

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatal injuries and by major private industry<sup>1</sup> sector, California, 2013

Primary source and secondary source <sup>2</sup>	Total fatal injuries (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining <sup>3</sup>	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	396	129	33	61	35	221	119	4	4	50	13	19	12
<b>Primary Source<sup>4</sup></b>													
<b>Chemicals and chemical products</b>	16	3	--	--	--	11	7	--	--	--	--	--	--
Coal, natural gas, petroleum fuels and products	1	--	--	--	--	1	1	--	--	--	--	--	--
Petroleum fuels, distillates, and products, n.e.c.	1	--	--	--	--	1	1	--	--	--	--	--	--
Paving asphalt, asphaltic cement	1	--	--	--	--	1	1	--	--	--	--	--	--
Chemical products--general	13	3	--	--	--	8	5	--	--	--	--	--	--
Drugs, alcohol, and medicines	13	3	--	--	--	8	5	--	--	--	--	--	--
Drugs--nonmedicinal	9	--	--	--	--	7	5	--	--	--	--	--	--
<b>Containers, furniture, and fixtures</b>	7	5	--	--	3	--	--	--	--	--	--	--	--
Containers	6	4	--	--	--	--	--	--	--	--	--	--	--
Containers--nonpressurized	3	--	--	--	--	--	--	--	--	--	--	--	--
Containers--variable restraint	3	--	--	--	--	--	--	--	--	--	--	--	--
Bundles, bales	3	--	--	--	--	--	--	--	--	--	--	--	--
<b>Machinery</b>	24	15	3	6	6	8	3	--	--	4	--	--	--
Construction, logging, and mining machinery	10	6	--	4	--	3	--	--	--	3	--	--	--
Excavating machinery	3	--	--	--	--	--	--	--	--	--	--	--	--
Other construction, logging, and mining machinery	3	--	--	--	--	--	--	--	--	--	--	--	--
Material and personnel handling machinery	9	7	--	--	5	--	--	--	--	--	--	--	--
Conveyors--powered	3	3	--	--	3	--	--	--	--	--	--	--	--
Elevators, hoists, aerial lifts, personnel platforms--except truck-mounted	3	3	--	--	--	--	--	--	--	--	--	--	--
Other material and personnel handling machinery	--	1	--	--	1	--	--	--	--	--	--	--	--
Stacking machinery	1	1	--	--	1	--	--	--	--	--	--	--	--
<b>Parts and materials</b>	17	9	--	6	--	8	5	--	--	3	--	--	--
Building materials--solid elements	6	3	--	--	--	3	--	--	--	--	--	--	--
Structural metal materials	3	3	--	--	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts	7	6	--	4	--	--	--	--	--	--	--	--	--
Electric parts	6	5	--	4	--	--	--	--	--	--	--	--	--
<b>Persons, plants, animals, and minerals</b>	101	23	9	9	5	60	27	--	2	14	6	9	--
Animals	3	--	--	--	--	--	--	--	--	--	--	--	--
Person--injured or ill worker	33	10	--	4	4	15	10	--	--	--	--	--	--
Person--other than injured or ill worker	45	6	--	4	--	32	17	--	2	3	4	4	--
Co-worker or work associate of injured or ill worker	6	--	--	--	--	2	1	--	--	1	--	--	--
Co-worker	3	--	--	--	--	1	1	--	--	--	--	--	--
Former co-worker	3	--	--	--	--	1	--	--	--	1	--	--	--
Other client or customer	6	--	--	--	--	6	--	--	1	--	1	--	--
Assailant, suspect, inmate	22	3	--	--	--	15	9	--	1	--	1	--	--
Robber	12	3	--	--	--	9	5	--	1	--	--	--	--
Plants, trees, vegetation--not processed	18	5	4	--	--	12	--	--	--	10	--	--	--
Trees, logs, limbs	18	5	4	--	--	12	--	--	--	10	--	--	--
Trees	11	--	--	--	--	9	--	--	--	8	--	--	--
Limbs, branches--unattached	6	--	1	--	--	3	--	--	--	--	--	--	--
<b>Structures and surfaces</b>	42	18	--	13	3	22	8	--	--	7	3	3	--
Structures other than buildings	12	--	--	--	--	9	4	--	--	5	--	--	--
Pools	5	--	--	--	--	5	--	--	--	5	--	--	--
Other structural elements	16	11	--	9	--	5	3	--	--	--	--	--	--

