

TABLE A-8. Fatal occupational injuries by event or exposure and major private industry division, 1999

Event or exposure ¹	Total	Private industry ² (percent)								
		Agriculture, forestry, and fishing	Mining	Construction	Manufacturing	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Total	6,023	13.4	2.0	19.8	11.9	16.7	3.9	8.4	1.7	12.2
Transportation incidents	2,613	15.6	1.3	12.2	7.6	27.5	5.1	4.9	1.5	11.8
Highway	1,491	8.0	1.1	10.4	7.6	34.1	6.6	6.2	1.5	11.3
Collision between vehicles, mobile equipment	711	7.9	1.0	9.6	7.0	31.2	7.0	6.9	2.0	14.2
Re-entrant collision	29	44.8	—	—	—	20.7	—	—	—	—
Moving in same direction	129	9.3	—	10.1	4.7	38.8	9.3	7.0	—	10.1
Moving in opposite directions, oncoming	269	4.5	—	11.5	8.6	34.2	8.6	6.3	1.9	13.8
Moving in intersection	160	8.8	—	5.6	9.4	20.0	4.4	8.1	3.1	18.8
Moving and standing vehicle, mobile equipment-in roadway	39	—	—	—	—	28.2	—	—	—	17.9
Moving and standing vehicle, mobile equipment-side of road	19	—	—	—	—	36.8	—	—	—	—
Vehicle struck stationary object or equipment in roadway	33	—	—	15.2	—	51.5	—	—	—	—
Vehicle struck stationary object or equipment on side of road	301	2.0	1.7	9.0	7.6	43.2	6.3	6.0	2.0	9.6
Noncollision	388	13.4	1.3	12.4	8.8	32.0	7.0	3.9	—	7.7
Jack-knifed or overturned--no collision	321	12.1	1.6	13.1	8.1	31.8	7.8	4.7	—	8.1
Ran off highway--no collision	41	12.2	—	—	19.5	39.0	—	—	—	—
Sudden start or stop, n.e.c.	8	—	—	—	—	—	—	—	—	—
Nonhighway (farm, industrial premises)	353	47.6	2.5	13.0	9.9	5.9	3.4	2.5	—	8.2
Collision between vehicles or mobile equipment	13	—	—	—	—	—	—	—	—	—
Vehicle, mobile equipment struck stationary object	29	20.7	—	—	—	17.2	—	—	—	27.6
Noncollision accident	306	52.3	2.6	13.7	9.2	3.9	2.9	2.6	—	5.6
Fall from moving vehicle, mobile equipment	22	40.9	—	22.7	—	—	—	—	—	—
Fell from and struck by vehicle, mobile equipment	58	70.7	—	12.1	—	—	—	—	—	—
Overturned	206	51.0	2.4	13.6	9.7	3.4	3.4	2.4	—	5.8
Struck by shifting load	5	—	—	—	—	—	—	—	—	—
Aircraft	227	7.9	—	3.1	7.5	27.8	—	2.2	3.1	28.2
Worker struck by vehicle, mobile equipment	377	8.5	—	26.0	6.6	21.8	4.5	5.3	1.3	11.7
Worker struck by vehicle, mobile equipment in roadway	137	5.8	—	37.2	—	17.5	—	5.1	—	11.7
Worker struck by vehicle, mobile equipment on side of road	65	—	—	29.2	—	15.4	—	—	—	16.9
Worker struck by vehicle, mobile equipment in parking lot or non-road area	165	11.5	—	15.2	12.7	27.9	7.3	5.5	—	10.3
Water vehicle	102	60.8	—	4.9	—	16.7	—	—	—	—
Collision	5	—	—	—	—	—	—	—	—	—
Fall from ship or boat, n.e.c.	32	56.2	—	—	—	21.9	—	—	—	—
Fall on ship, boat	8	—	—	—	—	—	—	—	—	—
Sinking, capsized water vehicle	42	83.3	—	—	—	—	—	—	—	—
Railway	56	10.7	—	16.1	8.9	44.6	—	—	—	—
Collision between railway vehicles	8	—	—	—	—	100.0	—	—	—	—
Collision between railway vehicle and other vehicle	42	14.3	—	21.4	—	31.0	—	—	—	—
Assaults and violent acts	893	7.4	—	2.6	5.6	9.9	3.4	32.8	4.8	19.8
Homicides	645	2.9	—	.9	4.0	10.9	4.0	40.3	5.1	20.9
Hitting, kicking, beating	48	—	—	—	—	—	—	35.4	—	33.3
Shooting	506	3.0	—	1.0	4.0	11.3	4.3	39.5	5.7	20.0
Stabbing	60	—	—	—	—	11.7	—	50.0	—	20.0
Assaults and violent acts by person(s), n.e.c.	25	—	—	—	—	—	—	32.0	—	20.0
Self-inflicted injury	208	6.2	—	8.2	11.5	8.7	—	15.4	4.8	19.2
Assaults by animals	39	87.2	—	—	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-8. **Fatal occupational injuries by event or exposure and major private industry division, 1999** — Continued

