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2017 Combustible Dust Incident Report

Report Summary

Purpose:

The goal of this report is to increase awareness of combustible dust hazards and encourage adoption of prevention and protection practices.

Recorded Incidents:

	Combustible Dust Incidents*			Related Incidents
	NORTH AMERICA	INTERNATIONAL	GLOBAL	GLOBAL
Fires	132	37	169	35
Explosions	32	36	68	41
Injuries	61	102	163	441
Fatalities	6	7	13	342

**An effort was made to identify incidents where industrial powder was not the main fuel and move these to "Related Incidents". When combustible dust could not be ruled out, the incident was left as a "Combustible Dust Incident" (CDI) and included in the analysis given herein.*

Note on Methods:

This report was compiled using the News feature of Google search and keywords such as "Dust Explosion" and "Combustible Dust".

Note on Completeness:

Due to reliance on third-party news agencies, incomplete articles, and Google search, the author makes no warranties or guarantees on the accuracy or completeness of information given in this document.

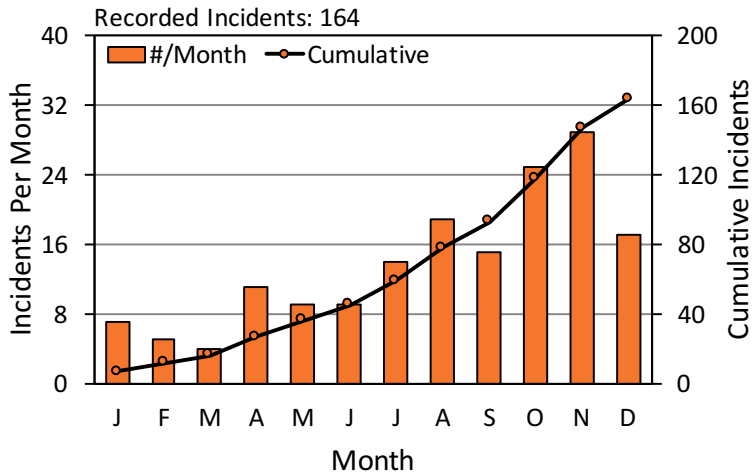
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"For a long time, people were saying that most accidents were due to human error and this is true in a sense but it's not very helpful. It's a bit like saying that falls are due to gravity"

- Dr. Trevor Kletz

North America Review

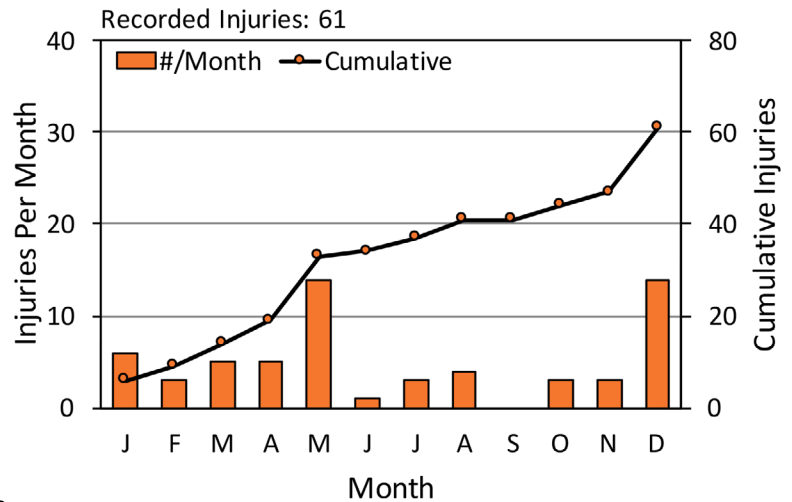


Largest Offenders

Dust: **Grain Dust**
 State: **Michigan**
 Industry: **Wood Products**
 Equipment: **Dust Collectors**

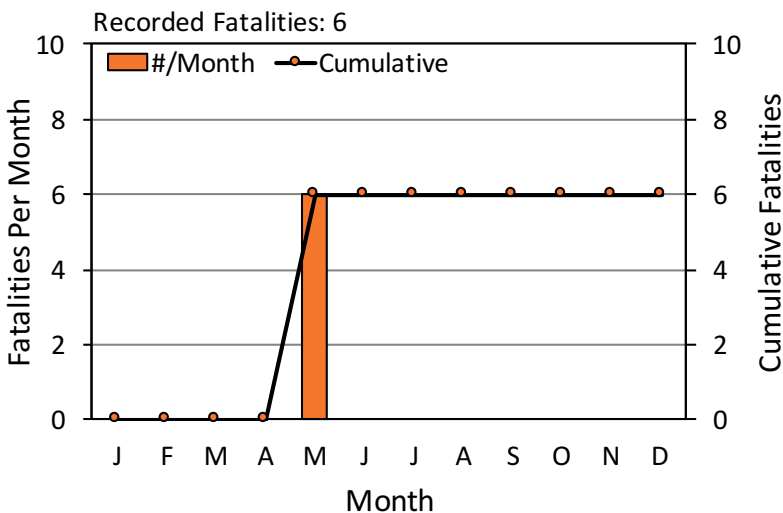
“The piece of equipment which was on fire was designed with ‘blow out’ panels which allowed a smaller explosion but reduce the chances of a catastrophic explosion.”

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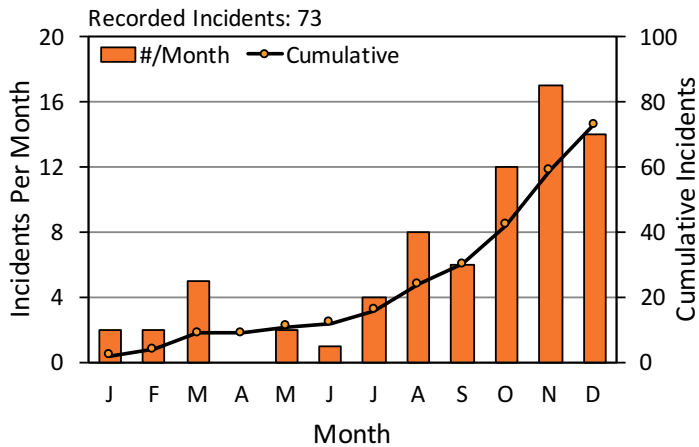


“The fire was so intense that most of the aluminum dust burned before it splashed onto the ground. Taylor says the near-molten metal burned a hole approximately 4 feet in diameter in the ground.”

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International Review

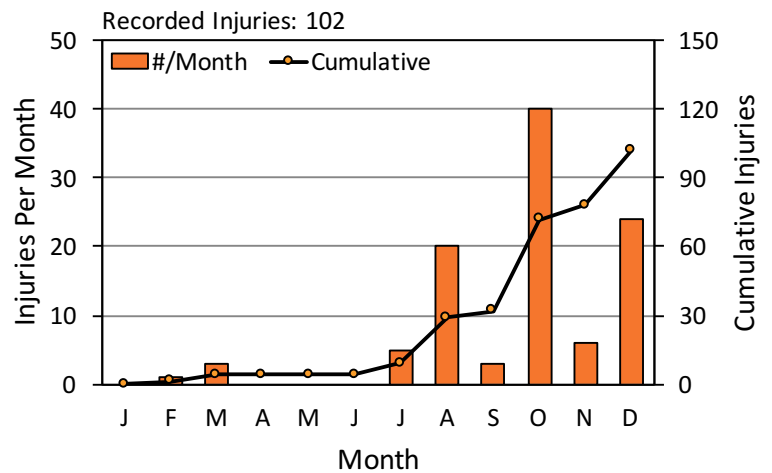


Largest Offenders

Dust: **Wood/Grain Dust**
 Country: **England**
 Industry: **Food Processing**
 Equipment: **Silos**

