

**2022**

# COMBUSTIBLE DUST INCIDENT REPORT

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**TWO INJURED  
IN TITANIUM  
DUST EXPLOSION  
AT AEROSPACE  
MANUFACTURER**  
Niles, Ohio  
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**THREE INJURED IN  
ALUMINUM DUST EX-  
PLOSION AT BICYCLE  
PARTS FACTORY**  
Fuxing Township, Taiwan  
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**DUST  
SAFETY  
SCIENCE**

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## LETTER FROM THE AUTHOR

**DR. CHRIS CLONEY**

*Managing Director, DustEx Research Ltd.*



### ***Every 20 years we forget about dust explosion hazards...***

Did you know that the first U.S. textbook dedicated to technical assessment of dust explosions was written in 1922 - or that the first U.S. regulation for sugar dust was published in 1924?

The textbook by Price and Brown, reports explosions in grain mills, dextrine, chocolate, sugar, rubber, aluminum, spice, linseed meal, cottonseed meal, paper, cork, linoleum, sulfur, wood and coal processes to name a few. This was part of a period of extensive combustible dust activity that was triggered by major explosions and lasted from 1910 to 1930.

But then the activity stopped... people moved on... and maybe forgot?

The next period of extensive combustible dust activity in the U.S. was from the 1970s to 1990s and was triggered by seven grain elevator explosions from December 1977 to January 1978 (tragically killing 62 and injuring 55). Expert panels were convened, incident investigations completed, global research programs rolled out, symposiums compiled, which eventually led to the OSHA Grain Handling Standard being released.

But by the time of the West Pharmaceutical, CTA Acoustics and Hayes Lemmerz dust explosions in 2003 (combined 7 fatalities and 80+ injuries) the U.S. Chemical Safety Board stated: "Workers and managers were often unaware of dust explosion hazards"... Tragically, we seemed to have forgotten again.

Why does this matter?

Because 2023 marks the 20th anniversary of West, CTA and Hayes and if history repeats itself it also marks the time when we will begin to downplay the risk, let diligence on combustible dust safety slide and start to forget about the hazards again.

It is my sincere hope that by publishing this report every year we can break this trend. That we can keep the awareness and understanding of dust explosion hazards high. And that we can steer towards our goal of at least one year with zero fatalities by 2038 through these efforts.

As always thank you for supporting us in this mission!

Stay safe out there,

Chris

P.S. Have feedback on the incident reporting? Email me at [chris@dustsafetyscience.com](mailto:chris@dustsafetyscience.com).

***"The subject of dust explosions has not received serious consideration until recent years. In fact no one seemed to have any conception that dust alone could explode."***

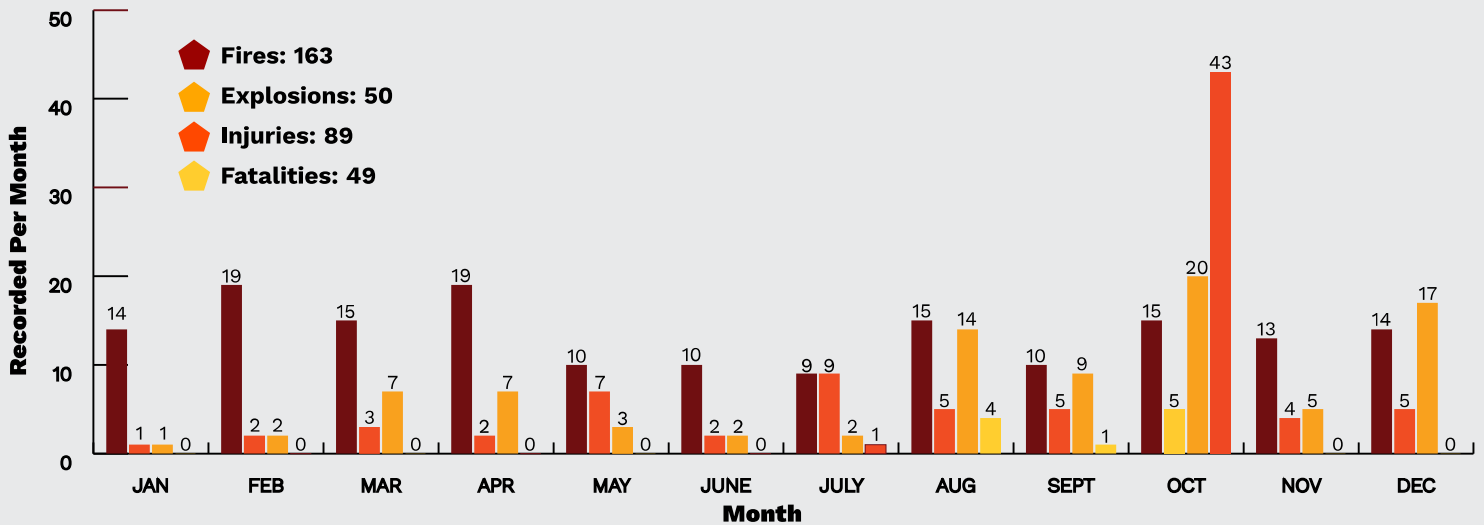
*- Price and Brown, "Dust Explosions - Theory and Nature of, Phenomena, Causes and Methods of Prevention". (1922). National Fire Protection Association. (similar statements found in 1977 grain explosion reports and 2006 CSB reports)*

## INCIDENT DATA OVERVIEW

	UNITED STATES					CANADA					INTERNATIONAL				
	2018	2019	2020	2021	2022	2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
Fires	158	175	116	98	79	17	22	14	8	9	38	53	35	57	75
Explosions	37	37	26	19*	26	4	1	7	3	0	27	37	27	30	24
Injuries	40	42	35	26	24	1	4	2	9	0	73	72	51	180	65
Fatalities	2	1	1	2	1	0	0	0	3	0	21	7	9	64	48

\*One explosion in Belle, WV, USA was removed from the 2021 incident data, as a CSB investigation determined that it was not a combustible dust incident

## 2022 RECORDED INCIDENTS



## LOSS HISTORY - UNITED STATES

Loss history from dust explosions in the United States over the last seven years is given in the following table. This data has been collected in the incident database and reported in the 2016 to 2022 combustible dust incident reports.

YEAR	EXP./YEAR	INJ./YEAR	FAT./YEAR
2016	31	22	3
2017	28	43	6
2018	37	30	2
2019	37	27	1
2020	26	23	1
2021	19	19	1
2022	26	21	1
7 year average	29.1	26.4	2.1

This data gives an average of 29 dust explosions per year, 26 injuries and a range from one to seven yearly fatalities over

the last seven years. Note that dust fires are excluded in this analysis.

