Workplace Electrical Safety
Electrical Incidents: 2003 - 2017

OSHA's Top Electrical Violations of 2018

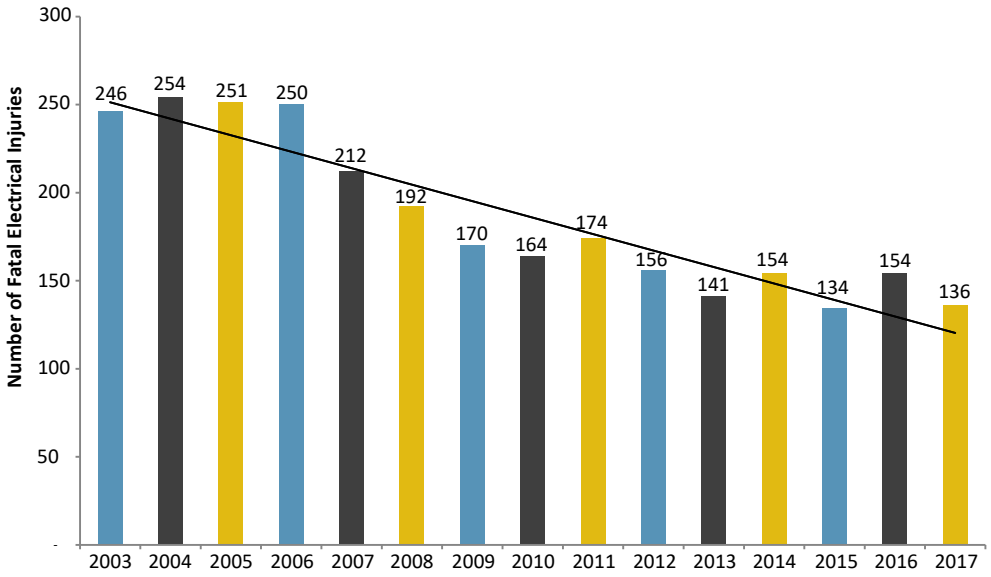
LOCKOUT / TAGOUT

OSHA - 29 CFR 1910.147
NFPA 70E - 120.1
Proper lockout/tagout (LOTO) practices and procedures safeguard workers from the release of hazardous energy.

PERSONAL PROTECTIVE & LIFESAVING EQUIPMENT: EYE & FACE PROTECTION

OSHA - 29 CFR 1926.102
NFPA 70E - 130.7(C)(3)
The employer shall ensure that each affected employee uses appropriate eye or face protection when exposed to eye or face hazards

Electrical Fatalities



Electrical Fatalities 2003 -2017

54% of fatal electrical injuries occured in the construction industry

11% drop in fatal electrical injuries between 2017 and 2016

6th Contact with / exposure to electricity is the 6th most common cause of workplace fatalty

5% of electrical injuries in 2017 were fatal

Electrical Injuries

Electrical Injuries 2003 -2017

360 electrical injuries occured in the construction industry

35% increase in electrical injuries between 2016 and 2017

10 the median number of days away from work due to electrical injury

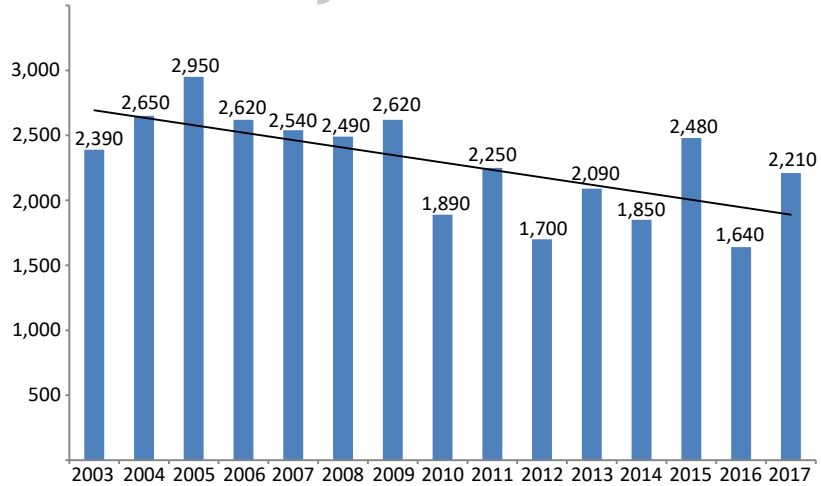


Table 1

Fatalities by Event, all ownerships, 2003 - 2016																	
Rank	**Event or Exposure**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**Fatalities**
1	Transportation, excluding water, rail, air	2,041	2,118	2,173	2,081	2,057	1,829	1,516	1,600	1,670	1,695	1,628	1,737	1,821	1,855	1,835	**27,656**
2	Assaults and Violent Acts	902	809	792	788	864	816	837	832	791	803	773	765	703	866	807	**12,148**
3	Falls	696	822	770	827	847	700	645	646	681	704	724	818	800	849	887	**11,416**
4	Struck by object or equipment	531	602	607	589	504	520	420	404	476	519	509	503	519	553	503	**7,759**
5	Exposure to harmful substances or enviroments, excluding electrical	240	210	250	297	285	247	234	250	245	184	194	236	290	364	395	**3,921**
6	Caught in or compressed by equipment or objects	238	269	278	283	296	302	233	228	145	124	131	132	99	117	108	**2,983**
7	Contact with / Exposure to electric current	246	254	251	250	212	192	170	164	174	156	141	154	134	154	136	**2,788**
8	Aircraft	211	231	149	217	174	191	159	152	145	127	136	135	139	130	126	**2,422**
9	Caught in or crushed in collapsing materials	126	117	109	108	108	100	80	91	84	73	78	74	90	82	70	**1,390**
10	Exposions	75	75	65	99	75	80	60	80	82	88	67	84	75	55	85	**1,145**
11	Water Vehicle	69	91	88	96	71	76	86	60	72	63	60	55	44	48	68	**1,047**
12	Railway	43	50	83	65	49	34	34	45	50	38	41	57	50	50	48	**737**
	Other	157	116	119	140	115	127	77	138	78	54	103	71	72	67	79	**1,513**
	Total Fatalities (all causes)	**5,575**	**5,764**	**5,734**	**5,840**	**5,657**	**5,214**	**4,551**	**4,690**	**4,693**	**4,628**	**4,585**	**4,821**	**4,836**	**5,190**	**5,147**	**76,925**

