

2021 Fatal Comparison Chart (based on preliminary report data, fatal alerts, & final reports) Updated: 2/5/2021

MNM Total	2	Fatal Date	Coal Total	0	Fatal Date	Total
Underground (UG)			Underground (UG)			
Surface & Sur of UG	2	Jan16, Jan19	Surface & Sur of UG			2
Found Non-Chargeable			Found Non-Chargeable			
Contractor			Contractor			
Powered Haulage	1	Jan19	Powered Haulage			1
Machinery	1	Jan16	Machinery			1
Roof, Rib, Highwall Fall			Roof, Rib, Highwall Fall			
Electrical			Electrical			
Slip & Fall of Persons			Slip & Fall of Person			
Fall & Sliding Materials			Fall & Sliding Materials			
Handling Materials			Handling Materials			
Hand Tools						
Age			Age			
Age 0-19			Age 0-19			
Age 20-29			Age 20-29			
Age 30-39	1	Jan19	Age 30-39			1
Age 40-49	1	Jan16	Age 40-49			1
Age 50-59			Age 50-59			
Age 60+			Age 60+			
Experience			Experience			
Less than 1 year			Less than 1 year			
1-9 years	1	Jan16	1-9 years			1
10-19 years	1	Jan19	10-19			1
20+			20+			
Mine Site Experience			Mine Site Experience			
Less than 1 year	1	Jan19	Less than 1 year			1
1-9 years	1	Jan16	1-9 years			1
10-19			10-19			
20+			20+			
Job/Task Experience			Job/Task Experience			
0-7 days			0-7 days			
Less than 1 year	1	Jan19	Less than 1 year			1
1-9 years	1	Jan16	1-9 years			1
10-19			10-19			
20+			20+			
Day of the Week:			Day of the Week:			
Sunday			Sunday			
Monday			Monday			
Tuesday	1	Jan19	Tuesday			1
Wednesday			Wednesday			
Thursday			Thursday			
Friday			Friday			
Saturday	1	Jan16	Saturday			1

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2021 - Month	MNM	Coal	Totals	Difference	Totals	2020 - Month	MNM	Coal
January	2	0	2	0	2	January	2	0
February					3	February	2	1
March					0	March	0	0
April					0	April	0	0
May					2	May	2	0
June					3	June	3	0
July					3	July	3	0
August					3	August	3	0
September					2	September	2	0
October					5	October	2	3
November					3	November	2	1
December					3	December	3	0
2021 Total:	2	0	2	0	29	2020 Total:	24	6

Product	2020 Fatal Dates	2020 Total	2020 Total	State (2021)	Total	MNM	Coal	Fatal Date
Alumina				Alaska	1	1	0	Jan16
Barium			1	Utah	1	1	0	Jan19
Cement			1					
Clay								
Coal			5					
Copper								
Diatomaceous Earth								
Gold Ore			1					
Granite			1					
Gypsum								
Iron Ore								
Kaolin								
Lead Ore	Jan16	1						
Lime								
Limestone			5					
Magnesite								
Phosphate								
Potash								
Sand/ Sand & Gravel	Jan19		10					
Sandstone			2					
Shale								
Silver Ore								
Stone			1					
Titanium								
Traprock								
				Totals:				
				Part 48 = 0				Part 46 = 2
				All Coal =				Non Metal SUR = 2
				MNM: UG =				
				Metal: SUR =				

Month	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	TOTAL	AVG
January	2	2	2	1	2	3	5	1	3	2	1	24	2.18
February		3	0	2	3	1	1	5	5	3	3	22	2.6
March		0	3	3	3	3	5	2	3	5	2	29	2.9
April		0	0	1	0	2	0	6	3	2	2	16	1.6
May		2	3	1	2	2	4	6	1	5	1	27	2.7
June		3	2	3	3	4	3	6	3	2	4	33	3.3
July		3	3	1	4	2	2	2	4	4	2	27	2.7
August		3	5	2	2	1	4	3	3	2	3	28	2.8
September		2	2	1	3	3	2	3	3	5	4	28	2.8
October		5	0	6	4	1	0	3	5	1	6	31	3.1
November		3	2	2	0	0	0	6	5	4	4	26	2.6
December		3	2	4	2	3	3	3	4	1	4	29	2.9
Total:	2	29	24	27	28	25	29	46	42	36	36	320	2.68/mo

Average over past 10 years (2011-2020) = 36 per year

Average over past 5 years (2016-2020) = 27 per year

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2021 – Combined Coal and MNM Fatal

Jan16

Slip/Fall of Person

Iowa

On Saturday, January 16, 2021, a drill operator with over 7 years of experience was fatally injured while using a tool to remove a down-the-hole hammer. The drill motor turned unexpectedly, pinning the driller’s leg between the tool and the drill mast.

Cited Regulations:

Root Cause:

Best Practices:

- Establish and discuss safe work procedures before starting any task.
- Identify and control all hazards. Train all workers to recognize potential hazards and understand safe job procedures to eliminate hazards before beginning work.
- Follow manufacturer’s procedures for using equipment, and monitor employees for compliance.
- Position yourself in a safe location away from potential “danger-zone” areas.
- Train miners to safely perform their tasks.
- Conduct equipment inspections and correct any defects affecting safety.

Use the following links to view additional information:

[Preliminary Report](#)

[Fatal Alert](#)

[Final Report](#)

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2021 – Combined Coal and MNM Fatal

Jan19

Powered Haulage

Utah

On Tuesday, January 19, 2021, a 39-year-old truck driver with over 15 years of total mining experience backed a haul truck to the edge of a dump point that was over steepened by a loader removing material at the bottom of the slope. When the edge of the bank failed, the haul truck traveled backwards and overturned, landing on the roof of the cab.

Cited Regulation:

Root Cause:

Best Practices:

- Always dump material in a safe location. If ground conditions aren't reliable, dump loads a safe distance back and push the material over the edge.
- Never load material from the toe directly below an active dump point. This may lead to an over steepened and unstable slope.
- Never drive haul trucks beyond cracks on the top of the dump site.
- Always construct substantial berms as a visual indicator to prevent overtravel. Clearly mark dump locations with reflectors and/or markers.
- Always wear a seatbelt.
- Install advanced systems that restrain miners during roll-overs.
- Maintain communication between equipment operators and loaders.
- Train miners to use safe dumping procedures and recognize dumping hazards such as material slides and other unsafe conditions.

Use the following links to view additional information:

Preliminary Report	Fatal Alert	Final Report
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MSHA investigates all deaths on mine property; however, some deaths are unrelated to mining activity and are not counted in the statistics MSHA uses to assess the safety performance of the mining industry. These deaths are termed "non-chargeable" and include homicides, suicides, deaths due to natural causes, and deaths involving trespassers.

MSHA uses a formal Fatality Review Committee to determine whether a questionable death is chargeable. There are no ***2021 combined (Coal and MNM) mining accidents pending chargeability determination.***

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