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2021 Tennessee Census of Fatal Occupational Injuries, The Survey of Occupational Injuries and Illnesses

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Department of
**Labor & Workforce
Development**

2021 Tennessee Census of Fatal Occupational Injuries

THE SURVEY OF OCCUPATIONAL INJURIES AND ILLNESSES



Technical Assistance: (615) 741-2284

Friday, December 16th, 2022

Workplace Injuries and Illnesses - Tennessee, 2021

Private industry employers reported 53,400 nonfatal workplace injuries in Tennessee in 2021, resulting in an incidence rate of 2.5 cases per 100 full-time equivalent workers.

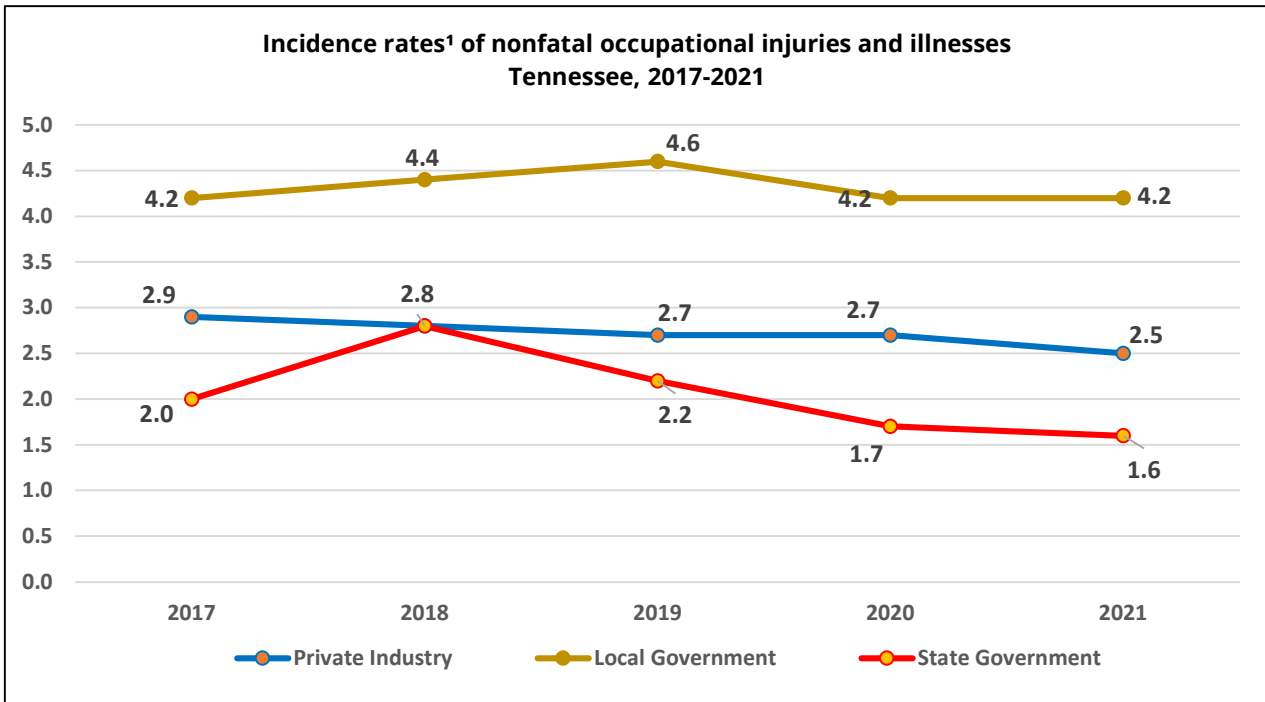
Key findings of the 2021 Survey of Occupational Injuries and Illnesses