Compiled by the Electrical Safety Foundation International using data from the U.S. Bureau of Labor Statistics, CFOI, 2003-2017

Table 2

Electrical Fatalities by Event and Nature of Injury, All Ownerships, 2011 - 2017								
Event	**Event Code**	**Electrical Shock**						
		2011	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**
Exposure to electricity	51	171	154	135	146	130	150	135
Direct Exposure to Electricity	511	94	75	83	81	81	86	78
Direct Exposure to Electricity, 220 Volts or less	5111	26	18	26	24	27	29	30
Direct Exposure to Electricity, Greater than 220 Volts	5112	55	52	48	54	52	51	48
Indirect Exposure to Electricity	512	73	73	49	65	47	62	55
Indirect Exposure to Electricity, 220 Volts or Less	5121	11	5	5	7	7	5	8
Indirect Exposure to Electricity, Greater than 220 Volts	5122	60	66	41	58	40	56	47
Event	**Event Code**	**Electrical Burns**						
		2011	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**
Exposure to electricity	51	3	-	6	7	-	-	-
Direct Exposure to Electricity	511	1	-	2	5	-	-	-
Direct Exposure to Electricity, 220 Volts or less	5111	-	-	-	-	-	-	-
Direct Exposure to Electricity, Greater than 220 Volts	5112	1	-	2	5	-	-	-
Indirect Exposure to Electricity	512	-	-	3	-	-	-	-
Indirect Exposure to Electricity, 220 Volts or Less	5121	-	-	-	-	-	-	-
Indirect Exposure to Electricity, Greater than 220 Volts	5122	-	-	-	-	-	-	-

Rows, columns may not sum to total.

Dashes [-] indicate no data or data that do not meet BLS publication criteria.

Compiled by the Electrical Safety Foundation International using data from the U.S. Bureau of Labor Statistics, CFOI, 2011-2017

Table 3

Number of Electrical Fatalities in Selected Industries, by EVENT, Private Industry, 2003 - 2017																
Industry Sector	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**Total**
Construction	132	122	107	126	108	89	89	76	69	66	71	74	81	82	71	1363
Professional and Business Services	23	29	39	21	25	27	24	20	23	30	20	19	18	28	20	366
Trade, Transporations, and Utilities	17	30	29	32	19	19	18	19	16	16	13	16	9	9	12	274
Natural Resources and Mining	16	20	27	27	24	13	9	18	24	21	14	15	9	11	7	255
Manufacturing	22	22	17	14	17	19	15	11	20	11	9	12	7	8	7	211
Other Services	7	6	10	6	5	5	5	-	5	-	5	-	-	4	4	62
Leisure and Hospitality	4	3	6	5	-	3	-	3	4	-	3	6	-	5	7	49
Information	3	6	4	3	-	-	-	4	3	1	-	-	-	-	-	24
Financial Activities	5	-	-	5	3	-	-	4	1	3	-	3	-	-	-	24
Total	**246**	**254**	**251**	**250**	**212**	**192**	**170**	**164**	**174**	**156**	**141**	**156**	**134**	**151**	**131**	**2782**

Dashes [-] indicate no data or data that do not meet publication criteria.
Totals for major categories may include subcategories not shown separately.
Data may not sum to totals due to missing data or categories not shown.

Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with State, New York City, District of Columbia, and Federal agencies, CFOI, 2003-2017

Table 4

Nonfatal Electrical Injuries Involving Days Away from Work, by Event, Private Industry, 1992 - 2016

Year	Total
1992	4,806
1993	4,995
1994	6,018
1995	4,744
1996	4,126
1997	3,710
1998	3,910
1999	4,224
2000	3,704
2001	3,394
2002	2,967
2003	2,390
2004	2,650
2005	2,950
2006	2,620
2007	2,540
2008	2,490
2009	2,620
2010	1,890
2011	2,250
2012	1,700
2013	2,090
2014	1,850
2015	2,480
2016	1,640
2017	2,210
Total	**80,968**

Compiled by the Electrical Safety Foundation International using data from the U.S. Bureau of Labor Statistics, CFOI, 1992-2017

Table 5

Median Number of Days Away from Work for NonFatal Electrical injuries, by Event, Private Industry, 2011 - 2017								
Event	**Event Code**	**Electrocutions, Electric Shocks**						
		2011	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**
Exposure to electricity	51	6	4	16	4	5	5	10
Direct Exposure to Electricity	511	12	4	35	10	5	7	4
Direct Exposure to Electricity, 220 Volts or less	5111	6	4	3	9	5	2	4
Direct Exposure to Electricity, Greater than 220 Volts	5112	45	2	24	10	2	22	12
Indirect Exposure to Electricity	512	5	5	3	1	20	5	4
Indirect Exposure to Electricity, 220 Volts or Less	5121	2	9	2	1	5	5	4
Indirect Exposure to Electricity, Greater than 220 Volts	5122	5	6	63	10	49	2	20

Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with State, New York City, District of Columbia, and Federal agencies, Census of Fatal Occupational Injuries, 2011-2017

Table 6

Fatal Occupational Injuries by Selected Workers Characteristics and Selected Event or Exposure, All U.S., All Ownerships, 2011 - 2017

Characteristic	All Events	Exposure to Electricity Code (51XXXX)						
	2017	2011	2012	2013	2014	2015	2016	2017
Total:	5,147	174	156	141	154	134	154	136
Employee Status:								
Wage and Salary Workers (1)	4,069	141	125	114	126	107	114	101
Self-Employed (2)	1,078	33	31	27	28	27	40	35
Gender:								
Women	386	5	-	-	2	-	4	-
Men	4,761	169	154	141	152	134	150	136
Age:								
Under 16 Years	15	3	-	-	-	-	-	-
16 - 17 Years	7	-	-	-	-	-	1	1
18 - 19 Years	62	3	3	-	-	1	3	4
20 - 24 Years	293	16	17	11	16	12	14	14
25 - 34 Years	872	47	44	42	38	34	41	35
35 - 44 Years	907	42	41	35	36	30	35	27
45 - 54 Years	1,059	44	35	31	33	36	32	29
55 - 64 Years	1,155	12	10	16	23	14	21	19
65 Years and Over	775	6	4	6	6	7	7	7
Race or Ethnic Origin (3):								
White non-Hispanic	3,449	117	111	95	103	93	103	88
Black or African-American non-Hispanic	530	7	7	9	10	9	10	10
Hispanic or Latino	903	47	35	35	38	31	38	33
American Indian or Alaska Native non-Hispanic	38	-	-	-	-	-	-	-
Asian non-Hispanic	144	-	-	-	-	-	3	-
Native Hawaiian or Pacific Islander non-Hispanic	17	-	-	-	-	-	-	-
Person of multiple races non-Hispanic	9	-	-	-	-	-	-	-
Other races or not reported non-Hispanic	57	-	-	-	-	-	-	-
Primary Source (4) (5):								
Chemicals and Chemical products	335	-	-	-	-	-	-	-
Containers, Furniture, and Fixtures	83	7	3	-	8	7	6	-
Machinery	324	26	29	17	16	15	26	14
Agriculture and Gardan Machinery	68	1	3	-	-	-	-	1
Construction, Logging, and Mining Machinery	134	4	3	4	3	-	-	-
Material and Personnel Handling Machinery	76	8	9	-	4	8	8	5

