to 10/03/23	METALS & MINING - Steel & Iron	Period 3 of 10	11	-4%	0%	4%	Unchanged												
7 Days - 09/19/23 to 09/26/23	METALS & MINING - Steel & Iron	Period 4 of 10	11	-4%	-1%	4%	Weakened				<-Steel/Iron 11	<-Steel/Iron 11							
7 Days - 09/12/23 to 09/19/23	METALS & MINING - Steel & Iron	Period 5 of 10	11	-3%	1%	5%	Unchanged				11 Steel/Iron								
7 Days - 09/05/23 to 09/12/23	METALS & MINING - Steel & Iron	Period 6 of 10	11	-7%	-4%	-1%	Weakened							<-Steel/Iron 11	<-Steel/Iron 11				
7 Days - 08/29/23 to 09/05/23	METALS & MINING - Steel & Iron	Period 7 of 10	11	-1%	1%	1%	Unchanged							11 Steel/Iron					
7 Days - 08/22/23 to 08/29/23	METALS																		

Green Highlight: Strengthened

Red Highlight: Weakened

No Highlight: Unchanged

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October 17, 2023

For educational purposes only. Not a stock or investment recommendation.

2C. Stocks 1 Week Strongest and Weakest

What: stocks currently rated Strongest/Weakest (highest/lowest of 9 strength ratings)

Why: most interesting stocks for available capital because

- the Strongest have the least amount of overhead supply to dampen breakouts while
- the Weakest may be prone to volatility, subject to big pops from bottom-fishing and short-covering BUT ALSO to bigger and faster falls.

(Not guaranteed and not a recommendation – weak stocks in weakening sub-industries may be better shorts than high-flyers.)

