

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatal injuries and by major private industry¹ sector, California, 2015

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	Educational and health services	Leisure and hospitality	Other services
Total	388	149	56	75	18	187	71	3	--	54	21	22	14
Primary Source⁴													
Chemicals and chemical products	20	4	--	--	--	16	6	--	--	7	--	--	1
Chemical products--general	17	4	--	--	--	13	6	--	--	4	--	--	1
Drugs, alcohol, and medicines	16	4	--	--	--	12	6	--	--	4	--	--	--
Drugs--nonmedicinal	14	3	--	--	--	11	6	--	--	3	--	--	--
Explosives, blasting agents	1	--	--	--	--	1	--	--	--	--	--	--	1
Pyrotechnics, fireworks	1	--	--	--	--	1	--	--	--	--	--	--	1
Containers, furniture, and fixtures	8	3	--	--	--	4	--	--	--	--	--	--	--
Containers	6	--	--	--	--	3	--	--	--	--	--	--	--
Machinery	22	14	5	7	--	8	3	--	--	3	--	--	--
Agricultural and garden machinery	7	4	4	--	--	3	--	--	--	--	--	--	--
Harvesting and threshing machinery	4	3	3	--	--	--	--	--	--	--	--	--	--
Construction, logging, and mining machinery	5	3	--	3	--	--	--	--	--	--	--	--	--
Material and personnel handling machinery	9	7	--	4	--	--	--	--	--	--	--	--	--
Elevators, hoists, aerial lifts, personnel platforms--except truck-mounted	5	4	--	3	--	--	--	--	--	--	--	--	--
Parts and materials	18	12	--	9	--	4	3	--	--	--	--	--	--
Building materials--solid elements	8	6	--	4	--	--	--	--	--	--	--	--	--
Pipes, ducts, tubing	4	3	--	--	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts	7	4	--	4	--	--	--	--	--	--	--	--	--
Electric parts	4	3	--	3	--	--	--	--	--	--	--	--	--
Machine and appliance parts	3	--	--	--	--	--	--	--	--	--	--	--	--
Drums, pulleys, sheaves	3	--	--	--	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals	94	14	8	3	3	55	10	--	--	17	6	15	4
Person--injured or ill worker	31	6	--	--	3	19	3	--	--	7	--	3	3
Bodily motion or position of injured, ill worker	3	--	--	--	--	--	--	--	--	--	--	--	--
Person--other than injured or ill worker	47	5	--	--	--	26	5	--	--	3	3	12	--
Relative or domestic partner of injured or ill worker	3	--	--	--	--	--	--	--	--	--	--	--	--
Spouse or domestic partner of injured or ill worker	3	--	--	--	--	--	--	--	--	--	--	--	--
Co-worker or work associate of injured or ill worker	18	--	--	--	--	3	--	--	1	--	1	--	--
Co-worker	16	--	--	--	--	--	--	--	--	--	--	--	--
Work associate	2	--	--	--	--	2	--	--	1	--	1	--	--
Other client or customer	3	--	--	--	--	3	--	--	--	--	--	--	--
Assailant, suspect, inmate	17	--	--	--	--	14	5	--	--	3	--	6	--
Robber	11	--	--	--	--	10	4	--	--	--	--	5	--
Plants, trees, vegetation--not processed	13	--	--	--	--	8	--	--	--	7	--	--	--
Trees, logs, limbs	12	1	1	--	--	8	--	--	--	7	--	--	--
Trees	9	1	1	--	--	6	--	--	--	6	--	--	--
Structures and surfaces	47	29	--	28	--	17	5	--	--	6	--	--	--
Structures other than buildings	14	9	--	9	--	5	--	--	--	--	--	--	--
Scaffolds, staging	8	7	--	7	--	--	--	--	--	--	--	--	--
Scaffolds--self-supporting staging	3	3	--	3	--	--	--	--	--	--	--	--	--
Other structural elements	16	14	--	14	--	--	--	--	--	--	--	--	--
Roofs	13	11	--	11	--	--	--	--	--	--	--	--	--
Roof edges	3	--	--	--	--	--	--	--	--	--	--	--	--
Floors, walkways, ground surfaces	14	5	--	4	--	8	4	--	--	--	--	--	--

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatal injuries and by major private industry¹ sector, California, 2015