Parts and Materials	190	84	71	79	66	72	58	73
Machine Tool and Electric Parts	78	74	58	71	60	66	55	64
Persons, Plants, Animals, and Minerals	1,013	7	3	4	-	-	5	1
Person-other than Injured or Ill Worker	487	1	-	-	-	-	-	-
Relative or Domestic Partner of Injured or Ill Worker	28	-	-	-	-	-	-	-
Co-worker or work associate of Injured or Ill Worker	90	1	-	-	-	-	-	-
Assilant, Suspect, Inmate	244	-	-	-	-	-	-	-
Robber	128	-	-	-	-	-	-	-
Plants, Trees, Vegetation -- not Processed	169	6	3	4	-	-	5	1
Tree, Logs, Limbs	155	6	3	4	-	-	5	1
Structures and Surfaces	661	6	7	5	9	3	-	4
Buildings -- Office, Plant, Residential	53	-	-	-	-	-	-	-
Structures other than Buildings	123	-	4	-	7	-	1	4
Scaffold Staging	78	2	-	-	-	-	1	1
Other Structural Elements	205	-	1	-	-	-	-	-
Roofs	158	-	-	-	-	-	-	-
Tool, Instruments and Equipment	194	29	21	20	27	22	29	24
Ladders	156	9	11	4	8	10	11	6
Vehicles	2,243	11	16	13	22	5	14	9
Highway Vehicles Motorized	1,736	8	14	11	20	4	12	7
Passenger Vehicles -- Automobiles, Buses, and Passenger Vans	333	-	-	-	-	-	-	-
Trucks -- motorized, freigh hauling, and utility	1,040	7	14	11	18	4	12	7
Multi-purpose Highway Vehicles	355	-	-	-	2	-	-	-
Off-Road and Industrial Vehicles -- Powered	273	3	1	-	-	-	2	1
Industrial Vehicles, Material Hailing, and Transport -- Powered	60	-	1	-	-	-	-	1
Forklift, Order pocker, Playform Truck -- Powered	54	-	1	-	-	-	-	1
Tractors, PTOs	146	-	-	-	-	-	2	-
Secondary Source (4) (6):								
Chemicals and Chemical products	42	-	-	-	-	-	-	-
Containers, Furniture, and Fixtures	55	-	-	-	-	-	-	-
Machinery	156	4	3	-	4	-	-	3
Parts and Materials	224	73	73	49	63	47	63	51
Machine, Tool, and Electric Parts	80	71	72	48	62	46	63	51
Persons, Plants, Animals, and Minerals	264	-	-	1	-	-	-	-
Plants, Trees, Vegetations -- Not Processed	231	-	-	1	-	-	-	-
Trees, Logs, Limbs	224	-	-	1	-	-	-	-
Structures and Surfaces	1,077	1	-	3	-	-	-	-
Confined Spaces	48	1	-	3	-	-	-	-
Structures other than Buildings	183	-	-	-	-	-	-	-
Floors, Walkways, Ground Surfaces	709	-	-	-	-	-	-	-
Tools, Instruments, and Equipment	685	-	-	-	-	-	-	-
Vehicles	853	1	2	-	-	3	-	3
Highway Vehicles Mortorized	762	1	2	-	-	3	-	2
Off-Road and Industrial vehicles -- Powered	41	-	-	-	-	-	-	1

Nature (4):								
Traumatic Injuries to Bones, Nerves, Spinal Cord	190	-	-	-	-	-	-	-
Traumatic Injuries to Muscles, Tendons, Ligaments, Joints, ETC.	24	-	-	-	-	-	-	-
Open Wounds	605	-	-	-	-	-	-	-
Gunshot Wounds	509	-	-	-	-	-	-	-
Surface Wounds and Bruises	4	-	-	-	-	-	-	-
Burns and Corrosions	90	3	-	6	7	-	-	-
Intracranial Injuries	812	-	-	-	-	-	-	-
Effects of Enviromental Conditions	36	-	-	-	-	-	-	-
Multiple Traumatic Injuries and Disorders	2,013	-	-	-	-	3	-	-
Burns and other Injuries except Fractures	80	-	-	-	-	-	-	-
Intracranial Injuries and Injuries to Internal Organs	363	-	-	-	-	-	-	-
Other Traumatic Injuries and Disorders	1,362	171	154	135	146	130	150	135
Asphyxiations, Strangulations, Suffocations	256	-	-	-	-	-	-	-
Drownings	140	-	-	-	-	-	-	-
Electrouctions, Electric Shocks	136	171	154	135	146	130	150	135
Internal Injuries to Organs and Blood Vessels of the Trunk	465	-	-	-	-	-	-	-
Other Poisoning, Toxic, Noxious, or Allergenic Effects	361	-	-	-	-	-	-	-
Part of Body (4):								
Head	1,060	-	-	-	-	-	-	-
Neck including Throat	203	-	-	-	-	-	-	-
Trunk	745	-	-	-	-	-	-	-
Chest including Ribs, Internal Organs	325	-	-	-	-	-	-	-
Back including Spine, Spinal Cord	71	-	-	-	-	-	-	-
Upper Extremities	24	-	-	-	-	-	-	-
Lower Extremities	63	1	-	-	-	-	-	-
Body Systems	779	171	154	136	147	131	151	135
Multiple BodyParts	2,272	-	-	5	7	3	3	-
Head and Neck	140	-	-	-	-	-	-	-
Head, Neck, and Trunk	137	-	-	-	-	-	-	-
Head and Trunk	402	-	-	-	-	-	-	-
Other Multiple Body Parts	492	-	-	-	4	3	1	-
Whole Body	80	-	-	-	-	-	-	-
Worker Activity:								
Vehicular and Transporations Operations	2,132	5	-	-	10	5	7	3
Using or Operating Tools, Machinery	365	41	33	28	34	22	29	30
Constructing, Repairing, Cleaning	1,024	102	94	92	88	85	97	86
Protective Service Activities	132	-	-	-	1	-	1	-
Material Handling Operations	206	16	17	12	13	17	10	14
Physical Activities	325	4	5	4	5	3	6	1
Other Activities	452	-	-	-	3	-	-	-
Tending a Retail Establishment Waiting on Customers	159	-	-	-	-	-	1	-

