Table 11. Fatal occupational injuries by primary and secondary source of injury, 1994

Source of injury ¹		Fatalities			
		Primary source ²		Secondary source ³	
	Number	Percent	Number	Percer	
Total	6,588	100.0	6,588	100.0	
ehicles	2,782	42.2	996	15.1	
Air vehicle		6.5	38	.6	
Aircraftpowered fixed wing		4.7 2.2	32	.5	
Propeller-driven aircraft		1.9	27		
Aircraftpowered rotary wing		1.0			
Highway vehicle, motorized		26.9	775	11.8	
Automobile		7.1	185 5	2.8	
Truck		16.0	469	7.1	
Delivery truck		.7	9	.1	
Dump truck		1.4	33	.5	
Pickup truck Semitrailer, tractor trailer, trailer truck		3.2 6.8	84 221	1.3	
Vanpassenger or light delivery		1.6	28	.4	
Highway vehicle, nonmotorized		.2	- "	-	
Animal or human powered vehicle		.2	-	-	
Bicycle Offroad vehicle, nonindustrial		.2	_	-	
All terrain vehicle (ATV)		.1	_	_	
Golf cart, powered		.1	_	_	
Plant and industrial powered vehicles, tractors		6.1	61	.9	
Forklift		1.2	43	.7	
Hand/rider forklift truckmotorized Platform lift truckhigh or low lift		.1	_	_	
Powered industrial carrier, except forklift		.2	_	_	
Tractor	306	4.6	16	.2	
Rail vehicle		.6	84	1.3	
Water vehicle		1.4	25 4	.4	
Canoe, kayak, rowboat, raft		.1		l -''	
Motorboat	4	.1	_	-	
Shipsother than sail powered		.2	8	.1	
Tugboat, commercial fishing boat	38	.6	_	_	
structures and surfaces	713	10.8	697	10.6	
Floors, walkways, ground surfaces		9.3	244	3.7	
Floors		3.1	17	.3	
GroundSidewalks, paths, outdoor walkways		3.5 .5	159	2.4	
Street, road		.3	12	.2	
Surfaces below ground level, n.e.c.		.3	22	.3	
Ditches, channels, trenches, excavations		.3	16	.2	
Parking lots Other structural elements		.2 .8	148	2.2	
Doors		.2	-		
Fences, fence panels		-	10	.2	
Gates		.1	4	1.1	
RoofWalls		.1	81 20	1.2	
Structures		.6	296	4.5	
Bridges, dams, locks		.2	24	.4	
Mines, caves, tunnels			11	.2	
Scaffolds, staging Towers, poles		.1	71 59	1.1	
Other structures		.1	81	1.2	
Guardrails, road dividers		_	61	.9	
	407				
Agricultural and garden machinery		7.5 1.5	204 14	3.1	
Harvesting and threshing machinery		.4		2	
Balers	10	.2	_	-	
Mowing machinery		.6	6	.1	
Lawn mowersriding		1.1	_	_	
Mowers, tractor		.3 .2	-	-	
Spreading machineryagricultural		.1	_	-	
Construction, logging, and mining machinery	182	2.8	34	.5	
Excavating machinery		.9	11	.2	
Backhoes		.3	7		
Loaders		.8	4	1 .1	
Bucket loaders	12	.2	_	-	
End loaders		.1	- <u>.</u>		
Front end loaders Logging and wood processing machineryspecialized		.4	4 8	.1	
		.3	_ °	l -''	
Forwarder/yarder, skidder					

Table 11. Fatal occupational injuries by primary and secondary source of injury, 1994 — Continued

