

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatalities and by major private industry¹ sector, California, 2004

Primary source and secondary source	Total fatalities (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining ²	Construction	Manufacturing	Total service providing	Trade, transportation, and utilities	Information	Financial activities	Professional and business services	Education and health services	Leisure and hospitality	Other services
Total.....	467	195	53	108	34	216	95	4	7	54	14	24	18
Primary Source³													
Chemicals and chemical products.....	15	6	--	6	--	7	--	--	--	--	--	--	--
Chemical products--general.....	7	--	--	--	--	3	--	--	--	--	--	--	--
Drugs, alcohol, medicines.....	7	--	--	--	--	3	--	--	--	--	--	--	--
Drugs--nonmedicinal.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Other chemicals.....	7	--	--	--	--	4	--	--	--	--	--	--	--
Oxygen and oxygen compounds, n.e.c.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Carbon monoxide.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Containers.....	5	4	--	--	--	--	--	--	--	--	--	--	--
Machinery.....	40	31	6	17	8	9	3	--	--	3	--	--	--
Agricultural and garden machinery.....	5	3	3	--	--	--	--	--	--	--	--	--	--
Harvesting and threshing machinery.....	3	3	3	--	--	--	--	--	--	--	--	--	--
Construction, logging, and mining machinery.....	21	17	--	14	--	4	--	--	--	--	--	--	--
Excavating machinery.....	7	6	--	5	--	--	--	--	--	--	--	--	--
Backhoes.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Bulldozers.....	4	4	--	4	--	--	--	--	--	--	--	--	--
Loaders.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Front end loaders.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Road grading and surfacing machinery.....	8	7	--	7	--	--	--	--	--	--	--	--	--
Graders, levellers, planers, scrapers.....	5	5	--	5	--	--	--	--	--	--	--	--	--
Steam rollers, road pavers.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Heating, cooling, and cleaning machinery and appliances.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Material handling machinery.....	8	6	--	3	--	--	--	--	--	--	--	--	--
Cranes.....	3	3	--	3	--	--	--	--	--	--	--	--	--
Special process machinery.....	3	3	--	--	3	--	--	--	--	--	--	--	--
Parts and materials.....	36	20	--	17	3	15	9	--	--	3	--	--	--
Building materials--solid elements.....	12	9	--	6	3	3	3	--	--	--	--	--	--
Bricks, blocks, structural stone.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Structural stones or slabs, n.e.c.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Structural metal materials.....	7	6	--	3	3	--	--	--	--	--	--	--	--
Beams.....	6	5	--	3	--	--	--	--	--	--	--	--	--
Fasteners, connectors, ropes, ties.....	6	--	--	--	--	4	3	--	--	--	--	--	--
Ropes, ties, chains.....	6	--	--	--	--	4	3	--	--	--	--	--	--
Ropes, ties, chains, n.e.c.....	3	--	--	--	--	3	--	--	--	--	--	--	--
Machine, tool, and electric parts.....	13	6	--	6	--	7	--	--	--	3	--	--	--
Electric parts.....	12	5	--	5	--	7	--	--	--	3	--	--	--

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatalities and by major private industr¹ sector, California, 2004 - continued