## 2022 GLOBAL LOSS OVERVIEW

In 2022, one mine explosion and fire in Amasra, Turkey impacted the data more than any other incident, accounting for over 84% of the year's fatalities:

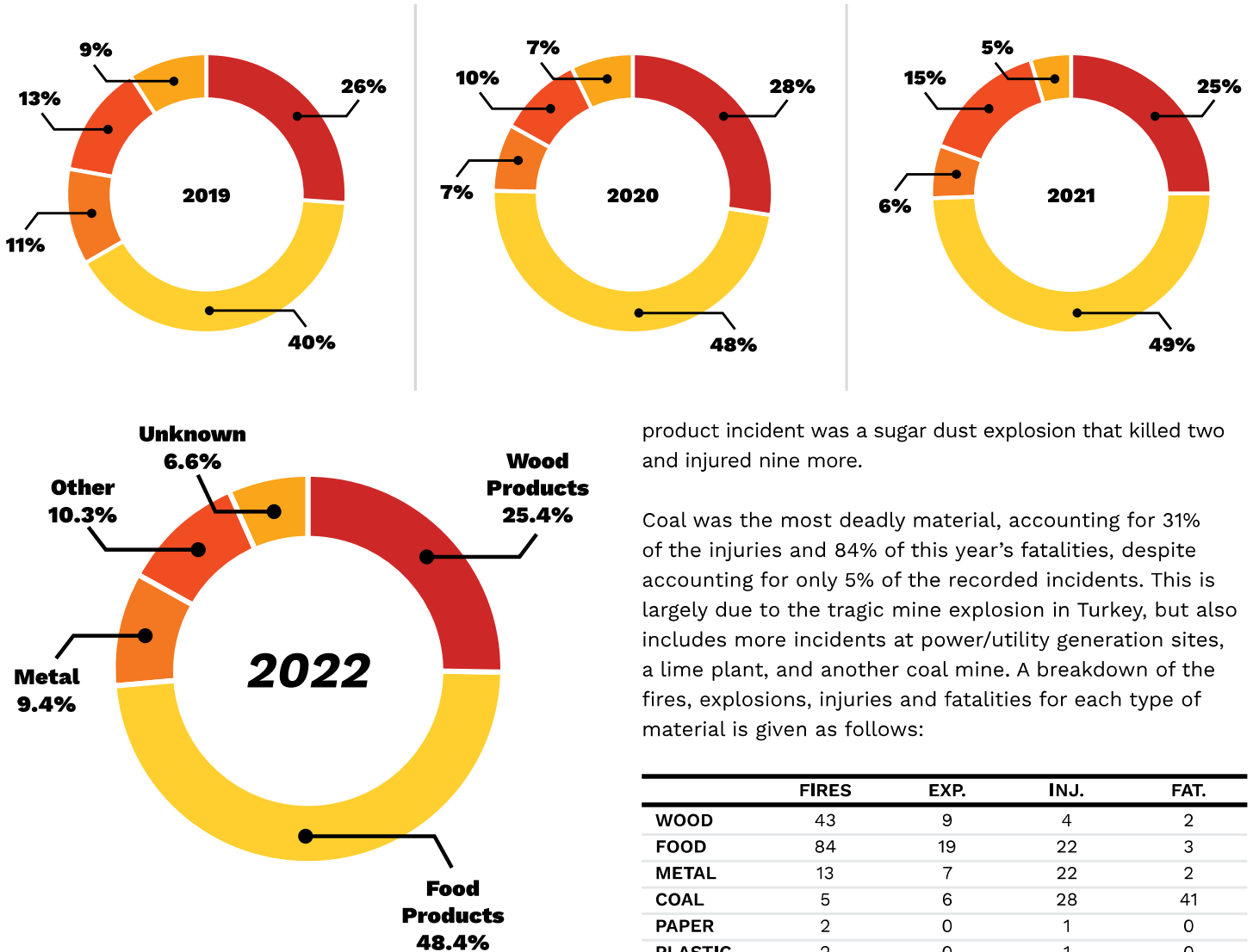
[Explosion at Coal Mine Kills 41 and Injures Others](#) (Amasra, Turkey)

Of this year's injuries, 84% occurred due to explosions and 16% occurred due to fires. For the other fatalities, three came from explosions, and four from fires. Some of the more severe incidents include:

- [Factory Explosion Kills Two, Injures Nine](#) (Kakinada, India)
- [Plant Explosion Injures Two, \\$2M in Damages](#) (Peoria, IL)
- [Two Dead, Four Injured in Steel Plant Fire](#) (Misrata, Libya)
- [Five Injured in Lime Plant Deflagration](#) (Menden, Germany)

## MATERIALS INVOLVED

◆ Wood Products 
 ◆ Food Products 
 ◆ Metal 
 ◆ Other 
 ◆ Unknown



### 2022 DETAILED ANALYSIS

Wood	24.4%	Carbon	0.0%
Food	48.4%	Sulfur	0.9%
Metal	9.4%	Textile	0.0%
Coal	5.2%	Other	3.3%
Paper	0.9%	Unknown	6.6%
Plastic	0.9%		

## DISCUSSION POINTS

From the global incident data, food and wood products made up 73% of the fires and explosions recorded, but only 29% of the injuries and 10% of the fatalities. The largest-loss food

product incident was a sugar dust explosion that killed two and injured nine more.

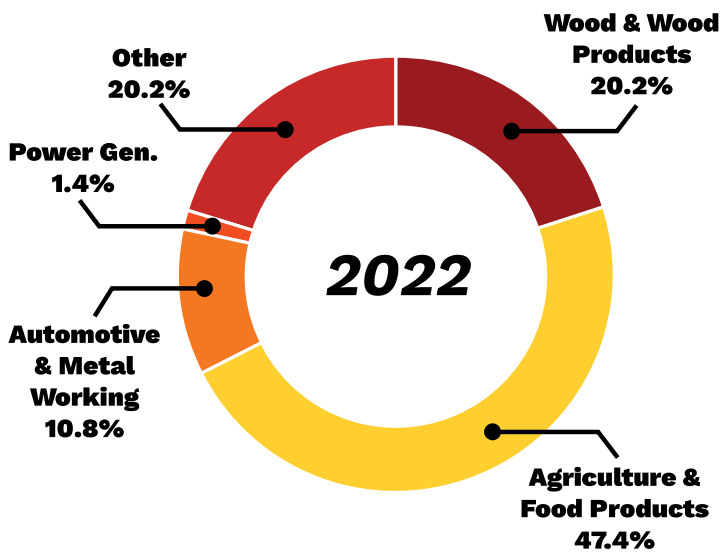
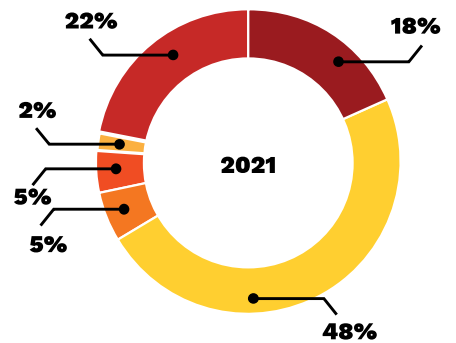
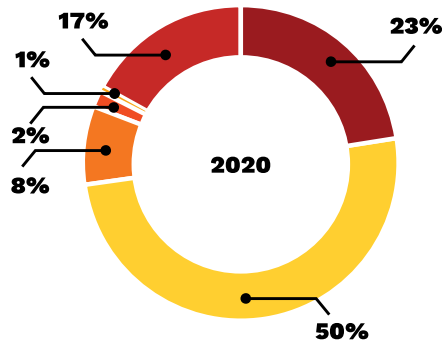
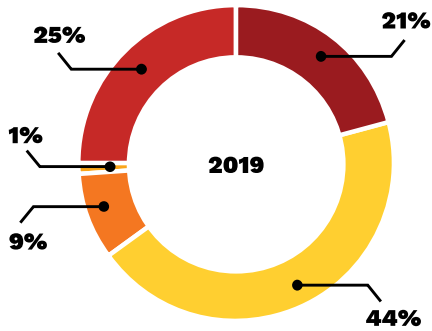
Coal was the most deadly material, accounting for 31% of the injuries and 84% of this year's fatalities, despite accounting for only 5% of the recorded incidents. This is largely due to the tragic mine explosion in Turkey, but also includes more incidents at power/utility generation sites, a lime plant, and another coal mine. A breakdown of the fires, explosions, injuries and fatalities for each type of material is given as follows:

	FIRES	EXP.	INJ.	FAT.
WOOD	43	9	4	2
FOOD	84	19	22	3
METAL	13	7	22	2
COAL	5	6	28	41
PAPER	2	0	1	0
PLASTIC	2	0	1	0
CARBON	0	0	0	0
SULFUR	1	1	0	0
TEXTILE	0	0	0	0
OTHER	3	4	11	0
UNKNOWN	10	4	0	1
<b>TOTAL</b>	<b>163</b>	<b>50</b>	<b>89</b>	<b>49</b>

The only two metal dust fatalities this year resulted from a steel dust collector fire in Libya. 12 of the metal dust injuries resulted from three separate aluminum dust explosions, and a titanium dust explosion also injured two.

Under the category "other", 11 injuries came from three separate explosions - one involving foam rubber dust, one cellulose dust, and nine from an asphalt dust explosion.

## INDUSTRIES INVOLVED



### DISCUSSION POINTS

As shown in the historical data, wood processing, wood products, agricultural activity and food production make up a large portion of the overall fire and explosion incidents. Since 2017 wood and wood products have ranged from 19% to 28% of the incidents, while agricultural activity and food production has ranged from 33% to 50%.

As shown in the detailed incident breakdown, the “other” category includes pulp & paper, ethanol, high schools, and educational facilities. Industries not broken out in the detailed breakdown include rubber products, metal recycling, chemical manufacturing, pharmaceuticals, plastics and waste treatment.

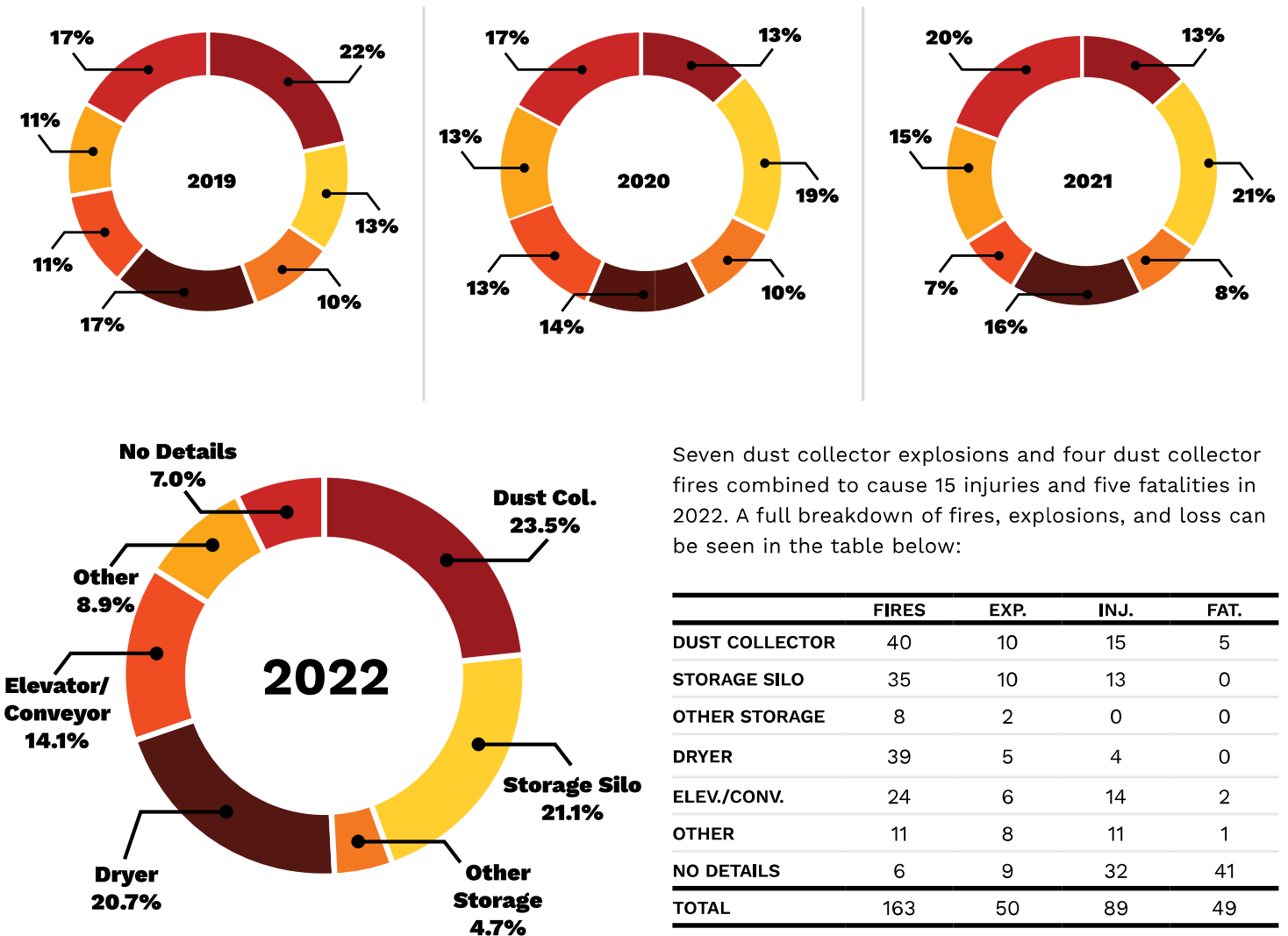
Combined, the overall “other” category of industries makes up 29% of the injuries and no fatalities in 2022. Agriculture & food processing, metal working, and power generation made up 22%, 16% and 6% of the injuries, respectively. Coal Handling accounted for 19% of injuries and 84% of fatalities this year, mostly due to the tragic mine explosion in Turkey. Overall, fatalities were recorded in wood and wood products, metal working, agriculture, food processing, and coal handling industries.