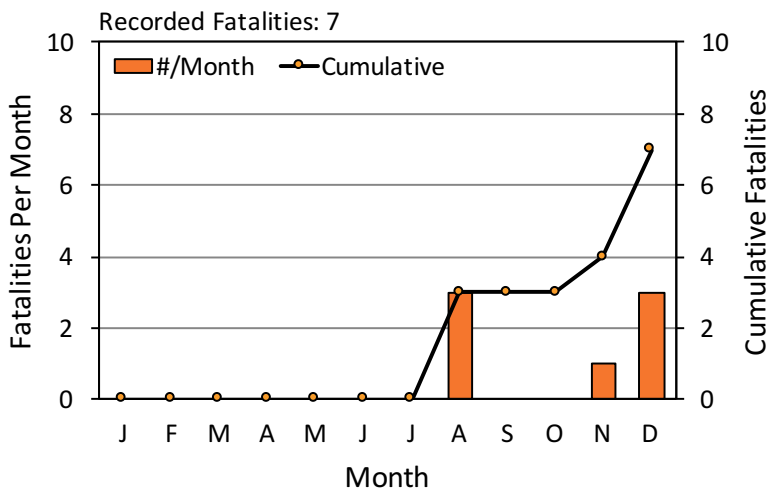
“They then climbed on the silo to spray water into it but a spark caused a combustion that lead to an explosion [...]. This is the fourth time the silo has caught fire in the past three months.”

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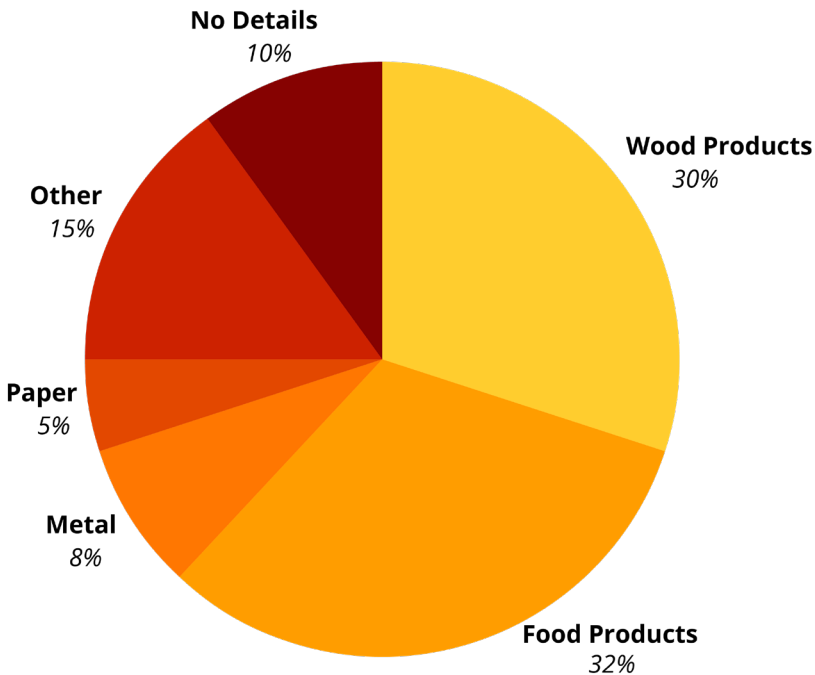
“A source confirmed that the girls were shooting a music video in the city of Namyangju when combustible dust got too close to the lightning, causing a small explosion.”

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Materials & Industries

Combustible Materials



“The findings indicate that an explosive atmosphere was created by a combination of off-gasses normally produced in the pulping process and air introduced to maintain pressure while the vessel was not in operation.”

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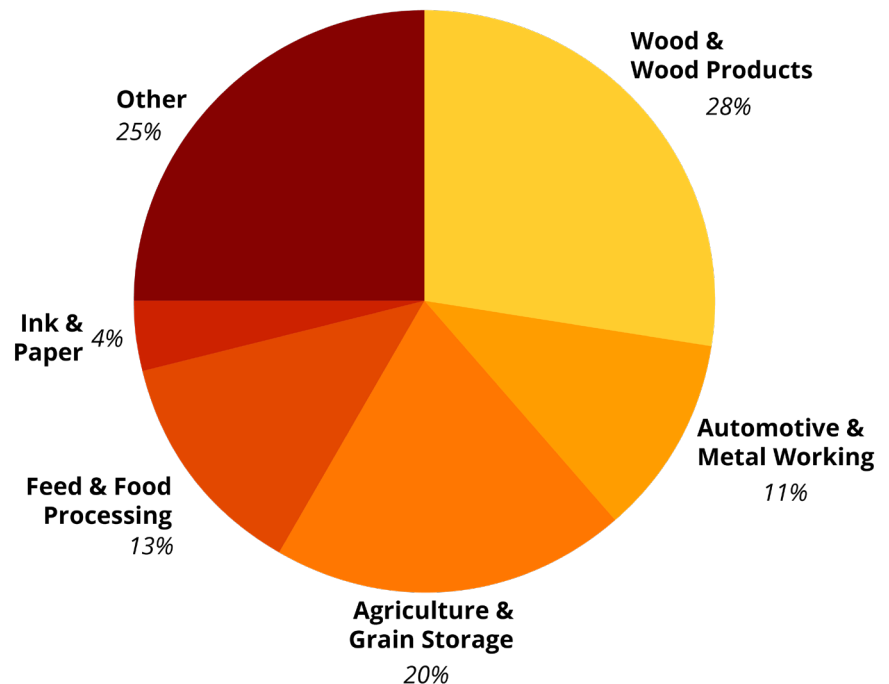
“The homeowner said she had used baby powder to smother ants on the second story. The powder came in contact with a space heater and ignited.”

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“Metal dust on the ceiling of the building caused the fire to spread, damaging some of the roof.”

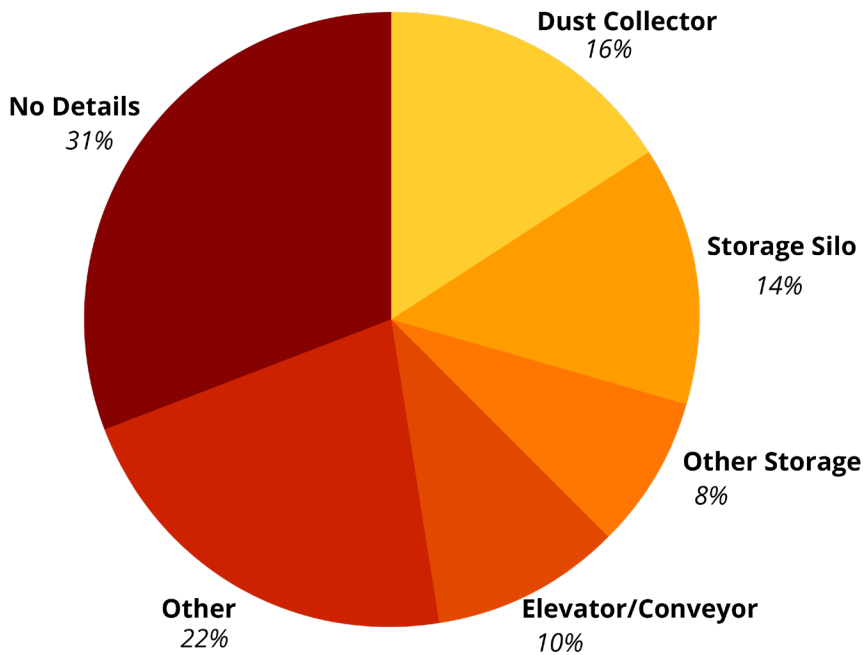
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Processing Industries



Equipment & Causes

Equipment



“What it really came down to was mechanical failure on one of the components on the grain handling equipment”

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“A saw blade became dislodged from its spindle, causing sparks and pieces of hot metal to enter a dust collection system. Sawdust was then ignited in the equipment’s collection containers. Employees noticed the smoke and opened the container, causing a small dust explosion that injured the workers. The resulting fire completely destroyed the building,”

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“That process of moving a large amount of material through pipes creates static electricity, so that’s a problem they’re battling on a regular basis. I’m not saying that’s what occurred here, but that’s what we’re continuing to concentrate our investigation on”

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“Firefighting efforts were complicated by the large amount of sawdust inside the ductwork and equipment, which, according to one witness, is as flammable as gunpowder.”