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Primary source and secondary source <sup>2</sup>	Total fatal injuries (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining <sup>3</sup>	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
Roofs	12	10	--	9	--	--	--	--	--	--	--	--	--
Skylights	4	3	--	--	--	--	--	--	--	--	--	--	--
Floors, walkways, ground surfaces	9	--	--	--	--	6	--	--	--	--	3	--	--
Floors	3	--	--	--	--	--	--	--	--	--	--	--	--
<b>Tools, instruments, and equipment</b>	21	11	--	10	--	5	--	--	--	--	--	--	--
Ladders	13	9	--	8	--	3	--	--	--	--	--	--	--
Ladders--fixed	3	--	--	--	--	--	--	--	--	--	--	--	--
Movable--ladders	9	7	--	6	--	--	--	--	--	--	--	--	--
Extension ladders	3	3	--	3	--	--	--	--	--	--	--	--	--
<b>Vehicles</b>	156	38	11	12	15	102	66	--	--	18	3	5	5
Aircraft	13	6	--	--	--	6	--	--	--	--	--	--	--
Airplanes--powered fixed wing	7	5	--	--	--	--	--	--	--	--	--	--	--
Airplane--propeller-driven or piston engine	7	5	--	--	--	--	--	--	--	--	--	--	--
Aircraft--powered rotary wing	5	--	--	--	--	--	--	--	--	--	--	--	--
Helicopter	5	--	--	--	--	--	--	--	--	--	--	--	--
Water vehicle	4	--	--	--	--	3	--	--	--	--	--	--	--
Highway vehicles, motorized	108	17	4	6	7	80	55	--	--	12	3	3	4
Passenger vehicle--automobiles, buses, and passenger vans	29	4	--	--	--	16	8	--	--	3	--	--	--
Ambulance, police, and other emergency passenger vehicle	4	--	--	--	--	--	--	--	--	--	--	--	--
Automobile	19	3	--	--	--	14	8	--	--	3	--	--	--
Bus	3	--	--	--	--	--	--	--	--	--	--	--	--
Motorcycle, moped, dirt bike	3	--	--	--	--	--	--	--	--	--	--	--	--
Trucks--motorized freight hauling and utility	57	9	--	3	4	47	42	--	--	3	--	--	--
Semi, tractor-trailer, tanker truck	41	4	--	--	3	37	37	--	--	--	--	--	--
Dump truck	4	--	--	--	--	--	--	--	--	--	--	--	--
Delivery truck or van	5	--	--	--	--	4	--	--	--	--	--	--	--
Multi-purpose highway vehicles	19	4	--	--	1	14	--	--	--	6	--	--	--
Pickup truck	15	4	--	--	1	10	--	--	--	6	--	--	--
SUV, sports utility vehicle	3	--	--	--	--	3	--	--	--	--	--	--	--
Off-road or industrial vehicles--powered	26	14	6	--	6	11	7	--	--	3	--	1	--
Off-road passenger vehicles--powered	4	--	--	--	--	--	--	--	--	--	--	1	--
ATV, all terrain vehicle	3	--	--	--	--	--	--	--	--	--	--	--	--
Racecar	1	--	--	--	--	1	--	--	--	--	--	1	--
Industrial vehicles, material hauling and transport--powered	17	7	--	--	5	9	6	--	--	3	--	--	--
Forklift, order picker, platform truck--powered	15	7	--	--	5	8	6	--	--	--	--	--	--
Tractors, PTOs	5	5	4	--	--	--	--	--	--	--	--	--	--
Farm tractor	5	5	4	--	--	--	--	--	--	--	--	--	--
Other vehicles	2	--	--	--	--	--	--	--	--	--	--	--	--
Tank	2	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other sources</b>	12	7	--	4	--	3	--	--	--	--	--	--	--
Environmental and elemental conditions	3	--	1	--	--	--	--	--	--	--	--	--	--
Temperature extremes--environmental	3	--	1	--	--	--	--	--	--	--	--	--	--
Heat--environmental	3	--	1	--	--	--	--	--	--	--	--	--	--
Other steam, vapors, liquids, ice	3	--	--	--	--	--	--	--	--	--	--	--	--
Liquids--nonchemical	3	--	--	--	--	--	--	--	--	--	--	--	--
Water	3	--	--	--	--	--	--	--	--	--	--	--	--
<b>Secondary Source<sup>5</sup></b>													

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Primary source and secondary source <sup>2</sup>	Total fatal injuries (number)	Goods producing				Service providing							
		Total goods producing	Natural resources and mining <sup>3</sup>	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
<b>Chemicals and chemical products</b>	5	--	--	--	--	--	--	--	--	--	--	--	--
Chemical products--general	4	--	--	--	--	--	--	--	--	--	--	--	--
Drugs, alcohol, and medicines	4	--	--	--	--	--	--	--	--	--	--	--	--
<b>Containers, furniture, and fixtures</b>	9	5	--	--	4	4	3	--	--	--	--	--	--
Containers	8	4	--	--	4	4	3	--	--	--	--	--	--
Skids, pallets	--	1	--	--	1	--	--	--	--	--	--	--	--
<b>Machinery</b>	7	5	--	3	--	--	--	--	--	--	--	--	--
Material and personnel handling machinery	4	3	--	--	--	--	--	--	--	--	--	--	--
<b>Parts and materials</b>	23	7	--	3	3	15	8	--	--	6	--	--	--
Fasteners, connectors, ropes, ties	9	3	--	--	--	6	4	--	--	--	--	--	--
Ropes, ties, chains	9	3	--	--	--	6	4	--	--	--	--	--	--
Rope, twine, string	7	3	--	--	--	4	3	--	--	--	--	--	--
Machine, tool, and electric parts	8	--	--	--	--	7	3	--	--	4	--	--	--
Electric parts	8	--	--	--	--	7	3	--	--	4	--	--	--
Power lines, transformers, convertors	5	--	--	--	--	5	--	--	--	4	--	--	--
Tarps and sheeting--nonmetal	1	--	--	--	--	--	--	--	--	--	--	--	--
Tarps, plastic or fabric sheeting	1	--	--	--	--	--	--	--	--	--	--	--	--
<b>Persons, plants, animals, and minerals</b>	11	5	3	--	--	5	--	--	--	--	--	--	--
Nonmetallic minerals, except fuel	4	--	1	--	--	--	--	--	--	--	--	--	--
Boulders	3	--	--	--	--	--	--	--	--	--	--	--	--
Dirt, earth	1	1	1	--	--	--	--	--	--	--	--	--	--
Plants, trees, vegetation--not processed	7	3	--	--	--	4	1	--	--	--	--	--	--
Trees, logs, limbs	7	3	--	--	--	4	1	--	--	--	--	--	--
Trees	7	3	--	--	--	4	1	--	--	--	--	--	--
<b>Structures and surfaces</b>	49	14	4	4	6	32	21	--	--	6	1	--	--
Confined spaces	3	--	--	--	--	--	--	--	--	--	--	--	--
Structures other than buildings	22	5	--	--	--	16	10	--	--	5	--	--	--
Bridges, dams, locks	3	--	--	--	--	2	2	--	--	--	--	--	--
Other structures	16	3	--	--	--	12	7	--	--	4	--	--	--
Guardrails, road dividers	12	--	--	--	--	10	6	--	--	4	--	--	--
Other structural elements	5	--	--	--	--	--	--	--	--	--	1	--	--
Ceilings, walls	--	--	--	--	--	--	--	--	--	--	1	--	--
Walls	--	--	--	--	--	--	--	--	--	--	1	--	--
Floors, walkways, ground surfaces	15	6	--	--	3	8	7	--	--	--	--	--	--
Ground	8	5	--	--	--	--	--	--	--	--	--	--	--
Other floors, walkways, ground surfaces	6	--	--	--	--	5	5	--	--	--	--	--	--
Ramps, loading docks, dock plates	6	--	--	--	--	5	5	--	--	--	--	--	--
<b>Tools, instruments, and equipment</b>	51	9	3	3	3	31	16	2	3	3	3	5	--
Handtools--nonpowered	6	--	--	--	--	6	4	--	--	--	--	--	--
Cutting handtools--nonpowered	6	--	--	--	--	6	4	--	--	--	--	--	--
Knives, unspecified or n.e.c.	5	--	--	--	--	5	3	--	--	--	--	--	--
Firearms, law enforcement, and other self-defense equipment	45	9	3	3	3	25	12	2	--	--	--	5	--
Firearms	45	9	3	3	3	25	12	2	--	--	--	5	--
Pistol, handgun, revolver	29	3	--	--	--	19	8	2	--	--	--	4	--
Rifle, shotgun	11	4	--	--	--	3	3	--	--	--	--	--	--
<b>Vehicles</b>	53	12	6	--	5	34	20	--	--	7	--	3	--
Highway vehicles, motorized	47	9	5	--	3	31	18	--	--	6	--	3	--
Passenger vehicle--automobiles, buses, and passenger vans	11	--	--	--	--	10	--	--	--	5	--	--	--
Automobile	9	--	--	--	--	9	--	--	--	4	--	--	--
Trucks--motorized freight hauling and utility	28	6	3	--	--	18	13	--	--	--	--	--	--

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		Total goods producing	Natural resources and mining <sup>3</sup>	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	
Semi, tractor-trailer, tanker truck	18	5	3	--	--	12	11	--	--	--	--	--	--	--
Multi-purpose highway vehicles	8	3	--	--	--	3	3	--	--	--	--	--	--	--
Pickup truck	6	--	--	--	--	3	3	--	--	--	--	--	--	--
Off-road or industrial vehicles--powered	4	--	--	--	--	--	--	--	--	--	--	--	--	--
Industrial vehicles, material hauling and transport--powered	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Forklift, order picker, platform truck--powered	3	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Other sources</b>	<b>6</b>	<b>3</b>	--	--	--	--	<b>1</b>	--	--	--	--	--	--	--
Environmental and elemental conditions	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Weather and atmospheric conditions	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Lightning	1	--	--	--	--	--	--	--	--	--	--	--	--	--

<sup>1</sup> Industry data are based on the North American Industry Classification System, 2007.

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

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> 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 23, 2015