Primary source and secondary source	Total fatalities (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining ²	Construc- tion	Manufac- turing	Total service providing	Trade, transpor- tation, and utilities	Informa- tion	Financial activities	Profes- sional and business services	Education and health services	Leisure and hospitality	Other services
Electrical wiring.....	5	3	--	3	--	--	--	--	--	--	--	--	--
Power lines, transformers, convertors.....	7	--	--	--	--	5	--	--	--	--	--	--	--
Vehicle and mobile equipment parts.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals.....	14	9	8	--	--	3	--	--	--	3	--	--	--
Plants, trees, vegetation--not processed.....	11	7	6	--	--	3	--	--	--	3	--	--	--
Trees, logs.....	11	7	6	--	--	3	--	--	--	3	--	--	--
Structures and surfaces.....	74	45	3	39	3	26	5	--	--	12	--	--	3
Structures and surfaces, unspecified.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Floors, walkways, ground surfaces.....	66	42	3	36	3	22	3	--	--	10	--	--	3
Floors, walkways, ground surfaces, unspecified.....	7	5	--	5	--	--	--	--	--	--	--	--	--
Floors.....	16	13	--	11	--	3	--	--	--	--	--	--	--
Floor of building.....	15	12	--	10	--	3	--	--	--	--	--	--	--
Ground.....	34	18	--	15	--	14	--	--	--	8	--	--	--
Tools, instruments, and equipment.....	13	4	--	3	--	8	3	--	--	--	--	--	--
Handtools--nonpowered.....	8	--	--	--	--	6	3	--	--	--	--	--	--
Cutting handtools--nonpowered.....	7	--	--	--	--	6	3	--	--	--	--	--	--
Knives.....	6	--	--	--	--	5	3	--	--	--	--	--	--
Vehicles.....	202	60	31	13	16	105	59	--	--	19	7	8	9
Air vehicle.....	19	--	--	--	--	10	--	--	--	--	6	--	--
Aircraft--powered fixed wing.....	14	--	--	--	--	9	--	--	--	--	6	--	--
Jet.....	10	--	--	--	--	5	--	--	--	--	5	--	--
Propeller-driven aircraft.....	4	--	--	--	--	4	--	--	--	--	--	--	--
Aircraft--powered rotary wing.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Helicopter.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Highway vehicle, motorized.....	136	33	12	11	10	77	46	--	--	18	--	5	5
Automobile.....	18	--	--	--	--	11	4	--	--	--	--	3	--
Motorcycle, moped.....	8	--	--	--	--	3	--	--	--	--	--	--	--
Truck.....	102	30	9	11	10	57	38	--	--	16	--	--	--
Truck, unspecified.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Delivery truck.....	5	--	--	--	--	4	3	--	--	--	--	--	--
Dump truck.....	6	--	--	--	--	3	--	--	--	--	--	--	--
Pickup truck.....	21	6	--	4	--	9	--	--	--	7	--	--	--
Semitrailer, tractor trailer, trailer truck.....	41	8	4	--	4	33	27	--	--	5	--	--	--
Truck, n.e.c.....	25	11	4	3	4	6	3	--	--	3	--	--	--
Van--passenger or light delivery.....	5	--	--	--	--	3	--	--	--	--	--	--	--
Offroad vehicle, nonindustrial.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Plant and industrial powered vehicles, tractors.....	34	21	14	--	5	12	9	--	--	--	--	--	--
Forklift.....	20	8	--	--	5	11	8	--	--	--	--	--	--
Forklift, unspecified.....	13	4	--	--	--	8	6	--	--	--	--	--	--

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatalities and by major private industr¹ sector, California, 2004 - continued

Primary source and secondary source	Total fatalities (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining ²	Construc- tion	Manufac- turing	Total service providing	Trade, transpor- tation, and utilities	Informa- tion	Financial activities	Profes- sional and business services	Education and health services	Leisure and hospitality	Other services
Hand/rider forklift truck--motorized.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Tractor.....	13	13	12	--	--	--	--	--	--	--	--	--	--
Water vehicle.....	7	--	--	--	--	3	--	--	--	--	--	--	--
Other sources.....	66	15	--	11	--	41	16	--	--	9	--	10	4
Ammunition.....	46	5	--	3	--	33	16	--	--	5	--	8	3
Bullets.....	46	5	--	3	--	33	16	--	--	5	--	8	3
Atmospheric and environmental conditions.....	12	9	--	7	--	--	--	--	--	--	--	--	--
Fire, flame, smoke.....	10	8	--	7	--	--	--	--	--	--	--	--	--
Fire, flame.....	10	8	--	7	--	--	--	--	--	--	--	--	--
Steam, vapors, liquids, n.e.c.....	6	--	--	--	--	5	--	--	--	3	--	--	--
Liquids.....	6	--	--	--	--	5	--	--	--	3	--	--	--
Water.....	6	--	--	--	--	5	--	--	--	3	--	--	--
Secondary Source⁴													
Chemicals and chemical products.....	10	8	--	7	--	--	--	--	--	--	--	--	--
Coal, natural gas, petroleum fuels and products, n.e.c.....	7	6	--	5	--	--	--	--	--	--	--	--	--
Petroleum fuels, distillates, products, n.e.c.....	6	6	--	5	--	--	--	--	--	--	--	--	--
Gasoline, diesel fuel, jet fuel.....	6	6	--	5	--	--	--	--	--	--	--	--	--
Containers.....	9	6	--	--	--	3	--	--	--	--	--	--	--
Containers--nonpressurized.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Skids, pallets.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Machinery.....	24	17	--	8	8	6	--	--	--	--	--	--	--
Material handling machinery.....	18	14	--	6	8	3	--	--	--	--	--	--	--
Cranes.....	9	9	--	3	6	--	--	--	--	--	--	--	--
Cranes, unspecified.....	6	6	--	--	4	--	--	--	--	--	--	--	--
Elevators, aerial lifts.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Jacks.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Parts and materials.....	16	10	4	6	--	6	3	--	--	--	--	--	--
Machine, tool, and electric parts.....	9	7	--	5	--	--	--	--	--	--	--	--	--
Electric parts.....	8	6	--	5	--	--	--	--	--	--	--	--	--
Power lines, transformers, convertors.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Vehicle and mobile equipment parts.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals.....	68	11	5	4	--	49	20	--	--	13	--	10	4
Person--other than injured or ill worker.....	50	4	--	3	--	39	19	--	--	5	--	9	4
Person--other than injured or ill worker, unspecified.....	16	--	--	--	--	16	7	--	--	4	--	3	--
Co-worker, former co-worker of injured or ill worker.....	3	--	--	--	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatalities and by major private industry¹ sector, California, 2004 - continued

Primary source and secondary source	Total fatalities (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining ²	Construc- tion	Manufac- turing	Total service providing	Trade, transpor- tation, and utilities	Informa- tion	Financial activities	Profes- sional and business services	Education and health services	Leisure and hospitality	Other services
Robber.....	18	--	--	--	--	16	10	--	--	--	--	4	--
Person--other than injured or ill worker, n.e.c.....	13	3	--	--	--	6	--	--	--	--	--	--	3
Plants, trees, vegetation--not processed.....	15	5	3	--	--	10	--	--	--	8	--	--	--
Trees, logs.....	15	5	3	--	--	10	--	--	--	8	--	--	--
Structures and surfaces.....	93	39	4	32	3	40	18	--	3	7	7	--	--
Floors, walkways, ground surfaces.....	30	6	--	3	--	13	--	--	--	--	6	--	--
Floors.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Floor of building.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Ground.....	21	--	--	--	--	10	--	--	--	--	6	--	--
Other floors, walkways, ground surfaces.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Ramps, runways, loading docks.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Other structural elements.....	29	24	--	23	--	5	--	--	--	--	--	--	--
Roof.....	17	15	--	15	--	--	--	--	--	--	--	--	--
Skylights.....	5	5	--	5	--	--	--	--	--	--	--	--	--
Walls.....	5	3	--	3	--	--	--	--	--	--	--	--	--
Structures.....	34	9	--	6	--	22	15	--	--	4	--	--	--
Pools.....	4	--	--	--	--	3	--	--	--	3	--	--	--
Scaffolds, staging.....	8	5	--	5	--	--	--	--	--	--	--	--	--
Scaffolds--staging, unspecified.....	5	3	--	3	--	--	--	--	--	--	--	--	--
Towers, poles.....	5	--	--	--	--	4	3	--	--	--	--	--	--
Other structures.....	12	--	--	--	--	12	10	--	--	--	--	--	--
Guardrails, road dividers.....	10	--	--	--	--	10	9	--	--	--	--	--	--
Tools, instruments, and equipment.....	17	10	--	9	--	6	--	--	--	3	--	--	--
Ladders.....	12	9	--	9	--	3	--	--	--	--	--	--	--
Ladders, unspecified.....	7	5	--	5	--	--	--	--	--	--	--	--	--
Ladders--movable.....	4	3	--	3	--	--	--	--	--	--	--	--	--
Other tools, instruments, and equipment.....	5	--	--	--	--	3	--	--	--	--	--	--	--
Firearms.....	5	--	--	--	--	3	--	--	--	--	--	--	--
Pistol, handgun, revolver.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Vehicles.....	74	25	10	8	7	35	20	--	--	6	--	4	--
Highway vehicle, motorized.....	62	19	8	5	6	30	17	--	--	5	--	4	--
Highway vehicle, unspecified.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Automobile.....	18	4	--	--	--	11	--	--	--	--	--	3	--
Truck.....	38	13	4	5	4	17	14	--	--	--	--	--	--
Truck, unspecified.....	5	3	--	--	--	--	--	--	--	--	--	--	--
Pickup truck.....	7	--	--	--	--	--	--	--	--	--	--	--	--
Semitrailer, tractor trailer, trailer truck.....	23	7	--	3	--	13	12	--	--	--	--	--	--
Truck, n.e.c.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Plant and industrial powered vehicles, tractors.....	7	4	--	3	--	3	--	--	--	--	--	--	--

See footnotes at end of table.

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatalities and by major private industr¹ sector, California, 2004 - continued

Primary source and secondary source	Total fatalities (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining ²	Construction	Manufacturing	Total service providing	Trade, transportation, and utilities	Information	Financial activities	Professional and business services	Education and health services	Leisure and hospitality	Other services
Forklift.....	7	4	--	3	--	3	--	--	--	--	--	--	--
Forklift, unspecified.....	6	3	--	--	--	3	--	--	--	--	--	--	--
Other sources.....	6	--	--	--	--	3	--	--	--	--	--	--	--
Steam, vapors, liquids, n.e.c.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Liquids.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Water.....	3	--	--	--	--	--	--	--	--	--	--	--	--

¹ Classified according to the North American Industry Classification System, 2002.

² Includes fatalities at all establishments categorized as Mining (Sector 21) in the North American Industry Classification System, 2002, including establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in Oil and Gas Extraction.

³ The primary source 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.

⁴ 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.

NOTE: Totals for major categories may include subcategories not shown separately. Dashes indicate no data reported or data that do not meet publication criteria. n.e.c. means "not elsewhere classified." Data for years prior to 2008 are revised and final.

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