

2018 Fatal Comparison Chart (based on preliminary report data, fatalgrams, & final reports) Updated: 2/13/2018

MNM Total	1	Fatal #'s	Coal Total	0	Fatal #'s	Total
Underground			UG	1	1	1
Surface & Sur of UG	1	1	Surface & Sur of UG			1
Other			Other			
Contractor			Contractor			
Powered Haulage	1	1	Powered Haulage			1
Machinery			Machinery			
Roof, Rib, Highwall Fall			Roof, Rib, Highwall Fall	1	1	1
Electrical			Electrical			
Slip & Fall of Persons			Slip & Fall of Person			
Fall & Sliding Materials			Fall & Sliding Materials			
Ignition/Exploding Gas			Ignition/Explosion			
Hoisting			Hoisting			
Inundation			Inundation			
Exploding Vessel			Exploding Vessel			
Maintenance/Repair Involved			Maintenance/Repair Involved	1	1	1
Examiner, Supervisor, Owner			Examiner, Supervisor, Owner			
Age 0-19			Age 0-19			
Age 20-29			Age 20-29			
Age 30-39	1	1	Age 30-39			1
Age 40-49			Age 40-49			
Age 50-59			Age 50-59	1	1	1
Age 60+			Age 60+			
Experience			Experience			
Less than 1 year			Less than 1 year			
1-9 years	1	1	1-9 years			1
10-19 years			10-19	1	1	1
20+			20+			
Mine Site Experience			Mine Site Experience			
Less than 1 year	1	1	Less than 1 year			1
1-9 years			1-9 years	1	1	1
10-19			10-19			
20+			20+			
Job/Task Experience			Job/Task Experience			
0-7 days			0-7 days			
Less than 1 year	1	1	Less than 1 year			1
1-9 years			1-9 years	1	1	1
10-19			10-19			
20+			20+			
Shift Time			Shift Time			
1 st Shift (7am-3pm)	1	1	1 st Shift (7am-3pm)			1
2 nd Shift (3pm-11pm)			2 nd Shift (3pm-11pm)			
3 rd Shift (11pm-7am)			3 rd Shift (11pm-7am)	1		1
Day of the Week:			Day of the Week:			
Sunday			Sunday			
Monday			Monday			
Tuesday			Tuesday	1	1	1
Wednesday			Wednesday			
Thursday	1	1	Thursday			1
Friday			Friday			
Saturday			Saturday			

Focus on your safety goal with purpose!

2018 - Month	MNM	Coal	Totals	Difference	Totals	2017 - Month	MNM	Coal
January	1	0	1	-1	2	January	1	1
February	0	1	1	-2	3	February	0	3
March					3	March	2	1
April					0	April	0	0
May					2	May	0	2
June					3	June	1	2
July					4	July	3	1
August					2	August	0	2
September					3	September	2	1
October					4	October	3	1
November					0	November	0	0
December					2	December	1	1
2017 Total:	1	1	2	-3	28	2016 Total:	13	15

Product	Fatal #'s For 2018	2018 Total product	2017 Total product	2016 Total product
Alumina				0
Cement			2	2
Clay				0
Coal	1	1	15	8
Copper			1	0
Diatomaceous Earth			1	0
Dimension Stone				0
Gold Ore			2	1
Granite			1	1
Gypsum				0
Iron Ore				0
Kaolin				0
Lead Ore				0
Lime				0
Limestone			2	4
Magnesite				1
Phosphate				1
Salt				0
Sand & Gravel	1	1	3	6
Sandstone				0
Shale				0
Silver Ore				0
Stone			1	0
Titanium				1

State (2018)	Total	MNM	Coal	Fatal #
Iowa	1	1	0	M1
West Virginia	1	0	1	C1

Part 48 = 1	Part 46 = 1
All Coal = 1 MNM: UG = 0 SUR = 0	Non Metal SUR# 1

**Did you complete a
Workplace Exam
today?**

**Keep your
Thoughts and Behaviors
Focused on your Safety Goal!**

Month	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	TOTAL	AVG
January	1	2	3	5	1	3	2	1	4	3	6	30	3
February	1	3	1	1	5	5	3	3	0	4	5	30	3
March		3	3	5	2	3	5	2	1	2	2	28	2.8
April		0	2	0	6	3	2	2	33	4	4	56	5.6
May		2	2	4	6	1	5	1	6	3	7	37	3.7
June		3	4	3	6	3	2	4	6	5	4	40	4
July		4	2	2	2	4	4	2	3	2	3	28	2.8
August		2	1	4	3	3	2	3	4	1	4	27	2.7
September		3	3	2	3	3	5	4	1	4	3	31	3.1
October		4	1	0	3	5	1	6	6	3	11	40	4
November		0	0	0	6	5	4	4	3	2	1	25	2.5
December		2	3	3	3	4	1	4	5	2	3	30	3
Total:	2	28	25	29	46	42	36	36	72	35	53	402	3.35/mo
									UBB				Average: 40.2/yr

Average over past 10 years (2008-2017) = 41 per year

Average over past 5 years (2013-2017) = 34 per year

Focus on your safety goal with purpose!

2018 - MNM Fatal

Fatal #1 – Powered Haulage

Iowa

On Thursday, January 25, 2018 (at 2:42pm), a 38-year-old equipment operator with 4 years mining experience was fatally injured while hauling material from the pit to a stockpile. The articulated haul truck travelled through a berm and into an ice covered pond, submerging the truck's cab. Rescuers utilized divers and tow trucks to pull the submerged truck from the pond and recover the victim.

Best Practices:

- Do not operate heavy equipment when fatigued. The effects of fatigue include tiredness, reduced energy, and physical or mental exhaustion. These conditions become progressively worse as fatigue increases.
- Maintain control and stay alert when operating mobile equipment. Monitor persons routinely to determine safe work procedures are followed.
- Conduct adequate pre-operational checks and correct any defects affecting safety in a timely manner prior to operating mobile equipment. Maintain equipment braking and steering systems in good repair and adjustment.
- Operate mobile equipment at speeds consistent with the conditions of roadways, tracks, grades, clearance, visibility, curves, and traffic.
- Ensure that berms are adequate for the vehicles present on site, including but not limited to height, material, and built on firm ground.
- Ensure that all exits on mobile equipment cabs, including alternate and emergency exits, are maintained and operable.
- Use seat belts when operating mobile equipment.

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. *Six (6) coal mining accidents are pending chargeability determination.*

2018 - Coal Fatal

Fatal #1 – Fall of Rib

West Virginia

On Tuesday, February 6, 2018 (3:30am), a 52-year-old electrician with 13 years experience was servicing a continuous-mining machine when part of a rib roll fell on him.

<i>Use the following links to view additional information:</i>		
Preliminary Report	Fatal Alert	Final Report

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MSHA uses a formal Fatality Review Committee to determine whether a questionable death is chargeable. *One (1) coal mining accidents are **pending** chargeability determination.*