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“The equipment is used to contain dust from the production of rubber products from the business, which is suctioned from the building into the machines. As the dust material is very fine, it tends to be highly combustible”

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CDI Data (North America)

AUTOMOTIVE & METAL WORKING (US)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	
Jan 24	NPR of America, Inc.	Grand Haven, MI	Exp.	Metal	0	0	Dust Collector	No Details	1 2
Jan 29	Advantage Manufacturing	Co Springs, CO	Fire	Mag/Alumin.	0	0	No Details	No Details	1 2
Feb 24	Catalina Cylinders	Orng. County, CA	Exp.	Metal	0	0	No Details	No Details	1
Apr 05	Witzenmann	Troy, MI	Fire	Metal	0	0	Dust Collector	Filter Fire	1
Apr 22	Vehicle Service Group	Madison, IN	Fire	No Details	0	0	Dust Collector	No Details	1 2
Apr 25	Kawasaki Tennessee	Morristown, TN	Fire	Aluminum	0	0	Dust Collector	No Details	1
Jun 02	American MSC Inc.	Troy, MI	Fire	Metal	0	0	Dust Collector	No Details	1
July 15	IWM International	Hanover, PA	Fire	Metal	0	0	Roof Rafters	No Details	1
July 21	American MSC Inc.	Troy, MI	Fire	Metal	0	0	Dust Collector	No Details	1
July 24	Reiloy Westland Corp.	Maize, KS	Fire	Metal Dust	0	0	Dust Collector	No Details	1
July 25	Global Titanium	Detroit, MI	Exp.	Mag/Alumin.	0	0	Machine/Storage	No Details	1
Sep 26	Arcelor Mittal	Burns Harbor, IN	Fire	Metal	0	0	Control Room	No Details	1
Nov 09	Tenneco Plant	Smithville, TN	Fire	Chromium	0	0	Vent. System	Welding	1
Nov 16	Stephens Metal Products	Yakima, WA	Fire	Metal	0	0	Dust Collector	No Details	1 2
Nov 21	American Sunroof Co.	Bowling Grn., KY	Fire	No Details	0	0	No Details	Saw Sparks	1
Dec 05	Nemak USA Facility	Dickson, TN	Fire	Aluminum	0	0	No Details	No Details	1

AUTOMOTIVE & METAL WORKING SUMMARY | INCIDENTS: 16 | EXPLOSIONS: 3 | FIRES: 13 | INJURIES: 0 | FATALITIES: 0 |

AGRICULTURE & GRAIN STORAGE (US)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Jan 31	Paterson Grain	Prelate, SA	Fire	Grain	0	0	Grain Elevator	No Details	1 2
Feb 08	Soutwest Grain Coop.	Taylor, ND	Fire	Grain	0	0	Grain Elevator	Mechanical Failure	1
Feb 15	Dakota Mill & Grain	Belle Fourche, SD	Fire	Grain	0	0	Grain Elevator	Overheated Belt	1
Mar 16	Ritzville Warehouse Co.	Edwall, WA	Fire	Grain	0	0	Grain Bin	Power Line	1
Apr 17	Hereford Grain Corp.	Hereford, TX	Fire	Grain	0	0	Grain Elevator	No Details	1 2
May 09	Temco LLC.	Kalama, WA	Fire	Grain	0	0	Grain Elevator	No Details	1
May 12	Bunge N. American, Inc.	Homer, IL	Fire	Grain	0	0	Grain Bin	Fan Motor	1
May 31	Frontier Cooperative	Mead, NE	Exp.	Grain	0	0	Rail Loadout	Hot Bearing	1
June 01	Dunkerton Co-op	Dunkerton, IA	Exp.	Grain	0	0	Grain Bin	No Details	1
June 22	Thresher Artisan Wheat	Pocatello, ID	Fire	Wheat	0	0	Grain Elevator	Overheated Belt	1
June 30	Kalama Export	Kalma, WA	Fire	Grain	0	0	Grain Elevator	Overheated Roller	1
July 09	French Camp Grain Co.	French Camp, CA	Fire	Grain	0	0	No Details	No Details	1
July 14	ADM Milling	Beech Grove, IN	Fire	Grain	0	0	Silo	Conveyor Blt. Align.	1
July 16	Guadalupe Grain Inc.	Seguin, TX	Fire	Grain	0	0	No Details	Welding	1
July 21	No Details	Osceola Cty, FL	Fire	Grain	0	0	Silo	No Details	1
July 28	Hunter Grain Elevator	Hunter, OK	Fire	Grain	0	0	Grain Elevator	No Details	1
July 31	Farm	Switz City, IN	Exp.	Grain	0	0	Grain Bin	Failed Structure	1
Aug 15	Ag Valley Co-Op	Edison, NE	Exp.	Fertilizer	0	0	Elevator	No Details	1

CDI Data (North America)

AGRICULTURE & GRAIN STORAGE (US) - CONTD.

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Aug 28	No Details	Norway, WI	Fire	Rye Grain	0	0	Silo	No Details	1
Sep 08	Nicholson & Edward Grain	Primghar, IA	Fire	Corn/Soybns.	0	0	Elevator	No Details	1
Sep 12	Grain Elevator	Roxbury, KS	Fire	No Details	0	0	Elevator	No Details	1
Sep 21	Farm in Dahlenburg	Reynolds, IN	Fire	Soybean Dust	0	0	Combine	No Details	1
Oct 03	Gonya Farms Inc.	Ballville, OH	Fire	Soybean Dus	0	0	Combine	No Details	1
Oct 20	Woolwich Timber Barn	Woolwich, ON	Fire	Grain	0	0	Silo	Out-of-Control Burn	1
Oct 24	Farm	Victor, MT	Fire	Corn	0	0	Grain Wagon	No Details	1
Oct 31	Smiley Farm Inc.	Greensburg, IN	Fire	Grain	0	0	Feed Mill	No Details	1
Oct 31	No Details	Columbiana, OH	Fire	Corn	0	0	Grain Bin	No Details	1
Nov 01	Hayward Silo	Winter, WI	Fire	Dried Silage	0	0	Silo	Torch Cutting	1
Nov 03	No Details	Watertown, SD	Fire	Corn	0	0	Grain Dryer	No Details	1
Nov 05	Scoular Grain Elevator	Wellington, KS	Fire	Grain	0	0	Elevator	No Details	1
Nov 09	Lindy Livestock & Feeding	Henry, NE	Fire	Grain	0	0	Feed Truck	No Details	1
Nov 11	No Details	Seneca Cty, OH	Fire	Corn	0	0	Grain Bin	No Details	1
Nov 11	Farm	Albany, MN	Fire	Grain	0	0	Grain Bin	Broken Aerator	1 2
Nov 16	Farm	Haskins, OH	Fire	Corn	0	0	Grain Dryer	No Details	1
Nov 17	Farm	Elkton, MN	Fire	Grain	0	0	Grain Dryer	No Details	1
Nov 23	Farm	Stratford, WI	Fire	Grain	0	0	Silo	Unknown	1
Dec 15	Farm	Aurelius, NY	Fire	No Details	0	0	Silo	No Details	1
Dec 16	Farm	Muskingum, OH	Fire	Corn	0	0	Grain Bin	No Details	1

