

TABLE A-10. Fatal occupational injuries by primary and secondary source of injury by major private industry division, California, 2002

Primary source and secondary source	Total fatalities (number)	Private Industry ¹ (percent)								
		Agriculture, forestry, and fishing	Mining ²	Construction	Manufacturing	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Total	478	12.6	1.0	16.3	10.5	16.9	1.9	9.0	1.7	16.9
Primary source³										
Vehicles	214	12.6	--	10.3	9.3	29.4	--	4.7	--	15.4
Air vehicle	22	--	--	--	--	27.3	--	--	--	18.2
Aircraft--powered fixed wing	12	--	--	--	--	--	--	--	--	--
Propeller-driven aircraft	8	--	--	--	--	--	--	--	--	--
Aircraft--powered rotary wing	9	--	--	--	--	--	--	--	--	--
Helicopter	9	--	--	--	--	--	--	--	--	--
Highway vehicle, motorized	161	8.1	--	12.4	6.8	31.7	--	6.2	--	17.4
Highway vehicle, unspecified	4	--	--	--	--	--	--	--	--	--
Automobile	33	--	--	15.2	--	15.2	--	9.1	--	24.2
Bus	3	--	--	--	--	--	--	--	--	--
Motorcycle, moped	4	--	--	--	--	--	--	--	--	--
Truck	106	9.4	--	12.3	7.5	39.6	--	6.6	--	11.3
Truck, unspecified	6	--	--	--	--	66.7	--	--	--	--
Dump truck	4	--	--	--	--	--	--	--	--	--
Pickup truck	21	38.1	--	19.0	--	--	--	--	--	33.3
Semitrailer, tractor trailer, trailer truck	47	--	--	--	10.6	72.3	--	--	--	--
Truck, n.e.c.	26	--	--	15.4	--	--	--	--	--	11.5
Van--passenger or light delivery	10	--	--	--	--	--	--	--	--	40.0
Plant and industrial powered vehicles, tractors	23	43.5	--	--	21.7	13.0	--	--	--	--
Forklift	11	--	--	--	36.4	27.3	--	--	--	--
Forklift, unspecified	8	--	--	--	50.0	--	--	--	--	--
Tractor	11	81.8	--	--	--	--	--	--	--	--
Structures and surfaces	63	9.5	--	34.9	12.7	9.5	--	--	--	12.7
Floors, walkways, ground surfaces	56	8.9	--	33.9	14.3	10.7	--	--	--	12.5
Floors, walkways, ground surfaces, unspecified	4	--	--	--	--	--	--	--	--	--
Floors	19	--	--	31.6	15.8	--	--	--	--	21.1
Floor of building	17	--	--	35.3	--	--	--	--	--	23.5
Ground	24	12.5	--	37.5	12.5	12.5	--	--	--	12.5
Sidewalks, paths, outdoor walkways	4	--	--	--	--	--	--	--	--	--
Other structural elements	3	--	--	--	--	--	--	--	--	--
Structures	3	--	--	--	--	--	--	--	--	--
Machinery	20	15.0	--	40.0	20.0	--	--	--	--	--
Construction, logging, and mining machinery	11	--	--	63.6	--	--	--	--	--	--
Excavating machinery	5	--	--	100.0	--	--	--	--	--	--
Loaders	3	--	--	--	--	--	--	--	--	--
Material handling machinery	5	--	--	--	--	--	--	--	--	--
Parts and materials	36	8.3	--	38.9	11.1	8.3	--	11.1	--	8.3
Building materials--solid elements	3	--	--	--	--	--	--	--	--	--
Fasteners, connectors, ropes, ties	9	--	--	--	--	--	--	--	--	--
Ropes, ties	9	--	--	--	--	--	--	--	--	--
Rope, twine, string	6	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts	21	--	--	57.1	--	--	--	--	--	--
Electric parts	21	--	--	57.1	--	--	--	--	--	--
Electrical wiring	12	--	--	66.7	--	--	--	--	--	--
Power lines, transformers, converters	6	--	--	--	--	--	--	--	--	--

See footnotes at end of table.

