

Table 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 1998

Massachusetts

Industry ²	SIC code ³	1998 Annual average employment ⁴ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁵	With days away from work ⁶			Total ⁵	With days away from work ⁶	
Private Industry⁷		2,723.4	5.7	2.9	2.1	2.8	5.5	2.8	2.1	2.7
Agriculture, forestry, and fishing⁷		21.5	10.8	3.9	3.4	6.9	10.6	3.8	3.3	6.8
Mining⁸		1.3	6.4	4.6	3.2	1.8	6.2	4.5	3.2	1.7
Nonmetallic minerals, except fuels ⁸	14	1.3	6.4	4.6	3.2	1.8	6.2	4.5	3.2	1.7
Construction		108.2	9.0	4.2	3.9	4.8	8.9	4.1	3.8	4.8
General building contractors	15	24.6	6.3	2.9	2.7	3.4	6.3	2.9	2.7	3.4
Nonresidential building construction	154	9.2	8.2	4.1	4.0	4.1	8.1	4.0	3.9	4.1
Heavy construction, except building	16	12.6	8.2	3.9	3.5	4.3	8.1	3.7	3.3	4.3
Special trade contractors	17	70.9	10.1	4.7	4.4	5.4	10.0	4.6	4.3	5.4
Plumbing, heating, air-conditioning	171	16.0	12.4	4.7	4.4	7.7	12.4	4.7	4.4	7.7
Electrical work	173	16.5	9.2	3.9	3.6	5.3	9.1	3.9	3.5	5.2
Masonry, stonework, and plastering	174	6.7	8.2	5.4	5.0	2.7	8.2	5.4	5.0	2.7
Miscellaneous special trade contractors	179	14.7	10.0	3.7	3.5	6.3	9.9	3.6	3.4	6.3
Manufacturing		447.7	6.6	3.4	2.3	3.1	6.2	3.2	2.2	2.9
Durable goods		280.7	6.0	3.0	1.9	3.0	5.6	2.8	1.8	2.8
Lumber and wood products	24	4.1	9.5	6.1	4.9	3.4	9.4	6.0	4.9	3.4
Furniture and fixtures	25	4.6	13.8	8.5	5.0	5.3	12.5	8.1	4.7	4.5
Stone, clay, and glass products	32	8.8	9.3	5.4	3.3	3.9	9.0	5.2	3.3	3.8
Primary metal industries	33	10.1	10.7	6.5	3.4	4.3	10.3	6.3	3.3	4.0
Fabricated metal products	34	37.1	11.2	5.7	3.8	5.5	10.5	5.5	3.7	5.0
Cutlery, handtools, and hardware	342	8.5	8.6	5.3	1.9	3.3	8.3	5.2	1.8	3.2
Fabricated structural metal products	344	8.0	16.6	5.2	4.0	11.4	15.8	5.1	4.0	10.7
Miscellaneous fabricated metal products	349	4.9	12.6	5.6	4.3	7.0	11.4	5.3	4.0	6.1
Industrial machinery and equipment	35	65.0	5.6	2.5	1.9	3.2	5.4	2.4	1.8	3.0
Metalworking machinery	354	8.3	7.1	2.9	1.7	4.3	6.8	2.8	1.6	4.0
Special industry machinery	355	7.9	6.4	2.6	2.3	3.8	6.1	2.4	2.1	3.6
General industrial machinery	356	7.1	10.2	4.3	3.6	5.8	10.0	4.2	3.5	5.8
Computer and office equipment	357	27.6	1.7	0.8	0.6	0.9	1.6	0.8	0.6	0.8
Industrial machinery, n.e.c.	359	10.4	9.8	4.3	3.5	5.5	9.6	4.2	3.4	5.4
Electronic and other electric equipment	36	61.5	3.3	1.6	1.0	1.7	2.8	1.4	0.9	1.5
Electric lighting and wiring equipment	364	5.6	5.0	3.3	1.9	1.8	4.6	2.8	1.6	1.7
Electronic components and accessories	367	27.7	4.5	1.8	1.2	2.7	3.9	1.6	1.1	2.2
Semiconductors and related devices	3674	11.2	3.9	1.5	1.0	2.4	2.6	1.3	0.9	1.2
Electronic components, n.e.c.	3679	6.2	5.9	1.9	1.2	4.0	5.8	1.9	1.2	3.9
Transportation equipment	37	19.5	5.7	2.3	1.4	3.3	5.1	2.2	1.3	2.9
Guided missiles, space vehicles, parts	376	--	2.9	1.0	0.9	1.9	2.1	0.9	0.8	1.2
Instruments and related products	38	53.7	3.0	1.7	1.2	1.3	2.6	1.4	1.0	1.1
Measuring and controlling devices	382	23.4	3.0	1.5	1.2	1.5	2.6	1.3	1.0	1.4
Process control instruments	3823	6.6	2.4	1.0	0.8	1.4	2.2	0.8	0.7	1.4
Medical instruments and supplies	384	15.3	3.6	2.0	1.0	1.6	3.0	1.7	0.9	1.4
Photographic equipment and supplies	386	6.6	2.4	1.6	0.9	0.8	2.1	1.4	0.7	0.7
Miscellaneous manufacturing industries	39	16.3	7.4	2.6	1.2	4.9	6.5	2.1	1.1	4.4
Toys and sporting goods	394	6.4	8.1	3.1	1.4	5.0	7.4	2.6	1.3	4.8

