

TABLE A-1. Fatal occupational injuries by industry and event or exposure, 1999

Industry ¹	SIC code ¹	Total fatalities (number)	Event or exposure ² (percent)					
			Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Total		6,023	43.4	14.8	17.1	11.9	8.8	3.6
Private industry		5,461	42.3	14.2	18.2	12.5	8.9	3.4
Agriculture, forestry and fishing		807	50.6	8.2	24.7	5.2	9.8	1.4
Agricultural production - crops	01	350	56.0	6.3	24.9	2.0	7.7	2.6
Cash grains	011	21	23.8	-	42.9	-	-	-
Field crops, except cash grains	013	46	50.0	-	28.3	-	17.4	-
Field crops, except grains, n.e.c.	0139	12	-	-	58.3	-	-	-
Vegetables and melons	016	9	55.6	-	-	-	-	-
Fruits and tree nuts	017	29	72.4	-	-	-	-	-
Fruits and tree nuts, n.e.c.	0179	13	100.0	-	-	-	-	-
Horticultural specialties	018	13	69.2	-	-	-	-	-
Ornamental nursery products	0181	12	75.0	-	-	-	-	-
General farms, primarily crop	019	215	56.7	7.4	25.1	2.3	4.7	3.3
Agricultural production - livestock	02	163	38.0	17.2	28.2	6.1	10.4	-
Livestock, except dairy and poultry ..	021	63	30.2	22.2	30.2	9.5	7.9	-
Beef cattle, except feedlots	0212	49	34.7	20.4	26.5	10.2	-	-
Dairy farms	024	50	34.0	12.0	34.0	-	18.0	-
Animal specialties	027	8	62.5	-	-	-	-	-
General farms, primarily animal	029	23	69.6	-	21.7	-	-	-
Agricultural services	07	164	39.0	6.7	29.3	13.4	11.0	-
Crop services	072	31	77.4	-	-	-	-	-
Crop planting and protecting	0721	18	94.4	-	-	-	-	-
Animal services, except veterinary ..	075	6	-	83.3	-	-	-	-
Animal specialty services	0752	6	-	83.3	-	-	-	-
Farm labor and management services ..	076	9	55.6	-	-	-	-	-
Landscape and horticultural services ..	078	107	28.0	-	35.5	17.8	15.9	-
Lawn and garden services	0782	35	48.6	-	20.0	-	20.0	-
Ornamental shrub and tree services	0783	60	11.7	-	45.0	26.7	16.7	-
Fishing, hunting, and trapping	09	81	75.3	-	6.2	-	16.0	-
Commercial fishing	091	79	75.9	-	-	-	16.5	-
Finfish	0912	16	75.0	-	-	-	-	-
Shellfish	0913	48	81.2	-	-	-	14.6	-
Mining		121	28.9	-	47.1	6.6	7.4	9.1
Metal mining	10	12	-	-	50.0	-	-	-
Coal mining	12	35	14.3	-	62.9	-	-	-
Bituminous coal and lignite mining ..	122	28	-	-	60.7	-	-	-
Bituminous coal-underground	1222	19	-	-	68.4	-	-	-
Oil and gas extraction	13	50	34.0	-	32.0	-	10.0	16.0
Oil and gas field services	138	39	33.3	-	30.8	-	-	17.9
Oil and gas field services, n.e.c.	1389	25	36.0	-	20.0	-	-	24.0
Nonmetallic minerals, except fuels	14	24	37.5	-	54.2	-	-	-
Sand and gravel	144	11	45.5	-	45.5	-	-	-
Construction sand and gravel	1442	10	50.0	-	-	-	-	-
Construction		1,190	26.9	1.9	20.6	31.8	14.8	3.6
General building contractors	15	183	24.0	2.7	18.0	43.2	8.2	3.3
Residential building construction	152	98	26.5	-	19.4	36.7	9.2	6.1
Single-family housing construction ..	1521	79	22.8	-	21.5	39.2	8.9	6.3
Residential construction, n.e.c. ...	1522	14	35.7	-	-	-	-	-
Nonresidential building construction ..	154	76	19.7	-	14.5	53.9	6.6	-
Industrial buildings and warehouses ..	1541	30	26.7	-	-	53.3	-	-
Nonresidential construction, n.e.c.	1542	44	13.6	-	15.9	54.5	-	-
Heavy construction, except building ...	16	280	48.2	-	28.2	6.8	13.6	2.9

See footnotes at end of table.

