

TABLE A-4. Fatal occupational injuries by primary and secondary source of injury for all fatal injuries and by major private industry ¹ sector, California, 2018

Primary source and secondary source ²	Total fatal injuries (number)	Goods producing				Total service providing	Trade, transportation and utilities	Information
		Total goods producing	Natural resources and mining ³	Construction	Manufacturing			
Total	422	127	36	71	20	238	101	4
Primary Source⁴								
Chemicals and chemical products	22	6	--	4	--	12	4	--
Chemical products--general	22	6	--	4	--	12	4	--
Drugs, alcohol, and medicines	22	6	--	4	--	12	4	--
Drugs--nonmedicinal	18	4	--	--	--	11	4	--
Containers, furniture, and fixtures	3	--	--	--	--	--	--	--
Machinery	20	16	5	5	6	3	--	--
Agricultural and garden machinery	3	3	3	--	--	--	--	--
Harvesting and threshing machinery	3	3	3	--	--	--	--	--
Construction, logging, and mining machinery	9	5	--	--	--	3	--	--
Loaders	6	4	--	--	--	--	--	--
Bucket, front-end, end, and pay loaders	1	--	--	--	--	--	--	--
Skid steer loaders, mini loaders	4	--	--	--	--	--	--	--
Special process machinery	3	3	--	--	--	--	--	--
Parts and materials	14	8	--	6	--	5	4	--
Building materials--solid elements	7	4	--	--	--	3	3	--
Pipes, ducts, tubing	3	--	--	--	--	--	--	--
Metal pipes, tubing	3	--	--	--	--	--	--	--
Structural metal materials	3	--	--	--	--	--	--	--
Beams--unattached metal	3	--	--	--	--	--	--	--
Machine, tool, and electric parts	5	4	--	4	--	--	--	--
Electric parts	3	--	--	--	--	--	--	--
Persons, plants, animals, and minerals	109	12	4	6	--	75	18	1
Animals	4	--	--	--	--	--	--	--
Person--injured or ill worker	28	3	--	--	--	18	5	--
Person--other than injured or ill worker	62	4	--	3	--	45	13	1
Co-worker or work associate of injured or ill worker	13	--	--	--	--	8	2	1
Co-worker	10	--	--	--	--	6	1	1
Work associate	1	--	--	--	--	1	1	--
Former work associate	1	--	--	--	--	--	--	--
Other client or customer	7	--	--	--	--	6	--	--
Assailant, suspect, inmate	26	1	--	1	--	18	6	--

