

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatalities and by major private industr¹ sector, California, 2008

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.....	465	177	75	67	35	225	110	5	11	45	14	20	19
Primary Source³													
Chemicals and chemical products.....	21	11	--	5	3	7	3	--	--	--	--	--	--
Chemical products--general.....	14	5	--	3	--	6	--	--	--	--	--	--	--
Drugs, alcohol, medicines.....	14	5	--	3	--	6	--	--	--	--	--	--	--
Drugs--nonmedicinal.....	6	3	--	--	--	--	--	--	--	--	--	--	--
Medicines.....	6	--	--	--	--	3	--	--	--	--	--	--	--
Other chemicals.....	6	6	--	--	--	--	--	--	--	--	--	--	--
Oxygen and oxygen compounds, n.e.c.....	6	6	--	--	--	--	--	--	--	--	--	--	--
Carbon monoxide.....	6	6	--	--	--	--	--	--	--	--	--	--	--
Machinery.....	23	16	7	3	6	6	--	--	--	3	--	--	--
Agricultural and garden machinery.....	3	3	--	--	--	--	--	--	--	--	--	--	--
Construction, logging, and mining machinery.....	7	4	3	--	--	--	--	--	--	--	--	--	--
Material handling machinery.....	7	5	--	--	3	--	--	--	--	--	--	--	--
Elevators, aerial lifts.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Special process machinery.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Parts and materials.....	36	14	3	7	4	18	8	--	--	3	--	3	3
Building materials--solid elements.....	9	6	--	4	--	3	3	--	--	--	--	--	--
Structural metal materials.....	3	3	--	--	--	--	--	--	--	--	--	--	--
Other building materials--solid elements.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Fasteners, connectors, ropes, ties.....	13	3	--	--	--	7	3	--	--	--	--	--	--
Ropes, ties, chains.....	12	--	--	--	--	7	3	--	--	--	--	--	--
Ropes, ties, chains, unspecified.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Rope, twine, string.....	5	--	--	--	--	4	--	--	--	--	--	--	--
Machine, tool, and electric parts.....	10	4	--	--	--	6	--	--	--	--	--	--	--
Electric parts.....	10	4	--	--	--	6	--	--	--	--	--	--	--
Electrical wiring.....	4	3	--	--	--	--	--	--	--	--	--	--	--
Electric parts, n.e.c.....	5	--	--	--	--	4	--	--	--	--	--	--	--
Vehicle and mobile equipment parts.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals.....	16	6	4	--	--	7	--	--	--	--	--	4	--
Animals and animal products.....	7	3	3	--	--	3	--	--	--	--	--	--	--
Mammals, except humans.....	5	--	--	--	--	3	--	--	--	--	--	--	--
Horses.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Plants, trees, vegetation--not processed.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Trees, logs.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Structures and surfaces.....	78	40	5	29	6	29	10	--	3	11	--	--	3
Floors, walkways, ground surfaces.....	70	34	4	24	6	28	10	--	3	10	--	--	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, 2008 - 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
Floors, walkways, ground surfaces, unspecified.....	5	3	--	--	--	--	--	--	--	--	--	--	--
Floors.....	26	17	--	13	3	5	--	--	--	--	--	--	--
Floor of building.....	23	14	--	10	3	5	--	--	--	--	--	--	--
Floor, n.e.c.....	3	3	--	3	--	--	--	--	--	--	--	--	--
Ground.....	24	6	--	--	--	17	8	--	--	7	--	--	--
Sidewalks, paths, outdoor walkways.....	6	3	--	3	--	--	--	--	--	--	--	--	--
Other floors, walkways, ground surfaces.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Floors, walkways, ground surfaces, n.e.c.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Other structural elements.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Structures.....	5	4	--	4	--	--	--	--	--	--	--	--	--
Buildings--office, plant, residential.....	5	4	--	4	--	--	--	--	--	--	--	--	--
Tools, instruments, and equipment.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Handtools--nonpowered.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Cutting handtools--nonpowered.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Knives.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Vehicles.....	194	66	42	15	9	103	61	4	--	17	10	3	6
Air vehicle.....	20	7	7	--	--	10	5	--	--	--	4	--	--
Aircraft--powered fixed wing.....	6	--	--	--	--	5	--	--	--	--	--	--	--
Propeller-driven aircraft.....	4	--	--	--	--	4	--	--	--	--	--	--	--
Aircraft--powered rotary wing.....	13	7	7	--	--	4	--	--	--	--	--	--	--
Helicopter.....	13	7	7	--	--	4	--	--	--	--	--	--	--
Highway vehicle, motorized.....	135	35	15	13	7	81	49	4	--	14	5	--	5
Highway vehicle, unspecified.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Automobile.....	22	--	--	--	--	11	5	--	--	--	--	--	--
Bus.....	3	--	--	--	--	3	3	--	--	--	--	--	--
Motorcycle, moped.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Truck.....	98	29	14	10	5	60	41	--	--	9	--	--	4
Truck, unspecified.....	10	3	--	3	--	4	3	--	--	--	--	--	--
Delivery truck.....	8	--	--	--	--	5	4	--	--	--	--	--	--
Dump truck.....	6	3	--	--	--	3	--	--	--	--	--	--	--
Pickup truck.....	14	5	3	--	--	9	4	--	--	--	--	--	--
Semitrailer, tractor trailer, trailer truck.....	31	4	--	--	--	25	22	--	--	3	--	--	--
Truck, n.e.c.....	29	12	7	4	--	14	6	--	--	--	--	--	3
Van--passenger or light delivery.....	6	--	--	--	--	6	--	--	--	--	--	--	--
Offroad vehicle, nonindustrial.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Plant and industrial powered vehicles, tractors.....	22	16	13	--	--	6	4	--	--	--	--	--	--
Forklift.....	12	7	5	--	--	5	4	--	--	--	--	--	--
Forklift, unspecified.....	9	7	5	--	--	--	--	--	--	--	--	--	--

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, 2008 - 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
Tractor.....	10	9	8	--	--	--	--	--	--	--	--	--	--
Rail vehicle.....	5	--	--	--	--	--	--	--	--	--	--	--	--
Train.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Water vehicle.....	7	5	5	--	--	--	--	--	--	--	--	--	--
Tugboat, commercial fishing boat.....	5	5	5	--	--	--	--	--	--	--	--	--	--
Other sources.....	88	20	11	--	6	51	27	--	3	7	--	7	6
Ammunition.....	64	7	3	--	--	43	24	--	--	4	--	6	6
Bullets.....	62	7	3	--	--	43	24	--	--	4	--	6	6
Atmospheric and environmental conditions.....	10	8	6	--	--	--	--	--	--	--	--	--	--
Fire, flame, smoke.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Temperature extremes--environmental.....	6	5	4	--	--	--	--	--	--	--	--	--	--
Heat--environmental.....	6	5	4	--	--	--	--	--	--	--	--	--	--
Steam, vapors, liquids, n.e.c.....	8	4	--	--	--	3	--	--	--	--	--	--	--
Liquids.....	7	4	--	--	--	--	--	--	--	--	--	--	--
Water.....	7	4	--	--	--	--	--	--	--	--	--	--	--
Nonclassifiable.....	4	--	--	--	--	3	--	--	--	--	--	--	--
Secondary Source⁴													
Containers.....	4	--	--	--	--	3	3	--	--	--	--	--	--
Containers--nonpressurized.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Machinery.....	14	9	--	5	--	5	--	--	--	--	--	--	--
Material handling machinery.....	6	--	--	--	--	5	--	--	--	--	--	--	--
Jacks.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Parts and materials.....	16	7	--	5	--	7	--	--	--	3	--	--	--
Building materials--solid elements.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Pipes, ducts, tubing.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts.....	8	4	--	4	--	3	--	--	--	--	--	--	--
Electric parts.....	8	4	--	4	--	3	--	--	--	--	--	--	--
Power lines, transformers, convertors.....	4	--	--	--	--	3	--	--	--	--	--	--	--
Vehicle and mobile equipment parts.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals.....	72	16	11	--	5	45	21	--	--	9	--	7	4
Person--other than injured or ill worker.....	53	8	3	--	5	37	20	--	--	3	--	7	4
Person--other than injured or ill worker, unspecified.....	12	--	--	--	--	10	3	--	--	--	--	4	--
Co-worker, former co-worker of injured or ill worker.....	11	--	--	--	--	5	--	--	--	--	--	--	--
Robber.....	14	--	--	--	--	14	12	--	--	--	--	--	--
Person--other than injured or ill worker, n.e.c.....	13	--	--	--	--	5	--	--	--	--	--	--	--
Plants, trees, vegetation--not processed.....	16	7	7	--	--	6	--	--	--	6	--	--	--

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Trees, logs.....	16	7	7	--	--	6	--	--	--	6	--	--	--
Structures and surfaces.....	60	32	5	23	4	25	13	--	4	5	--	--	--
Floors, walkways, ground surfaces.....	11	6	--	4	--	5	3	--	--	--	--	--	--
Other floors, walkways, ground surfaces.....	4	--	--	--	--	3	--	--	--	--	--	--	--
Ramps, runways, loading docks.....	4	--	--	--	--	3	--	--	--	--	--	--	--
Other structural elements.....	22	16	--	14	--	5	--	--	--	--	--	--	--
Roof.....	9	8	--	7	--	--	--	--	--	--	--	--	--
Skylights.....	5	4	--	3	--	--	--	--	--	--	--	--	--
Walls.....	3	--	--	--	--	3	--	--	--	--	--	--	--
Structural elements, n.e.c.....	5	4	--	4	--	--	--	--	--	--	--	--	--
Structures.....	27	10	--	5	3	15	8	--	--	--	--	--	--
Bridges, dams, locks.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Scaffolds, staging.....	4	3	--	3	--	--	--	--	--	--	--	--	--
Scaffolds--staging, unspecified.....	3	--	--	--	--	--	--	--	--	--	--	--	--
Towers, poles.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Other structures.....	8	--	--	--	--	7	3	--	--	--	--	--	--
Guardrails, road dividers.....	6	--	--	--	--	6	--	--	--	--	--	--	--
Tools, instruments, and equipment.....	19	6	--	4	--	9	3	--	--	--	--	--	4
Ladders.....	11	5	--	4	--	6	--	--	--	--	--	--	3
Ladders, unspecified.....	4	--	--	--	--	3	--	--	--	--	--	--	--
Ladders--movable.....	5	4	--	3	--	--	--	--	--	--	--	--	--
Other tools, instruments, and equipment.....	6	--	--	--	--	--	--	--	--	--	--	--	--
Firearms.....	6	--	--	--	--	--	--	--	--	--	--	--	--
Pistol, handgun, revolver.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Vehicles.....	77	29	13	7	9	38	31	--	--	3	--	--	--
Highway vehicle, motorized.....	65	23	12	5	6	34	28	--	--	3	--	--	--
Automobile.....	20	4	--	--	--	10	7	--	--	--	--	--	--
Truck.....	43	18	11	3	4	23	20	--	--	--	--	--	--
Truck, unspecified.....	5	4	--	--	--	--	--	--	--	--	--	--	--
Pickup truck.....	4	--	--	--	--	3	3	--	--	--	--	--	--
Semitrailer, tractor trailer, trailer truck.....	21	6	--	--	3	14	13	--	--	--	--	--	--
Truck, n.e.c.....	13	7	7	--	--	5	3	--	--	--	--	--	--
Plant and industrial powered vehicles, tractors.....	5	4	--	--	--	--	--	--	--	--	--	--	--
Forklift.....	5	4	--	--	--	--	--	--	--	--	--	--	--
Forklift, unspecified.....	4	3	--	--	--	--	--	--	--	--	--	--	--
Rail vehicle.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Train.....	4	--	--	--	--	--	--	--	--	--	--	--	--
Other sources.....	14	7	4	--	--	4	--	--	--	--	--	--	--
Apparel and textiles.....	3	3	--	--	--	--	--	--	--	--	--	--	--
Clothing and shoes.....	3	3	--	--	--	--	--	--	--	--	--	--	--

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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
Blouses, shirts, dresses, trousers, skirts.....	3	3	--	--	--	--	--	--	--	--	--	--	--
Atmospheric and environmental conditions.....	9	4	--	--	--	3	--	--	--	--	--	--	--
Weather and atmospheric conditions.....	8	4	--	--	--	3	--	--	--	--	--	--	--

¹ Classified according to the North American Industry Classification System.

² Includes fatalities at all establishments categorized as Mining (Sector 21) in the North American Industry Classification System, 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 of injury identifies the object, substance, or exposure that directly produced or inflicted the injury. For most transportation incidents, the primary source identifies the vehicle in which the deceased was an occupant. For most falls, the primary source identifies the surface or object contacted.

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 "assailant" is the secondary source. For most falls, the secondary source identifies the equipment or surface from which the worker fell.

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." CFOI fatality counts exclude illness-related deaths unless precipitated by an injury event. Data for all years 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