#### 2022 DETAILED ANALYSIS

Wood & Wood Pro.	20.2%	Schools and Edu.	0.9%
Automotive	2.4%	Ethanol	2.4%
Metal Working	8.5%	Power Generation	1.4%
Agriculture	38.0%	Coal Handling	1.9%
Food Processing	9.4%	Mining	0.0%
Pulp & Paper	1.9%	Other	13.2%

## EQUIPMENT & CAUSES

■ Dust Collector 
 ■ Storage Silo 
 ■ Other Storage 
 ■ Dryer 
 ■ Elevator/Conveyor 
 ■ Other 
 ■ No Details



Seven dust collector explosions and four dust collector fires combined to cause 15 injuries and five fatalities in 2022. A full breakdown of fires, explosions, and loss can be seen in the table below:

	FIRES	EXP.	INJ.	FAT.
DUST COLLECTOR	40	10	15	5
STORAGE SILO	35	10	13	0
OTHER STORAGE	8	2	0	0
DRYER	39	5	4	0
ELEV./CONV.	24	6	14	2
OTHER	11	8	11	1
NO DETAILS	6	9	32	41
<b>TOTAL</b>	<b>163</b>	<b>50</b>	<b>89</b>	<b>49</b>

Of the incidents where equipment is known, five fatalities came from dust collectors, two from elevators/conveyors, and one “other.” These incidents include a metal dust collector fire in Libya, a wood dust collector fire in India, a sugar dust explosion from a conveyor belt in India, and a grain tunnel explosion in Brazil.

Incidents where no details were provided for the equipment made up only 7% of the total reported. However, these incidents made up 36% of the reported injuries and 84% of the reported fatalities, mostly from the one Turkish mine explosion.

### DISCUSSION POINTS

In 2022, dust collectors demonstrated the highest percentage (24%) of combustible dust incidents with 40 fires and 10 explosions reported. Storage silos and dryers were the next biggest sources of incidents, accounting for 21% each.

Of the incidents with known equipment, dust collectors had the highest number of injuries and fatalities, followed closely by elevators/conveyors and storage silos. Dryers, which accounted for the highest portion of last year’s injuries, accounted for only four injuries in 2022.

## 2022 OSHA CITATIONS

ISSUE DATE	INDUSTRIAL ACTIVITY	STATE	VIOLATIONS	INT. PEN.	CUR. PEN.	INSPECTION	STATUS	CITATION LINK
Dec 28	Farm Machinery and Equipment Manufacturing	AL	2	\$23,494	\$15,000	1607167.015	Closed	<a href="#">More Info</a>
Dec 19	Graphic Design Services	PA	1	\$7,458	\$5,594	1607622.015	Closed	<a href="#">More Info</a>
Dec 16	Other Warehousing and Storage	TX	6	\$24,033	\$15,414	1618348.015	Open	<a href="#">More Info</a>
Dec 13	Wood Kitchen Cabinet and Countertop Manufacturing	RI	5	\$19,269	\$19,269	1605425.015	Open	<a href="#">More Info</a>
Dec 12	Prefabricated Wood Building Manufacturing	NH	3	\$13,054	\$4,000	1601660.015	Closed	<a href="#">More Info</a>
Nov 14	Metal Heat Treating	PA	2	\$20,302	\$14,500	1603648.015	Closed	<a href="#">More Info</a>
Nov 7	Paint, Varnish, and Supplies Merchant Wholesalers	NJ	6	\$46,408	\$27,845	1595048.015	Open	<a href="#">More Info</a>
Nov 7	Wood Product Manufacturing	GA	2	\$20,302	\$20,302	1598222.015	Closed	<a href="#">More Info</a>
Oct 14	Wood Kitchen Cabinet and Countertop Manufacturing	NJ	7	\$23,619	\$23,619	1595748.015	Open	<a href="#">More Info</a>
Sep 8	Coffee and Tea Manufacturing	GA	3	\$55,119	\$27,969	1589752.015	Closed	<a href="#">More Info</a>
Sep 2	Secondary Smelting, Refining, and Alloying of Nonferrous Metal	PA	2	\$29,004	\$15,000	1592659.015	Open	<a href="#">More Info</a>
Aug 26	Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing:	FL	1	\$23,310	\$11,655	1588728.015	Closed	<a href="#">More Info</a>
Aug 17	Aluminum Foundries	WI	3	\$32,360	\$16,932	1582937.015	Open	<a href="#">More Info</a>
Jul 22	Cheese Manufacturing	WI	4	\$51,793	\$51,793	1580705.015	Open	<a href="#">More Info</a>
Jul 18	Other Millwork (including Flooring)	PA	12	\$38,112	\$24,000	1578747.015	Open	<a href="#">More Info</a>
Jun 21	Aluminum Foundries	OH	19	\$53,183	\$25,000	1569953.015	Closed	<a href="#">More Info</a>
May 12	Tire Manufacturing	IL	13	\$155,836	\$83,226	1565239.015	Open	<a href="#">More Info</a>
Apr 1	Wood Kitchen Cabinet and Countertop Manufacturing	WI	3	\$7,459	\$3,728	1557236.015	Closed	<a href="#">More Info</a>
Mar 15	Dry, Condensed, and Evaporated Dairy Product Manufacturing	WI	1	\$10,360	\$7,252	1554187.015	Closed	<a href="#">More Info</a>
Mar 11	Wood Kitchen Cabinet and Countertop Manufacturing	NJ	7	\$81,214	\$36,000	1553632.015	Open	<a href="#">More Info</a>
Feb 10	Frozen Cakes, Pies, and Other Pastries	PA	6	\$60,080	\$35,000	1559051.015	Open	<a href="#">More Info</a>
Jan 14	Leather Goods	TX	6	\$20,285	\$12,171	1558535.015	Closed	<a href="#">More Info</a>
Jan 6	Powder Metallurgy Part Manufacturing	CT	49	\$236,201	\$143,000	1542164.015	Open	<a href="#">More Info</a>

**Inspections Resulting In Citations: 13**  
**Total Citations: 163**










**Total Initial Penalties: \$1,052,255**  
**Total Current Penalties: \$638,269**

**Initial Penalty/Citation: \$6,456**  
**Initial Penalty/Inspection: \$45,750**

\*Information was collected from OSHA Data & Statistics by searching for “dust” within inspection details from citations made using the General Dusty Clause.