Source of injury ¹		Fatalities			
		Primary source ²		Secondary source ³	
	Number	Percent	Number	Percen	
Mining and drilling machinery	12	.2	4	.1	
Road grading and surfacing machinery		.4			
Graders, levellers, planers, scrapers		.2	_	-	
Steam rollers, road pavers		.1	-	-	
Heating, cooling, and cleaning machinery and appliances		.3	15	.2	
Cooling and humidifying machinery and appliances			4		
Heating and cooking machinery and appliances		.1	9	.1	
Washers, dryers, and cleaning machinery and appliances		.1	-		
Material handling (cranes, conveyers, jacks)		1.6	109	1.7	
Conveyorspowered		.5 .5	8 40	.1	
Cranesmobile, truck, rail mounted		.2	6	.0	
Cranesnobile, track, rail mounted		.1	6	1 .1	
Overhead hoists		:i	9	1 .1	
Elevators		.3	23	.3	
Bucket or basket hoisttruck mounted			7	.1	
Manlifts	–	_	7	.1	
Jacks		-	22	.3	
Metal, woodworking, and special material machinery		.5	16	.2	
Special process machinery		.4	8	.1	
Food and beverage processing machineryspecialized		.1	_	-	
Textile, apparel, leather production machinery		.1		– .	
Miscellaneous machinery	19	.3	7	.1	
rts and materials	440	6.7	206	3.1	
Building materialssolid elements		1.8	37	.6	
Bricks, blocks, structural stone		.2	4	.1	
Pipes, ducts, tubing		.6	9	.1	
Structural metal materials		.7	17	.3	
Bars, rods, reinforcing bar (rebar)		.1	_	_	
Plates, metal panels	5	.1	_	_	
Wood, lumber		.3	4	.1	
Other building materialssolid elements		.1	-	-	
Fasteners, connectors, ropes, ties		.6	14	.2	
Ropes, ties		.5	11	.2	
Chains, n.e.c.		.1	4	.1	
Rope, twine, string		.2	_	_	
Hoisting accessories		.1 3.4	119	1.8	
Machine, tool, and electrical partsElectric parts		3.4	115	1.7	
Electrical wiring		.9	17	.3	
Power lines, transformers, convertors		1.5	85	1.3	
Switchboards, switches, fuses		.1	_		
Metal materialsnonstructural		.3	_	_	
Molten or hot metals, slag		.1	-	_	
Tars, sealants, caulking, insulating material	–	-	4	.1	
Vehicle and mobile equipment parts	22	.3	27	.4	
Tires, inner tubes, wheels	9	.1	9	.1	
Wheels, tire rims		.1	-	_	
Engine parts and accessories		.1	- <u>, -</u>		
Trailers	6	.1	17	.3	
rsons, plants, animals, and minerals	306	4.6	1,332	20.2	
Animals and animal products		.6	26	.4	
Insects, arachnids		.1		_	
Mammals, except humans		.5	23	.3	
Cattle	14	.2	6	.1	
Horses	13	.2	7	.1	
Food productsfresh or processed		.3	_	-	
Nonmetallic minerals, except fuel		.9	21	.3	
Dirt, earth		.5	8		
Rocks, crushed stone		.2	7	.1	
Sand, gravelPersonother than injured or ill worker		.1	1,036	15.7	
Co-worker, former co-worker or injured worker		5	56	.9	
Relative of injured worker		-	30	.5	
Plants, trees, vegetationnot processed		2.4	144	2.2	
Cash grain crops	4	.1	-	-	
Trees, logs		2.3	140	2.1	
omicals and shaminal needucts	404	27	0.5		
emicals and chemical products		2.7	85	1.3	
AikaliesAikalies and hydrocarbon derivatives, except halogenated		.1	7		
Halogens and halogen compounds		.1	_ ′	l _''	
Agricultural chemicals and other pesticides		.1	-	I [
Chemical productsgeneral		.7	19	.3	
Drugs, alcohol, medicines		.5	-	3	
Explosives, blasting agents, n.e.c.		.1	12	.2	
Coal, natural gas, petroleum fuels and products		.2	42	.6	
		I	7	.1	

Table 11. Fatal occupational injuries by primary and secondary source of injury, 1994 — Continued

		Fatalities			
Source of injury ¹	Primary source ²		Secondary source ³		
	Number	Percent	Number	Percent	
Petroleum fuels, distillates, products, unspecified	- - 86	.1 - - 1.3	28 22 4 15	.4 .3 .1 .2	
Ammonia and ammonium compounds Cyanide and cyanide compounds, n.e.c. Oxygen and oxygen compounds, n.e.c. Carbon monoxide Sewer gas, mine gas, methane Sulfur and sulfur compounds	6 6 51 44 11 7	.1 .1 .8 .7 .2 .1	- - - - - -	- - - - - -	
Tools, instruments, and equipment Handtoolsnonpowered Cutting handtools Knives Striking and nailing handtools Handtoolspowered Cutting handtools Welding and heating handtools Handtoolspower not determined Ladders Laddersfixed Laddersmovable Extension ladders Step ladders	5 5	2.1 1.5 1.0 .8 .2 .2 .1 .1 .1 .1	155 7 - - 27 6 13 - 82 4 41 6 10	2.4 .1 - - .4 .1 .2 - 1.2 .1 .6 .1	
Containers Containers-nonpressurized Bags, sacks, totes Boxes, crates, cartons Tanks, bins, vats Containers-pressurized Containers-variable restraint Bundles, bales Reels, rolls Skids, pallets	4	1.3 .5 .1 .1 .3 .3 .4 .3 .1	52 34 - - 26 7 9 7	.8 .5 - .4 .1 .1 .1	
Other Ammunition Bullets Atmospheric and environmental conditions Fire, flame, smoke Temperature extreme Steam, vapors, liquids Scrap, waste, debris Not reported	1,450 1,062 996 183 127 35 98 10	22.0 16.1 15.1 2.8 1.9 .5 1.5	272 - 119 22 - 106 - 2,589	4.1 - 1.8 .3 - 1.6 - 39.3	

primary source and the "perpetrator" is the secondary source. Secondary source was coded for 3,999 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, 1994.

¹ Based on the 1992 BLS Occupational and Illness Classification Structures.
² 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 occupant.

³ 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