See footnotes at end of table.

Table 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 1998 -- Continued

Massachusetts

Industry ²	SIC code ³	1998 Annual average employment ⁴ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁵	With days away from work ⁶			Total ⁵	With days away from work ⁶	
Nondurable goods		167.0	7.5	4.2	2.8	3.3	7.2	4.0	2.7	3.2
Food and kindred products	20	21.9	10.6	5.9	4.5	4.8	10.6	5.8	4.5	4.7
Textile mill products	22	14.1	9.4	5.3	3.0	4.1	9.3	5.3	2.9	4.0
Apparel and other textile products	23	13.1	7.5	3.5	2.2	4.1	7.3	3.3	2.1	4.0
Paper and allied products	26	19.2	8.0	5.3	3.1	2.7	7.5	4.9	2.9	2.6
Miscellaneous converted paper products	267	9.1	5.8	4.2	2.1	1.6	5.4	3.9	1.9	1.5
Printing and publishing	27	48.7	4.6	2.3	1.8	2.3	4.5	2.3	1.8	2.2
Newspapers	271	14.1	7.6	3.5	3.2	4.1	7.2	3.5	3.2	3.7
Books	273	5.6	0.6	0.3	0.3	0.3	0.5	--	0.2	0.3
Commercial printing	275	15.5	5.2	2.7	1.9	2.5	5.1	2.6	1.9	2.4
Commercial printing, lithographic	2752	8.1	6.0	3.2	2.4	2.8	5.9	3.1	2.4	2.8
Chemicals and allied products	28	17.7	4.6	2.7	1.7	1.9	4.4	2.6	1.7	1.9
Rubber and miscellaneous plastics products	30	27.2	10.1	5.5	3.7	4.6	9.5	5.2	3.5	4.4
Miscellaneous plastics products, n.e.c.	308	20.9	10.3	5.5	4.0	4.8	9.6	5.0	3.7	4.6
Plastics products, n.e.c.	3089	12.2	7.9	4.6	2.9	3.4	7.7	4.4	2.9	3.3
Leather and leather products	31	3.2	6.5	4.7	1.9	1.9	5.8	4.0	1.8	1.8
Transportation and public utilities⁸		134.1	9.3	6.3	4.6	3.1	9.2	6.2	4.6	3.0
Railroad transportation ⁸	40	--	4.6	3.5	3.4	1.1	4.5	3.5	3.4	1.1
Local and interurban passenger transit	41	20.9	12.9	7.4	4.3	5.5	12.9	7.4	4.3	5.4
Trucking and warehousing	42	23.9	9.8	6.7	5.3	3.1	9.6	6.6	5.2	3.0
Trucking and courier services, except air	421	21.2	9.5	6.4	5.2	3.0	9.3	6.3	5.1	3.0
Water transportation	44	--	5.5	2.9	1.5	2.6	5.5	2.9	1.5	2.6
Transportation services	47	11.3	2.3	0.8	0.8	1.5	--	0.8	0.8	1.5
Communications	48	32.0	4.5	2.5	2.2	2.0	4.4	2.4	2.1	2.0
Electric, gas, and sanitary services	49	19.8	8.5	6.3	2.8	2.3	8.4	6.2	2.8	2.2
Electric services	491	9.6	5.4	3.8	0.5	1.6	5.3	3.8	0.5	1.5
Wholesale and retail trade		722.2	5.9	3.0	2.3	2.9	5.7	3.0	2.2	2.8
Wholesale trade		175.4	6.2	3.5	2.2	2.8	6.1	3.4	2.1	2.7
Wholesale trade--durable goods	50	105.7	4.3	2.0	1.4	2.3	4.3	2.0	1.4	2.3
Wholesale trade--nondurable goods	51	69.7	9.4	5.8	3.4	3.6	9.1	5.7	3.3	3.5
Groceries and related products	514	23.3	12.5	8.2	5.4	4.3	12.2	8.0	5.4	4.2
Retail trade		546.8	5.8	2.8	2.3	3.0	5.6	2.8	2.3	2.8
Building materials and garden supplies	52	18.5	7.9	4.7	3.8	3.3	7.9	4.7	3.8	3.3
General merchandise stores	53	43.9	12.9	7.3	6.1	5.7	12.3	7.2	6.1	5.1
Food stores	54	97.3	8.5	4.5	3.6	3.9	7.6	4.4	3.4	3.3
Automotive dealers and service stations	55	44.5	6.6	2.9	2.5	3.7	6.4	2.8	2.5	3.5
Apparel and accessory stores	56	39.1	3.4	1.3	1.1	2.1	3.3	1.3	1.1	2.0
Furniture and homefurnishings stores	57	22.2	4.4	1.9	1.4	2.4	4.3	1.9	1.4	2.4
Eating and drinking places	58	192.8	4.3	1.6	1.5	2.7	4.2	1.6	1.5	2.6
Miscellaneous retail	59	88.4	3.9	2.2	1.4	1.7	3.8	2.1	1.4	1.7
Finance, insurance, and real estate		214.1	1.9	0.6	0.5	1.2	1.7	0.6	0.5	1.2