## WOOD & WOOD PRODUCTS

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Feb 22	Clear Lake Lumber Inc.	Spartansburg, PA	Fire	Wood Dust	0	0	Silo	No Details	
Feb 27	West Fraser	Lanett, AL	Fire	Wood Dust	0	0	Dryer	No Details	
Mar 3	Bright Wood Corporation	Madras, OR	Fire	Wood Dust	0	0	Blower Pipe	No Details	
Mar 5	Buchanan Lumber Company	Aliceville, AL	Explosion	Wood Dust	1	0	Dust Collector	No Details	
Apr 3	Country Lane Gazebos	New Holland, PA	Fire	Wood Dust	0	0	Dust Collector	No Details	
Apr 26	Adorn Hardwoods	Elkhart, WI	Fire	Wood Dust	0	0	Dust Collector	\$40,000	
May 11	Trex	Winchester, VA	Explosion	Wood Dust	0	0	Dust Collector	No Details	
Jun 23	North Carolina Plywood	Whiteville, NC	Explosion	Wood Dust	1	0	Dust Collector	No Details	
Jun 25	Kennebec Lumber Company	Greenfield, NH	Fire	Wood Dust	0	0	Unknown	No Details	
Jul 13	Ethan Allen	Orleans, VT	Fire	Wood Dust	0	0	Silo	No Details	
Jul 14	Sauder Woodworking	Archbold, OH	Explosion	Wood Dust	0	0	Sawdust Silo	No Details	
Aug 26	Bridgewood Cabinetry	Chanute, KS	Fire	Wood Dust	0	0	Dust Collector	No Details	
Sep 12	R-Y Timber	Livingston, MT	Explosion	Wood Dust	1	0	Wood Planer	No Details	
Sep 24	Humboldt Redwood Company Lumber Mill	Scotia, CA	Fire	Wood Dust	0	0	Conveyor Belt	No Details	
Oct 26	Crossville Hardwoods	Crossville, TN	Explosion	Wood Dust	0	0	Sawdust Silo	No Details	
Nov 12	Decorative Panels International	Alpena, MI	Fire	Wood Dust	0	0	Wood Dryer	No Details	
Dec 1	No Details	Beauregard, LA	Fire	Wood Dust	0	0	Baghouse	No Details	
Dec 30	Kraftmaid Cabinetry	Orwell, OH	Fire	Wood Dust	0	0	Sawdust Silo	No Details	

**INCIDENT SUMMARY - INCIDENTS: 18 | FIRES: 12 | EXPLOSIONS: 6 | INJURIES: 3 | FATALITIES: 0**

## AUTOMOTIVE & METAL WORKING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	
Feb 8	Harley-Davidson	Springettsbury Township, PA	Fire	Unknown	0	0	Dust Collector	No Details	
Feb 10	West Central Steel Inc.	Willmar, MN	Fire	Metal Dust	0	0	Dust Collector	No Details	
Mar 21	BTD Manufacturing	Detroit Lakes, MN	Fire	Metal Dust	0	0	Dust Collector	No Details	
Feb 28	Jost International	Greeneville, TN	Fire	Unknown	0	0	Dust Collector	No Details	
Mar 15	LDI Industries	Huntley, IL	Fire	Metal Dust	0	0	Dust Collector	No Details	
Mar 25	CoreBrace	Pocatello, ID	Fire	Metal Dust	0	0	Dust Collector	No Details	
Apr 11	Bayloff Stamped Products	Van Buren Township, MI	Fire	Metal Dust	0	0	Dust Collector	No Details	
Apr 25	Continental AG	Newport News, VA	Fire	Unknown	0	0	Dust Collector	No Details	
Apr 13	Hestia Heat Treating	Racine, WI	Fire	Metal Dust	1	0	Ductwork	\$4,000	
Jul 4	West Alabama Mechanical Inc.	Moundville, AB	Explosion	Unknown	0	1	Dust Collector	No Details	
Aug 25	Westermeyer Industries, Inc.	Bluffs, IL	Fire	Metal Dust	0	0	Dust Collector	No Details	

## AUTOMOTIVE & METAL WORKING CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	
Sep 24	Wheatland Tube	Wheatland, OH	Fire	Zinc Dust	0	0	Dust Collector	No Details	
Oct 5	Briggs & Stratton	Sherrill, NY	Fire	Metal Dust	0	0	Dust Collector	No Details	
Nov 9	Madison-Kipp Corporation	Madison, WI	Fire	Metal Dust	0	0	Dust Collector	No Details	
Nov 23	Polaris Industries	Madison, AL	Fire	Metal Dust	0	0	Dust Collector	No Details	
Dec 30	Unknown	Coldwater, MI	Fire	Metal Dust	0	0	Dust Collector	No Details	
Aug 3	Reading Alloys	South Heidelberg Township, PA	Explosion	Metal Dust	0	0	No Details	No Details	

**INCIDENT SUMMARY - INCIDENTS: 17 | FIRES: 15 | EXPLOSIONS: 2 | INJURIES: 1 | FATALITIES: 1**

## AGRICULTURE

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	
Jan 12	Cargill-Nutrena	Lecompte, LA	Explosion	Grain Dust	0	0	No Details	No Details	
Jan 21	Rugby Farmers Elevator	Rugby, ND	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 2	Gavilon Grain LLC	Clovis, NM	Explosion	Grain Dust	1	0	Ductwork	No Details	
Feb 4	Columbia Grain Facility	Belgrade, MT	Fire	Grain Dust	0	0	Grain Elevator	No Details	
Jan 7	ADM	Toledo, OH	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jan 18	Koster Grain	Aurelia, IA	Fire	Wood Dust	0	0	Grain Elevator	No Details	
Jan 19	Cooperative Farmers Elevator	Rock Valley, IA	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jan 20	Unknown	Fairmont, NE	Fire	Grain Dust	0	0	Grain Bin	No Details	
Feb 4	Risser Grain	East Drumore, PA	Fire	Grain Dust	0	0	Grain Silo	No Details	
Feb 15	Louis Dreyfus	Claypool, IN	Fire	Grain Dust	0	0	Baghouse	No Details	
Mar 17	Tyson Foods Inc.	Pine Bluff, AR	Fire	Grain Dust	0	0	Grain Bin	No Details	
Mar 21	Bunge North America	Red Oak, IA	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 12	Unknown	Wichita, KS	Fire	Grain Dust	0	0	Grain Elevator	No Details	
Apr 30	Perdue Farms	Chesapeake, VA	Fire	Grain Dust	0	0	Soybean Processing Tank	No Details	
May 9	Palouse Grain Growers Inc.	Palouse, WA	Fire	Grain Dust	0	0	Shaker	No Details	
May 12	Farmers Co-op Equity	Sawyer, KS	Explosion	Grain Dust	0	0	Grain Elevator	No Details	
May 23	Unknown	Fort Smith, AR	Explosion	Grain Dust	0	0	Grain Silo	No Details	
May 25	M & E Seed and Grain	Prosser, WA	Explosion	Grain Dust	1	0	Grain Silo	No Details	
May 26	Alcivia	Evansville, WI	Fire	Grain Dust	0	0	Grain Dryer	\$850,000	
June 15	Cooperative Producers, Inc.	Saronville, NE	Fire	Grain Dust	0	0	Grain Bin	No Details	
July 5	Gold Eagle Cooperative	Hardy, IA	Explosion	Sulphur Dust	0	0	Bin	No Details	
Jul 15	Perdue Farms	Washington, IN	Fire	Grain Dust	0	0	Grain Leg	No Details	
Jul 24	Brett Bowes Farm	Antes Fort, PA	Explosion	Grain Dust	0	0	Grain Silo	No Details	