Location:								
Private Residence	582	49	46	44	52	40	57	46
Farm	421	23	16	9	10	11	10	7
Mine and Quarry	29	-	-	1	3	-	-	-
Industrial Place and Premises	1,007	50	47	46	46	40	45	36
Place for Recreation and Sport	81	3	-	-	3	5	6	4
Street and Highway	1,719	21	18	18	19	17	16	17
Public Building	613	20	11	12	14	10	15	15
Residential Institution	51	-	-	-	-	1	-	1
Occupation (7):								
Management Occupations	396	5	9	4	8	3	5	5
Business and Financial Operations Occupations	29	-	-	-	-	-	-	-
Computer and Mathematical Occupations	11	-	-	-	-	-	-	-
Architecture and Engineering Occupations	23	-	3	-	-	-	1	-
Life, Physcial, and Social Science Occupations	13	-	1	-	-	-	1	-
Community and Social Service Occupations	37	-	-	-	-	-	-	-
Legal Occupations	11	-	-	-	-	-	-	-
Education, Training, and Library Occupations	30	-	-	-	-	-	-	-
Arts, Design, Entertainment, Sports, and Media Occupations	47	-	-	1	-	-	-	-
Heathcare Practitioners and Technical Occupations	57	-	-	-	-	-	-	-
Heathcare Support Occupations	28	-	-	-	-	-	-	-
Protective Service Occupations	266	-	-	-	-	1	2	-
Food Preperations and Serving Related Occupations	89	-	-	-	1	-	-	-
Building and Grounds Cleaning and Maintenance Occupations	236	21	19	16	17	11	23	19
Personal Care and Service Occupations	69	-	-	-	-	-	-	-
Sales and Related Occupations	232	-	-	-	-	-	1	-
Office and Administrative Support Occupations	101	-	-	-	-	-	-	-
Farming, Fishing, and Forestry Occupations	264	15	8	7	5	4	3	4
Construction and Extraction Occupations	965	69	76	65	68	68	69	56
Installation, Maintenance, and Repair Occupations	414	37	32	31	33	31	38	35
Production Occupations	221	11	3	6	8	8	6	6
Transporations and Material Moving Occupations	1,443	8	5	3	10	7	-	4
Military Specific Occupations (8)	72	-	-	-	-	-	-	1
Industry (9):								
Private Industry	4,674	166	152	137	147	130	151	131
Goods producing	1,967	113	98	94	101	97	101	85
Natural Resources and Mining (10)	693	24	21	14	15	9	11	7
Constructions	971	69	66	71	74	81	82	71
Manufacturing	303	20	11	9	12	7	8	7
Service-Providing	2,707	53	54	43	46	33	50	46
Trade, Transportation, and Utilities	1,371	16	16	13	16	9	9	12
Information	43	3	1	-	-	-	-	-

Financial Activities	101	1	3	-	3	-	-	-
Professional and Business Services	532	23	30	20	19	18	28	20
Education and Health Services	189	-	-	-	-	-	-	1
Leisure and Hospitality	262	4	-	3	6	-	5	7
Other Services	205	5	-	5	-	-	4	4
Government (11)	473	8	4	4	7	4	3	5
Federal Government	116	-	-	-	-	-	-	-
State Government	91	3	-	-	-	2	1	-
Local Government	265	5	-	3	6	-	-	3

Footnotes

(1) May include volunteers and workers receiving other types of compensation.

(2) 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.

(3) Persons identified as Hispanic or Latino may be of any race. The race categories shown exclude data for Hispanics

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

(5) The primary source of a fatal occupational injury is the object substance person bodily motion or exposure which most directly led to produced or inflicted the injury or illness.

(6) The secondary source of a fatal occupational injury is the object substance person or exposure other than the source if any which most actively generated the source or contributed to the injury or illness.

(7) CFOI has used several versions of the Standard Occupation Classification (SOC) system since 2003 to define occupation. For more information on the version of SOC used in this year see our definitions page:

(8) Includes fatal injuries to persons identified as resident armed forces regardless of individual occupation listed.

(9) CFOI has used several versions of the North American Industry Classification System (NAICS) since 2003 to define industry. For more information on the version of NAICS used in this year see our definitions page:

(10) Includes fatal injuries at all establishments categorized as Mining (Sector 21) in the North American Industry Classification System including establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting such as those in Oil and Gas Extraction.

(11) Includes all fatal occupational injuries meeting this ownership criterion across all specified years regardless of industry classification system.

NOTE: Totals for major categories may include subcategories not shown separately. Dashes indicate no data reported or data that do not meet publication criteria. N.e.c. means "not elsewhere classified." CFOI fatality counts exclude illness-related deaths unless precipitated by an injury event. Data for all years are final unless footnoted by "P" for

SOURCE: U.S. Department of Labor Bureau of Labor Statistics in cooperation with State New York City District of Columbia and Federal agencies Census of Fatal Occupational Injuries Jan 22, 2019

Table 7

Number of NonFatal Occupational Injuries and Illnesses Involving Days Away from Work (1) by Selected Worker and Case Characteristics and Event or Exposure. All of U.S., Private Industry, 2011 - 2017

Characteristic	All Events	Exposure to Electricity Code (51XXXX)						
	2017	2011	2012	2013	2014	2015	2016	2017
Total:	882,730	2,250	1,700	2,090	1,850	2,480	1,640	2,210
Gender:								
Men	539,840	1,910	1,400	1,750	1,530	2,190	1,290	1,650
Women	339,630	350	280	330	310	270	330	550
Age:								
Under 14	-	-	-	-	-	-	-	-
14 - 15	220	-	-	-	-	-	-	-
16 - 19	25,500	30	-	40	80	20	30	20
20 - 24	83,870	280	250	230	210	260	360	80
25 - 34	187,490	520	480	450	560	590	470	850
35 - 44	173,350	560	300	660	580	590	380	480
45 - 54	198,240	640	430	500	270	540	190	290
55 - 64	160,150	150	110	190	140	450	150	470
65 Years and Over	38,510	20	70	-	-	-	-	20
Occupation (6):								
Management, Business, Financial	26,320	50	90	20	-	40	30	30
Computer, Engineering and Science	5,680	30	30	30	30	20	20	40
Education, Legal, Community Service, Arts, and Media	22,260	-	-	-	40	-	-	-
Healthcare Practitioners and Technical	49,230	30	30	80	20	40	20	370
Service	211,650	380	200	380	270	760	280	740
Sales and Related	55,480	30	50	30	60	60	80	40
Office and Administrative Support	63,140	50	60	30	20	70	30	-
Farming, Fishing, and Forestry	14,760	20	-	20	-	-	30	-
Construction and Extraction	74,560	580	350	460	600	570	420	330
Installation, Maintenance, and Repair	82,690	700	560	800	450	580	430	350
Production	98,320	220	240	160	240	300	210	150
Transporation and Material Moving	178,270	130	90	60	90	30	90	140
Length of Service with Employer:								
Less than 3 Months	101,020	260	170	180	120	350	160	410
3 Months to 11 Months	185,090	410	310	380	550	500	530	280
1 year to 5 Years	297,970	710	620	970	680	800	550	1,050
More Than 5 Years	285,200	820	580	540	470	810	350	450

Race or Ethnic Origin (3):								
White	308,610	1,420	750	680	810	1,180	650	1,300
Black or African American	69,900	160	120	120	160	290	170	180
Hispanic or Latino	122,220	200	210	190	290	340	200	190
Asian	13,040	-	40	-	-	20	-	
Native Hawaiian or Pacific Islander	2,830	-	-	-	-	-	-	
American indian or Alaska Native	3,640	-	30	-	40	30	-	
Hispanic and Other	1,290	-	-	-	-	-	-	
Multi-Race	750	-	-	-	-	-	-	
Not Reported	360,480	450	550	1,090	540	630	610	530
Number of Days Away from Work								
Cases Involving 1 Day	120,990	350	570	280	630	330	330	570
Cases Involving 2 Days	94,380	400	160	370	220	400	260	210
Cases Involving 3 - 5 Days	159,490	330	250	190	170	530	250	290
Cases Involving 6 - 10 Days	103,140	220	190	120	150	120	230	50
Cases Involving 11 - 20 Days	94,690	270	110	120	120	340	50	150
Cases Involving 21 - 30 Days	56,800	170	60	100	110	100	110	220
Cases Involving 31 or More Days	253,240	530	370	900	450	650	410	730
Median Days Away from Work	8	6	4	16	4	5	5	10
Industry Sector:								
Goods Producing Industries (2)	217,100	1,030	600	780	1,040	1,170	860	710
Natural Resources and Mining (2) (3)	21,740	30	-	70	30	50	100	90
Agriculture, Forestry, Fishing, and Hunting	16,970	-	-	60	20	20	40	30
Mining (3)	4,770	20	-	-	20	20	60	50
Construction	79,810	610	340	500	630	790	420	360
Manufacturing	115,550	390	250	210	380	330	340	260
Service Providing Industries	665,630	1,230	1,100	1,300	820	1,310	780	1,500
Trade, Transporation, and Utilities (4)	276,720	480	440	720	270	280	360	280
Wholesale Trade	56,680	80	110	50	20	80	90	20
Retail Trade	120,040	260	110	520	100	140	170	100
Transportations and Warehousing (4)	96,090	90	120	50	50	30	50	60
Utilities	3,920	60	90	100	100	30	50	100
Information	14,820	30	-	20	70	110	30	20
Financial Activities	26,460	120	40	20	-	90	20	340
Finance and Insurance	8,090	-	20	-	-	20	20	-
Real Estate and Rental and Leasing	18,370	110	30	-	-	70	-	330
Professional and Business Services	68,260	110	210	130	100	140	80	360
Professional Scientific and Tehnical Services	18,520	40	70	60	-	-	40	290
Management of Companies and Enterprises	5,250	-	-	30	-	20	-	-
Administrative and Support and Waste Management and Remediation Services	44,490	60	130	50	70	110	40	70
Education and Health Services	162,490	210	120	190	170	400	80	170
Educational Services	10,150	-	20	-	-	-	-	-
Health Care and Social Assistance	152,340	200	100	170	170	390	70	170

Leisure and Hospitality	93,140	260	170	210	160	240	190	330
Arts, Entertainment and Recreation	17,320	20	50	30	20	60	-	150
Accommodation and Food Services	75,820	240	130	190	140	180	180	180
Other Services	23,730	30	110	-	30	50	-	-
Other Services Except Public Administration	23,730	30	110	-	30	50	-	-
Public Administration	-	-	-	-	-	-	-	-
Musculoskeletal Disorders (7):								
Musculoskeletal Disorders	282,750	-	-	-	-	-	-	-
Nature of Injury Illness (8):								
Fractures	83,550	-	-	-	-	-	-	-
Sprains, Strains, and Tears	311,300	-	-	-	-	-	-	-
Amputations	4,440	-	-	-	-	-	-	-
Cuts, Lacerations, Punctures	89,180	-	-	-	-	-	-	-
Cuts, Lacerations	73,220	-	-	-	-	-	-	-
Punctures (Except Gunshot Wounds)	15,960	-	-	-	-	-	-	-
Bruises, Contusions	79,180	-	-	-	-	-	-	-
Chemical Burns, and Corrosions	3,070	-	-	-	-	-	-	-
Heat (Thermal) Burns	13,970	-	-	-	-	-	-	-
Multiple Traumatic Injuries	18,040	-	-	-	-	-	-	-
With Sprains and Other Injuries	8,440	-	-	-	-	-	-	-
With Fractures and Other Injuries	2,720	-	-	-	-	-	-	-
Soreness, Pain	143,260	-	-	-	-	-	-	-
Carpal tunnell Syndrome	5,470	-	-	-	-	-	-	-
Tendonities	2,340	-	-	-	-	-	-	-
All Other	128,910	2,250	1,690	2,090	1,850	2,480	1,640	2,210
Part of Body Affected (8):								
Head	73,950	70	80	60	260	70	30	40
Eye	19,390	40	40	20	-	50	20	-
Neck	11,410	-	-	-	-	-	-	-
Trunk	200,730	-	-	20	-	-	-	-
Back	148,780	-	-	-	-	-	-	-
Upper Extremities	286,150	650	500	220	270	290	410	660
Shoulder	68,160	-	-	-	-	-	-	-
Arm	44,850	110	90	40	40	30	90	40
Wrist	35,200	-	-	-	-	50	-	-
Hand	121,860	360	370	130	180	210	250	550
Lower Extremities	208,060	-	-	-	-	40	20	-
Knee	76,130	-	-	-	-	-	-	-
Ankle	47,800	-	-	-	-	-	-	-
Foot	45,000	-	-	-	-	-	-	-
Toe, Toenail	11,040	-	-	-	-	-	-	-
Body Systems	16,130	1,200	940	1,520	1,070	1,890	940	1,330
Multiple	81,400	310	130	270	240	150	230	160
All Other	4,890	-	30	-	-	30	-	-