See footnotes at end of table.

Table 6. Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and selected case types, 1998 -- Continued

Massachusetts

Industry ²	SIC code ³	1998 Annual average employment ⁴ (000's)	Injuries and Illnesses				Injuries			
			Total cases	Lost workday cases		Cases without lost work-days	Total cases	Lost workday cases		Cases without lost work-days
				Total ⁵	With days away from work ⁶			Total ⁵	With days away from work ⁶	
Depository institutions	60	59.8	1.2	0.4	0.3	0.9	1.2	0.3	0.3	0.8
Security and commodity brokers	62	45.4	1.2	0.3	0.3	0.9	1.2	0.3	0.3	0.9
Insurance carriers	63	43.7	2.3	0.6	0.5	1.7	1.9	0.5	0.4	1.4
Insurance agents, brokers, and service	64	20.6	0.9	0.4	0.4	0.5	0.8	0.3	0.3	0.5
Real estate	65	30.2	5.5	2.1	2.0	3.4	5.5	2.1	2.0	3.3
Services		1,074.4	4.9	2.3	1.7	2.6	4.7	2.2	1.6	2.5
Hotels and other lodging places	70	33.4	8.6	3.3	2.6	5.2	8.5	3.3	2.6	5.2
Personal services	72	31.4	3.9	2.0	1.7	1.9	3.7	1.8	1.5	1.9
Business services	73	237.1	2.0	0.9	0.8	1.1	1.9	0.9	0.8	1.0
Auto repair, services, and parking	75	26.6	5.9	3.0	2.7	2.9	5.8	2.9	2.6	2.9
Miscellaneous repair services	76	8.2	4.8	2.7	2.3	2.1	4.8	2.7	2.3	2.1
Health services	80	327.9	8.5	4.2	3.0	4.3	8.1	4.1	2.9	4.0
Nursing and personal care facilities	805	67.0	18.4	8.7	5.5	9.6	18.2	8.7	5.5	9.5
Hospitals	806	131.9	7.2	3.7	2.8	3.5	6.6	3.6	2.7	3.0
Home health care services	808	26.5	10.4	7.1	6.4	3.3	10.3	7.0	6.3	3.3
Legal services	81	28.6	0.7	0.4	0.4	0.3	0.7	0.4	0.4	0.3
Engineering and management services	87	123.1	1.3	0.4	0.3	0.9	1.2	0.3	0.2	0.8

¹ Incidence rates represent the number of injuries and illnesses per 100 full-time workers and were calculated as: (N/EH) x 200,000 where

N = number of injuries and illnesses
 EH = total hours worked by all employees during the calendar year
 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

² Totals include data for industries not shown separately.

³ *Standard Industrial Classification Manual*, 1987 Edition.

⁴ Employment is expressed as an annual average and is derived primarily from the BLS-State Covered Employment and Wages program. Employment in private households (SIC 88) is excluded.

⁵ Total lost workday cases involve days away from work, or days of restricted work activity, or both.

⁶ Days-away-from-work cases include those which result in days away from

work with or without restricted work activity.

⁷ Excludes farms with fewer than 11 employees.

⁸ Data conforming to OSHA definitions for mining operators in coal, metal, and nonmetal mining and for employers in railroad transportation are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor; and the Federal Railroad Administration, U.S. Department of Transportation. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

⁹ Incidence rate less than 0.05.

NOTE: Because of rounding, components may not add to totals.

n.e.c. = not elsewhere classified.

-- Indicates data not available.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Survey of Occupational Injuries and Illnesses, in cooperation with participating State agencies.