## AGRICULTURE CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	
Jul 20	Caledonia Farmers Elevator	Charlotte, MI	Fire	Grain Dust	0	0	Electric Motor	No Details	
Jul 25	Watertown COOP Elevator	Watertown, SD	Fire	Grain Dust	0	0	Bucket Ladder Motor	No Details	
Aug 20	Unknown	Warrington, PA	Fire	Grain Dust	0	0	Grain Silo	No Details	
Sep 7	ADM	Lincoln, NE	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Sep 15	Walk Stock Farm	Neoga, IL	Explosion	Grain Dust	0	0	Grain Bin	No Details	
Sep 19	The Andersons	Delphi, IN	Fire	Grain Dust	0	0	Grain Bin	No Details	
Sep 26	Unknown	High Point, NC	Explosion	Grain Dust	2	0	Grain Silo	No Details	
Oct 2	Unknown	Smithboro, IL	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Oct 13	United Grain Corp.	Vancouver, WA	Fire	Grain Dust	0	0	Conveyor System	No Details	
Oct 17	Cooperative Farmers Elevator	Rock Valley, IA	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Oct 26	New Alliance Bean & Grain Company	Alliance, NE	Fire	Grain Dust	0	0	Conveyor Belt	No Details	
Oct 30	Unknown	Earlville, IL	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Nov 5	Unknown	Nancy, KY	Fire	Grain Dust	0	0	Grain Silo	No Details	
Nov 11	CHS Dakota Plains Ag	Edgeley, ND	Fire	Grain Dust	0	0	Grain Elevator	No Details	
Nov 10	Farmers Rice Milling Company	Lake Charles, LA	Explosion	Grain Dust	0	0	Grain Elevator	No Details	
Dec 2	Star Of The West Milling Company	Kent, OH	Explosion	Grain Dust	0	0	Unknown	No Details	

**INCIDENT SUMMARY - INCIDENTS: 39 | FIRES: 28 | EXPLOSIONS: 11 | INJURIES: 4 | FATALITIES: 0**

## FOOD PROCESSING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Apr 29	Spokane Seed Company	Spokane Valley, WA	Fire	Grain Dust	0	0	Grain Silo	No Details	
May 13	Blue Diamond Growers	Sacramento, CA	Fire	Almond Dust	0	0	Dust Collector	No Details	
Aug 9	Grain Craft	Pendleton, OR	Fire	Grain Dust	0	0	Grain Silo	No Details	
Aug 5	J.M. Smucker	New Bethlehem, PA	Fire	Peanut Dust	0	0	Roaster	No Details	
Aug 21	Riceland Foods Inc.	Stuttgart, AR	Fire	Grain Dust	0	0	Dust Collector	No Details	
Oct 3	Milbank Mills Inc.	Chillicothe, MO	Fire	Grain Dust	0	0	Grain Hopper	No Details	
Nov 18	Bunge North America	Jonesville, LA	Fire	Grain Dust	0	0	Grain Elevator	No Details	



**INCIDENT SUMMARY - INCIDENTS: 7 | FIRES: 7 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0**

## PULP & PAPER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Jan 22	Port Townsend Paper Mill	Port Townsend, WA	Fire	Paper Dust	0	0	Conveyor Belt	No Details	
Jun 14	WestRock	West Point, VA	Fire	Wood Dust	0	0	Conveyor Belt	No Details	






**INCIDENT SUMMARY - INCIDENTS: 2 | FIRES: 2 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0**

## SCHOOLS & EDUCATIONAL FACILITIES

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Mar 1	Waupun Area Junior/Senior High School	Waupun, WI	Fire	Wood Dust	0	0	Dust Collector	No Details	
Mar 22	Maple Mountain High School	Spanish Fork, UT	Fire	Wood Dust	1	0	Dust Collector	\$50,000	












**INCIDENT SUMMARY - INCIDENTS: 2 | FIRES: 2 | EXPLOSIONS: 0 | INJURIES: 1 | FATALITIES: 0**

## ETHANOL PRODUCTION

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
May 10	Guardian Lima, LLC	Lima, OH	Fire	Grain Dust	0	0	Grain Silo	No Details	
May 11	BioUrja Renewables	Peoria, IL	Explosion	Grain Dust	2	0	Grain Silo	\$2,000,000	
May 20	Three Rivers Energy	Coshocton, OH	Explosion	Grain Dust	0	0	Grain Dryer	No Details	
Aug 14	Homeland Energy Solutions	Lawlor, IA	Explosion	Grain Dust	0	0	Grain Dryer	No Details	
Nov 4	Marquis Energy	Hennepin, IL	Fire	Grain Dust	0	0	Corn Dryer	No Details	





**INCIDENT SUMMARY - INCIDENTS: 5 | FIRES: 2 | EXPLOSIONS: 3 | INJURIES: 2 | FATALITIES: 0**

## OTHER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Feb 14	VELUX	Greenwood, SC	Fire	Sawdust	0	0	Dust Collector	No Details	
Feb 16	Springfield City Utilities	Springfield, MO	Explosion	Coal Dust	1	0	Boiler	No Details	
Apr 4	California Pellet Mill	Waterloo, IA	Fire	Grain Dust	0	0	Hopper	No Details	
Apr 9	Plastic Engineering Company	Sheboygan, WI	Fire	Plastic Dust	1	0	Dust Collector	\$500,000	
Apr 13	ALTIVIA Petrochemical	Haverhill, OH	Fire	Chemical Dust	0	0	Not Applicable	No Details	
Apr 15	Paragon Medical	Pierceton, IN	Fire	Unknown	0	0	Dust Collector	No Details	
May 11	Unknown	Port Reading, NJ	Fire	Unknown	0	0	Dust Collector	No Details	
May 16	Berry Global	Evansville, IN	Fire	Plastic Dust	0	0	Dust Collector	No Details	
Jun 8	Unknown	Chattanooga, TN	Fire	Unknown	0	0	Dust Collector	No Details	
Jul 21	Johnson Matthey Catalysts	Sevierville, TN	Explosion	Nickel Aluminum Powder		0	Unknown	No Details	
Aug 22	Unknown	Jefferson City, MO	Fire	Unknown	0	0	Dust Collector	No Details	






## AGRICULTURE CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	
Aug 26	Zimmer Biomet	Warsaw, IN	Fire	Metal Dust	0	0	Dust Collector	No Details	
Oct 6	Quad/Graphics	Effingham, IL	Fire	Unknown Dust	0	0	Dust Collector	No Details	
Oct 18	Howmet Structure Systems	Niles, OH	Explosion	Titanium Dust	2	0	Dust Collector	No Details	
Dec 8	C6-Zero	Niles, OH	Explosion	Asphalt Dust	9	0	Unknown	No Details	