AGRICULTURE & GRAIN STORAGE SUMMARY | INCIDENTS: 38 | EXPLOSIONS: 4 | FIRES: 34 | INJURIES: 0 | FATALITIES: 0 |

FEED & FOOD PROCESSING (US)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
May 09	MFA Agri. Services	Clark, MO	Fire	Grain	0	0	No Details	No Details	1
May 31	Didion Milling	Cambria, WI	Exp.	Grain	11	5	No Details	No Details	1 2 3
June 29	T.I.C. Gums	Belcamp, MD	Exp.	Food	0	0	Hopper	Mechanical Failure	1
July 27	3D Idapro Solutions	Stanfield, OR	Exp.	Pet Food	1	0	Dust Collector	No Details	1 2 3
Aug 24	Pinnacle Foods Inc.	Fennville, MI	Fire	Food Dust	0	0	No Details	No Details	1 2
Sep 14	Sanderson Farms	Franklin, TX	Fire	Corn	0	0	Silo	No Details	1
Oct 10	River Valley	Walcott, IA	Fire	Grain	0	0	Grain Bin	Dryer Fire	1 2
Oct 16	Wonderful Pistachios/Alm.	Lost Hills, CA	Fire	Pistachios	0	0	Silo	No Details	1
Oct 18	Land O'Lakes Purina Feed	Sheldon, IA	Fire	No Details	0	0	Air Filter	No Details	1
Oct 26	Cargill Corn Milling Plant	Dwight, ND	Fire	Corn	0	0	Grain Dryer	No Details	1 2
Oct 30	Nestle Purina Plant	Clinton, IA	Fire	Pet Food	0	0	No Details	Electrical Short	1
Nov 07	Scoular Company	Wellington, KS	Fire	Grain	0	0	Grain Elevator	No Details	1 2
Nov 10	Con Mar Farms LLC	Greene Cty, OH	Fire	Grain	0	0	Grain Bin	Failed Motor	1

CDI Data (North America)

FEED & FOOD PROCESSING (US) - CONTD.

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Dec 28	Purina Feed Mill	Sheldon, IA	Fire	Feed	0	0	Bag House	Overheated Bearing	1
Dec 29	LB Pork	Northrop, MN	Exp.	Feed	3	0	Grain Elevator	No Details	1 2

FEED & FOOD PROCESSING SUMMARY | INCIDENTS: 15 | EXPLOSIONS: 4 | FIRES: 11 | INJURIES: 15 | FATALITIES: 5 |

PULP & PAPER (US)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Jan 22	International Paper	Cantonment, FL	Exp.	Paper	0	0	Digester	No Details	1 2
Jan 27	Soundview Paper	Putney, VT	Exp.	Paper	0	0	Paper Mill	No Details	1 2
July 11	KapStone Paper	Longview, WA	Fire	Paper	0	0	Paper Mill	No Details	1
July 18	KapStone Paper	Longview, WA	Fire	Paper	0	0	Paper Mill	No Details	1
Aug 29	Applegate Insulation	Graves Cnty, KY	Exp.	Paper	0	0	Dust Collector	No Details	1
Sep 09	Kimberly-Clark Mill	Mobile, AL	Fire	Paper	0	0	No Details	No Details	1
Sep 14	U.S. Paper Mills Corp.	Menasha, WI	Fire	Paper	0	0	Paper Machine	No Details	1
Nov 15	Linc. Paper & Tissue LLC.	Lincoln, ME	Fire	Paper	0	0	No Details	No Details	1
Nov 20	Twin Rivers Paper Co.	Madawaska, ME	Fire	Paper	0	0	No Details	No Details	1

PULP & PAPER SUMMARY | INCIDENTS: 9 | EXPLOSIONS: 3 | FIRES: 6 | INJURIES: 0 | FATALITIES: 0 |

WOOD & WOOD PRODUCTS (US)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Mar 20	Wagner Pencil Co.	Sale Creek, TN	Fire	Sawdust	0	0	Dust Collector	Machinery Fire	1
Apr 14	Morgan Brothers Millwork	Laurel, MS	Fire	Sawdust	0	0	No Details	No Details	1
Apr 15	Rustic Log Furniture	Alamosa, CO	Fire	Sawdust	0	0	Dust Collector	Hot Metal	1
May 16	Mohawk Industries	Montgomery, NC	Exp.	Wood	1	1	Silo	No Details	1 2
May 24	Douglas Co. Forrest Prod.	Douglas, OR	Exp.	Wood	2	0	Storage Bin	Backdraft	1
Jun 10	Werzalit of America Inc.	Bradford, PA	Fire	Wood	0	0	Dust collector	No Details	1
July 17	Sonbyrd Industries	Emmett, ID	Exp.	Sawdust	2	0	Bag House	Mech. Malfunction	1 2
Aug 6	Norwine Sawmill	Bradleyville, MO	Fire	Sawdust	0	0	Dust Collector	No Details	1
Aug 7	Premier Lumber	Newman Lk, WA	Fire	Sawdust	0	0	No Details	No Details	1
Aug 8	No Details	Emmet, MI	Fire	Wood Dust	2	0	No Details	No Details	1
Aug 9	Merrit Bros. Lumber Co.	Athol, ID	Fire	Wood Dust	0	0	Planer Mill	No Details	1
Aug 16	Highland Pellets	Pine Bluff, AR	Fire	Wood Pellets	0	0	Bag House	Self-Combustion	1
Aug 19	No Details	S. Annville, PA	Fire	Lumber	1	0	Lumber Kiln	No Details	1
Aug 24	Modern Design	Providence, RI	Fire	Sawdust	1	0	Dust Collector	Hot Spark	1
Aug 31	Goodwin Mill & Cabinet	St. George, UT	Fire	Sawdust	0	0	Dust Collector	No Details	1
Sep 5	No Details	Weippe, ID	Fire	Wood Dust	0	0	No Details	No Details	1 2
Sep 15	Hampton Mill	Tillamook, OR	Fire	Hog Fuel	0	0	Silo/Conveyor	No Details	1

CDI Data (North America)

WOOD & WOOD PRODUCTS (US) - CONTD.