STOCK DETAIL (EDUCATIONAL PURPOSES ONLY/NOT FINANCIAL ADVICE)										1 week 10/10/23 to 10/17/23									
Length - Begin/End	Sub-Industry	Ticker	Company	ID1	ID2	% Chg	ID3	Status	7Weakest	8VWeak	7Weaker	6Weak	5Avg	4Strong	3Stronger	2VStrong	1Strongest		
1 week 10/10/23 to 10/17/23	METALS & MINING - Aluminum	KALU	Kaiser Aluminum Corp	99-79-51	22%	0%	-5%	9Weakest	←KALU	←KALU									
1 week 10/10/23 to 10/17/23	METALS & MINING - Aluminum	CENX	Century Aluminum Company	99-79-51	14%	-1%	-23%	9Weakest	CENX										
1 week 10/10/23 to 10/17/23	METALS & MINING - Aluminum	AA	Alcoa Corporation	99-79-51	25%	-2%	-27%	9Weakest	AA										
1 week 10/10/23 to 10/17/23	METALS & MINING - Copper	FCX	Freeport-McMoran Inc.	99-79-51	67%	-2%	-8%	9Weakest	FCX										
1 week 10/10/23 to 10/17/23	METALS & MINING - Gold	KGC	Kinross Gold Corp	11-61-51	93%	10%	13%	1Strongest					KGC→	KGC→	KGC→	KGC→	KGC→	KGC→	KGC→
1 week 10/10/23 to 10/17/23	METALS & MINING - Gold	AGI	Alamos Gold Inc.	11-61-51	88%	7%	6%	1Strongest					AGI→	AGI→	AGI→	AGI→	AGI→	AGI→	AGI→
1 week 10/10/23 to 10/17/23	METALS & MINING - Gold	SAND	Sandstorm Gold Limited	99-61-51	16%	6%	-9%	9Weakest	SAND										
1 week 10/10/23 to 10/17/23	METALS & MINING - Gold	NG	Novagold Resources Inc.	99-61-51	5%	4%	-25%	9Weakest	NG										
1 week 10/10/23 to 10/17/23	METALS & MINING - Gold	MTA	Metalla Royalty and Streaming Ltd	99-61-51	5%	0%	-37%	9Weakest	MTA										
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	ARLP	Alliance Resource Partners LP	15-45-51	90%	4%	19%	1Strongest											ARLP
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	SILCA	U.S. Silica Holdings	15-45-51	63%	2%	9%	1Strongest											SILCA
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	ARCH	Arch Resources Inc.	15-45-51	87%	0%	18%	1Strongest											ARCH
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	CCI	Cameco Corp	15-45-51	89%	0%	24%	1Strongest											CCI
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	LEU	Centrus Energy Corp	15-45-51	62%	-2%	40%	1Strongest											LEU
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	NXE	NexGen Energy Ltd	15-45-51	87%	-3%	24%	1Strongest											NXE
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	HCC	Warrior Met Coal	15-45-51	95%	-4%	27%	1Strongest											HCC
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	UUUU	Energy Fuels Inc.	15-45-51	65%	-5%	15%	1Strongest											UUUU
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	AMR	Alpha Metallurgical Resources Inc.	15-45-51	90%	-5%	38%	1Strongest											AMR
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	NRP	Natural Resource Partners	15-45-51	90%	-6%	28%	1Strongest											NRP
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	MP	MP Materials Corp	99-45-51	32%	8%	-24%	9Weakest	MP										
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	CMP	Compass Minerals International	99-45-51	5%	5%	-18%	9Weakest	CMP										
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	LTHM	Livent Corporation	99-45-51	46%	3%	-20%	9Weakest	LTHM										
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	HBM	Hudbay Minerals Inc.	99-45-51	43%	0%	-6%	9Weakest	HBM										
1 week 10/10/23 to 10/17/23	METALS & MINING - Industrial Metals & Minerals	LAC	Lithium Americas Corp	99-45-51	18%	-15%	-54%	9Weakest	LAC										
1 week 10/10/23 to 10/17/23	METALS & MINING - Nonmetallic Mineral Mining	HNRG	Hallador Energy Co	15-15-51	100%	5%	64%	1Strongest											HNRG
1 week 10/10/23 to 10/17/23	METALS & MINING - Nonmetallic Mineral Mining	CEIX	CONSOL Energy Inc.	15-15-51	100%	3%	61%	1Strongest											CEIX
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	SSRM	SSR Mining Inc.	99-71-51	24%	6%	-6%	9Weakest	SSRM										
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	PAAS	Pan Amer Silver Cp	99-71-51	17%	6%	-7%	9Weakest	PAAS										
1 week 10/10/23 to 10/17/23	METALS & MINING - Silver	EKK	Endeavour Silver Corp	99-71-51	22%	4%	-21%	9Weakest	EKK										
1 week 10/10/23 to 10/17/23	METALS & MINING - Steel & Iron	SXC	Suncoke Energy Inc.	15-59-51	85%	1%	14%	1Strongest											SXC
1 week 10/10/23 to 10/17/23	METALS & MINING - Steel & Iron	X	US Steel Corp	15-59-51	84%	0%	24%	1Strongest											X
1 week 10/10/23 to 10/17/23	METALS & MINING - Steel & Iron	IIN	Insteel Industries Inc.	15-59-51	62%	-1%	10%	1Strongest											IIN
1 week 10/10/23 to 10/17/23	METALS & MINING - Steel & Iron	NWPX	Northwest Pipe Co	99-59-51	47%	-3%	-9%	9Weakest	NWPX										
1 week 10/10/23 to 10/17/23	METALS & MINING - Steel & Iron	ACNT	Ascent Industries Co.	99-59-51	26%	-6%	-16%	9Weakest	ACNT										



Strongest to Weakest stocks ratio is 17:17 (25% and 25% of total) 10/10/23 to 10/17/23.