TABLE A-10. Fatal occupational injuries by primary and secondary source of injury by major private industry division, California, 2002 - continued

Primary source and secondary source	Total fatalities (number)	Private Industry ¹ (percent)								
		Agriculture, forestry, and fishing	Mining ²	Construction	Manufacturing	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Persons, plants, animals, and minerals	19	21.1	--	21.1	--	--	--	--	--	26.3
Animals and animal products	3	--	--	--	--	--	--	--	--	--
Food products--fresh or processed	4	--	--	--	--	--	--	--	--	--
Nonmetallic minerals, except fuel	3	--	--	100.0	--	--	--	--	--	--
Person--other than injured or ill worker	6	--	--	--	--	--	--	--	--	50.0
Plants, trees, vegetation--not processed	3	--	--	--	--	--	--	--	--	--
Trees, logs	3	--	--	--	--	--	--	--	--	--
Chemicals and chemical products	13	--	--	30.8	--	--	--	--	--	23.1
Chemical products--general	8	--	--	50.0	--	--	--	--	--	--
Drugs, alcohol, medicines	8	--	--	50.0	--	--	--	--	--	--
Drugs--nonmedicinal	7	--	--	57.1	--	--	--	--	--	--
Tools, instruments, and equipment	13	23.1	--	--	--	--	--	--	--	--
Handtools--nonpowered	7	--	--	--	--	--	--	--	--	--
Cutting handtools--nonpowered	3	--	--	--	--	--	--	--	--	--
Knives	3	--	--	--	--	--	--	--	--	--
Containers	7	--	--	--	--	--	--	--	--	--
Containers--nonpressurized	7	--	--	--	--	--	--	--	--	--
Boxes, crates, cartons	3	--	--	--	--	--	--	--	--	--
Other sources	91	13.2	--	3.3	7.7	5.5	--	24.2	4.4	27.5
Ammunition	69	7.2	--	--	--	5.8	--	31.9	4.3	30.4
Bullets	63	7.9	--	--	--	6.3	--	33.3	4.8	30.2
Atmospheric and environmental conditions	12	33.3	--	--	33.3	--	--	--	--	--
Fire, flame, smoke	5	--	--	--	--	--	--	--	--	--
Fire, flame	4	--	--	--	--	--	--	--	--	--
Temperature extremes--environmental	4	75.0	--	--	--	--	--	--	--	--
Heat--environmental	4	75.0	--	--	--	--	--	--	--	--
Steam, vapors, liquids, n.e.c.	7	42.9	--	--	--	--	--	--	--	42.9
Liquids	7	42.9	--	--	--	--	--	--	--	42.9
Water	7	42.9	--	--	--	--	--	--	--	42.9
Secondary source⁴										
Vehicles	79	11.4	--	10.1	6.3	30.4	--	11.4	--	13.9
Highway vehicle, motorized	69	13.0	--	10.1	7.2	29.0	--	10.1	--	13.0
Highway vehicle, unspecified	3	--	--	--	--	--	--	--	--	--
Automobile	12	--	--	25.0	--	25.0	--	--	--	--
Truck	50	18.0	--	8.0	10.0	32.0	--	12.0	--	8.0
Truck, unspecified	3	--	--	--	--	--	--	--	--	--
Pickup truck	8	--	--	--	--	--	--	--	--	--
Semitrailer, tractor trailer, trailer truck	27	11.1	--	--	11.1	44.4	--	14.8	--	--
Truck, n.e.c.	12	--	--	25.0	--	--	--	--	--	--
Plant and industrial powered vehicles, tractors	3	--	--	--	--	--	--	--	--	--
Forklift	3	--	--	--	--	--	--	--	--	--
Rail vehicle	4	--	--	--	--	75.0	--	--	--	--
Train	4	--	--	--	--	75.0	--	--	--	--
Structures and surfaces	63	7.9	--	23.8	12.7	19.0	--	--	--	12.7
Floors, walkways, ground surfaces	27	--	--	11.1	11.1	18.5	--	--	--	14.8
Ground	20	--	--	--	--	25.0	--	--	--	--
Other structural elements	15	--	--	40.0	20.0	--	--	--	--	--
Roof	5	--	--	60.0	--	--	--	--	--	--

See footnotes at end of table.