**INCIDENT SUMMARY - INCIDENTS: 15 | FIRES: 11 | EXPLOSIONS: 4 | INJURIES: 13 | FATALITIES: 0**

## WOOD & WOOD PRODUCTS

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Feb 17	Lois Lumber	Powell River, BC	Fire	Wood Dust	0	0	Unknown	No Details	
Apr 24	Suncoast Lumber & Milling	Sechelt, BC	Fire	Wood Dust	0	0	Conveyor Belt	No Details	
Jun 25	Weyerhaeuser	Kenora, ON	Fire	Wood Dust	0	0	Dust Collector	No Details	




**INCIDENT SUMMARY - INCIDENTS: 3 | FIRES: 3 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0**

## AUTOMOTIVE & METAL WORK

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Aug 7	Algoma Steel Inc.	Sault Sainte Marie, ON	Fire	Coal Dust	0	0	Conveyor System	No Details	



**INCIDENT SUMMARY - INCIDENTS: 1 | FIRES: 1 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0**

## AGRICULTURE

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Aug 21	Fennel Farms	Newbury, ON	Fire	Grain Dust	0	0	Grain Silo	\$1,500,000	
Nov 29	J.E. Boudreault and Sons	Saint-Irénée, QC	Explosion	Wood Dust	0	0	Heating System	\$75,000	
Dec 23	Bentley Grain Elevator	Bentley, AB	Grain Dust	Grain Dust	0	0	Grain Elevator	No Details	

**INCIDENT SUMMARY - INCIDENTS: 3 | FIRES: 3 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0**

## OTHER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 5	Unknown	Winnipeg, MB	Unknown	Grain Dust	0	0	Dust Collector	No Details	
Dec 9	Jungbunzlauer	Port Colborne, ON	Unknown	Grain Dust	0	0	Dryer	No Details	

**INCIDENT SUMMARY - INCIDENTS: 2 | FIRES: 2 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0**

## WOOD & WOOD PRODUCTS

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Feb 13	Energia Madeiras - Industrial e Comercial S.A.	Canoinhas, Brazil	Fire	Sawdust	0	0	Silo	No Details	
Apr 3	West Fraser	Inverness, UK	Explosion	Wood Dust	0	0	Conveyor System	No Details	
Apr 13	Unknown	Guarapuava, Brazil	Fire	Wood Dust	0	0	Unknown	No Details	
May 20	Unknown	Abelardo Luz, Brazil	Fire	Wood Dust	0	0	Silo	No Details	
Jun 7	Unknown	Presidente Getúlio, Brazil	Explosion	Wood Dust	0	0	Baghouse	No Details	
Jun 8	Unknown	São Lourenço do Oeste, Brazil	Fire	Wood Dust	0	0	Silo	No Details	
Jun 22	Unknown	Carvalhais, Portugal	Fire	Wood Dust	0	0	Silo	No Details	
Jul 7	Carpin - Casais Wood & Metal	Braga, Portugal	Fire	Sawdust	0	0	Sawdust Silo	No Details	
Jul 12	Unknown	Papanduva, Brazil	Fire	Wood Dust	0	0	Silo	No Details	
Aug 14	Stylam Industries Ltd.	Panchkula, India	Fire	Wood Dust	0	2	Dust Collector	No Details	
Aug 26	Unknown	Ponte Serrada, Brazil	Fire	Wood Dust	0	0	Wood Shredder	No Details	
Sep 8	Móveis Carraro	Bento Gonçalves, Brazil	Fire	Wood Dust	0	0	Silo	No Details	
Sep 15	Unknown	Arentim, Portugal	Fire	Wood Dust	0	0	Silo	No Details	
Oct 19	Unknown	Vargeão, Brazil	Fire	Wood Dust	0	0	Wood Shavings Silo	No Details	
Oct 18	Unknown	Salinas, Brazil	Fire	Wood Dust	0	0	Warehouse	No Details	
Dec 11	Unknown	Onitsha, Nigeria	Fire	Wood Dust	0	0	Wood Smoothing Machine	No Details	
Oct 27	Akita Plywood Mukaiyama Factory	Akita, Japan	Fire	Wood Dust	0	0	Wood Chip Silo	No Details	
Dec 9	No Details	Längenfeld, Austria	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Dec 15	Unknown	Tijuco Preto, Brazil	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Dec 17	Unknown	Canela, Brazil	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Dec 12	Fagnes Pellets SRL	Couvin, Belgium	Explosion	Wood Dust	0	1	Pellet Silo	No Details	
Dec 21	Unknown	Essarts-en-Bocage, France	Fire	Wood Dust	0	0	Dust Collector	No Details	

**INCIDENT SUMMARY - INCIDENTS: 22 | FIRES: 19 | EXPLOSIONS: 3 | INJURIES: 0 | FATALITIES: 2**

## AUTOMOTIVE & METAL WORK

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Aug 3	Unknown	Sehmatal, Germany	Explosion	Aluminum Dust	5	0	Metal Grinder	No Details	
Oct 30	Libyan Iron and Steel Company	Misrata, Libya	Fire	Metal Dust	4	2	Dust Collector	No Details	
Nov 16	Unknown	Fuxing Township, China	Explosion	Metal Dust	3	0	Dust Collector	No Details	
Jul 25	Unknown	Shizuoka City, Japan	Explosion	Aluminum Dust	1	0	Dust Collector	No Details	
Aug 4	Suzuki Motor Corporation	Hamamatsu, Japan	Explosion	Unknown	0	0	Dust Collector	No Details	

**INCIDENT SUMMARY - INCIDENTS: 5 | FIRES: 1 | EXPLOSIONS: 4 | INJURIES: 13 | FATALITIES: 2**

## AGRICULTURE

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	
Jan 19	Ridley	Tamworth, Australia	Fire	Grain Dust	0	0	Conveyor Belt	No Details	
Feb 7	Unknown	Davistow, UK	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jan 13	Unknown	Lucas do Rio Verde, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jan 12	Unknown	Caxambu do Sul, Brazil	Fire	Grain Dust	1	0	Grain Dryer	No Details	
Jan 19	Unknown	Campo Erê, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jan 25	Unknown	São Bento, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 14	Unknown	Great Braxted, UK	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 10	ALZ Grãos	Figueirópolis, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Aug 13	Lar Cooperativa Agroindustrial	Amambai, Brazil	Fire	Grain Dust	0	0	Ductwork	No Details	
Jan 14	Unknown	Lucas do Rio Verde, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Feb 22	Unknown	Alta Floresta, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 26	Unknown	Juína, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 3	Lar Cooperativa Agroindustrial	Amambai, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Mar 15	Huinca Cereales	Marcos Juarez, Argentina	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 17	Unknown	Zortéa, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 25	Unknown	Rio Branco, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 26	Unknown	Nova Bassano, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Mar 30	Unknown	Coxilha, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
May 26	Coccam - Cooperativa Agropecuaria Caamponovense	Lebon Régis, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 7	Cotrijal - Cooperativa Agropecuária e Industrial	Tunas, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 9	Agropecuaria Cara Branca Ltda	Campo Erê, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
May 22	Unknown	Água Doce, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
May 30	Unknown	Ituporanga, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jun 3	Unknown	Nörvenich, Germany 52388	Fire	Grain Dust	1	0	Grain Silo	No Details	
Jul 8	Cooperativa Triticola Mista Campo Novo	Crissiumal, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jul 20	Unknown	Alfenas, Brazil	Fire	Grain Dust	0	0	Grain Dryer	\$51,000	
Aug 12	Unknown	Três Corações, Brazil	Explosion	Grain Dust	0	0	Grain Dryer	No Details	
Sep 2	Unknown	Nova Maringá, Brazil	Fire	Grain Dust	0	0	Conveyor System	No Details	
Aug 26	Copérdia	Joaçaba, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Sep 2	Unknown	Sorriso, Brazil	Fire	Grain Dust	0	1	Tunnel	No Details	
Oct 6	Unknown	Carrington, Australia	Fire	Grain Dust	0	0	Dust Collector	No Details	