Robber	11	1	--	1	--	10	5	--
Inmate or detainee in custody	1	--	--	--	--	--	--	--
Plants, trees, vegetation--not processed	14	3	--	--	--	9	--	--
Trees, logs, limbs	14	3	--	--	--	9	--	--
Trees	8	--	--	--	--	6	--	--
Limbs, branches--unattached	6	--	--	--	--	3	--	--
Structures and surfaces	55	32	--	24	6	19	5	--
Confined spaces	5	4	--	3	--	--	--	--
Ditches, channels, trenches, excavations	3	3	--	3	--	--	--	--
Structures other than buildings	12	8	--	6	--	--	--	--
Scaffolds, staging	7	7	--	5	--	--	--	--
Other structural elements	21	16	--	13	--	5	--	--
Roofs	16	12	--	11	--	4	--	--
Skylights	4	--	--	--	--	--	--	--
Roof surface, other than roof edge	3	3	--	3	--	--	--	--
Roof edges	7	5	--	5	--	--	--	--
Floors, walkways, ground surfaces	15	3	--	--	--	10	4	--
Stairs, steps, escalators	3	--	--	--	--	--	--	--
Stairs, steps--indoors	3	--	--	--	--	--	--	--
Floors	6	--	--	--	--	3	--	--
Ground	5	--	--	--	--	4	--	--
Tools, instruments, and equipment	19	8	--	8	--	10	--	--
Ladders	15	7	--	7	--	8	--	--
Movable--ladders	11	5	--	5	--	6	--	--
Extension ladders	4	--	--	--	--	3	--	--
Vehicles	173	44	24	17	3	107	64	1
Aircraft	21	3	--	2	--	13	4	--
Airplanes--powered fixed wing	16	3	--	2	--	13	4	--
Airplane--jet or turbine engine	1	--	--	--	--	1	--	--
Airplane--propeller-driven or piston engine	12	3	--	2	--	9	4	--
Aircraft--powered rotary wing	5	--	--	--	--	--	--	--
Helicopter	5	--	--	--	--	--	--	--
Highway vehicles, motorized	124	25	9	14	--	86	54	1
Passenger vehicle--automobiles, buses, and passenger vans	31	--	--	--	--	21	9	--
Automobile	23	--	--	--	--	15	7	--
Passenger van	--	--	--	--	--	--	--	--
Trucks--motorized freight hauling and utility	67	15	7	6	--	49	39	--
Semi, tractor-trailer, tanker truck	47	9	5	4	--	37	33	--
Boom truck, bucket or basket hoist truck	3	--	--	--	--	--	--	--
Garbage, recycling, or refuse truck	3	--	--	--	--	3	--	--
Delivery truck or van	7	3	--	--	--	4	4	--
Multi-purpose highway vehicles	25	7	--	5	--	15	6	--
Pickup truck	22	7	--	5	--	13	5	--
SUV, sports utility vehicle	3	--	--	--	--	--	--	--
Off-road or industrial vehicles--powered	23	16	14	--	--	6	5	--
Off-road passenger vehicles--powered	4	3	3	--	--	--	--	--
ATV, all terrain vehicle	4	3	3	--	--	--	--	--

Industrial vehicles, material hauling and transport--powered	11	5	3	--	--	5	4	--
Forklift, order picker, platform truck--powered	11	5	3	--	--	5	4	--
Tractors, PTOs	8	8	8	--	--	--	--	--
Farm tractor	8	8	8	--	--	--	--	--
Other vehicles	3	--	--	--	--	--	--	--
Humvee	2	--	--	--	--	--	--	--
Other sources	7	--	--	--	--	5	--	--
Environmental and elemental conditions	4	--	--	--	--	3	--	--
Temperature extremes--environmental	4	--	--	--	--	3	--	--
Heat--environmental	4	--	--	--	--	3	--	--
Secondary Source⁵								
Containers, furniture, and fixtures	7	--	--	--	--	4	--	--
Furniture and fixtures	6	--	--	--	--	4	--	--
Cases, cabinets, racks, shelves	4	--	--	--	--	3	--	--
Machinery	9	4	1	3	--	5	--	--
Construction, logging, and mining machinery	--	--	--	--	--	--	--	--
Road grading and surfacing machinery	1	--	--	--	--	--	--	--
Graders, scrapers--construction	1	--	--	--	--	--	--	--
Material and personnel handling machinery	6	1	1	--	--	5	--	--
Jacks	6	1	1	--	--	5	--	--
Parts and materials	27	4	--	--	--	16	--	--
Building materials--solid elements	3	--	--	--	--	--	--	--
Fasteners, connectors, ropes, ties	14	--	--	--	--	9	--	--
Ropes, ties, chains	14	--	--	--	--	9	--	--
Rope, twine, string	8	--	--	--	--	6	--	--
Strapping	3	--	--	--	--	--	--	--
Machine, tool, and electric parts	7	--	--	--	--	5	--	--
Electric parts	7	--	--	--	--	5	--	--
Power lines, transformers, convertors	5	--	--	--	--	3	--	--
Vehicle and mobile equipment parts	3	--	--	--	--	--	--	--
Persons, plants, animals, and minerals	14	6	--	--	--	6	3	--
Plants, trees, vegetation--not processed	14	6	--	--	--	6	3	--
Trees, logs, limbs	14	6	--	--	--	6	3	--
Trees	13	5	--	--	--	6	3	--
Structures and surfaces	97	38	5	29	4	51	22	--
Structures other than buildings	13	--	--	--	--	8	6	--
Towers, poles	5	--	--	--	--	3	--	--
Utility and telephone poles	4	--	--	--	--	--	--	--
Other structures	5	--	--	--	--	--	--	--
Guardrails, road dividers	4	--	--	--	--	--	--	--
Other structural elements	7	3	--	--	--	4	--	--
Floors, walkways, ground surfaces	70	32	4	24	4	32	13	--
Floors	17	10	--	8	--	6	3	--
Ground	32	12	--	10	--	16	8	--