TABLE A-1. **Fatal occupational injuries by industry and event or exposure, 1999** — Continued

Industry ¹	SIC code ¹	Total fatalities (number)	Event or exposure ² (percent)					
			Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Highway and street construction	161	86	82.6	—	11.6	—	—	—
Heavy construction, except highway	162	189	33.3	—	34.9	9.0	18.0	4.2
Bridge, tunnel, and elevated highway	1622	20	30.0	—	50.0	—	—	—
Water, sewer, and utility lines	1623	103	29.1	—	35.0	8.7	23.3	—
Heavy construction, n.e.c.	1629	64	42.2	—	29.7	—	14.1	7.8
Special trades contractors	17	709	18.9	2.3	18.6	39.1	16.9	4.1
Plumbing, heating and air-conditioning	171	66	28.8	—	18.2	18.2	19.7	10.6
Painting and paper hanging	172	36	—	—	—	61.1	16.7	—
Electrical work	173	107	22.4	—	6.5	18.7	46.7	—
Masonry, stonework, tile setting, and plastering	174	57	17.5	—	22.8	47.4	12.3	—
Masonry and other stonework	1741	36	19.4	—	27.8	38.9	13.9	—
Plastering, drywall, and insulation	1742	20	—	—	—	65.0	—	—
Carpentry and floor work	175	46	15.2	—	15.2	52.2	—	—
Carpentry work	1751	43	14.0	—	16.3	55.8	—	—
Roofing, siding, and sheet metal work	176	96	10.4	—	6.2	75.0	7.3	—
Concrete work	177	42	38.1	—	31.0	14.3	14.3	—
Miscellaneous special trade contractors	179	244	15.6	2.0	28.7	37.7	10.7	5.3
Structural steel erection	1791	56	—	—	21.4	71.4	—	—
Excavation work	1794	43	30.2	—	48.8	—	16.3	—
Wrecking and demolition work	1795	22	36.4	—	27.3	—	—	—
Installing building equipment, n.e.c.	1796	20	—	—	35.0	60.0	—	—
Special trade contractors, n.e.c.	1799	99	14.1	—	22.2	35.4	15.2	9.1
Manufacturing		719	27.7	7.0	35.5	12.0	8.9	8.2
Food and kindred products	20	83	36.1	7.2	25.3	15.7	14.5	—
Meat products	201	25	28.0	—	24.0	—	28.0	—
Grain mill products	204	11	—	—	45.5	—	—	—
Bakery products	205	11	45.5	—	—	—	—	—
Beverages	208	10	60.0	—	—	—	—	—
Lumber and wood products	24	190	28.9	3.2	57.4	4.7	3.2	—
Logging	241	138	29.7	—	60.9	—	—	—
Sawmills and planing mills	242	21	—	—	57.1	—	—	—
Sawmills and planing mills, general	2421	18	—	—	66.7	—	—	—
Millwork, plywood and structural members	243	13	—	—	46.2	—	—	—
Paper and allied products	26	27	22.2	—	33.3	—	22.2	—
Printing and publishing	27	25	52.0	24.0	—	—	—	—
Newspapers	271	14	57.1	—	—	—	—	—
Chemicals and allied products	28	47	19.1	—	—	—	—	59.6
Industrial organic chemicals	286	11	—	—	—	—	—	63.6
Miscellaneous chemical products ...	289	15	—	—	—	—	—	73.3
Rubber and miscellaneous plastics products	30	19	—	—	42.1	—	—	—
Miscellaneous plastics products, n.e.c.	308	15	—	—	40.0	—	—	—
Stone, clay, glass and concrete products	32	44	34.1	—	40.9	—	11.4	—
Concrete, gypsum, and plaster products	327	34	41.2	—	35.3	—	—	—
Ready-mixed concrete	3273	16	56.2	—	—	—	—	—
Primary metal industries	33	50	20.0	—	48.0	14.0	—	—
Blast furnace and basic steel products	331	18	—	—	38.9	—	—	—

See footnotes at end of table.

TABLE A-1. **Fatal occupational injuries by industry and event or exposure, 1999** — Continued

Industry ¹	SIC code ¹	Total fatalities (number)	Event or exposure ² (percent)					
			Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Iron and steel foundries	332	16	—	—	56.2	—	—	—
Gray and ductile iron foundries ...	3321	11	—	—	54.5	—	—	—
Fabricated metal products	34	46	15.2	10.9	34.8	21.7	10.9	—
Fabricated structural metal products	344	21	—	—	33.3	33.3	—	—
Industrial machinery and equipment ...	35	54	27.8	18.5	33.3	11.1	—	—
Construction and related machinery	353	17	—	—	58.8	—	—	—
Metalworking machinery	354	12	—	41.7	—	—	—	—
Transportation equipment	37	68	25.0	—	23.5	20.6	10.3	11.8
Motor vehicles and equipment	371	33	15.2	—	30.3	—	—	24.2
Motor vehicles and car bodies	3711	12	—	—	—	—	—	50.0
Ship and boat building and repairing	373	20	—	—	—	45.0	—	—
Transportation and public utilities		1,006	71.4	8.8	9.6	2.8	5.4	1.9
Railroad transportation	40	32	75.0	—	15.6	—	—	—
Railroads	401	32	75.0	—	15.6	—	—	—
Local and interurban passenger transportation	41	102	37.3	55.9	4.9	—	—	—
Local and suburban transportation	411	20	70.0	—	—	—	—	—
Taxicabs	412	66	21.2	78.8	—	—	—	—
Bus charter service	414	6	100.0	—	—	—	—	—
Trucking and warehousing	42	605	81.8	4.0	8.8	2.1	2.5	.8
Trucking and courier services, except air	421	562	84.0	3.7	7.7	1.6	2.3	—
Local trucking, without storage ...	4212	140	77.9	—	15.7	—	—	—
Trucking, except local	4213	361	85.9	4.7	4.7	1.7	2.5	—
Local trucking with storage	4214	8	62.5	—	—	—	—	—
Courier services, except by air ...	4215	19	94.7	—	—	—	—	—
Public warehousing and storage	422	21	—	—	38.1	—	—	—
Water transportation	44	55	45.5	—	23.6	—	18.2	—
Water transportation services	449	39	46.2	—	23.1	—	17.9	—
Marine cargo handling	4491	17	47.1	—	35.3	—	—	—
Towing and tugboat services	4492	11	72.7	—	—	—	—	—
Transportation by air	45	74	86.5	—	6.8	—	—	—
Air transportation, scheduled	451	21	81.0	—	—	—	—	—
Air transportation, scheduled	4512	13	76.9	—	—	—	—	76.9
Air courier services	4513	6	83.3	—	—	—	—	—
Air transportation, nonscheduled	452	41	95.1	—	—	—	—	—
Airports, flying fields, and services	458	10	60.0	—	—	—	—	—
Transportation services	47	21	57.1	—	—	—	—	—
Miscellaneous transportation services	478	8	62.5	—	—	—	—	—
Communications	48	30	56.7	—	—	23.3	16.7	—
Telephone communications	481	18	61.1	—	—	—	—	—
Telephone communications, except radio	4813	14	64.3	—	—	—	—	—
Radio and television broadcasting ..	483	6	83.3	—	—	—	—	—
Electric, gas, and sanitary services ...	49	86	50.0	—	15.1	—	19.8	11.6
Electric services	491	24	25.0	—	—	—	25.0	25.0
Sanitary services	495	45	66.7	—	20.0	—	11.1	—
Refuse systems	4953	38	65.8	—	23.7	—	—	—
Wholesale trade		237	56.5	12.7	16.5	8.0	4.6	—
Wholesale trade-durable goods	50	132	50.8	12.1	23.5	6.1	5.3	—
Motor vehicles, parts, and supplies	501	23	52.2	—	26.1	—	—	—
Automobiles and other motor vehicles	5012	7	71.4	—	—	—	—	—
Motor vehicle supplies and new parts	5013	7	71.4	—	—	—	—	—
Lumber and construction materials	503	12	41.7	—	41.7	—	—	—

See footnotes at end of table.

TABLE A-1. **Fatal occupational injuries by industry and event or exposure, 1999** — Continued

Industry ¹	SIC code ¹	Total fatalities (number)	Event or exposure ² (percent)					
			Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Professional and commercial equipment	504	13	—	61.5	—	—	—	—
Metals and minerals, except petroleum	505	11	54.5	—	45.5	—	—	—
Electrical goods	506	10	50.0	—	—	—	—	—
Machinery, equipment, and supplies	508	28	64.3	—	17.9	—	—	—
Miscellaneous durable goods	509	25	56.0	—	28.0	—	—	—
Scrap and waste materials	5093	22	50.0	—	31.8	—	—	—
Wholesale trade-nondurable goods ...	51	105	63.8	13.3	7.6	10.5	—	—
Groceries and related products	514	44	65.9	13.6	—	—	—	—
Farm-product raw materials	515	10	50.0	—	—	—	—	—
Petroleum and petroleum products	517	16	87.5	—	—	—	—	—
Petroleum bulk stations and terminals	5171	8	100.0	—	—	—	—	—
Petroleum and petroleum products wholesalers, except bulk stations and terminals	5172	7	71.4	—	—	—	—	—
Beer, wine, and distilled beverages	518	5	100.0	—	—	—	—	—
Miscellaneous nondurable goods ...	519	16	50.0	—	—	—	—	—
Retail trade		507	25.4	57.8	4.3	5.7	3.7	2.2
Building materials and garden supplies	52	29	34.5	—	20.7	27.6	—	—
Lumber and other building materials	521	19	31.6	—	26.3	26.3	—	—
General merchandise stores	53	24	20.8	41.7	—	20.8	—	—
Food stores	54	115	13.0	81.7	—	—	—	—
Grocery stores	541	94	6.4	89.4	—	—	—	—
Automotive dealers and service stations	55	82	46.3	29.3	11.0	—	—	—
New and used car dealers	551	14	57.1	—	—	—	—	—
Auto and home supply stores	553	22	54.5	—	—	—	—	—
Gasoline service stations	554	28	—	64.3	—	—	—	—
Furniture and homefurnishings stores	57	16	56.2	—	—	—	—	—
Eating and drinking places	58	145	13.8	73.1	—	5.5	5.5	—
Eating places	5812	96	19.8	63.5	—	5.2	8.3	—
Drinking places	5813	39	—	94.9	—	—	—	—
Miscellaneous retail	59	91	34.1	54.9	—	—	—	5.5
Liquor stores	592	20	—	90.0	—	—	—	—
Used merchandise stores	593	8	—	62.5	—	—	—	—
Miscellaneous shopping goods stores	594	14	—	92.9	—	—	—	—
Jewelry stores	5944	6	—	100.0	—	—	—	—
Nonstore retailers	596	19	78.9	—	—	—	—	—
Direct selling establishments	5963	16	87.5	—	—	—	—	—
Retail stores, n.e.c.	599	20	35.0	50.0	—	—	—	—
Finance, insurance, and real estate		105	37.1	41.0	—	7.6	10.5	—
Depository institutions	60	13	—	69.2	—	—	—	—
Security and commodity brokers	62	7	—	71.4	—	—	—	—
Insurance carriers	63	10	90.0	—	—	—	—	—
Life insurance	631	5	100.0	—	—	—	—	—
Insurance agents, brokers, and service	64	14	85.7	—	—	—	—	—
Real estate	65	48	22.9	37.5	—	10.4	20.8	—
Real estate operators and lessors ..	651	28	—	46.4	—	—	25.0	—
Apartment building operators	6513	19	—	63.2	—	—	—	—
Real estate agents and managers ..	653	13	—	38.5	—	—	—	—
Holdings and other investment offices	67	7	—	85.7	—	—	—	—
Miscellaneous investing	679	6	—	100.0	—	—	—	—

See footnotes at end of table.

TABLE A-1. **Fatal occupational injuries by industry and event or exposure, 1999** — Continued

Industry ¹	SIC code ¹	Total fatalities (number)	Event or exposure ² (percent)					
			Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Services		732	42.1	24.2	10.2	11.1	8.5	3.7
Hotels and other lodging places	70	37	32.4	45.9	—	13.5	—	—
Hotels and motels	701	29	20.7	55.2	—	17.2	—	—
Camps and recreational vehicle parks	703	7	85.7	—	—	—	—	—
Personal services	72	42	28.6	52.4	—	—	—	—
Laundry, cleaning, and garment services	721	23	21.7	52.2	—	—	—	—
Barber shops	724	6	—	100.0	—	—	—	—
Business services	73	161	43.5	23.6	8.7	14.3	8.1	—
Advertising	731	9	—	—	—	66.7	—	—
Services to buildings	734	30	30.0	—	—	40.0	—	—
Building maintenance services, n.e.c.	7349	26	23.1	—	—	46.2	—	—
Miscellaneous equipment rental and leasing	735	13	61.5	—	—	—	—	—
Personnel supply services	736	23	52.2	21.7	—	—	—	—
Help supply services	7363	17	52.9	—	—	—	—	—
Miscellaneous business services ...	738	72	47.2	34.7	—	—	—	—
Detective and armored car services	7381	39	41.0	48.7	—	—	—	—
Automotive repair, services, and parking	75	132	31.1	32.6	21.2	4.5	3.8	6.8
Automotive rentals, no drivers	751	11	81.8	—	—	—	—	—
Automobile parking	752	6	—	100.0	—	—	—	—
Automotive repair shops	753	82	17.1	34.1	28.0	—	6.1	11.0
Top, body, and upholstery repair shops and paint shops	7532	20	—	40.0	—	—	—	—
General automotive repair shops	7538	39	17.9	35.9	35.9	—	—	—
Automotive services, except repair	754	32	56.2	21.9	—	—	—	—
Automotive services, n.e.c.	7549	22	68.2	—	—	—	—	—
Miscellaneous repair services	76	53	20.8	—	20.8	—	28.3	15.1
Electrical repair shops	762	14	—	—	—	—	57.1	—
Miscellaneous repair shops	769	36	22.2	—	30.6	—	16.7	19.4
Amusement and recreation services ..	79	83	50.6	14.5	10.8	12.0	8.4	—
Commercial sports	794	19	52.6	—	—	—	—	—
Racing, including track operations	7948	16	62.5	—	—	—	—	—
Miscellaneous amusement, recreation services	799	55	58.2	10.9	—	10.9	10.9	—
Membership sports and recreation clubs	7997	10	80.0	—	—	—	—	—
Health services	80	71	50.7	12.7	—	16.9	12.7	—
Hospitals	806	30	36.7	16.7	—	16.7	20.0	—
General medical and surgical hospitals	8062	25	40.0	—	—	—	24.0	—
Home health care services	808	13	76.9	—	—	—	—	—
Legal services	81	16	75.0	—	—	—	—	—
Educational services	82	28	92.9	—	—	—	—	—
Colleges and universities	822	9	77.8	—	—	—	—	—
Schools and educational services, n.e.c.	829	15	100.0	—	—	—	—	—
Social services	83	27	51.9	29.6	—	—	—	—
Membership organizations	86	24	33.3	33.3	—	—	—	—
Religious organizations	866	18	33.3	33.3	—	—	—	—
Engineering and management services	87	39	51.3	—	—	15.4	—	—
Engineering and architectural services	871	16	62.5	—	—	—	—	—
Engineering services	8711	10	70.0	—	—	—	—	—
Research and testing services	873	10	60.0	—	—	—	—	—

See footnotes at end of table.