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Sep 21	Roseburg Forest Products	Dillard, OR	Fire	Part. Board	0	0	Press Machine	No Details	1
Sep 21	Hoover High School	San Diego, CA	Fire	Sawdust	0	0	Ventilation Duct	Saw Spark	1
Sep 23	Maibec Lumber Sawmill	Masardis, ME	Fire	Sawdust	0	0	No Details	No Details	1
Oct 11	Timber Products Mill	Medford, OR	Fire	Sawdust	0	0	Conveyor Belt	No Details	1
Oct 12	Roseburg Forest Products	Riddle, OR	Fire	Wood Chips	0	0	Chip Bins	No Details	1
Oct 22	Creswell Forest Products	Creswell, OR	Fire	Wood	0	0	No Details	No Details	1 2
Oct 27	Blue Mountain Lumber	Pendleton, OR	Fire	Wood Pellets	0	0	No Details	No Details	1
Oct 27	U. of Nebraska Lincoln	Lincoln, NE	Fire	Sawdust	0	0	Ventilation Duct	Bandsaw Embers	1
Oct 28	Georgia Pacific Plywood	Crossett, AR	Fire	Wood Debris	0	0	Mill	Hot Work	1 2
Oct 30	Godfrey Lumber Co.	Statesville, NC	Fire	Sawdust	0	0	Sawdust Bin	Mech. Malfunction	1
Nov 6	SK Fingerjoint Inc.	Libby, MT	Fire	Wood	1	0	No Details	No Details	1
Nov 18	Goldston Lumber Co.	Goldston, NC	Fire	Wood	0	0	No Details	No Details	1
Nov 28	Inferfor Corporation	Georgetown, SC	Fire	Wood	0	0	Hydraulic Equip.	No Details	1
Dec 5	Godfrey Lumber Co.	Statesville, NC	Fire	Wood Pellets	0	0	No Details	No Details	1
Dec 15	West Virginia Split Rail	Buckhannon, WV	Fire	Wood	0	0	No Details	No Details	1
Dec 18	Reedsburg Area High Sch.	Reedsburg, WI	Fire	Wood	0	0	Dust Collector	No Details	1
Dec 20	Dixie Furniture	Lexington, NC	Fire	Wood	0	0	Silo	No Details	1
Dec 23	Irving Forest Products	Dixfield, ME	Fire	Sawdust	0	0	Silo	Electrical Spark	1
Dec 29	Penegor Lumber Mill	Twin Lakes, MI	Fire	Wood	0	0	Mill	No Details	1
Dec 30	Marth Woods Shaving Sply	Marathon, WI	Fire	Sawdust	0	0	Silo	Electrical Spark	1

WOOD & WOOD PRODUCTS SUMMARY | Incidents: 37 | Explosions: 3 | Fires: 34 | Injuries: 10 | Fatalities: 1 |

OTHER EXPLOSION INCIDENTS (US)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Jan 10	Perfetti Van Melle	Erlanger, KY	Exp.	Sugar	0	0	No Details	No Details	1
Jan 10	Dayton Power and Light	Aberdeen, OH	Exp.	Coal	6	0	No Details	No Details	1 2
Feb 16	CyOptics Inc.	U. Macungie, PA	Exp.	Trimethyl.	3	0	No Details	Mixing w/ Water/Air	1 2 3
Apr 21	Green Bay Power Plant	Green Bay, WI	Exp.	Coal	0	0	No Details	No Details	1
June 30	Celebration Fireworks	Slatington, PA	Exp.	Pyrotechnic	1	0	No Details	Igniter Malfunction	1 2
Aug 30	Northeast Pellets	Ashland, ME	Exp.	Sawdust	0	0	Silo	No Details	1
Oct 04	Eastman Chemical Co.	Kingsport, TN	Exp.	Coal	0	0	Coal Gasifier	No Details	1 2
Oct 11	Northeast Agri. Sales Inc.	Detroit, ME	Exp.	Sulfur	3	0	Silo	Mech. Wire Dmg.	1 2
Oct 16	Wright Asphalt Products	Brownwood, TX	Exp.	Rubber	0	0	Silo	No Details	1
Nov 02	Spectro Coating Corp.	Leominster, MA	Exp.	Flock	1	0	Drying Oven	No Details	1
Dec 08	UTC Aerospace Systems	Vergennes, VT	Exp	No Details	5	0	Dust Collector	No Details	1

OTHER EXPLOSION INCIDENTS SUMMARY | INCIDENTS: 11 | EXPLOSIONS: 11 | FIRES: 0 | INJURIES: 19 | FATALITIES: 0 |

CDI Data (North America)

OTHER FIRE INCIDENTS (US)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	
Feb 15	Chicago Manifold Prod.	Chicago, IL	Fire	Rubber	0	0	Dust Collector	No Details	1
Mar 30	Residential	Bremerton, WA	Fire	Baby Powder	0	0	No Details	Space Heater	1
Apr 10	Lehigh Cement	Union Bridge, MD	Fire	No Details	0	0	No Details	Hot Work	1
Apr 14	Residential	N. Wyoming, PA	Fire	Sawdust	0	0	No Details	Sanding Machine	1
Apr 17	Logistec Gulf Coast	Sarasota, FL	Fire	Sulfur	0	0	Storage Pile	Dump Truck	1
Apr 27	Logistec Gulf Coast	Sarasota, FL	Fire	Sulfur	5	0	Storage Pile	Sweeping Machine	1 2
May 10	Weidmann El. Tech.	St. Johnsbury, VT	Fire	No Details	0	0	Dust Collector	No Details	1
May 27	Valley Protein	Saluda City, SC	Fire	Waste	0	0	No Details	No Details	1
June 04	Bradford White Corp.	Middleville, MI	Fire	No Details	0	0	Dust Collector	No Details	1
June 28	Folkston Mulch	Folkston, GA	Fire	Wood	0	0	Chip Grinder	Chip Grinder Fire	1
Aug 13	Aggregate Recy. Corp	Eliot, ME	Fire	No Details	0	0	No Details	No Details	1
Oct 19	Mule-Hide Manufacturing	Cornell, WI	Fire	Paper	0	0	Dryers	Overheated Bearing	1
Oct 21	Ames Tool Plant	Parkersburg, WV	Fire	Acrylic Resin	0	0	No Details	No Details	1
Nov 07	Recycle Now, Inc.	Holland, MI	Fire	No Details	0	0	Dust Collector	No Details	1
Nov 17	Avon Waste Management	Avon, MA	Fire	No Details	0	0	No Details	No Details	1
Nov 30	Paint Paddles, INC.	Murray, KY	Fire	No Details	0	0	Dust Collector	No Details	1
Nov 30	Economy Coatings	Camanche, IA	Fire	Grain	0	0	Train Car Hopper	No Details	1
Dec 08	United Initiators	Helena, AR	Fire	Benzoyl Perx.	3	0	No Details	No Details	1
Dec 08	Carmeuse Lime & Stone	Gary, IN	Fire	Coal	0	0	Silo	No Details	1

OTHER FIRE INCIDENTS SUMMARY | INCIDENTS: 19 | EXPLOSIONS: 0 | FIRES: 19 | INJURIES: 8 | FATALITIES: 0

ALL INCIDENTS (CANADA)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Mar 31	Rio Tinto	Sorel-Tracey, QC	Exp.	Iron/Titan.	5	0	No Details	No Details	1 2
Aug 11	Precision Custom	Abbotsford, BC	Fire	Wood Dust	0	0	No Details	No Details	1
Aug 18	Noble Custom Cut	Maple Ridge, BC	Fire	Wood Dust	0	0	No Details	Grinding	1
Aug 25	Pacific Bioenergy	Prince George, BC	Fire	Wood Pellets	0	0	Silo	No Details	1
Aug 28	Knights' of Meaford	Meaford, ON	Fire	Chips/Sawd.	0	0	Boiler/Dust Coll.	No Details	1
Aug 28	Kohlman Farm	Tramping Lk, SK	Fire	Yellow Peas	0	0	Elevator	No Details	1
Sep 12	Cumberland Cntrl Landfill	Little Forks, NS	Fire	Plstic & Paper	0	0	No Details	No Details	1
Sep 13	Porter Lumber	Port Denver, ON	Fire	Lumber/Wood	0	0	No Details	Electrical Panel	1
Sep 17	Island Cedar Products Ltd.	Mission, BC	Fire	Cedar	0	0	Shake Mill	No Details	1 2
Oct 03	Valley Wood Mill	Lumby, BC	Fire	Cedar Wood	0	0	No Details	No Details	1
Oct 05	Resolute Forest Products	Thunder Bay, ON	Fire	Wood Chips	0	0	Silo	Overheated Bearing	1
Oct 14	Cameco Mill	Key Lake, SA	Exp.	Sulfer/Propne	0	0	Sulphur Furnace	No Details	1
Nov 03	Viterra Elevator	Melfort, SA	Fire	Grain	0	0	Elevator	Clogged Piping	1
Nov 03	Tolko's Lakeville Sawmill	Williams Lake, BC	Fire	Sawdust	0	0	No Details	No Details	1