Sidewalks, paths, outdoor walkways	4	--	--	--	--	--	--	--
Sidewalk, path, outdoor walkway--paved	3	--	--	--	--	--	--	--
Streets, roads, driveways	3	--	--	--	--	--	--	--
Street, road, driveway--paved	3	--	--	--	--	--	--	--
Parking lots	6	--	--	--	--	--	--	--
Parking lot--paved	6	--	--	--	--	--	--	--
Curbs, traffic calming bumps, embankments	3	--	--	--	--	--	--	--
Embankments	3	--	--	--	--	--	--	--
Other floors, walkways, ground surfaces	3	--	--	--	--	--	--	--
Ramps, loading docks, dock plates	3	--	--	--	--	--	--	--
Tools, instruments, and equipment	62	6	--	4	--	43	13	1
Handtools--nonpowered	10	--	--	--	--	6	--	--
Cutting handtools--nonpowered	9	--	--	--	--	5	--	--
Knives, unspecified or n.e.c.	8	--	--	--	--	4	--	--
Firearms, law enforcement, and other self-defense equipment	50	3	--	3	--	37	12	1
Firearms	49	3	--	3	--	36	12	1
Pistol, handgun, revolver	24	--	--	--	--	18	4	1
Rifle, shotgun	6	--	--	--	--	5	--	--
Other law enforcement and self-defense equipment	1	--	--	--	--	1	--	--
Batons, nightsticks	1	--	--	--	--	1	--	--
Vehicles	51	11	5	4	--	35	22	--
Highway vehicles, motorized	47	10	4	4	--	33	21	--
Passenger vehicle--automobiles, buses, and passenger vans	13	--	--	--	--	12	5	--
Automobile	12	--	--	--	--	11	5	--
Trucks--motorized freight hauling and utility	23	7	3	--	--	14	13	--
Semi, tractor-trailer, tanker truck	19	5	--	--	--	13	12	--
Multi-purpose highway vehicles	10	--	--	--	--	7	3	--
Pickup truck	7	--	--	--	--	4	--	--
SUV, sports utility vehicle	3	--	--	--	--	3	--	--
Other sources	8	3	--	--	--	3	--	--
Apparel and textiles	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 pag

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 Administr

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.

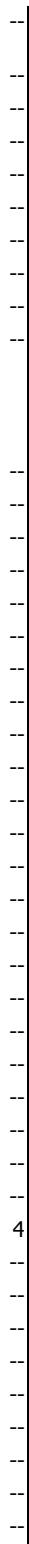
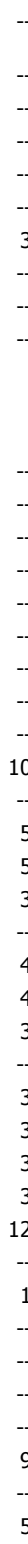
⁵ The secondary source of a fatal occupational injury is the object, substance, person, or exposure, other than the source, if any, which most actively generated the source or contributed to the injury or illness.

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. mean 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 09, 2019

Service providing

Financial activities	Professional and business services	Educational and health services	Leisure and hospitality	Other services
12	70	13	24	14
--	5	--	--	--
--	5	--	--	--
--	5	--	--	--
--	4	--	--	--
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5	22	7	17	5
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--	6	--	4	--
4	6	5	12	4
1	--	--	1	2
--	--	--	1	2
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--	--	3	--	1
--	--	--	8	--



3
3

4

3
3
3

6

4
4
3

9
9
6
5

3

11
1
1
1
10
9
5

1
1
1
1
1
1
1

4

1
1
1
2

page at <http://www.bls.gov/iif/oshcdef.htm>.

ration (MSHA) rules and reporting, such as those in Oil and Gas Extraction.

ans "not elsewhere classified." CFOI fatal injury counts exclude illness-related