- Tennessee was among 12 states and the District of Columbia that had an incidence rate of total recordable cases (TRC) significantly less than the national rate of 2.7.
- TRC incidence rates in private industry ranged from 0.7 in information to 3.4 in education and health services.
- Three supersectors, with 55 percent of private industry employment, accounted for 77 percent of the occupational injuries and illnesses: trade, transportation, and utilities; education and health services; and manufacturing.
- In private industry, the TRC injury and illness incidence rate ranged from 1.9 for establishments employing 11 to 49 workers to 3.0 for establishments employing 1,000 or more workers.
- Of the 53,400 private industry injury and illness cases reported in Tennessee, 32,900 were of a more serious nature, involving days away from work, job transfer or restriction - referred to as DART cases.
- In 2021, 45,600 (85.4 percent) of private industry recordable injuries and illnesses were injuries. Workplace illnesses accounted for an additional 7,800 recordable cases.
- In the state and local government sector in Tennessee, 10,500 injury and illness cases were reported in 2021, resulting in a rate of 3.5 cases per 100 full-time workers. Nationally, the rate was 4.5. Eighty-eight percent of injuries and illnesses reported in Tennessee's public sector occurred among local government workers.

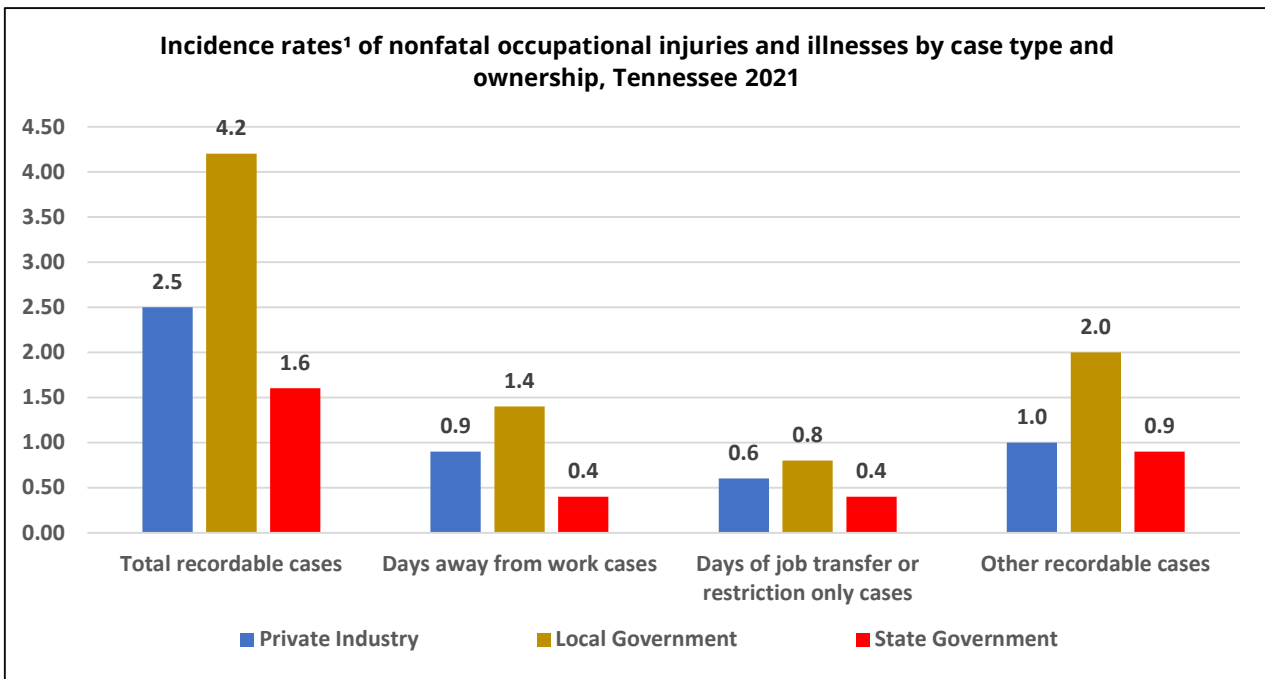
Coronavirus (COVID-19) Pandemic Impact in SOII Results

Occupational injuries and illnesses collected in the 2021 SOII include cases of COVID-19 when a worker was infected as a result of performing their work-related duties and met other recordkeeping criteria. COVID-19 is considered a respiratory illness under criteria established by the Occupational Safety and Health Administration (OSHA).

Tennessee Non-fatal Occupational Injuries and Illnesses - 2021



¹ Incidence rates represent the number of recordable occupational injuries and illnesses per 100 full-time equivalent workers. SOURCE: US Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses, Tennessee Department of Labor & Workforce Development, Wired, November 2022.