Event or exposure ¹	Total	Private industry ² (percent)								
		Agriculture, forestry, and fishing	Mining	Construction	Manufacturing	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Contact with objects and equipment	1,029	19.3	5.5	23.8	24.8	9.4	3.8	2.1	—	7.3
Struck by object	585	18.6	3.8	22.2	25.3	11.5	4.8	2.7	—	7.9
Struck by falling object	358	16.5	3.4	21.2	31.3	10.1	5.9	2.5	—	6.7
Struck by flying object	55	27.3	12.7	9.1	16.4	—	—	—	—	16.4
Struck by discharged object or substance	19	47.4	—	—	—	—	—	—	—	—
Struck by swinging or slipping object	39	—	—	35.9	15.4	17.9	—	—	—	17.9
Struck by rolling, sliding objects on floor or ground level	97	33.0	—	22.7	12.4	21.6	—	—	—	—
Caught in or compressed by equipment or objects	302	22.2	4.3	16.9	33.1	8.6	3.3	—	—	6.6
Caught in running equipment or machinery	163	23.3	3.7	14.7	42.3	3.7	3.1	—	—	4.3
Compressed or pinched by rolling, sliding, or shifting objects	51	9.8	—	25.5	23.5	17.6	—	—	—	13.7
Caught in or crushed in collapsing materials	128	16.4	17.2	48.4	5.5	—	—	—	—	—
Excavation or trenching cave-in	44	11.4	—	72.7	—	—	—	—	—	—
Other cave-in	18	—	100.0	—	—	—	—	—	—	—
Caught in or crushed in collapsing structure	28	—	—	82.1	—	—	—	—	—	—
Falls	717	5.9	1.1	52.9	12.0	3.9	2.6	4.0	1.1	11.3
Fall to lower level	634	6.2	1.3	58.5	11.0	4.1	2.5	2.4	.9	9.8
Fall down stairs or steps	23	—	—	—	—	—	—	—	—	43.5
Fall from floor, dock, or ground level	43	—	—	62.8	11.6	—	—	—	—	14.0
Fall through existing floor opening	19	—	—	63.2	—	—	—	—	—	—
Fall through floor surface	7	—	—	—	—	—	—	—	—	—
Fall from ground level to lower level	7	—	—	—	—	—	—	—	—	—
Fall from ladder	96	—	—	57.3	10.4	5.2	—	7.3	—	10.4
Fall from roof	153	3.3	—	80.4	5.9	—	—	—	—	5.2
Fall through existing roof opening	14	—	—	100.0	—	—	—	—	—	—
Fall through roof surface	16	—	—	93.8	—	—	—	—	—	—
Fall through skylight	18	—	—	50.0	27.8	—	—	—	—	—
Fall from roof edge	70	—	—	81.4	—	—	—	—	—	—
Fall from scaffold, staging	92	—	—	72.8	19.6	—	—	—	—	5.4
Fall from building girders or other structural steel	49	—	—	91.8	—	—	—	—	—	—
Fall from nonmoving vehicle	47	19.1	—	14.9	19.1	21.3	—	—	—	10.6
Fall to lower level, n.e.c.	116	16.4	5.2	33.6	9.5	6.9	5.2	—	—	12.1
Fall on same level	66	—	—	7.6	21.2	—	—	16.7	—	21.2
Fall to floor, walkway, or other surface	51	—	—	—	19.6	—	—	17.6	—	19.6
Fall onto or against objects	9	—	—	—	—	—	—	—	—	—
Exposure to harmful substances or environments	529	14.9	1.7	33.3	12.1	10.2	2.1	3.6	2.1	11.7
Contact with electric current	278	12.6	—	47.5	10.1	7.6	3.2	2.2	—	8.3
Contact with electric current of machine, tool, appliance, light fixture	51	15.7	—	23.5	29.4	—	—	—	—	13.7
Contact with wiring, transformers, or other electrical component	75	—	—	56.0	6.7	10.7	—	—	—	9.3
Contact with overhead power lines	124	15.3	—	52.4	5.6	8.1	—	—	—	4.8
Struck by lightning	13	—	—	61.5	—	—	—	—	—	—
Contact with temperature extremes	50	20.0	—	20.0	32.0	—	—	—	—	—
Exposure to environmental heat	34	29.4	—	26.5	14.7	—	—	—	—	—
Contact with hot objects or substances	15	—	—	—	73.3	—	—	—	—	—
Exposure to caustic, noxious, or allergenic substances	106	10.4	—	17.0	10.4	15.1	—	8.5	4.7	25.5
Inhalation of substance	55	14.5	—	16.4	9.1	12.7	—	—	—	27.3
Inhalation in enclosed, restricted, or confined space ³	23	—	—	26.1	—	—	—	—	—	26.1
Inhalation in open or nonconfined space	23	—	—	—	—	—	—	—	—	39.1
Injections, stings, venomous bites	15	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

