

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatal injuries and by major private industry¹ sector, California, 2012

Primary source and secondary source ²	Total fatal injuries (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining ³	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	375	119	33	58	28	213	104	7	4	35	18	25	20
Primary Source⁴													
Chemicals and chemical products	8	--	--	--	--	3	--	--	--	--	--	--	--
Chemical products--general	4	--	--	--	--	--	--	--	--	--	--	--	--
Drugs, alcohol, and medicines	3	--	--	--	--	--	--	--	--	--	--	--	--
Containers, furniture, and fixtures	8	3	--	--	--	4	3	--	--	--	--	--	--
Containers	6	--	--	--	--	3	3	--	--	--	--	--	--
Containers--nonpressurized	3	--	--	--	--	--	--	--	--	--	--	--	--
Machinery	16	9	3	5	--	7	3	--	--	4	--	--	--
Agricultural and garden machinery	--	1	1	--	--	--	--	--	--	--	--	--	--
Harvesting and threshing machinery	1	1	1	--	--	--	--	--	--	--	--	--	--
Construction, logging, and mining machinery	10	7	--	4	--	3	--	--	--	3	--	--	--
Excavating machinery	3	3	--	3	--	--	--	--	--	--	--	--	--
Bulldozers	1	1	--	1	--	--	--	--	--	--	--	--	--
Loaders	3	--	--	--	--	--	--	--	--	--	--	--	--
Bucket, front-end, end, and pay loaders	--	--	--	--	--	1	--	--	--	1	--	--	--
Material and personnel handling machinery	4	--	--	--	--	3	3	--	--	--	--	--	--
Elevators, hoists, aerial lifts, personnel platforms--except truck-mounted	3	--	--	--	--	--	--	--	--	--	--	--	--
Parts and materials	14	9	--	3	4	5	--	--	--	--	--	1	--
Building materials--solid elements	6	5	--	--	--	--	--	--	--	--	--	--	--
Bricks, blocks, structural stone	3	3	--	--	--	--	--	--	--	--	--	--	--
Concrete blocks, cinder blocks	3	3	--	--	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts	4	--	--	--	--	--	--	--	--	--	--	--	--
Electric parts	3	--	--	--	--	--	--	--	--	--	--	--	--
Vehicle and mobile equipment parts	3	--	--	--	--	--	--	--	--	--	--	1	--
Tires, inner tubes, wheels	1	--	--	--	--	1	--	--	--	--	--	1	--
Wheels, tire rims	1	--	--	--	--	1	--	--	--	--	--	1	--
Persons, plants, animals, and minerals	99	19	8	5	6	62	19	--	3	12	10	8	8
Animals	6	--	--	--	--	3	--	--	--	--	--	3	--
Mammals, except humans	4	--	--	--	--	--	--	--	--	--	--	--	--
Horses and other equines	3	--	--	--	--	--	--	--	--	--	--	--	--
Infectious and parasitic agents	1	--	--	--	--	--	--	--	--	--	--	--	--
Bacteria	1	--	--	--	--	--	--	--	--	--	--	--	--
Person--injured or ill worker	34	11	--	5	4	16	5	--	--	--	4	--	4
Person--other than injured or ill worker	43	--	--	--	--	33	12	1	3	3	6	4	4
Co-worker or work associate of injured or ill worker	9	--	--	--	--	4	--	--	--	--	--	--	--
Co-worker	6	--	--	--	--	--	--	--	--	--	--	--	--
Other client or customer	6	--	--	--	--	6	--	--	--	--	1	--	2
Assailant, suspect, inmate	25	--	--	--	--	20	11	1	--	--	--	--	--
Robber	14	--	--	--	--	14	9	--	--	1	--	--	--
Plants, trees, vegetation--not processed	14	4	4	--	--	9	--	--	--	7	--	--	--
Trees, logs, limbs	14	4	4	--	--	9	--	--	--	7	--	--	--
Trees	11	4	4	--	--	6	--	--	--	6	--	--	--
Structures and surfaces	53	28	3	21	4	25	8	--	--	4	--	5	3
Confined spaces	5	3	--	3	--	--	--	--	--	--	--	--	--
Ditches, channels, trenches, excavations	3	3	--	3	--	--	--	--	--	--	--	--	--

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatal injuries and by major private industry¹ sector, California, 2012

Primary source and secondary source ²	Total fatal injuries (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining ³	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
Buildings--office, plant, residential	3	3	--	--	--	--	--	--	--	--	--	--	--
Structures other than buildings	10	7	--	6	--	3	--	--	--	--	--	--	--
Scaffolds, staging	6	5	--	5	--	--	--	--	--	--	--	--	--
Scaffolds--improvised staging	4	3	--	3	--	--	--	--	--	--	--	--	--
Other structural elements	13	10	--	9	--	3	--	--	--	--	--	--	--
Roofs	7	5	--	4	--	--	--	--	--	--	--	--	--
Floors, walkways, ground surfaces	22	5	--	--	--	17	8	--	--	--	--	4	--
Stairs, steps, escalators	5	--	--	--	--	3	--	--	--	--	--	--	--
Stairs, steps--indoors	3	--	--	--	--	--	--	--	--	--	--	--	--
Floors	11	--	--	--	--	9	4	--	--	--	--	3	--
Tools, instruments, and equipment	10	4	--	3	--	6	3	--	--	--	--	--	--
Ladders	9	3	--	3	--	6	3	--	--	--	--	--	--
Movable--ladders	6	--	--	--	--	4	--	--	--	--	--	--	--
Vehicles	156	38	15	15	8	98	64	3	--	11	4	8	8
Aircraft	14	1	1	--	--	6	1	--	--	--	3	--	1
Airplanes--powered fixed wing	6	1	1	--	--	5	1	--	--	--	2	--	1
Airplane--jet or turbine engine	2	--	--	--	--	2	1	--	--	--	1	--	--
Airplane--propeller-driven or piston engine	4	1	1	--	--	3	--	--	--	--	1	--	1
Aircraft--powered rotary wing	8	--	--	--	--	--	--	--	--	--	--	--	--
Helicopter	8	--	--	--	--	--	--	--	--	--	--	--	--
Water vehicle	3	--	--	--	--	--	--	--	--	--	--	--	--
Highway vehicles, motorized	118	25	6	12	7	81	59	--	--	9	--	3	7
Passenger vehicle--automobiles, buses, and passenger vans	33	5	--	3	--	20	11	1	--	--	--	--	4
Automobile	21	4	--	3	--	13	7	1	--	--	--	--	3
Bus	5	--	--	--	--	--	--	--	--	--	--	--	--
Trucks--motorized freight hauling and utility	63	9	--	4	4	54	46	--	--	5	--	--	--
Semi, tractor-trailer, tanker truck	40	5	--	4	--	35	34	--	--	--	--	--	--
Delivery truck or van	7	--	--	--	--	6	3	--	--	--	--	--	--
Tow truck	3	--	--	--	--	3	--	--	--	--	--	--	--
Multi-purpose highway vehicles	20	11	3	5	3	5	--	--	--	--	--	--	--
Pickup truck	16	8	3	--	3	4	--	--	--	--	--	--	--
SUV, sports utility vehicle	4	--	--	--	--	--	--	--	--	--	--	--	--
Off-road or industrial vehicles--powered	18	9	6	3	--	9	4	--	--	--	--	5	--
Off-road passenger vehicles--powered	7	3	--	--	--	4	--	--	--	--	--	4	--
ATV, all terrain vehicle	3	3	--	--	--	--	--	--	--	--	--	--	--
Golf cart, personnel transport cart	3	--	--	--	--	3	--	--	--	--	--	3	--
Industrial vehicles, material hauling and transport--powered	4	--	--	--	--	--	--	--	--	--	--	--	--
Forklift, order picker, platform truck--powered	4	--	--	--	--	--	--	--	--	--	--	--	--
Tractors, PTOs	7	4	3	--	--	3	--	--	--	--	--	--	--
Farm tractor	3	--	--	--	--	--	--	--	--	--	--	--	--
Other sources	11	6	--	--	3	3	--	--	--	--	--	--	--
Environmental and elemental conditions	5	3	--	--	--	--	--	--	--	--	--	--	--
Temperature extremes--environmental	4	3	--	--	--	--	--	--	--	--	--	--	--
Heat--environmental	4	3	--	--	--	--	--	--	--	--	--	--	--
Secondary Source⁵													
Chemicals and chemical products	11	3	--	--	--	7	3	--	--	--	3	--	--
Other chemicals	4	--	--	--	--	3	--	--	--	--	--	--	--
Oxygen and oxygen compounds	3	--	--	--	--	3	--	--	--	--	--	--	--

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Chemical products--general	5	--	--	--	--	4	--	--	--	--	--	--	--
Drugs, alcohol, and medicines	4	--	--	--	--	3	--	--	--	--	--	--	--
Containers, furniture, and fixtures	4	--	--	--	--	--	--	--	--	--	--	--	--
Containers	4	--	--	--	--	--	--	--	--	--	--	--	--
Containers--nonpressurized	4	--	--	--	--	--	--	--	--	--	--	--	--
Machinery	15	10	--	7	--	5	--	--	--	--	--	--	3
Construction, logging, and mining machinery	5	4	--	3	--	--	--	--	--	--	--	--	--
Excavating machinery	4	3	--	--	--	--	--	--	--	--	--	--	--
Backhoes, trackhoes	3	--	--	--	--	--	--	--	--	--	--	--	--
Material and personnel handling machinery	5	--	--	--	--	4	--	--	--	--	--	--	3
Jacks	3	--	--	--	--	--	--	--	--	--	--	--	--
Parts and materials	24	10	3	3	4	12	4	--	--	3	--	--	3
Building materials--solid elements	3	--	--	--	--	--	--	--	--	--	--	--	--
Fasteners, connectors, ropes, ties	14	6	--	3	--	6	--	--	--	--	--	--	--
Ropes, ties, chains	14	6	--	3	--	6	--	--	--	--	--	--	--
Rope, twine, string	10	6	--	3	--	3	--	--	--	--	--	--	--
Strapping	3	--	--	--	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts	3	--	--	--	--	--	--	--	--	--	--	--	--
Vehicle and mobile equipment parts	3	--	--	--	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals	9	--	--	--	--	8	4	--	--	--	--	--	--
Plants, trees, vegetation--not processed	8	--	--	--	--	7	3	--	--	--	--	--	--
Trees, logs, limbs	8	--	--	--	--	7	3	--	--	--	--	--	--
Trees	7	--	--	--	--	7	3	--	--	--	--	--	--
Structures and surfaces	30	3	1	--	--	25	18	--	--	--	2	--	1
Buildings--office, plant, residential	3	--	--	--	--	1	--	--	--	--	--	--	1
Industrial buildings	--	--	--	--	--	1	--	--	--	--	--	--	1
Structures other than buildings	13	--	--	--	--	13	10	--	--	--	--	--	--
Towers, poles	4	--	--	--	--	4	3	1	--	--	--	--	--
Utility and telephone poles	3	--	--	--	--	3	--	1	--	--	--	--	--
Other structures	7	--	--	--	--	7	5	--	--	--	--	--	--
Guardrails, road dividers	6	--	--	--	--	6	5	--	--	--	--	--	--
Other structural elements	3	--	--	--	--	3	--	--	--	--	--	--	--
Ceilings, walls	3	--	--	--	--	3	--	--	--	--	--	--	--
Walls	3	--	--	--	--	3	--	--	--	--	--	--	--
Floors, walkways, ground surfaces	6	1	1	--	--	5	3	--	--	--	2	--	--
Ground	3	1	1	--	--	2	--	--	--	--	2	--	--
Geographical structures	--	--	--	--	--	1	1	--	--	--	--	--	--
Raised natural structures, hills, mountains	--	--	--	--	--	1	1	--	--	--	--	--	--
Mountains	--	--	--	--	--	1	1	--	--	--	--	--	--
Tools, instruments, and equipment	49	8	--	--	6	32	12	1	3	3	7	1	5
Handtools--nonpowered	5	--	--	--	--	5	--	--	--	--	--	--	--
Cutting handtools--nonpowered	4	--	--	--	--	4	--	--	--	--	--	--	--
Knives, unspecified or n.e.c.	4	--	--	--	--	4	--	--	--	--	--	--	--
Firearms, law enforcement, and other self-defense equipment	40	5	--	--	--	26	12	1	--	--	4	1	5
Firearms	40	5	--	--	--	26	12	1	--	--	4	1	5
Pistol, handgun, revolver	24	--	--	--	--	16	7	--	--	--	--	1	5
Rifle, shotgun	7	--	--	--	--	3	--	--	--	--	--	--	--
Vehicles	67	15	6	7	--	38	27	--	--	7	--	--	--
Aircraft	8	--	--	--	--	--	--	--	--	--	--	--	--
Aircraft--powered rotary wing	7	--	--	--	--	--	--	--	--	--	--	--	--

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		Total goods producing	Natural resources and mining ³	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
Helicopter	7	--	--	--	--	--	--	--	--	--	--	--	--
Rail vehicles	3	--	--	--	--	--	--	--	--	--	--	--	--
Train, locomotive, rail car	3	--	--	--	--	--	--	--	--	--	--	--	--
Highway vehicles, motorized	52	14	5	7	--	32	22	--	--	6	--	--	--
Passenger vehicle--automobiles, buses, and passenger vans	13	--	--	--	--	8	4	--	--	--	--	--	--
Automobile	10	1	--	1	--	6	3	--	--	--	--	--	--
Trucks--motorized freight hauling and utility	21	6	--	3	--	13	12	--	--	--	--	--	--
Semi, tractor-trailer, tanker truck	17	4	--	--	--	12	11	--	--	--	--	--	--
Multi-purpose highway vehicles	17	6	4	--	--	11	6	--	--	--	--	1	--
Pickup truck	8	3	3	--	--	5	3	--	--	--	--	1	--
SUV, sports utility vehicle	9	--	--	--	--	6	3	--	--	--	--	--	--
Other sources	10	4	--	--	--	3	--	--	--	--	--	--	--
Apparel and textiles	3	--	--	--	--	--	--	--	--	--	--	--	--
Clothing and shoes	3	--	--	--	--	--	--	--	--	--	--	--	--
Environmental and elemental conditions	5	--	--	--	--	--	--	--	--	--	--	--	--
Weather and atmospheric conditions	4	--	--	--	--	--	--	--	--	--	--	--	--

¹ Industry data are based on the North American Industry Classification System, 2007.

² Based on the BLS Occupational Injury and Illness Classification System (OIICS) 2.01 implemented for 2011 data forward.

³ Includes fatal injuries 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.

⁴ The primary source of a fatal occupational injury is the object, substance, person, bodily motion, or exposure which most directly led to, produced, or inflicted the injury or illness.

⁵ The secondary source of a fatal occupational injury is the object, substance, person, or exposure, other than the source, if any, which most actively generated the source or contributed to the injury or illness.

NOTE: Data for all years are revised and final. 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 fatal injury counts exclude illness-related deaths unless precipitated by an injury event.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with state, New York City, District of Columbia, and federal agencies, Census of Fatal Occupational Injuries, April 25, 2014