¹ Incidence rates represent the number of recordable occupational injuries and illnesses per 100 full-time equivalent workers. Days-away-from-work cases include those that result in days away from work with or without job transfer or restriction. SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Survey of Occupational Injuries and Illnesses, Tennessee Department of Labor & Workforce Development, Wired, November 2022.

Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and case types, Tennessee 2021

Industry ²	NAICS code ³	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
			Total	Cases with days away from work ¹	Cases with job transfer or restriction	
All industries including state and local government⁵		2.6	1.6	0.9	0.6	1.0
Private industry⁵		2.5	1.5	0.9	0.6	1.0
Goods-producing⁵		2.7	1.7	0.9	0.8	0.9
Natural resources and mining^{5,6}		12	0.9	0.8	0.2	0.3
Agriculture, forestry, fishing and hunting⁵		0.9	0.8	0.7	--	--
Mining, quarrying, and oil and gas extraction⁶		1.8	1.3	0.8	--	0.5
Construction		1.7	1.1	0.6	0.5	0.6
Construction		1.7	1.1	0.6	0.5	0.6
Construction of buildings	236	1.4	0.9	0.4	0.5	0.5
Nonresidential building construction	2362	1.5	0.7	0.5	0.2	0.8
Heavy and civil engineering construction	237	1.7	1.1	0.5	0.6	0.6
Highway, street, and bridge construction	2373	2.6	2.2	1.0	1.3	0.4
Specialty trade contractors	238	1.7	1.2	0.6	0.5	0.6
Foundation, structure, and building exterior contractors	2381	2.5	1.7	1.0	0.7	0.8
Roofing contractors	23816	1.7	1.7	0.6	1.1	--
Building equipment contractors	2382	1.6	0.9	0.5	0.4	0.7
Electrical contractors and other wiring installation contractors	23821	0.8	0.4	0.4	--	--
Plumbing, heating, and air-conditioning contractors	23822	2.3	1.3	0.6	0.7	1.0
Building finishing contractors	2383	1.4	1.1	1.1	--	--
Manufacturing		3.1	2.0	1.0	1.0	1.1
Manufacturing		3.1	2.0	1.0	1.0	1.1
Food manufacturing	311	4.3	3.4	2.3	1.2	0.9
Fruit and vegetable preserving and specialty food manufacturing	3114	3.3	2.4	1.5	1.0	0.9
Animal slaughtering and processing	3116	5.5	5.0	4.3	0.7	0.6
Animal slaughtering and processing	31161	5.5	5.0	4.3	0.7	0.6
Bakeries and tortilla manufacturing	3118	5.6	4.4	1.3	3.1	1.2
Beverage and tobacco product manufacturing	312	2.9	1.8	0.9	--	1.1
Beverage manufacturing	3121	2.9	1.7	0.8	--	1.2
Textile mills	313	1.8	0.8	--	0.5	0.9
Textile product mills	314	8.6	4.6	3.9	--	4.0
Apparel manufacturing	315	3.6	1.1	0.8	--	2.5
Wood product manufacturing	321	6.0	4.0	1.8	2.2	2.0
Sawmills and wood preservation	3211	9.5	8.4	4.9	--	1.0
Other wood product manufacturing	3219	4.6	2.7	0.9	1.7	1.9

Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and case types, Tennessee 2021 - continued

Industry ²	NAICS code ³	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
			Total	Cases with days away from work ¹	Cases with job transfer or restriction	
Paper manufacturing	322	2.2	1.2	0.7	0.5	1.0
Pulp, paper, and paperboard mills	3221	1.5	0.8	0.6	--	0.7
Converted paper product manufacturing	3222	2.4	1.4	0.7	0.6	1.1
Paperboard container manufacturing	32221	2.9	1.5	1.0	--	1.4
Printing and related support activities	323	2.7	1.5	0.5	1.0	1.2
Printing and related support activities	3231	2.7	1.5	0.5	1.0	1.2
Printing	32311	2.8	1.5	0.5	1.0	1.2
Commercial printing (except screen and books)	323111	3.0	1.6	0.5	1.1	1.4
Chemical manufacturing	325	1.4	1.1	0.5	0.6	0.4
Basic chemical manufacturing	3251	1.0	0.5	--	--	0.5
Plastics and rubber product manufacturing	326	2.8	1.6	0.9	0.8	1.2
Plastics product manufacturing	3261	2.4	1.1	0.8	0.3	1.3
Rubber product manufacturing	3262	3.3	2.3	0.9	1.4	1.1
Nonmetallic mineral product manufacturing	327	3.2	2.4	1.5	0.8	0.9
Glass and glass product manufacturing	3272	4.0	2.9	1.5	1.5	1.0
Cement and concrete product manufacturing	3273	2.8	1.6	1.3	0.3	1.1
Primary metal manufacturing	331	4.2	2.6	1.2	1.5	1.6
Fabricated metal product manufacturing	332	3.0	2.0	1.2	0.8	1.0
Architectural and structural metals manufacturing	3323	2.5	1.3	0.8	0.5	1.2
Machine shops; turned product; screw, nut and bolt manufacturing	3327	2.3	1.6	1.2	--	0.7
Other fabricated metal product manufacturing	3329	1.8	1.3	0.7	0.6	0.5
Machinery manufacturing	333	2.7	1.4	0.7	0.7	1.3
Agriculture, construction, and mining machinery manufacturing	3331	3.1	1.7	0.6	1.0	1.4
Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	3334	2.3	1.2	0.3	0.8	1.1
Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	33341	2.3	1.2	0.3	0.8	1.1
Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	333415	2.2	1.0	0.3	0.7	1.2
Metalworking machinery manufacturing	3335	--	1.0	1.0	--	--
Other general purpose machinery manufacturing	3339	2.3	1.4	1.1	--	0.9
Computer and electronic product manufacturing	334	3.2	2.0	1.7	--	1.2
Electrical equipment, appliance, and component manufacturing	335	2.7	1.5	0.5	1.0	1.2
Household appliance manufacturing	3352	1.6	1.1	0.3	0.8	0.6
Electrical equipment manufacturing	3353	3.2	2.0	0.7	1.3	1.2
Transportation equipment manufacturing	336	2.8	1.8	0.6	1.2	1.0
Motor vehicle manufacturing	3361	4.4	2.7	0.8	1.9	1.6
Motor vehicle parts manufacturing	3363	2.5	1.7	0.6	1.1	0.7
Motor vehicle gasoline engine and engine parts manufacturing	33631	2.7	2.1	1.0	1.1	0.6
Motor vehicle seating and interior trim manufacturing	33636	2.1	1.5	0.4	1.1	0.6
Other motor vehicle parts manufacturing	33639	2.5	1.7	0.5	1.2	0.8
Ship and boat building	3366	2.4	0.7	--	0.4	1.6
Furniture and related product manufacturing	337	5.4	3.8	1.1	2.7	1.6
Household and institutional furniture and kitchen cabinet manufacturing	3371	5.0	3.7	0.7	3.0	1.3
Miscellaneous manufacturing	339	1.4	1.0	0.7	0.2	0.4
Medical equipment and supplies manufacturing	3391	0.8	0.7	0.5	--	--
Medical equipment and supplies manufacturing	33911	0.8	0.7	0.5	--	--
Other miscellaneous manufacturing	3399	2.2	1.3	1.1	0.2	0.8

Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and case types, Tennessee 2021 - continued

Industry ²	NAICS code ³	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
			Total	Cases with days away from work ¹	Cases with job transfer or restriction	
Service providing		2.4	1.5	0.9	0.5	1.0
Trade, transportation and utilities		3.3	2.4	1.5	1.0	0.9
Wholesale trade		2.6	2.0	0.8	1.1	0.7
Merchant wholesalers, durable goods	423	2.1	1.3	0.7	0.6	0.8
Merchant wholesalers, nondurable goods	424	3.8	3.2	1.1	2.1	0.6
Retail trade		3.7	2.6	1.7	0.8	1.2
Motor vehicle and parts dealers	441	1.6	0.9	0.4	0.5	0.7
Automobile dealers	4411	2.1	1.1	0.6	0.4	1.0
Furniture and home furnishing stores	442	3.2	1.6	1.1	--	1.6
Building material and garden equipment and supplies dealers	444	3.0	2.5	1.3	1.1	0.6
Building material and supplies dealers	4441	3.5	2.8	1.5	1.3	0.7
Food and beverage stores	445	4.0	2.8	1.4	1.4	1.1
Health and personal care stores	446	2.1	0.9	0.5	--	1.3
Gasoline stations	447	1.1	0.3	0.1	0.2	--
Sporting goods, hobby, musical instrument, and book stores	451	1.8	1.2	--	0.6	0.6
General merchandise stores	452	5.2	2.6	1.2	1.4	2.6
Department stores	4522	5.2	3.6	2.9	0.7	1.5
General merchandise stores, including warehouse clubs and supercenters	4523	5.2	2.4	0.8	1.5	2.8
General merchandise store, including warehouse clubs and supercenters	45231	5.2	2.4	0.8	1.5	2.8
Miscellaneous store retailers	453	6.9	6.0	5.1	0.9	0.9
Transportation and warehousing*		3.2	2.5	1.5	1.0	0.7
Truck transportation	484	2.7	2.1	1.6	0.6	0.6
General freight trucking	4841	3.0	2.3	1.6	0.7	0.7
General freight trucking, long-distance	48412	3.2	2.5	1.7	0.7	0.7
General freight trucking, long-distance, truckload	484121	2.7	2.2	1.8	0.4	0.5
Specialized freight trucking	4842	1.6	1.4	1.3	--	0.2
Specialized freight (except used goods) trucking, long-distance	48423	2.1	1.7	1.6	--	0.3
Couriers and messengers	492	4.6	3.8	2.5	1.3	0.8
Couriers and express delivery services	4921	4.8	4.0	2.6	1.3	0.8
Warehousing and storage	493	3.0	2.2	0.9	1.3	0.7
Warehousing and storage	4931	3.0	2.2	0.9	1.3	0.7
Information		0.7	0.3	0.3	--	0.4
Information		0.7	0.3	0.3	--	0.4
Telecommunications	517	1.8	1.1	1.0	--	0.7

Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and case types, Tennessee 2021 - continued

Industry ²	NAICS code ³	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
			Total	Cases with days away from work ¹	Cases with job transfer or restriction	
Financial activities		1.3	0.8	0.5	--	0.6
Finance and insurance		0.5	0.3	0.3	--	--
Real estate and rental and leasing		3.8	2.2	1.2	--	1.6
Professional and business services		1.0	0.5	0.3	0.2	0.5
Professional, scientific, and technical services		0.9	0.3	0.2	0.1	0.6
Management of companies and enterprises		0.4	0.1	0.1	0.1	0.3
Administrative and support and waste management and remediation services.		1.3	0.8	0.5	0.3	0.4
Administrative and support services	561	1.1	0.7	0.5	0.2	0.4
Investigation and security services	5616	1.3	0.7	0.3	0.3	0.7
Services to buildings and dwellings	5617	1.8	1.3	1.0	0.3	0.5
Waste management and remediation services	562	2.6	2.4	1.2	1.3	--
Educational and health services		3.4	1.7	1.2	0.6	1.6
Educational services		1.6	0.6	0.5	0.2	1.0
Health care and social assistance		3.6	1.9	1.3	0.6	1.7
Ambulatory health care services	621	1.6	0.7	0.6	0.1	0.9
Hospitals	622	6.3	2.7	1.6	1.1	3.6
General medical and surgical hospitals	6221	6.3	2.6	1.6	1.1	3.7
Psychiatric and substance abuse hospitals	6222	6.8	4.2	3.0	1.2	2.6
Specialty (except psychiatric and substance abuse) hospitals	6223	5.2	3.0	1.6	1.4	2.2
Nursing and residential care facilities	623	5.6	4.3	3.0	1.3	1.3
Social assistance	624	1.4	0.9	0.5	0.4	0.5
Leisure and hospitality		2.1	0.9	0.5	0.4	1.3
Arts, entertainment and recreation		3.6	1.8	0.6	1.1	1.8
Accommodation and food services		2.0	0.7	0.5	0.3	1.2
Accommodation	721	1.8	0.8	0.3	0.4	1.1
Food services and drinking places	722	2.0	0.7	0.5	0.3	1.2
Restaurants and other eating places	7225	2.0	0.7	0.5	0.3	1.3
Other services (except public administration)		0.8	0.4	--	0.3	0.4
Other services (except public administration)		0.8	0.4	--	0.3	0.4
Repair and maintenance	811	1.2	0.4	--	0.3	0.8

Incidence rates¹ of nonfatal occupational injuries and illnesses by industry and case types, Tennessee 2021 - continued

Industry ²	NAICS code ³	Total recordable cases	Cases with days away from work, job transfer, or restriction			Other recordable cases
			Total	Cases with days away from work ¹	Cases with job transfer or restriction	
State and local government⁵		3.5	1.8	1.1	0.7	1.7
State government⁵		1.6	0.7	0.4	0.4	0.9
Service providing		1.5	0.6	0.3	0.3	0.9
Educational and health services		1.7	0.7	0.2	0.4	1.0
Educational services		1.5	0.5	0.2	0.3	1.0
Educational services	611	1.5	0.5	0.2	0.3	1.0
Colleges, universities, and professional schools	6113	1.1	0.4	0.1	0.3	0.7
Health care and social assistance		3.7	2.5	0.9	1.6	1.2
Hospitals	622	3.5	3.0	--	2.2	--
Public administration		1.3	0.6	0.4	0.1	0.8
Public administration		1.3	0.6	0.4	0.1	0.8
Justice, public order, and safety activities	922	2.4	1.2	0.9	0.3	1.3
Justice, public order, and safety activities	9221	2.4	1.2	0.9	0.3	1.3
Police protection	92212	2.0	--	--	--	--
Correctional institutions	92214	4.8	2.2	1.7	0.5	2.6
Local government⁵		4.2	2.2	1.4	0.8	2.0
Goods-producing⁵		4.5	3.3	2.2	1.1	--
Service providing		4.2	2.2	1.4	0.8	2.0
Trade, transportation and utilities		--	--	--	--	--
Utilities		3.7	2.0	1.1	0.9	1.8
Utilities	221	3.7	2.0	1.1	0.9	1.8
Water, sewage and other systems	2213	4.4	1.9	1.3	0.5	--
Educational and health services		2.9	1.2	0.7	0.5	1.7
Educational services		2.2	0.9	0.5	0.5	1.3
Educational services	611	2.2	0.9	0.5	0.5	1.3
Elementary and secondary schools	6111	2.2	0.9	0.5	0.5	1.3
Health care and social assistance		5.8	2.2	1.5	0.7	3.6
Hospitals	622	5.6	1.7	1.0	0.8	3.8
Nursing and residential care facilities	623	11.6	7.2	6.9	--	4.4
Public administration		6.3	3.7	2.6	1.2	2.5

¹ Incidence rates represent the number of injuries and illnesses per 100 full-time equivalent workers and are 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 Data are coded using the North American Industry Classification System (NAICS). For more information on the version of NAICS used in this year, see the Handbook of Methods concepts page: <https://www.bls.gov/opub/hom/soii/concepts.htm>

⁴ Days-away-from-work cases include those that result in days away with or without job transfer or restriction.

⁵ Excludes farms with fewer than 11 employees.

⁶ Data for Mining (Sector 21 in the North American Industrial Classification System) include establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in oil and gas extraction and related support activities. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore, estimates for these industries are not comparable to estimates of other industries.

⁷ Data for mining operators in this industry are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded. These data do not reflect the changes the Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1, 2002; therefore, estimates for these industries are not comparable to estimates in other industries.

⁸ Data for employers in rail transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation.

⁹ Dashes indicate data too small to be displayed.

Tennessee Census of Fatal Occupational Injuries (CFOI) - 2021

There were 132 fatal work-related injuries in Tennessee during 2021, a decrease of 7 percent from the 142 recorded during 2020.

Key findings of the 2021 Census of Fatal Occupational Injuries

- There were 112 fatal occupational injuries to wage and salary workers and 20 to self-employed persons.
- There were 119 fatal injuries to men and 13 fatal work injuries to women.
- There were 86 fatal work injuries to White (non-Hispanic) workers, 26 to Black or African-American (non-Hispanic) workers, 14 to Hispanic or Latino workers and 6 to Asian (non-Hispanic) workers.
- The greatest number of fatal occupational injuries occurred to workers in the major occupational group of transportation and material moving workers with 48 fatalities.
- Workers between the ages of 45 and 54 years of age suffered the greatest number of work-related injuries with 35 fatalities.

Number of fatal occupational injuries by event or exposure Tennessee, 2017-2021

Event or exposure	2021	2020	2018	2017
Transportation incidents	54	57	42	57
Violence and other injuries by persons or animals	21	29	23	20
Contact with objects and equipment	14	16	24	18
Falls, slips, trips	23	20	19	21
Exposure to harmful substances or environments	20	20	10	12
Fires and explosions	--	--	4	--
Yearly totals	132	142	122	128

NOTE: Totals for major categories may not sum to yearly totals. Dashes indicate no data or data that do not meet publication criteria.

SOURCE: Bureau of Labor Statistics, U.S. Department of Labor, Census of Fatal Occupational Injuries (CFOI), December 16, 2022.

Tennessee Census of Fatal Occupational Injuries (CFOI) - 2021

Number of fatal occupational injuries by worker characteristics and event or exposure Tennessee, 2021 (132 fatalities)

Selected worker characteristics	Total fatalities (Number)	2021					
		Event or exposure ¹					
		Trans- portation incidents ²	Violence and other injuries by persons or animals	Contact with objects and equipment	Falls, slips, trips	Exposure to harmful substances and environments	Fires and explosions
Total	132	54	21	14	23	20	--

Employee status

Wage and salary ²	112	47	18	11	19	17	--
Self-employed ³	20	7	3	3	4	3	--

Gender

Men	119	51	--	14	--	15	--
Women	13	3	--	--	--	5	--

Age

Under 16	--	--	--	--	--	--	--
16 to 17 years	1	--	--	--	--	--	--
18 to 19 years	--	--	--	--	--	--	--
20 to 24 years	3	--	--	--	--	--	--
25 to 34 years	28	9	7	--	--	8	--
35 to 44 years	22	8	2	4	3	5	--
45 to 54 years	35	15	7	--	7	--	--
55 to 64 years	21	11	--	--	7	--	--
65 years and over	20	9	3	3	3	2	--

Race or ethnic origin⁴

White (non-Hispanic)	86	38	9	8	15	16	--
Black or African-American (non-Hispanic)	26	9	--	--	--	4	--
Hispanic or Latino	14	--	--	--	--	--	--
Asian (non-Hispanic)	6	--	--	--	--	--	--

¹ Based on the BLS Occupational Injury and Illness Classification System (OIICS) 2.01 implemented for 2011 data forward.

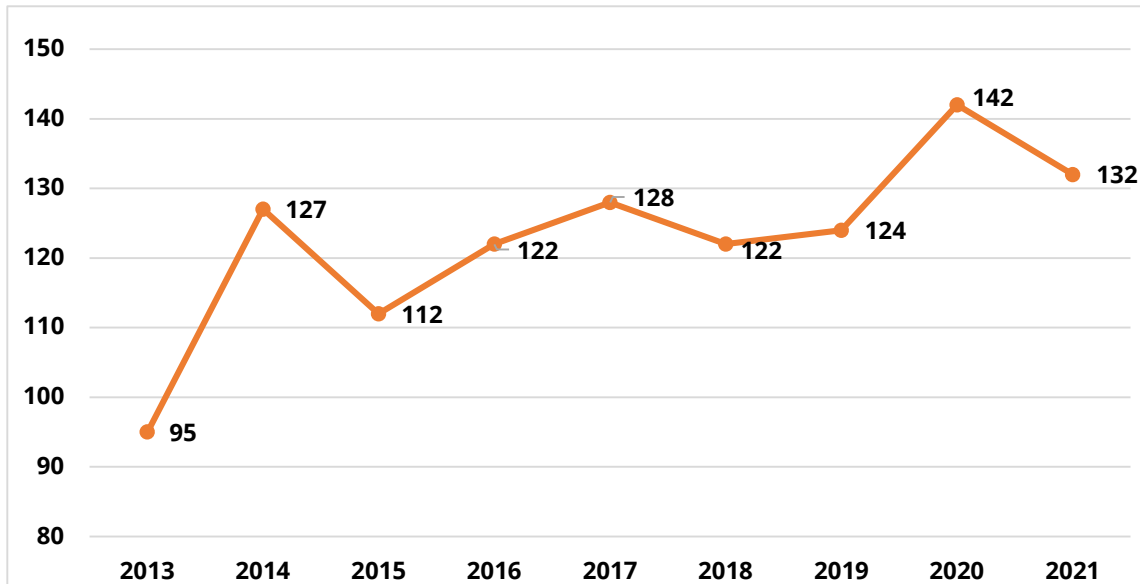
² May include volunteers and workers receiving other types of compensation.

³ Includes self-employed workers, owners of unincorporated businesses and farms, paid and unpaid family workers, and may include some owners of incorporated businesses or members of partnerships.

⁴ Persons identified as Hispanic or Latino may be of any race. The race categories shown exclude data for Hispanic and Latino workers.

Tennessee Census of Fatal Occupational Injuries (CFOI) - 2021

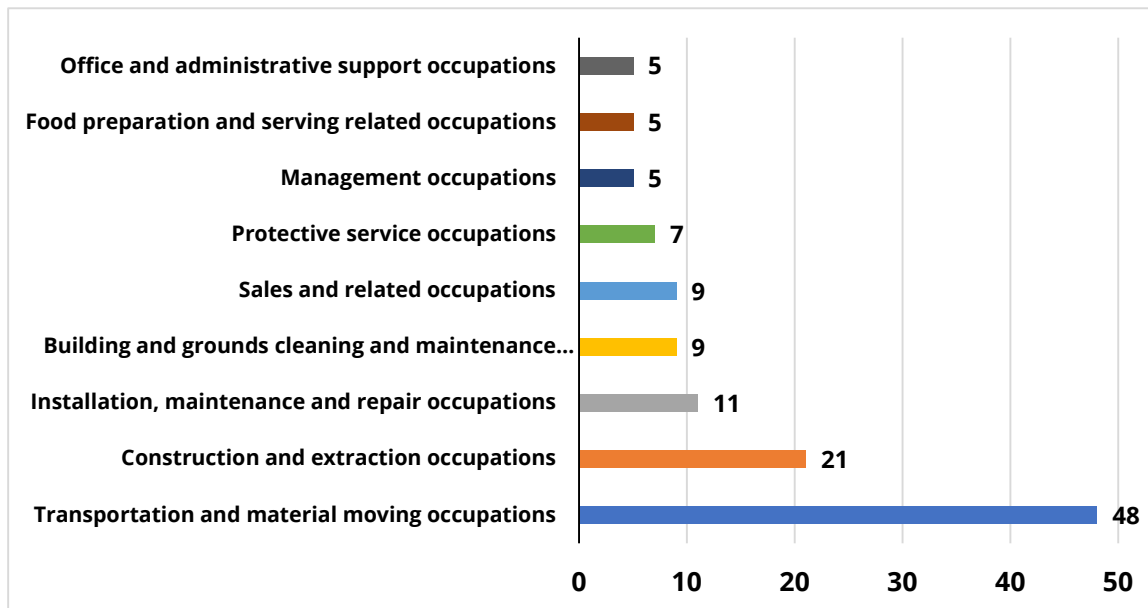
**Number of fatal work-related occupational injuries
Tennessee, 2012-2021**



NOTE: Data for all years are revised and final.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, December, 2022.

**Number of fatal occupational injuries by select occupational group
Tennessee, 2021**



Based on the BLS occupational injury and illness classification system (OIICS) 2.01 implemented for 2011 data forward.

Includes fatal injuries to workers employed by governmental organizations regardless of industry.

NOTE: Data is revised and final. Totals may include subcategories not shown separately.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries, December, 2022.

The Tennessee Department of Labor and Workforce Development is committed to principles of equal opportunity, equal access, and affirmative action. Auxiliary aids and services are available upon request to individuals with disabilities.