CDI Data (North America)

ALL INCIDENTS (CANADA)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Nov 16	Seaforth Farm	Seaforth, ON	Fire	Corn	0	0	Silo	Auger Malfunction	1
Nov 25	Central Butte Feeds	Lawson, SA	Exp.	Grain	1	0	Grain Elevator	No Details	1
Nov 26	Resolute Forest PProducts	Thunder Bay, ON	Fire	Wood	0	0	Conveyor	No Details	1
Dec 13	Fiready Inc.	Edmundston, NB	Exp.	Wood	3	0	Biomass Boiler	Backdraft	1
Dec 13	Louisiana Pacific	Peace Valley, BC	Fire	Wood	0	0	Mill Press	No Details	1

OTHER INCIDENTS SUMMARY | INCIDENTS: 19 | EXPLOSIONS: 4 | FIRES: 15 | INJURIES: 9 | FATALITIES: 0

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CDI Data (International)

WOOD & WOOD PRODUCTS

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Jan 27	Carter Holt Harvey	Mt. Gambier, Australia	Exp.	Sawdust	0	0	Silo	Mech. Failure	1
Feb 01	Kronospan	Burgundy, France	Fire	Wood Chips	0	0	Silo	No Details	1
July 07	No Details	Erding, Germany	Exp.	Wood	0	0	Dust Collector	No Details	1
Aug 04	Juken Mill	Gisborne, NZ	Fire	Wood Chips	0	0	Dust Collector	No Details	1
Aug 09	Juken Mill	Gisborne, NZ	Fire	Wood Chips	0	0	Plywood Mach.	No Details	1
Sep 08	Kronospan	Wrexham, Wales	Fire	Wood Chips	0	0	Silo	No Details	1
Sep 16	No Details	Einsteinstrasse, Germ.	Exp.	Wood Chips	1	0	Silo	Mech. Failure	1
Sep 17	Pukepine Sawmill	Te Puke, NZ	Fire	Sawdust	0	0	Boiler Room	No Details	1
Oct 09	Incense Factory	Chandigarh, India	Exp	Sandalwood	28	0	No Details	Electrical Work	1 2
Oct 29	Timber Trading Mills	Nagpur, India	Fire	Sawdust	0	0	No Details	No Details	1
Nov 11	IGB Industrial Estate	Ipoh, Malaysia	Exp.	Plywood	2	0	Silo	No Details	1
Nov 18	Mill	Cononley, England	Fire	Wood Dust	0	0	Roof	No Details	1
Nov 20	Sawmill	Aschaffensburg, Germ.	Exp.	Sawdust	0	0	No Details	No Details	1
Nov 26	No Details	Miesbach, Germany	Exp.	Sawdust	0	0	No Details	No Details	1
Nov 28	Sawmill	Kolar Gold Fields, India	Fire	Sawdust	0	0	No Details	Short Circuit	1
Dec 20	Prime Pine	Motueka, NZ	Fire	Sawdust	0	0	No Details	No Details	1
Dec 21	No Details	Rheinau, Germany	Exp.	Sawdust	0	0	Extraction Sys.	No Details	1 2

WOOD & WOOD PRODUCTS SUMMARY | INCIDENTS: 17 | EXPLOSIONS: 8 | FIRES: 9 | INJURIES: 31 | FATALITIES: 0 |

AUTOMOTIVE & METAL WORKING

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Mar 28	Formosa Steel	Ha Tinh, Vietnam	Exp.	Lime	0	0	Dust Collector	Broken Filter	1
Aug 15	No Details	Stockholm, Sweden	Exp.	Aluminum	7	0	Dust Vacuum	No Details	1
Aug 16	Gerdau SA	Minas Gerals, Brazil	Exp.	Coal	10	2	Coke Oven	No Details	1
Oct 05	Feltex Automotive Trim	E. London, S. Africa	Exp.	Acid	12	0	Acid Tanks	Welding	1
Oct 23	Sawmill	Blackburn, England	Fire	No Details	0	0	Mill	No Details	1
Nov 04	Rolls-Royce	Barnoldswick, Eng.	Fire	No Details	0	0	No Details	No Details	1
Nov 21	Alu-Fin	Dombivli, India	Exp.	Aluminum	1	0	Compressor	No Details	1
Nov 21	Arcelor Mittal Gent	Ghent, Belgium	Exp.	Metal	2	1	No Details	No Details	1 2
Dec 14	No Details	Anröchte, Germany	Exp.	Zinc	2	0	No Details	No Details	1
Dec 25	Grange Resources	Burnie, Australia	Fire	Metal	0	0	Conveyer Belt	No Details	1

AUTOMOTOIVE & METAL WORKING SUMMARY | INCIDENTS: 10 | EXPLOSIONS: 7 | FIRES: 3 | INJURIES: 34 | FATALITIES: 3 |

AGRICULTURE & FOOD PROCESSING

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Mar 14	Convaco	Poederoijen, Netherl.	Fire	Feed	0	0	Dryer	No Details	1

CDI Data (International)

AGRICULTURE & FOOD PROCESSING

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	
May 26	Dalby Bio-Refinery	Queensland, Australia	Fire	Grain	0	0	Hopper	Mechanical Fail.	1 2
May 31	Van Zutven Feed Proces.	Veghel, Netherlands	Exp.	Milk Powder	0	0	No Details	No Details	1
Jun 15	Covaco	Poederrijen, Netherl.	Fire	Feed	0	0	Dryer	No Details	1
Aug 11	Nisbetfield Farm	Cupar, Scotland	Fire	Grain	0	0	Grain Dryer	No Details	1
Aug 30	GrainCorp	N. Geelong, Australia	Fire	Grain	0	0	Silo	Hot Machinery	1
Sep 01	Kingsmill Industrial Esta.	Cullompton, England	Fire	Grain	0	0	Grain Dryer	No Details	1
Oct 09	GrainCorp's Carrington	Carrington, Australia	Fire	Grain	0	0	Silo	No Details	1
Oct 10	AKV Langholt	Langholt, Denmark	Fire	Potato	0	0	Silo	No Details	1
Oct 15	Stanley Street Mill	Burnley, England	Fire	No Details	0	0	Wheelie Bin	No Details	1
Nov 02	Cargill	Trafford, England	Exp.	Sweetener	0	0	Grain Dryer	No Details	1
Nov 04	Farm	Eccleshall, England	Fire	Wood Chips	0	0	Dust Collector	Hot Metal	1 2
Nov 07	Farm	Cheshire, England	Fire	Grape Seed	0	0	Silo	Electrical Fault	1
Nov 14	Cargill	Trafford, England	Exp.	Sweetener	0	0	Grain Dryer	No Details	1
Nov 21	Flour Mill	Karachi, Pakistan	Exp.	Flour	0	0	Boiler	Bioler Fire	1 2
Nov 24	Farm	W. Melbourne, Austral.	Fire	Grain	0	0	Silo	No Details	1
Dec 04	Seales Winslow	Ashburton, NZ	Fire	Feed	3	0	No Details	No Details	1 2
Dec 12	Wixland Mill	Atherington, England	Fire	Feed	0	0	No Details	No Details	1
Dec 13	GrainCorp	Murtoa, Australia	Exp.	Grain	0	0	Silo	No Details	1
Dec 17	Covaco	Poederrijen, Netherl.	Fire	Feed	0	0	Dryer	No Details	1
Dec 28	China National Cereals	Rosario, Argentina	Exp.	Grain	8	2	Grain Terminal	No Details	1 2

AGRICULTURE & FOOD PROCESSING SUMMARY | INCIDENTS: 21 | EXPLOSIONS: 6 | FIRES: 15 | INJURIES: 11 | FATALITIES: 2 |

OTHER FIRE & EXPLOSION INCIDENTS

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Jan 06	SMK Recycling	Melbourn, Australia	Exp.	Plastic/Paper	0	0	No Details	No Details	1
Feb 27	SMK Recycling	Melbourn, Australia	Fire	Plastic/Paper	1	0	No Details	No Details	1
Mar 07	Doosan Construction	Binh Thuận, Vietnam	Exp.	Coal	2	0	No Details	Hot Work	1 2
Mar 08	AKW Global Logistics	Staffordshire, England	Exp.	Drink Powder	1	0	No Details	Mechanical Failure	1
Mar 12	Oh My Girl Movie Set	Namyangju, S. Korea	Exp.	No Details	0	0	No Details	Lighting Equipment	1 2
July 14	SMK Recycling	Campbellfield, Aus.	Fire	Plastic/Paper	4	0	No Details	No Details	1
July 24	Individual	Denmark	Fire	Cinnamon	1	0	No Details	No Details	1
July 28	Cardiff Prison	Cardiff, Wales	Exp.	Creamer	0	0	No Details	No Details	1
Aug 09	Innovative Environ. Sol.	W. Midlands, England	Exp.	No Details	2	1	No Details	No Details	1
Aug 22	Industrial Area 10	Sharjah, UAE	Exp.	Rubber/Scrap	1	0	No Details	No Details	1
Sep 23	Ryazan Power Station	Ryazan, Russia	Exp.	Coal	2	0	Milling Machine	No Details	1
Sep 28	Lancashire Mill	Blackburn, England	Fire	Plastic/Waste	0	0	No Details	No Details	1 2

CDI Data (International)

OTHER FIRE & EXPLOSION INCIDENTS

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Oct 02	Residential	Wodonga, Australia	Exp.	No Details	0	0	Attic	Faulty Circuit	1
Oct 12	Thai Supply Co.	Pathum Thuani, Thai.	Exp.	Resin	0	0	Paint Room	No Details	1
Oct 12	Sleepy Hole Golf	Suffolk, England	Fire	No Details	0	0	Silo	Lightning Strike	1 2
Oct 13	Aprochim	Grez-en-Bouère, Fran.	Exp.	PCB WAsTe	0	0	No Details	No Details	1
Oct 31	BASF Aroma Products	Ludwifshafen, Germ.	Fire	No Details	0	0	No Details	No Details	1
Nov 13	No Details	Tuttlingen, Germany	Exp.	No Details	0	0	Air Filtr. System	No Details	1
Nov 20	Sofidel Tissue Factory	Hamilton, England	Fire	Paper	0	0	No Details	No Details	1
Nov 25	No Details	Lublin, Poland	Exp.	No Details	1	0	Dust Collector	No Details	1
Dec 01	Arakawa Chem.	Fuji, Japan	Exp.	Resin	11	1	No Details	No Details	1
Dec 06	Braskem	Triunfo, Brazil	Exp.	Polyethylene	0	0	No Details	No Details	1
Dec 14	Deepka Mine	Korba, India	Fire	Coal	0	0	Silo Conveyer	Roller Friction	1
Dec 17	Kendal Power Station	Mpumalanga, S. Africa	Fire	Coal	0	0	Conveyer Belt	No Details	1
Dec 20	Drax Power Station	N. Yorkshire, England	Fire	Wood Pellets	0	0	Conveyer Belt	No Details	1

OTHER FIRE & EXPLOSION INCIDENTS SUMMARY | INCIDENTS: 25 | EXPLOSIONS: 15 | FIRES: 10 | INJURIES: 26 | FATALITIES: 2 |

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MULCH & BULK STORAGE

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
July 03	Green Stream Mulch	Mottville Town., MI	Fire	Mulch	0	0	No Details	No Details	1
July 13	Stockton Wood Shav.	French Camp, CA	Fire	Wood Shav.	0	0	No Details	No Details	1
July 20	Pioneer Sand Company	Phoenix, AZ	Fire	Mulch	0	0	No Details	No Details	1
Aug 16	North Port Estates	North Port, FL	Fire	Mulch	0	0	No Details	No Details	1
Sep 05	NoDetails	Fayetteville, NC	Fire	Mulch	0	0	No Details	No Details	1
Sep 05	Oldcastle Lawn & Gard.	Sauget, IL	Fire	Mulch	0	0	No Details	No Details	1
Sep 13	Wood Waste Recycling	N. Fayette, PA	Fire	Wood Chips	0	0	No Details	No Details	1
Sep 18	No Details	Gold Coast, Australia	Fire	Mulch	0	0	No Details	No Details	1
Sep 20	Fort Worth S.E. Landfill	Fort Worth, TX	Fire	Mulch	0	0	No Details	No Details	1
Sep 26	No Details	Wixom, MI	Fire	Mulch	0	0	No Details	No Details	1
Oct 04	Chestnut Ridge Mulch Co.	Burrell Township, PA	Fire	Mulch	0	0	No Details	No Details	1
Oct 06	Beaver Bark LLC	Scappoose, OR	Fire	Bark	0	0	No Details	No Details	1
Oct 17	Farm	Southall, England	Fire	Plastics	0	0	No Details	No Details	1 2
Oct 24	No Details	Port Townsend, WA	Fire	Wood Chips	0	0	No Details	No Details	1
Oct 27	Green for Life/Bio-Can	Strathmore, Alberta	Fire	Compost Mat.	0	0	Conveyor	No Details	1
Nov 05	Nature's Choice Mulch	Burnside, MI	Fire	Mulch	0	0	No Details	No Details	1
Nov 08	And-Son Contracting	Sault Ste. Marie, Ont.	Fire	Hog Fuel	0	0	No Details	No Details	1
Nov 09	Landscaping	Pinal County, AZ	Fire	Mulch	0	0	No Details	No Details	1
Nov 09	Garden Center	Washington Co., PA	Fire	Mulch	0	0	No Details	No Details	1
Nov 15	And-Son Contracting	Sault Ste. Marie, Ont.	Fire	Hog Fuel	0	0	No Details	No Details	1
Nov 17	S.C. Kansas Recycling	Newton, KS	Fire	Plastic	0	0	No Details	No Details	1
Nov 21	No Details	East Waterford, PA	Fire	Mulch	0	0	No Details	No Details	1
Nov 29	No Details	Virginia Beach, VA	Fire	Mulch	0	0	Mulcher	No Details	1
Nov 29	Rios Recycling	Jurupa Valley, CA	Fire	Wood Comp.	0	0	No Details	No Details	1
Dec 01	Ridgeway Farm	Enfield, England	Fire	Mulch	0	0	No Details	No Details	1
Dec 02	Gro-Well Facility	Phoenix, AZ	Fire	Mulch	0	0	No Details	No Details	1
Dec 06	Liver Industrial Estate	Liverpool, England	Fire	Paper	0	0	No Details	No Details	1
Dec 08	No Details	Arkadelphia, AR	Fire	Wood Scrap	0	0	No Details	No Details	1