TABLE A-1. **Fatal occupational injuries by industry and event or exposure, 1999** — Continued

Industry ¹	SIC code ¹	Total fatalities (number)	Event or exposure ² (percent)					
			Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Government⁵		562	53.6	20.5	5.9	6.0	7.7	5.5
Federal government (including resident armed forces)		147	61.9	17.0	4.1	6.8	8.8	—
Transportation and public utilities		17	58.8	—	—	—	—	—
U.S. Postal Service	43	17	58.8	—	—	—	—	—
Public administration		117	65.0	16.2	4.3	5.1	7.7	—
Administration of human resources	94	7	85.7	—	—	—	—	—
National security and international affairs	97	97	64.9	14.4	—	6.2	9.3	—
National security	971	96	64.6	14.6	—	6.2	9.4	—
State government		108	58.3	20.4	7.4	—	7.4	—
Construction		14	78.6	—	—	—	—	—
Heavy construction, except building	16	14	78.6	—	—	—	—	—
Highway and street construction	161	14	78.6	—	—	—	—	—
Services		22	63.6	—	—	—	—	—
Educational services	82	14	42.9	—	—	—	—	—
Social services	83	5	100.0	—	—	—	—	—
Public administration		66	54.5	27.3	7.6	—	7.6	—
Justice, public order, and safety	92	36	52.8	36.1	—	—	—	—
Public order and safety	922	35	54.3	34.3	—	—	—	—
Police protection	9221	20	50.0	35.0	—	—	—	—
Correctional institutions	9223	12	50.0	41.7	—	—	—	—
Environmental quality and housing	95	12	58.3	—	—	—	—	—
Administration of economic programs	96	8	62.5	—	—	—	—	—
Local government		301	47.2	22.6	6.0	6.6	7.3	9.3
Construction		20	65.0	—	—	—	—	—
Heavy construction, except building	16	18	66.7	—	—	—	—	—
Highway and street construction	161	14	71.4	—	—	—	—	—
Transportation and public utilities		33	39.4	—	—	—	24.2	—
Local and interurban passenger transportation	41	9	55.6	—	—	—	—	—
Electric, gas, and sanitary services	49	21	28.6	—	—	—	38.1	—
Sanitary services	495	10	60.0	—	—	—	—	—
Refuse systems	4953	5	100.0	—	—	—	—	—
Services		48	45.8	25.0	—	18.8	—	—
Health services	80	9	—	55.6	—	—	—	—
Educational services	82	34	47.1	17.6	—	23.5	—	—
Elementary and secondary schools	821	32	43.8	18.8	—	25.0	—	—

See footnotes at end of table.

TABLE A-1. **Fatal occupational injuries by industry and event or exposure, 1999** — Continued

Industry ¹	SIC code ¹	Total fatalities (number)	Event or exposure ² (percent)					
			Transportation incidents ³	Assaults and violent acts ⁴	Contact with objects and equipment	Falls	Exposure to harmful substances or environments	Fires and explosions
Public administration		196	46.4	26.5	5.1	3.6	4.1	13.3
Executive, legislative, and general government	91	31	51.6	—	19.4	—	—	—
Justice, public order, and safety	92	144	43.1	32.6	—	—	3.5	17.4
Public order and safety	922	144	43.1	32.6	—	—	3.5	17.4
Police protection	9221	91	52.7	46.2	—	—	—	—
Fire protection	9224	50	26.0	—	—	—	10.0	50.0
Environmental quality and housing	95	13	53.8	—	—	—	—	—

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

² Based on the 1992 BLS Occupational Injury and Illness Classification Manual.

³ Includes highway, nonhighway, air, water, and rail fatalities.

⁴ Includes violence by persons, self-inflicted injury, and attacks by animals.

⁵ Includes fatalities to workers employed by governmental organizations regardless of industry.

NOTE: Totals for major categories may include subcategories not

shown separately. Percentages may not add to totals because of rounding.

There were 37 fatalities for which there was insufficient information to determine a specific industry classification, though a distinction between private and government was made for each.

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