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	Educational and health services	Leisure and hospitality	Other services
Floors	9	4	--	3	--	5	--	--	--	--	--	--	--
Tools, instruments, and equipment	17	10	--	8	--	5	--	--	--	3	--	--	--
Ladders	15	8	--	6	--	5	--	--	--	3	--	--	--
Movable--ladders	12	5	--	4	--	5	--	--	--	3	--	--	--
Extension ladders	3	--	--	--	--	--	--	--	--	--	--	--	--
Step ladders	3	3	--	3	--	--	--	--	--	--	--	--	--
Vehicles	157	59	36	15	8	77	40	--	--	15	13	5	4
Aircraft	23	3	3	--	--	12	--	--	--	--	7	--	--
Aircraft--powered fixed wing	11	--	--	--	--	6	--	--	--	--	--	--	--
Airplane--propeller-driven or piston engine	7	--	--	--	--	6	--	--	--	--	--	--	--
Aircraft--powered rotary wing	8	--	--	--	--	--	--	--	--	--	--	--	--
Helicopter	8	--	--	--	--	--	--	--	--	--	--	--	--
Aircraft--nonpowered	4	--	--	--	--	3	--	--	--	--	--	--	--
Parachute	4	--	--	--	--	3	--	--	--	--	--	--	--
Water vehicle	--	--	--	--	--	1	--	--	--	1	--	--	--
Motorboat, motorized yacht	1	--	--	--	--	1	--	--	--	1	--	--	--
Highway vehicles, motorized	100	35	18	13	4	56	34	--	--	11	6	--	3
Passenger vehicle--automobiles, buses, and passenger vans	38	15	13	--	--	17	7	--	--	--	5	--	--
Ambulance, police, and other emergency passenger vehicle	3	--	--	--	--	--	--	--	--	--	--	--	--
Automobile	15	3	--	--	--	10	4	--	--	--	3	--	--
Passenger van	16	12	12	--	--	3	--	--	--	--	--	--	--
Trucks--motorized freight hauling and utility	44	12	--	6	4	30	23	--	--	5	--	--	--
Semi, tractor-trailer, tanker truck	23	5	--	--	--	18	17	--	--	--	--	--	--
Dump truck	5	--	--	--	--	3	--	--	--	--	--	--	--
Garbage, recycling, or refuse truck	3	--	--	--	--	--	--	--	--	--	--	--	--
Delivery truck or van	9	--	--	--	--	6	4	--	--	--	--	--	--
Multi-purpose highway vehicles	18	8	--	5	--	9	4	--	--	4	--	--	--
Pickup truck	12	4	--	4	--	7	4	--	--	3	--	--	--
SUV, sports utility vehicle	6	--	--	--	--	--	--	--	--	--	--	--	--
Off-road or industrial vehicles--powered	26	19	14	--	4	7	4	--	--	--	--	--	--
Off-road passenger vehicles--powered	11	6	5	--	--	5	--	--	--	--	--	--	--
ATV, all terrain vehicle	6	6	5	--	--	--	--	--	--	--	--	--	--
Golf cart, personnel transport cart	4	--	--	--	--	4	--	--	--	--	--	--	--
Industrial vehicles, material hauling and transport--powered	5	4	--	--	3	--	--	--	--	--	--	--	--
Forklift, order picker, platform truck--powered	5	4	--	--	3	--	--	--	--	--	--	--	--
Tractors, PTOs	10	9	9	--	--	--	--	--	--	--	--	--	--
Farm tractor	9	8	8	--	--	--	--	--	--	--	--	--	--
Other vehicles	4	--	--	--	--	--	--	--	--	--	--	--	--
Other sources	5	4	--	3	--	--	--	--	--	--	--	--	--
Environmental and elemental conditions	4	4	--	3	--	--	--	--	--	--	--	--	--
Temperature extremes--environmental	3	3	--	--	--	--	--	--	--	--	--	--	--
Heat--environmental	3	3	--	--	--	--	--	--	--	--	--	--	--
Secondary Source⁵													
Machinery	8	6	3	--	--	--	--	--	--	--	--	--	--
Construction, logging, and mining machinery	3	--	--	--	--	--	--	--	--	--	--	--	--
Material and personnel handling machinery	3	--	--	--	--	--	--	--	--	--	--	--	--
Jacks	3	--	--	--	--	--	--	--	--	--	--	--	--

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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	Educational and health services	Leisure and hospitality	Other services
Parts and materials	22	12	--	8	--	8	3	--	--	3	--	--	--
Building materials--solid elements	4	4	--	4	--	--	--	--	--	--	--	--	--
Fasteners, connectors, ropes, ties	7	--	--	--	--	5	--	--	--	--	--	--	--
Ropes, ties, chains	6	--	--	--	--	4	--	--	--	--	--	--	--
Rope, twine, string	3	--	--	--	--	--	--	--	--	--	--	--	--
Hoisting accessories	1	--	--	--	--	--	--	--	--	--	--	--	--
Slings	1	--	--	--	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts	9	5	--	4	--	3	--	--	--	--	--	--	--
Electric parts	9	5	--	4	--	3	--	--	--	--	--	--	--
Power lines, transformers, convertors	5	3	--	--	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals	11	4	3	--	--	4	--	--	--	--	--	--	--
Animals	1	--	--	--	--	--	--	--	--	--	--	--	--
Mammals, except humans	1	--	--	--	--	--	--	--	--	--	--	--	--
Dogs, canines--domestic	1	--	--	--	--	--	--	--	--	--	--	--	--
Plants, trees, vegetation--not processed	10	4	3	--	--	4	--	--	--	--	--	--	--
Trees, logs, limbs	9	3	--	--	--	4	--	--	--	--	--	--	--
Trees	9	3	--	--	--	4	--	--	--	--	--	--	--
Structures and surfaces	39	7	4	--	--	26	9	--	--	5	8	--	3
Buildings--office, plant, residential	4	--	--	--	--	4	--	--	--	--	--	--	--
Structures other than buildings	9	--	--	--	--	8	4	--	--	--	--	--	3
Other structures	7	--	--	--	--	6	4	--	--	--	--	--	--
Guardrails, road dividers	4	--	--	--	--	4	3	--	--	--	--	--	--
Other structural elements	7	--	--	--	--	3	--	--	--	--	--	--	--
Ceilings, walls	4	--	--	--	--	--	--	--	--	--	--	--	--
Walls	3	--	--	--	--	--	--	--	--	--	--	--	--
Floors, walkways, ground surfaces	16	3	--	--	--	11	3	--	--	--	6	--	--
Ground	13	--	--	--	--	9	--	--	--	--	5	--	--
Geographical structures	2	--	--	--	--	--	--	--	--	--	--	--	--
Raised natural structures, hills, mountains	2	--	--	--	--	--	--	--	--	--	--	--	--
Hills	1	--	--	--	--	--	--	--	--	--	--	--	--
Mountains	1	--	--	--	--	--	--	--	--	--	--	--	--
Tools, instruments, and equipment	72	14	7	5	--	38	6	--	--	9	6	11	3
Handtools--nonpowered	--	--	--	--	--	--	--	--	--	--	--	1	--
Handtools--powered	8	4	--	--	--	4	--	--	--	4	--	--	--
Cutting handtools--powered	3	--	--	--	--	3	--	--	--	3	--	--	--
Medical and surgical instruments and equipment	3	--	--	--	--	3	--	--	--	--	--	--	--
Medical sharps instruments	3	--	--	--	--	3	--	--	--	--	--	--	--
Needles, syringes	3	--	--	--	--	3	--	--	--	--	--	--	--
Firearms, law enforcement, and other self-defense equipment	55	7	5	--	--	28	4	--	--	4	4	10	3
Firearms	55	7	5	--	--	28	4	--	--	4	4	10	3
Pistol, handgun, revolver	24	4	--	--	--	16	--	--	--	--	--	6	--
Rifle, shotgun	18	--	--	--	--	--	--	--	--	--	--	--	--
Vehicles	61	23	15	6	--	30	18	--	--	4	5	--	--
Aircraft	5	--	--	--	--	--	--	--	--	--	--	--	--
Airplanes--powered fixed wing	5	--	--	--	--	--	--	--	--	--	--	--	--
Airplane--propeller-driven or piston engine	5	--	--	--	--	--	--	--	--	--	--	--	--
Highway vehicles, motorized	50	22	15	5	--	24	15	--	--	3	4	--	--
Passenger vehicle--automobiles, buses, and passenger vans	15	--	--	--	--	10	5	--	--	--	--	--	--
Automobile	10	--	--	--	--	5	3	--	--	--	--	--	--
Bus	1	--	--	--	--	--	--	--	--	--	--	--	--

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Trucks--motorized freight hauling and utility	24	14	9	3	--	10	6	--	--	--	--	--	--
Semi, tractor-trailer, tanker truck	15	9	5	3	--	6	4	--	--	--	--	--	--
Delivery truck or van	3	--	--	--	--	--	--	--	--	--	--	--	--
Multi-purpose highway vehicles	11	6	5	--	--	4	4	--	--	--	--	--	--
Pickup truck	10	6	5	--	--	3	3	--	--	--	--	--	--
Off-road or industrial vehicles--powered	4	--	--	--	--	3	--	--	--	--	--	--	--
Industrial vehicles, material hauling and transport--powered	3	--	--	--	--	--	--	--	--	--	--	--	--
Other sources	8	5	3	--	--	--	--	--	--	--	--	--	--
Apparel and textiles	3	--	--	--	--	--	--	--	--	--	--	--	--
Clothing and shoes	3	--	--	--	--	--	--	--	--	--	--	--	--
Environmental and elemental conditions	3	3	--	--	--	--	--	--	--	--	--	--	--

¹ CFOI has used several versions of the North American Industry Classification System (NAICS) since 2003 to define industry. For more information on the version of NAICS used in this year, see our definitions page at <http://www.bls.gov/iif/oshcfdef.htm>.

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, December 15, 2016