TABLE A-10. Fatal occupational injuries by primary and secondary source of injury by major private industry division, California, 2002 - continued

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		Agriculture, forestry, and fishing	Mining ²	Construction	Manufacturing	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Skylights	4	--	--	75.0	--	--	--	--	--	--
Structures	21	--	--	28.6	--	33.3	--	--	--	--
Bridges, dams, locks	4	--	--	--	--	--	--	--	--	--
Pools	4	--	--	--	--	--	--	--	--	--
Scaffolds, staging	5	--	--	60.0	--	--	--	--	--	--
Scaffolds--staging, unspecified	4	--	--	75.0	--	--	--	--	--	--
Towers, poles	4	--	--	--	--	--	--	--	--	--
Other structures	4	--	--	--	--	--	--	--	--	--
Guardrails, road dividers	4	--	--	--	--	--	--	--	--	--
Machinery	14	--	--	21.4	--	--	--	--	--	35.7
Material handling machinery	10	--	--	30.0	--	--	--	--	--	50.0
Cranes	3	--	--	--	--	--	--	--	--	--
Jacks	4	--	--	--	--	--	--	--	--	75.0
Jacks, unspecified	4	--	--	--	--	--	--	--	--	75.0
Parts and materials	9	33.3	--	--	--	33.3	--	--	--	--
Building materials--solid elements	4	--	--	--	--	--	--	--	--	--
Pipes, ducts, tubing	3	--	--	--	--	--	--	--	--	--
Pipes, ducts, tubing, unspecified	3	--	--	--	--	--	--	--	--	--
Machine, tool, and electric parts	3	--	--	--	--	--	--	--	--	--
Electric parts	3	--	--	--	--	--	--	--	--	--
Persons, plants, animals, and minerals	67	13.4	--	--	7.5	9.0	--	34.3	--	20.9
Person--other than injured or ill worker	57	8.8	--	--	7.0	7.0	--	40.4	--	22.8
Person--other than injured or ill worker, unspecified	21	--	--	--	--	--	--	38.1	--	23.8
Co-worker, former co-worker of injured or ill worker	7	--	--	--	--	--	--	--	--	--
Relative of injured or ill worker	4	--	--	--	--	--	--	--	--	--
Robber	17	--	--	--	--	--	--	64.7	--	17.6
Person--other than injured or ill worker, n.e.c.	8	--	--	--	--	--	--	--	--	--
Plants, trees, vegetation--not processed	8	50.0	--	--	--	--	--	--	--	--
Trees, logs	8	50.0	--	--	--	--	--	--	--	--
Tools, instruments, and equipment	34	8.8	--	26.5	--	--	--	--	--	29.4
Ladders	15	--	--	60.0	--	--	--	--	--	--
Ladders, unspecified	8	--	--	37.5	--	--	--	--	--	--
Ladders--movable	5	--	--	100.0	--	--	--	--	--	--

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Extension ladders	4	--	--	100.0	--	--	--	--	--	--
Other tools, instruments, and equipment	17	--	--	--	--	--	--	--	--	52.9
Firearms	17	--	--	--	--	--	--	--	--	52.9
Pistol, handgun, revolver	14	--	--	--	--	--	--	--	--	57.1
Containers	7	--	--	--	71.4	--	--	--	--	--
Containers--nonpressurized	6	--	--	--	83.3	--	--	--	--	--
Tanks, bins, vats	6	--	--	--	83.3	--	--	--	--	--
Other sources	12	--	--	25.0	--	--	--	--	--	--
Steam, vapors, liquids, n.e.c.	8	--	--	--	--	--	--	--	--	--
Liquids	8	--	--	--	--	--	--	--	--	--
Water	8	--	--	--	--	--	--	--	--	--

¹ Classified according to the *Standard Industrial Classification Manual, 1987*

² Includes fatalities at all establishments categorized as Mining (Division B) in the *Standard Industrial Classification Manual, 1987 Edition*, 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 identifies the object, substance, or exposure that directly produced or inflicted the injury. For transportation incidents, the source identifies the vehicle in which the deceased was an occupant.

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 "perpetrator" is the secondary source.

NOTE: Totals for major categories may include subcategories not shown separately. Percentages may not add to totals because of rounding.

Dashes indicate no data reported or data that do not meet publication criteria.

n.e.c. means "not elsewhere classified."

All Data 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*