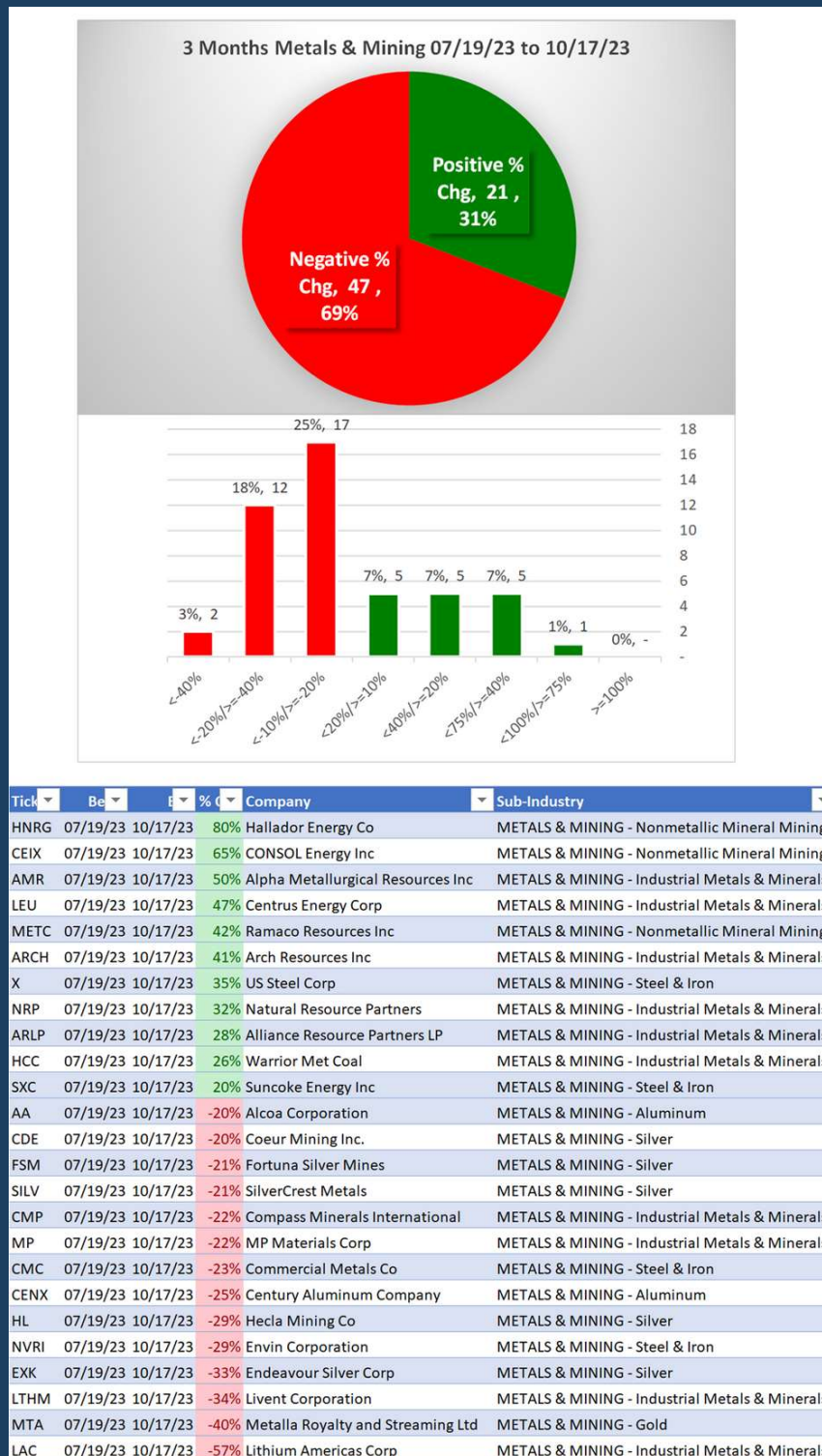
Green Highlight: Strengthened

Red Highlight: Weakened

No Highlight: Unchanged

3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