TABLE A-8. **Fatal occupational injuries by event or exposure and major private industry division, 1999** — Continued

Event or exposure ¹	Total	Private industry ² (percent)								
		Agriculture, forestry, and fishing	Mining	Construction	Manufacturing	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services
Needle sticks	6	—	—	—	—	—	—	—	—	—
Bee, wasp, hornet sting	5	—	—	—	—	—	—	—	—	—
Ingestion of substance	20	—	—	—	—	25.0	—	—	—	—
Oxygen deficiency	93	24.7	—	17.2	9.7	15.1	—	—	—	8.6
Drowning, submersion	75	28.0	—	16.0	—	17.3	—	—	—	9.3
Fires and explosions	216	5.1	5.1	19.9	27.3	8.8	—	5.1	—	12.5
Fires--unintended or uncontrolled	115	6.1	—	21.7	26.1	5.2	—	7.0	—	9.6
Fire in residence, building, or other structure	74	—	—	23.0	29.7	—	—	—	—	9.5
Forest, brush, or other outdoor fire	6	—	—	—	—	—	—	—	—	—
Ignition of clothing from controlled heat source	6	—	—	—	—	—	—	—	—	—
Explosion	99	—	9.1	18.2	29.3	12.1	—	—	—	16.2
Explosion, unspecified	5	—	—	—	—	—	—	—	—	—
Explosion of pressure vessel or piping ...	38	—	—	28.9	15.8	18.4	—	—	—	15.8
Other events or exposures ⁴	26	—	—	—	23.1	—	—	—	—	—

¹ Based on the 1992 BLS Occupational Injury and Illness Classification Manual.

² Classified according to the *Standard Industrial Classification Manual, 1987*.

³ Includes fatalities that are not considered to be permit required confined spaces as defined by the Occupational Safety and Health Administration in its regulation of these structures.

⁴ Includes the category "Bodily reaction and exertion."

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."

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries