

**Table 11. Fatal occupational injuries by primary and secondary source of injury, 1995**

Source of injury <sup>1</sup>	Fatalities			
	Primary source <sup>2</sup>		Secondary source <sup>3</sup>	
	Number	Percent	Number	Percent
Total .....	6,210	100.0	6,210	100.0
<b>Vehicles</b> .....	2,576	41.5	903	14.5
Air vehicle .....	279	4.5	11	.2
Aircraft--powered fixed wing .....	183	2.9	9	.1
Jet .....	30	.5	—	—
Propeller-driven aircraft .....	79	1.3	5	.1
Aircraft--powered rotary wing .....	54	.9	—	—
Highway vehicle, motorized .....	1,770	28.5	746	12.0
Automobile .....	493	7.9	177	2.9
Bus .....	18	.3	—	—
Truck .....	1,030	16.6	440	7.1
Delivery truck .....	38	.6	7	.1
Dump truck .....	88	1.4	24	.4
Pickup truck .....	185	3.0	71	1.1
Semitrailer, tractor trailer, trailer truck .....	440	7.1	207	3.3
Van--passenger or light delivery .....	88	1.4	25	.4
Highway vehicle, nonmotorized .....	8	.1	—	—
Animal or human powered vehicle .....	8	.1	—	—
Bicycle .....	4	.1	—	—
Offroad vehicle, nonindustrial .....	17	.3	—	—
All terrain vehicle (ATV) .....	8	.1	—	—
Golf cart, powered .....	5	.1	—	—
Plant and industrial powered vehicles, tractors .....	342	5.5	48	.8
Forklift .....	70	1.1	24	.4
Pallet lift truck--motorized .....	4	.1	—	—
Platform lift truck--high or low lift .....	5	.1	—	—
Powered industrial carrier, except forklift .....	4	.1	—	—
Tractor .....	263	4.2	22	.4
Rail vehicle .....	49	.8	77	1.2
Water vehicle .....	88	1.4	8	.1
Barge .....	9	.1	4	.1
Ships--other than sail powered .....	10	.2	—	—
Tugboat, commercial fishing boat .....	44	.7	—	—
<b>Structures and surfaces</b> .....	697	11.2	629	10.1
Floors, walkways, ground surfaces .....	605	9.7	153	2.5
Floors .....	191	3.1	24	.4
Ground .....	236	3.8	53	.9
Sidewalks, paths, outdoor walkways .....	21	.3	—	—
Street, road .....	8	.1	14	.2
Surfaces below ground level, n.e.c. ....	22	.4	27	.4
Ditches, channels, trenches, excavations .....	20	.3	24	.4
Parking lots .....	12	.2	—	—
Other structural elements .....	50	.8	168	2.7
Doors .....	7	.1	6	.1
Fences, fence panels .....	—	—	9	.1
Roof .....	8	.1	97	1.6
Walls .....	27	.4	16	.3
Windows .....	—	—	6	.1
Structures .....	34	.5	298	4.8
Bridges, dams, locks .....	—	—	51	.8
Buildings--office, plant, residential .....	9	.1	20	.3
Mines, caves, tunnels .....	4	.1	11	.2
Scaffolds, staging .....	5	.1	70	1.1
Towers, poles .....	9	.1	65	1.0
Other structures .....	4	.1	80	1.3
Guardrails, road dividers .....	—	—	65	1.0
<b>Machinery</b> .....	479	7.7	189	3.0
Agricultural and garden machinery .....	91	1.5	11	.2
Harvesting and threshing machinery .....	35	.6	—	—
Balers .....	12	.2	—	—
Combines .....	11	.2	—	—
Mowing machinery .....	30	.5	—	—
Lawn mowers--riding .....	5	.1	—	—
Mowers, tractor .....	20	.3	—	—
Plowing, planting, and fertilizing machinery .....	5	.1	—	—
Construction, logging, and mining machinery .....	197	3.2	38	.6
Excavating machinery .....	59	1.0	9	.1
Backhoes .....	19	.3	4	.1
Bulldozers .....	28	.5	—	—
Loaders .....	56	.9	6	.1
Bucket loaders .....	5	.1	—	—
Front end loaders .....	38	.6	4	.1
Logging and wood processing machinery--specialized .....	23	.4	11	.2
Chippers .....	4	.1	—	—
Log loaders, including heel boom .....	4	.1	4	.1
Forwarder/yarder, skidder .....	5	.1	—	—

See footnotes at end of table.