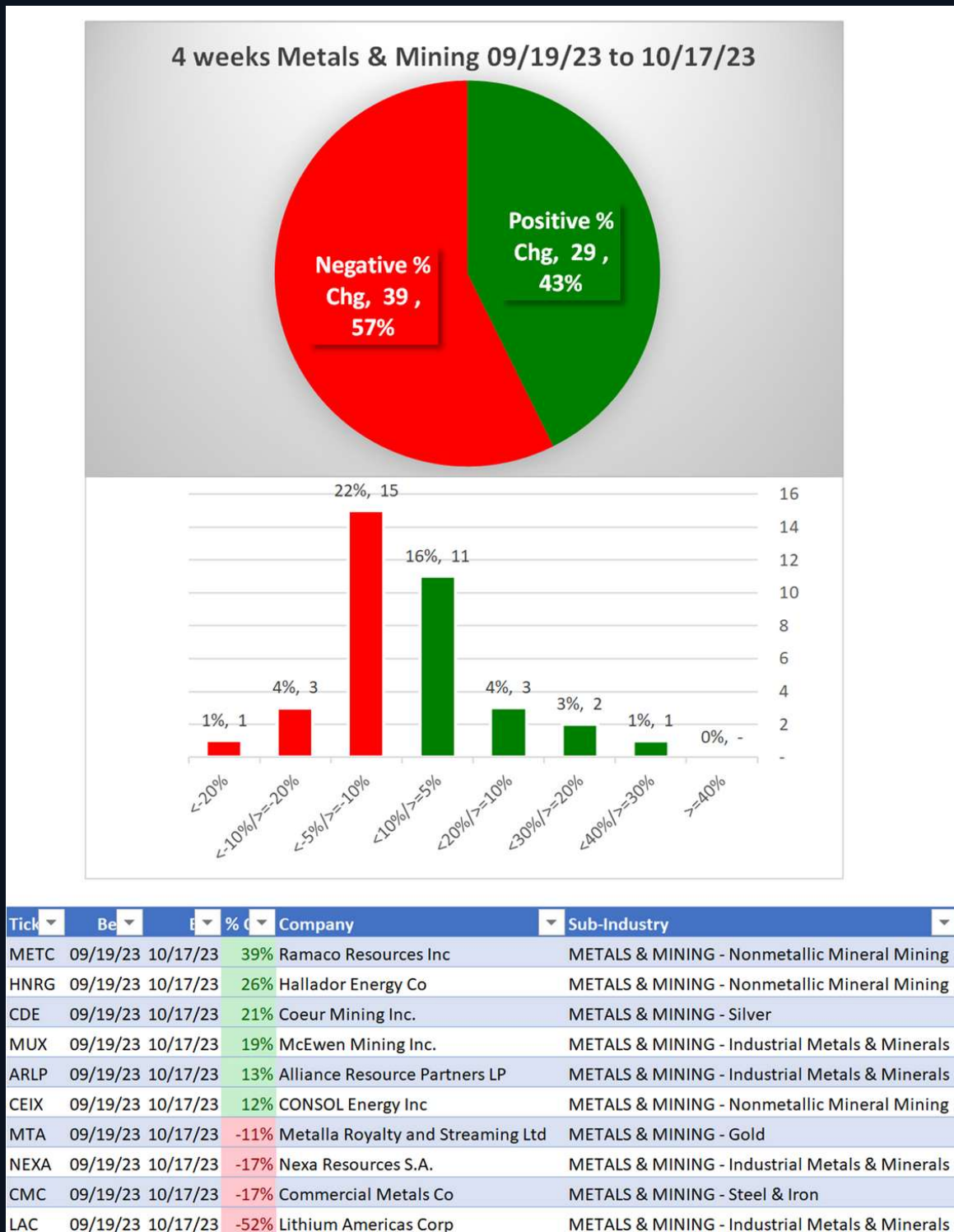
3A. Lookback 6 Months



11 stocks >+20% and 14 stocks <-20% (16% and 21% of total) 07/19/23 to 10/17/23.

3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

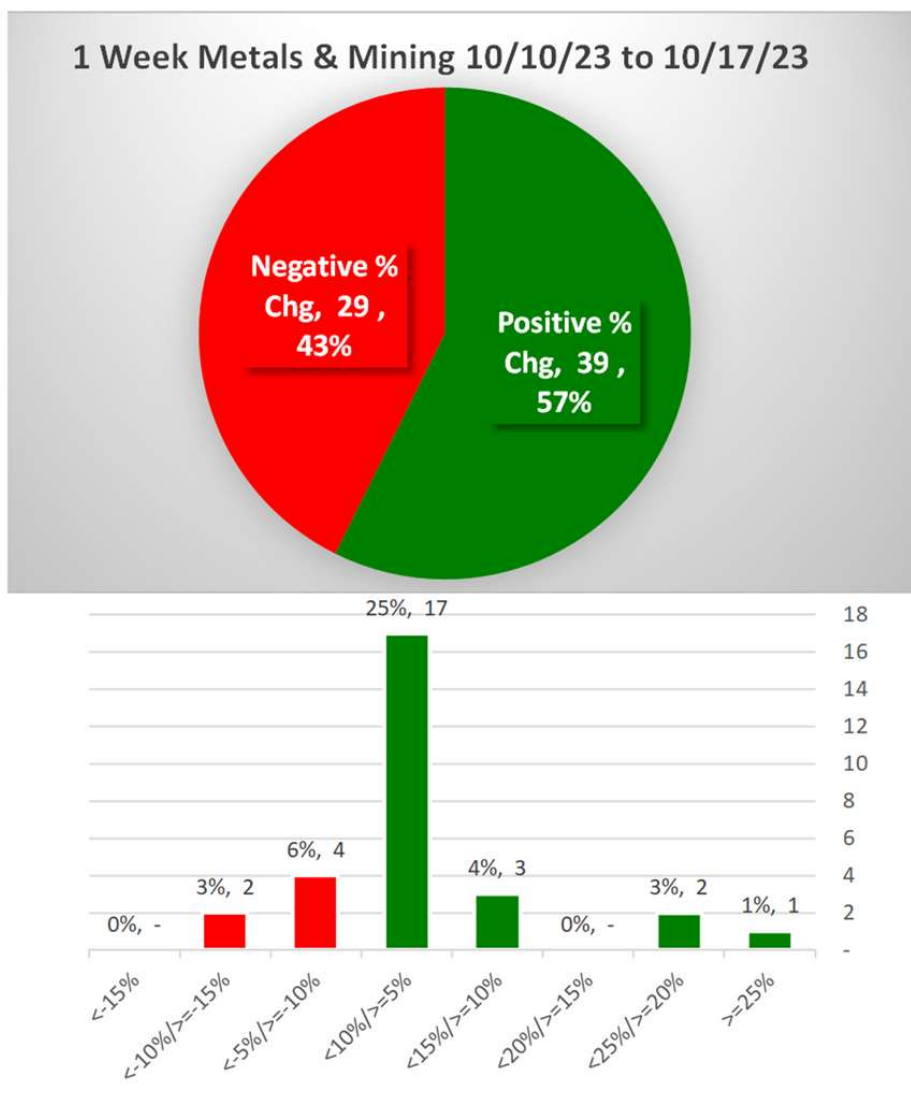
3B. Lookback 4 Weeks



6 stocks > +10% and 4 stocks < -10% (9% and 6% of total) 09/19/23 to 10/17/23.

3. STRENGTH BY LOOKBACK PERIOD (with Best/Worst stocks)

3C. Lookback 1 Week



Tick	Be	F	% C	Company	Sub-Industry
MUX	10/10/23	10/17/23	26%	McEwen Mining Inc.	METALS & MINING - Industrial Metals & Minerals
METC	10/10/23	10/17/23	22%	Ramaco Resources Inc	METALS & MINING - Nonmetallic Mineral Mining
CDE	10/10/23	10/17/23	20%	Coeur Mining Inc.	METALS & MINING - Silver
HL	10/10/23	10/17/23	14%	Hecla Mining Co	METALS & MINING - Silver
AG	10/10/23	10/17/23	12%	First Majestic Silver Corp	METALS & MINING - Silver
KGC	10/10/23	10/17/23	10%	Kinross Gold Corp	METALS & MINING - Gold
CMC	10/10/23	10/17/23	-13%	Commercial Metals Co	METALS & MINING - Steel & Iron
LAC	10/10/23	10/17/23	-15%	Lithium Americas Corp	METALS & MINING - Industrial Metals & Minerals

6 stocks >+10% and 2 stocks <-10% (9% and 3% of total) 10/10/23 to 10/17/23.