Source of Injury, Illness (8):								
Chemicals, Chemical Products	11,020	-	-	-	-	-	-	-
Containers	105,230	20	-	-	-	-	-	-
Furniture Fixtures	35,680	60	50	100	60	210	50	40
Machinery	49,840	420	380	410	250	480	360	1,100
Parts and Materials	74,630	1,290	990	1,370	1,270	1,090	1,030	830
Person, Injured, or Ill Worker	135,540	-	-	-	-	-	-	-
Worker Motion or Position	130,100	-	-	-	-	-	-	-
Person other than Injured or Ill Workers	63,950	110	-	-	-	-	-	-
Health Care Patient	43,350	-	-	-	-	-	-	-
Floors, Walkways, Ground Surfaces	144,260	-	-	-	-	-	-	-
Handtools	43,100	150	60	30	40	270	60	30
Ladders	20,810	-	-	-	-	-	-	-
Vehicles	92,650	40	50	20	-	-	-	30
Trucks	24,400	-	40	-	-	-	-	-
Cart, Dolly, Hand Truck -- Nonpowered	13,680	-	-	-	-	-	-	-
All Other	106,030	170	140	120	190	410	110	120
Secondary Source of Injury, Illness (8):								
Containers, Furniture and Fixtures	-	60	-	-	-	-	-	-
Machinery	-	80	20	20	-	30	50	-
Computer and Peripheral Equipment	-	-	-	-	-	-	-	-
Tools, Instruments, and Equipment	-	30	-	-	70	-	30	-
Firearms, Law Enforcement, and Other Self-Defense Equipment	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-
Highway Vehicle Motorized	-	-	-	-	-	-	-	-
Ice, Sleet, Snow	-	-	-	-	-	-	-	-
Liquid - NonChemical	-	30	-	50	-	-	-	-
Day of Week								
Sunday	56,500	40	50	140	100	170	40	60
Monday	154,130	350	280	290	380	430	270	300
Tuesday	153,630	460	260	420	330	390	440	300
Wednesday	157,340	430	310	240	230	320	210	190
Thursday	148,530	460	390	630	250	560	220	600
Friday	137,320	370	230	270	480	240	260	530
Saturday	75,280	140	180	100	90	380	210	230
Time of Day:								
12:01 AM - 4:00 AM	26,720	40	40	30	50	50	20	30
4:01 AM - 8:00 AM	83,360	230	160	130	170	480	150	160
8:01 AM - 12:00 PM	242,630	920	630	870	500	740	470	630
12:01 PM - 4:00 PM	195,260	460	400	510	680	380	460	670
4:01 PM - 8:00 PM	101,870	180	190	210	210	210	210	230
8:01 PM - 12:00 AM	54,360	90	100	40	100	160	70	70

Not Reported	178,520	350	170	290	150	460	260	440
Hours Worked:								
Occurred Before Shift Began	5,350	-	-	-	-	-	-	-
Less than 1 Hour	70,510	310	180	90	60	490	80	170
1 - 2 Hours	80,420	170	100	130	120	260	110	150
2 - 4 Hours	179,470	550	470	820	340	370	310	330
4 - 6 Hours	139,050	300	250	280	640	340	280	540
6 - 8 Hours	120,820	350	300	230	350	290	250	300
8 - 10 Hours	62,820	130	80	160	50	180	200	60
10 - 12 Hours	18,780	40	80	30	70	-	30	30
12 - 16 Hours	7,660	-	-	-	20	20	60	130
More Than 16 Hours	900	-	-	-	-	-	-	-
Not Reported	196,950	410	210	330	190	530	300	500

Footnotes

(1) Days away from work include those that result in days away from work with or without job transfer

(2) Excludes farms with fewer than 11 employees.

(3) Data for mining (Sector 21 in the North American Industry Classification System -- United States 2007) 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 Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1 2002; therefore estimates for these industries are not comparable with estimates for other industries.

(4) Data for employers in railroad transportation are provided to BLS by the Federal Railroad Administration U.S. Department of Transportation. These data do not reflect the changes Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1 2002; therefore estimates for these industries are not comparable with estimates for other industries.

(5) Median days away from work is the measure used to summarize the varying lengths of absences from work among the cases with days away from work. Half the cases involved more days and half involved less days than a specified median. Median days away from work are represented in actual values

(6) Standard Occupational Classification Manual 2010 Office of Management and Budget

(7) Musculoskeletal disorders (MSDs) include cases where the nature of the injury or illness is pinched nerve; herniated disc; meniscus tear; sprains strains tears; hernia (traumatic and nontraumatic); pain swelling and numbness; carpal or tarsal tunnel syndrome; Raynaud's syndrome or phenomenon; musculoskeletal system and connective tissue diseases and disorders when the event or exposure leading to the injury or illness is overexertion and bodily reaction unspecified; overexertion involving outside sources; repetitive motion involving microtasks; other and multiple exertions or bodily reactions; and rubbed abraded or jarred by vibration.

(8) Occupational Injury and Illness Classification System 2.01

NOTE: Because of rounding and data exclusion of nonclassifiable responses data may not sum to the totals. Dashes indicate data that do not meet publication guidelines. The scientifically selected probability sample used was one of many possible samples each of which could have produced different estimates. A measure of sampling variability for each estimate is available upon request -- please contact iifstaff@bls.gov or call (202) 691-6170. For additional information about methodology and coding structures see the BLS Handbook of Methods chapter 9: http://www.bls.gov/opub/hom/homch9.htm .

Table 8

Number of NonFatal Occupational Injuries and Illnesses Involving Days Away from Work (1) by Selected Worker and Case Characteristics and Nature of Condition. All of U.S., Private Industry, 2011 - 2017

Characteristic	All Events	Electrocutions, Electric Shocks (193XXX)						
	2017	2011	2012	2013	2014	2015	2016	2017
Total:	882,730	1,290	980	1,530	1,080	1,910	960	1,330
Gender:								
Men	539,840	1,030	740	1,230	820	1,640	630	850
Women	339,630	250	240	300	250	250	310	470
Age:								
Under 14	-	-	-	-	-	-	-	-
14 - 15	220	-	-	-	-	-	-	-
16 - 19	25,500	30	-	30	80	20	30	-
20 - 24	83,870	170	200	170	160	180	270	40
25 - 34	187,490	280	290	330	380	500	250	660
35 - 44	173,350	220	200	570	240	400	180	310
45 - 54	198,240	440	180	320	160	460	110	190
55 - 64	160,150	80	50	120	60	330	90	120
65 Years and Over	38,510	-	-	-	-	-	-	-
Occupation (6):								
Management, Business, Financial	26,320	40	60	20	-	40	20	30
Computer, Engineering and Science	5,680	20	-	20	20	20	20	-
Education, legal, Community Service, Arts, and Media	22,260	-	-	-	40	-	-	-
Healthcare Practitioners and Technical	49,230	20	30	80	20	30	-	370
Service	211,650	310	130	300	260	730	240	390
Sales and Related	55,480	30	40	20	40	50	80	30
Office and Administrative Support	63,140	20	50	20	20	70	30	-
Farming, Fishing, and Forestry	14,760	-	-	20	-	-	30	-
Construction and Extraction	74,560	220	150	310	150	370	110	120
Installation, Maintenance, and Repair	82,690	370	250	530	260	330	210	190
Production	98,320	170	160	140	200	230	130	80
Transporation and Material Moving	178,270	60	80	60	70	30	70	90
Length of Service with Employer:								
Less than 3 Months	101,020	140	150	120	70	280	80	380
3 Months to 11 Months	185,090	240	170	320	220	440	290	160
1 year to 5 Years	297,970	370	350	790	500	570	320	510
More Than 5 Years	285,200	480	300	290	270	600	220	260

Race or Ethnic Origin (3):								
White	308,610	790	370	460	380	970	320	730
Black or African American	69,900	100	50	100	150	260	150	120
Hispanic or Latino	122,220	70	120	100	210	230	100	90
Asian	13,040	-	20	-	-	-	-	-
Native Hawaiian or Pacific Islander	2,830	-	-	-	-	-	-	-
American indian or Alaska Native	3,640	-	30	-	-	-	-	-
Hispanic and Other	1,290	-	-	-	-	-	-	-
Multi-Race	750	-	-	-	-	-	-	-
Not Reported	360,480	330	390	860	300	430	380	380
Number of Days Away from Work								
Cases Involving 1 Day	120,990	290	420	220	350	270	270	490
Cases Involving 2 Days	94,380	270	140	350	180	370	180	120
Cases Involving 3 - 5 Days	159,490	220	100	90	140	440	200	240
Cases Involving 6 - 10 Days	103,140	90	80	70	60	80	90	30
Cases Involving 11 - 20 Days	94,690	100	40	70	50	190	20	70
Cases Involving 21 - 30 Days	56,800	70	20	20	60	50	60	180
Cases Involving 31 or More Days	253,240	240	160	720	240	510	140	210
Median Days Away from Work	8	4	2	16	3	5	3	3
Industry Sector:								
Goods Producing Industries (2)	217,100	460	320	570	440	840	380	310
Natural Resources and Mining (2) (3)	21,740	-	-	50	20	30	40	40
Agriculture, Forestry, Fishing, and Hunting	16,970	-	-	50	20	20	40	-
Mining (3)	4,770	-	-	-	-	-	-	-
Construction	79,810	190	140	340	170	610	150	140
Manufacturing	115,550	250	170	170	260	200	180	130
Service Providing Industries	665,630	830	660	970	640	1,060	580	1,030
Trade, Transporation, and Utilities (4)	276,720	330	250	550	180	210	230	180
Wholesale Trade	56,680	-	30	40	-	50	20	20
Retail Trade	120,040	250	90	480	90	120	170	80
Transportations and Warehousing (4)	96,090	60	90	20	40	20	30	50
Utilities	3,920	20	30	-	30	20	-	40
Information	14,820	30	-	20	60	60	30	20
Financial Activities	26,460	20	-	-	-	30	20	30
Finance and Insurance	8,090	-	-	-	-	20	20	-
Real Estate and Rental and Leasing	18,370	-	-	-	-	-	-	30
Professional and Business Services	68,260	90	160	70	70	120	70	350
Professional Scientific and Tehnical Services	18,520	30	40	-	-	-	30	280
Management of Companies and Enterprises	5,250	-	-	-	-	-	-	-
Administrative and Support and Waste Management and Remediation Services	44,490	60	110	30	50	110	30	70
Education and Health Services	162,490	120	60	170	160	380	60	150