**Table 11. Fatal occupational injuries by primary and secondary source of injury, 1995 — Continued**

Source of injury <sup>1</sup>	Fatalities			
	Primary source <sup>2</sup>		Secondary source <sup>3</sup>	
	Number	Percent	Number	Percent
Skidder--cable and grapple .....	5	.1	4	.1
Mining and drilling machinery .....	19	.3	9	.1
Drilling machines, drilling augers .....	6	.1	—	—
Road grading and surfacing machinery .....	27	.4	—	—
Graders, levellers, planers, scrapers .....	10	.2	—	—
Steam rollers, road pavers .....	14	.2	—	—
Heating, cooling, and cleaning machinery and appliances .....	18	.3	12	.2
Cooling and humidifying machinery and appliances .....	8	.1	4	.1
Heating and cooking machinery and appliances .....	5	.1	7	.1
Washers, dryers, and cleaning machinery and appliances .....	5	.1	—	—
Material handling (cranes, conveyers, jacks) .....	101	1.6	102	1.6
Conveyors--gravity .....	—	—	4	.1
Conveyors--powered .....	23	.4	10	.2
Cranes .....	38	.6	28	.5
Cranes--mobile, truck, rail mounted .....	8	.1	6	.1
Cranes--overhead .....	4	.1	6	.1
Overhead hoists .....	4	.1	6	.1
Elevators .....	26	.4	31	.5
Bucket or basket hoist--truck mounted .....	6	.1	12	.2
Manlifts .....	—	—	9	.1
Jacks .....	—	—	19	.3
Metal, woodworking, and special material machinery .....	32	.5	14	.2
Special process machinery .....	26	.4	8	.1
Paper production machinery .....	5	.1	—	—
Miscellaneous machinery .....	12	.2	—	—
<b>Parts and materials .....</b>	<b>463</b>	<b>7.5</b>	<b>202</b>	<b>3.3</b>
Building materials--solid elements .....	105	1.7	42	.7
Bricks, blocks, structural stone .....	15	.2	—	—
Pipes, ducts, tubing .....	24	.4	18	.3
Structural metal materials .....	45	.7	13	.2
Bars, rods, reinforcing bar (rebar) .....	8	.1	—	—
Plates, metal panels .....	7	.1	—	—
Wood, lumber .....	10	.2	6	.1
Other building materials--solid elements .....	9	.1	—	—
Fasteners, connectors, ropes, ties .....	46	.7	14	.2
Ropes, ties .....	44	.7	11	.2
Rope, twine, string .....	20	.3	4	.1
Machine, tool, and electrical parts .....	242	3.9	129	2.1
Electric parts .....	214	3.4	121	1.9
Electrical wiring .....	75	1.2	18	.3
Power lines, transformers, convertors .....	90	1.4	95	1.5
Switchboards, switches, fuses .....	16	.3	—	—
Metal materials--nonstructural .....	10	.2	—	—
Molten or hot metals, slag .....	4	.1	—	—
Vehicle and mobile equipment parts .....	44	.7	12	.2
Tires, inner tubes, wheels .....	23	.4	5	.1
Wheels, tire rims .....	10	.2	—	—
Trailers .....	13	.2	6	.1
<b>Persons, plants, animals, and minerals .....</b>	<b>288</b>	<b>4.6</b>	<b>1,281</b>	<b>20.6</b>
Animals and animal products .....	26	.4	41	.7
Birds and fowl .....	—	—	24	.4
Insects, arachnids .....	4	.1	—	—
Mammals, except humans .....	20	.3	14	.2
Cattle .....	13	.2	—	—
Horses .....	4	.1	8	.1
Food products--fresh or processed .....	26	.4	—	—
Nonmetallic minerals, except fuel .....	36	.6	20	.3
Dirt, earth .....	13	.2	8	.1
Rocks, crushed stone .....	16	.3	8	.1
Person--other than injured or ill worker .....	34	.5	991	16.0
Co-worker, former co-worker or injured worker .....	4	.1	94	1.5
Relative of injured worker .....	—	—	29	.5
Plants, trees, vegetation--not processed .....	150	2.4	137	2.2
Trees, logs .....	147	2.4	133	2.1
<b>Chemicals and chemical products .....</b>	<b>132</b>	<b>2.1</b>	<b>83</b>	<b>1.3</b>
Aromatics and hydrocarbon derivatives, except halogenated .....	4	.1	—	—
Metallic particulates, trace elements, dusts, powders, fumes .....	—	—	4	.1
Chemical products--general .....	32	.5	20	.3
Drugs, alcohol, medicines .....	28	.5	—	—
Explosives, blasting agents, n.e.c. .....	—	—	6	.1
Solvents, degreasers, n.e.c. .....	—	—	5	.1
Coal, natural gas, petroleum fuels and products .....	17	.3	31	.5
Natural gas .....	5	.1	6	.1

See footnotes at end of table.

**Table 11. Fatal occupational injuries by primary and secondary source of injury, 1995 — Continued**

Source of injury <sup>1</sup>	Fatalities			
	Primary source <sup>2</sup>		Secondary source <sup>3</sup>	
	Number	Percent	Number	Percent
Petroleum fuels, distillates, products, unspecified .....	9	.1	22	.4
Gasoline, diesel fuel, jet fuel .....	—	—	11	.2
Propane .....	6	.1	4	.1
Other chemicals .....	65	1.0	21	.3
Oxygen and oxygen compounds, n.e.c. ....	42	.7	5	.1
Carbon monoxide .....	34	.5	—	—
Sulfur and sulfur compounds .....	6	.1	—	—
Multiple chemicals or chemical mixtures, n.e.c. ....	4	.1	5	.1
<b>Tools, instruments, and equipment</b> .....	135	2.2	161	2.6
Handtools--nonpowered .....	79	1.3	12	.2
Cutting handtools .....	63	1.0	—	—
Knives .....	51	.8	—	—
Striking and nailing handtools .....	4	.1	—	—
Turning handtools, screwdrivers, wrenches .....	4	.1	—	—
Handtools--powered .....	19	.3	28	.5
Cutting handtools .....	7	.1	10	.2
Welding and heating handtools .....	8	.1	16	.3
Ladders .....	17	.3	95	1.5
Ladders--fixed .....	—	—	6	.1
Ladders--movable .....	11	.2	53	.9
Extension ladders .....	7	.1	17	.3
Step ladders .....	—	—	6	.1
<b>Containers</b> .....	87	1.4	47	.8
Containers-nonpressurized .....	42	.7	25	.4
Bags, sacks, totes .....	4	.1	—	—
Barrels, kegs, drums .....	5	.1	—	—
Boxes, crates, cartons .....	8	.1	—	—
Tanks, bins, vats .....	20	.3	19	.3
Containers-pressurized .....	19	.3	18	.3
Boilers .....	—	—	6	.1
Hoses .....	—	—	4	.1
Pressure lines, except hoses .....	—	—	5	.1
Propane tanks .....	4	.1	—	—
Containers-variable restraint .....	22	.4	4	.1
Bundles, bales .....	13	.2	—	—
Reels, rolls .....	8	.1	—	—
<b>Other</b> .....	1,353	21.8	274	4.4
Ammunition .....	1,013	16.3	—	—
Bullets .....	832	13.4	—	—
Explosive devices .....	128	2.1	—	—
Atmospheric and environmental conditions .....	189	3.0	114	1.8
Fire, flame, smoke .....	116	1.9	48	.8
Fire, flame .....	75	1.2	31	.5
Smoke, fire gases .....	34	.5	14	.2
Flood .....	—	—	4	.1
Temperature extreme .....	42	.7	—	—
Steam, vapors, liquids .....	88	1.4	118	1.9
Scrap, waste, debris .....	5	.1	—	—
<b>Not reported</b> .....	—	—	2,441	39.3

<sup>1</sup> Based on the 1992 BLS Occupational Injury and Illness Classification Structures.

<sup>2</sup> The primary source of injury identifies the object, substance, or exposure that directly produced or inflicted the injury. For transportation incidents, the source identifies the vehicle in which the deceased was an occupant.

<sup>3</sup> The secondary source of injury, if any, identifies the object, substance, or person that generated the source of injury or that contributed to the event or exposure. For vehicle collisions, the deceased's vehicle is the primary source and the other object (truck, road, divider, etc.) is the secondary source. For most homicides, the "bullet"

is the primary source and the "perpetrator" is the secondary source. Secondary source was coded for 3,769 cases.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding.

Dashes indicate no data reported or data that do not meet publication criteria.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, in cooperation with State and Federal agencies, Census of Fatal Occupational Injuries, 1995.