## AGRICULTURE CONTINUED

Oct 30	Unknown	Água Boa, Brazil	Explosion	Grain Dust	0	0	Grain Dryer	No Details	
Nov 2	JBS Foods	Xanxerê, Brazil	Fire	Grain Dust	2	0	Grain Silo	No Details	
Oct 5	Unknown	Lucas do Rio Verde, Brazil	Explosion	Grain Dust	0	0	Conveyor Belt	No Details	
Oct 13	Cooperativa Agrícola Ganadera de Monte Buey Ltda	Monte Buey, Argentina	Explosion	Grain Dust	2	0	Grain Dryer	No Details	
Jul 18	Unknown	Singapore	Fire	Grain Dust	1	0	Grain Dryer	No Details	
Nov 30	Unknown	Figuerelas, Spain	Fire	Grain Dust	0	0	Corn Silo	No Details	
Nov 17	Unknown	Valliquerville, France	Fire	Flax Dust	0	0	Unknown	No Details	
Dec 2	Unknown	Água Doce, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	

**INCIDENT SUMMARY - INCIDENTS: 39 | FIRES: 35 | EXPLOSIONS: 4 | INJURIES: 7 | FATALITIES: 1**

## FOOD PROCESSING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 15	Milk-Vita	Baghabari, Bangladesh	Fire	Milk Powder	0	0	Milk Powder Machine	No Details	
Mar 31	Unknown	Lucknow, India	Explosion	Milk Powder	0	0	Milk Dryer	No Details	
Apr 1	Unknown	Boa Vista das Missões, Rio Grande do Sul Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 4	Cereais Estrela	Salto do Jacuí, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 22	Unknown	Mafra, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 29	Unknown	Ermo, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jun 7	Unknown	Caputira, Brazil	Fire	Grain Dust	0	0	Bean Dryer	No Details	
Jul 5	Toro	Indre Arna, Norway	Explosion	Unknown	0	0		No Details	
Aug 19	Unknown	Kakinada, India	Explosion	Sugar Dust	9	2	Conveyor Belt	No Details	
Sep4	GrainCorp.	Carrington, Australia	Fire	Grain Dust	0	0	Dust Collector	No Details	
Sep 23	Rampinelli Alimentos	Eldorado do Sul, Brazil	Fire	Grain Dust	0	1	Grain Silo	No Details	
Dec 11	No Details	Turvo, Brazil	Fire	Rice Dust	0	0	Rice Dryer	No Details	
Dec 22	Unknown	Chivilcoy, Argentina	Fire	Grain Dust	0	0	Grain Silo	No Details	








**INCIDENT SUMMARY - INCIDENTS: 13 | FIRES: 10 | EXPLOSIONS: 3 | INJURIES: 9 | FATALITIES: 2**

## PULP & PAPER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jul 1	Mercer Stendal	Arneburg, Germany	Fire	Wood Dust	0	0	Conveyor System	No Details	
Dec 8	Munksjö Rottersac SAS	Lalinde, France	Fire	Paper Pulp	1	0	Paper Machine	No Details	












**INCIDENT SUMMARY - INCIDENTS: 2 | FIRES: 2 | EXPLOSIONS: 0 | INJURIES: 1 | FATALITIES: 0**

## POWER GENERATION & COAL HANDLING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Feb 10	Coquesul Brasileiro Indústria e Comércio Ltda	Criciúma, Brazil	Fire	Coal Dust	0	0	Unknown	No Details	
Mar 2	Engro Powergen Thar Limited	Thar, Pakistan	Explosion	Coal Dust	5	0	Unknown	No Details	
May 9	AVR UmweltService GmbH	Sinsheim, Germany	Explosion	Unknown	0	0	Conveyor Belt	No Details	
Jun 18	No Details	Coseley, UK	Fire	Coal Dust	0	0	Unknown	No Details	
Oct 14	Turkish Hard Coal Enterprises	Amasya, Turkey	Explosion	Coal Dust	11	41	Sawdust Silo	No Details	
Sep 22	JSW	Dąbrowa Górnicza, Poland	Explosion	Coal Dust	6	0	Unknown	No Details	
Nov 29	Taichung Power Plant	Taichung City, Taiwan	Fire	Coal Dust	0	0	Unknown	No Details	

INCIDENT SUMMARY - INCIDENTS: 7 | FIRES: 3 | EXPLOSIONS: 4 | INJURIES: 22 | FATALITIES: 41

## OTHER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Feb 7	Northport	Marsden Point, New Zealand	Fire	Wood Dust	0	0	Conveyor System	No Details	
Apr 21	Unknown	Menden, Germany	Explosion	Lignite Dust	5	0	Silo	No Details	
Jul 20	Unknown	Río Tercero, Argentina	Explosion	Grain Dust	0	0	Conveyor System	No Details	
Aug 26	Porto de São Francisco do Sul	São Francisco do Sul, Brazil	Fire	Grain Dust	0	0	Conveyor Belt	No Details	
Sep 10	VLI Logística	Cubatão, Brazil	Fire	Sulfur Dust	0	0	Conveyor System	No Details	
Oct 25	XPS Foam	Rhydymwyn, UK	Explosion	Foam Rubber Dust	1	0	Granulator	No Details	
Nov 7	Daicel Corporation	Otake City, Japan	Fire	Coal Dust	0	0	Conveyor Belt	No Details	
Dec 1	Unknown	Gehren, Germany	Explosion	Cellulose Dust	1	0	Dust Collector	No Details	
Nov 23	No Details	Mühlberg, Germany	Explosion	Coal Dust	0	0	Chimney	No Details	
Nov 21	Syded du Lot	Cactus, France	Fire	Wood Dust	0	0	Wood Silo	No Details	
Dec 29	Unknown	Kameyama City, Japan	Explosion	Aluminum Dust	6	0	Unknown	No Details	

INCIDENT SUMMARY - INCIDENTS: 11 | FIRES: 5 | EXPLOSIONS: 6 | INJURIES: 13 | FATALITIES: 0

**Author: Dr. Chris Cloney, DustEx Research Ltd.**

Document Version #1

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