MULCH & BULK STORAGE SUMMARY | INCIDENTS: 28 | EXPLOSIONS: 0 | FIRES: 28 | INJURIES: 0 | FATALITIES: 0

FIREWORKS & PYROTECHNICS (SINCE JUNE)

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
June 08	No Details	Madhya Pradesh, India	Exp.	Fireworks	7	23	No Details	No Details	1
July 03	No Details	Senai, Malaysia	Exp.	Fireworks	0	0	No Details	Incorrect Storage	1
Sep 04	Truck	Benteay Meanchey, Camb.	Exp.	Fireworks	3	3	Truck	Incorrect Loading	1
Sep 06	No Details	Fiozabad, India	Exp.	Firecrackers	6	0	No Details	No Details	1
Sep 15	No Details	W. Bengal, India	Exp.	Fireworks	1	1	No Details	No Details	1
Sep 23	No Details	Jiangxi, China	Exp.	Fireworks	0	7	No Details	No Details	1

Related Incidents

FIREWORKS & PYROTECHNICS (SINCE JUNE) - CONTD.

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Sep 25	No Details	Chennai, India	Exp.	Fireworks	3	0	No Details	Gast Stove	1
Sep 25	No Details	Jharkhand, India	Exp.	Fireworks	3	9	No Details	No Details	1
Oct 04	No Details	Kanpur, India	Exp.	Fireworks	3	2	No Details	No Details	1
Oct 19	No Details	Balasore, India	Exp.	Fireworks	20	8	No Details	No Details	1
Oct 20	No Details	San Severo, Italy	Exp.	Fireworks	0	1	No Details	No Details	1
Oct 26	Tangerang District	Jakarta, Indonesia	Exp.	Fireworks	46	47	No Details	No Details	1
Dec 16	No Details	S. L. Octeyuco, Mexico	Exp.	Fireworks	8	6	No Details	No Details	1
Dec 19	No Details	Jilotepec, Mexico	Exp.	Fireworks	8	4	No Details	No Details	1

FIREWORKS & PYROTECHNICS SUMMARY | INCIDENTS: 14 | EXPLOSIONS: 14 | FIRES: 0 | INJURIES: 108 | FATALITIES: 111 |

GAS EXPLOSIONS

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Feb 14	Tengfei Coal Mine Co.	Lianyuan Cty, China	Exp.	Methane	3	10	No Details	No Details	1 2
Mar 02	Lvivuhillja Company	Lviv, Ukraine	Exp.	Methane	29	8	No Details	No Details	1 2 3
Apr 24	Splosna Plovba	North Atlantic	Exp.	Methane	3	2	No Details	No Details	1
May 03	De Beers SA	Kroonstad, S. Africa	Exp.	Methane	0	40	No Details	No Details	1 2
May 03	Zemestanyourt	Tehran, Iran	Exp.	Methane	75	42	No Details	No Details	1
Sep 06	Yuchen Coal Mine	Heilongjiang, China	Exp.	Methane	9	9	No Details	No Details	1 2 3
Sep 28	DSM Resins	Augusta, GA	Exp.	No Details	2	1	Liquid Tank	Welding	1
Oct 12	Shakhtarsk Mine	Shakhtarsk, Ukraine	Exp.	Methane	2	3	No Details	No Details	1
Oct 30	No Details	Uricani, Romania	Exp.	Methane	3	1	No Details	No Details	1
Nov 17	Knaus Cheese Plant	Fond Du Lac, WI	Exp.	No Details	1	0	Barrel	Cutting Torch	1
Dec 03	Baoma Mining Co.	Chifeng, China	Exp.	Methane	0	32	No Details	No Details	1
Dec 07	No Details	Boyaca, Colombia	Exp.	Methane	3	6	No Details	No Details	1
Dec 19	Rico Chemical Co., Ltd.	Weifang, China	Exp.	Natural	4	7	Dryer System	No Details	1
Dec 26	Dahane-e-Tor Mine	Samangan, Afghan.	Exp.	Methane	5	5	No Details	No Details	1

FIREWORKS & PYROTECHNICS SUMMARY | INCIDENTS: 14 | EXPLOSIONS: 14 | FIRES: 0 | INJURIES: 139 | FATALITIES: 166 |

BOILER AND FURNACE EXPLOSIONS

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Sep 07	Haldiram	Noida, India	Exp.	Plastic	0	0	Boiler	No Details	1
Sep 21	Gerdau Ameristeel	Wilton, IA	Exp.	No Details	4	0	Melt Shop	No Details	1
Sep 27	Sulaimani Steel Factory	Erbil, Iraq	Exp.	No Details	3	1	Furnace	No Details	1
Oct 10	GPH Ispat Ltd.	Chittagong, Balgladesh.	Exp.	No Details	11	0	Furnace	No Details	1
Oct 14	KJS Alluwalia	Kendujhar, India	Exp.	No Details	13	0	Induction Furn.	No Details	1
Oct 27	Ittehad Steel Mills	Hattar, Pakistan	Exp.	No Details	16	0	Boiler	Broken Cable	1

Related Incidents

BOILER AND FURNACE EXPLOSIONS

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Nov 01	Thermal Power Corp.	Unchahar, India	Exp.	No Details	100	43	Coal Boiler	Broken Ash Pipe	1 2 3
Nov 17	Metallco Alluminum	Eina, Norway	Exp.	No Details	2	2	Gas-Fired Furn.	No Details	1
Nov 20	Resolute Forest Product.	Thunder Bay, ON	Fire	Oil	0	0	Drying Kiln	Power Failure	1
Dec 12	Metal Smelting	Witton, UK	Exp.	No Details	0	1	No Details	Coolant Pipe Fract.	1
Dec 21	Sasamusa Sugar Mill	Gopalganj, India	Exp.	No Details	9	5	Boiler	No Details	1
Dec 23	No Details	Gujranwala, Pakistan	Exp.	No Details	8	2	Boiler	No Details	1
Dec 24	Rahima Ispat Mills Ltd.	Kadamtali, Bang.	Exp.	No Details	7	0	Boiler	No Details	1

BOILER & FURNACE EXPLOSIONS SUMMARY | INCIDENTS: 13 | EXPLOSIONS: 12 | FIRES: 1 | INJURIES: 173 | FATALITIES: 54 |

TEXTILE MANUFACTURING

Date	Company	Location	Type	Fuel	Inj.	Fat.	Equipment	Cause	Links
Sep 05	Linen Mill	Belfast, N. Ireland	Fire	Linen	0	0	Mill	No Details	1
Sep 20	Ideal Textile Mill	Munshiganj, Bang.	Fire	Textile	0	6	No Details	Welding Spark	1
Oct 24	Textile Mill	Ludhiana, India	Fire	Yarn	0	0	Mill	No Details	1
Nov 07	Jute Mill	Chittagong, Bang.	Fire	Jute	5	0	No Details	No Details	1
Nov 08	Textile Mill	Bursa, Turkey	Exp.	Textile	16	5	Boiler	No Details	1
Dec 09	Din Textile Mill	Pattoki, Pakistan	Fire	Cotton	0	0	No Details	No Details	1
Dec 25	Lucky Textile Mills	Shyampur, Bang.	Fire	Textile	0	0	No Details	No Details	1

TEXTILE MANUFACTURING SUMMARY | INCIDENTS: 7 | EXPLOSIONS: 1 | FIRES: 6 | INJURIES: 21 | FATALITIES: 11 |

Author: Chris Cloney

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