Educational Services	10,150	-	-	-	-	-	-	-
Health Care and Social Assistance	152,340	110	60	150	160	370	50	140
Leisure and Hospitality	93,140	240	100	160	140	220	170	300
Arts, Entertainment and Recreation	17,320	20	30	-	-	60	-	150
Accommodation and Food Services	75,820	220	70	140	130	150	160	150
Other Services	23,730	-	70	-	-	50	-	-
Other Services Except Public Administration	23,730	-	70	-	-	50	-	-
Public Administration	-	-	-	-	-	-	-	-
Musculoskeletal Disorders (7):								
Musculoskeletal Disorders	282,750	-	-	-	-	-	-	-
Event or Exposure (8):								
Violence and Other Injuries by Persons or Animal	39,750	-	-	-	-	-	-	-
Intentional Injury by Other Person	18,400	-	-	-	-	-	-	-
Injury by Person Unintentional or Intent Unknown	10,170	-	-	-	-	-	-	-
Animal and Inspect Related Incidents	10,880	-	-	-	-	-	-	-
Transportation Incidents	47,910	-	-	-	-	-	-	-
Roadway Incidents Involving Motorized Land Vehicles	30,890	-	-	-	-	-	-	-
Fires Expolosions	1,470	-	-	-	-	-	-	-
Falls, Slips, Trips	227,760	-	-	-	-	-	-	-
Slip, Trips without Fall	33,720	-	-	-	-	-	-	-
Fall on Same Level	142,770	-	-	-	-	-	-	-
Fall to Lower Level	47,180	-	-	-	-	-	-	-
Exposure to Harmful Substances or Environments	37,110	1,290	970	1,530	1,080	1,900	940	1,330
Contact with Object Equipment	229,170	-	-	-	-	-	-	-
Struct by Object	136,510	-	-	-	-	-	-	-
Struck Against Object	45,370	-	-	-	-	-	-	-
Caught in Object Equipment Material	32,260	-	-	-	-	-	-	-
Overexertion and Bodily Reaction	295,830	-	-	-	-	-	-	-
Overexertion in Lifting or Lowering	97,990	-	-	-	-	-	-	-
Repetitive Motion Involving Microtasks	23,040	-	-	-	-	-	-	-
All Other	3,730	-	-	-	-	-	-	-
Part of Body Affected (8):								
Head	73,950	-	-	-	-	-	-	-
Eye	19,390	-	-	-	-	-	-	-
Neck	11,410	-	-	-	-	-	-	-
Trunk	200,730	-	-	-	-	-	-	-
Back	148,780	-	-	-	-	-	-	-
Upper Extremities	286,150	80	20	-	-	-	-	-
Shoulder	68,160	-	-	-	-	-	-	-
Arm	44,850	-	-	-	-	-	-	-

Wrist	35,200	-	-	-	-	-	-	-
Hand	121,860	70	-	-	-	-	-	-
Lower Extremities	208,060	-	-	-	-	-	-	-
Knee	76,130	-	-	-	-	-	-	-
Ankle	47,800	-	-	-	-	-	-	-
Foot	45,000	-	-	-	-	-	-	-
Toe, Toenail	11,040	-	-	-	-	-	-	-
Body Systems	16,130	1,200	940	1,520	1,070	1,900	960	1330
Multiple	81,400	-	-	-	-	-	-	-
All Other	4,890	-	-	-	-	-	-	-
Source of Injury, Illness (8):								
Chemicals, Chemical Products	11,020	-	-	-	-	-	-	-
Containers	105,230	20	-	-	-	-	-	-
Furniture Fixtures	35,680	50	30	90	50	200	40	-
Machinery	49,840	380	320	360	200	400	270	710
Parts and Materials	74,630	610	430	930	610	640	510	470
Person, Injured, or Ill Worker	135,540	-	-	-	-	-	-	-
Worker Motion or Position	130,100	-	-	-	-	-	-	-
Person other than Injured or Ill Workers	63,950	-	-	-	-	-	-	-
Health Care Patient	43,350	-	-	-	-	-	-	-
Floors, Walkways, Ground Surfaces	144,260	-	-	-	-	-	-	-
Handtools	43,100	100	40	30	30	260	-	-
Ladders	20,810	-	-	-	-	-	-	-
Vehicles	92,650	40	40	-	-	-	-	20
Trucks	24,400	-	-	-	-	-	-	-
Cart, Dolly, Hand Truck -- Nonpowered	13,680	-	-	-	-	-	-	-
All Other	106,030	90	90	70	160	380	90	90
Secondary Source of Injury, Illness (8):								
Containers, Furniture and Fixtures	-	-	-	-	-	-	-	-
Machinery	-	60	-	-	-	-	-	-
Computer and Peripheral Equipment	-	-	-	-	-	-	-	-
Tools, Instruments, and Equipment	-	-	-	-	50	-	30	-
Firearms, Law Enforcement, and Other Self-Defense Equipment	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-
Highway Vehicle Motorized	-	-	-	-	-	-	-	-
Ice, Sleet, Snow	-	-	-	-	-	-	-	-
Liquid - NonChemical	-	30	-	50	-	-	-	-
Day of Week								
Sunday	56,500	40	30	120	80	160	30	40
Monday	154,130	180	170	180	300	290	190	160
Tuesday	153,630	260	130	360	200	290	210	160
Wednesday	157,340	190	180	140	140	270	160	120
Thursday	148,530	270	180	540	180	420	110	220

Friday	137,320	270	120	110	110	130	140	420
Saturday	75,280	80	160	80	70	360	120	200
Time of Day:								
12:01 AM - 4:00 AM	26,720	30	-	30	20	50	-	-
4:01 AM - 8:00 AM	83,360	150	60	80	90	420	70	70
8:01 AM - 12:00 PM	242,630	520	380	690	290	560	300	370
12:01 PM - 4:00 PM	195,260	210	270	380	330	270	240	550
4:01 PM - 8:00 PM	101,870	100	130	180	180	160	100	190
8:01 PM - 12:00 AM	54,360	70	50	30	60	140	60	50
Not Reported	178,520	200	80	140	110	320	190	90
Hours Worked:								
Occurred Before Shift Began	5,350	-	-	-	-	-	-	-
Less than 1 Hour	70,510	140	60	60	40	440	60	110
1 - 2 Hours	80,420	110	60	80	50	180	90	60
2 - 4 Hours	179,470	380	300	710	190	260	190	220
4 - 6 Hours	139,050	160	140	200	270	250	180	420
6 - 8 Hours	120,820	200	200	190	280	250	130	230
8 - 10 Hours	63,820	20	70	100	30	150	50	20
10 - 12 Hours	18,780	-	70	20	70	-	-	-
12 - 16 Hours	7,660	-	-	-	-	-	-	130
More Than 16 Hours	900	-	-	-	-	-	-	-
Not Reported	196,950	250	90	150	120	370	250	140

Footnotes

(1) Days away from work include those that result in days away from work with or without job transfer or restriction.

(2) Excludes farms with fewer than 11 employees.

(3) Data for mining (Sector 21 in the North American Industry Classification System -- United States 2007) 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 Occupational Safety and Health Administration made to its recordkeeping requirements effective January 1 2002; therefore estimates for these industries are not comparable with estimates for other industries.

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(5) Median days away from work is the measure used to summarize the varying lengths of absences from work among the cases with days away from work. Half the cases involved more days and half involved less days than a specified median. Median days away from work are represented in actual values.

(6) Standard Occupational Classification Manual 2010 Office of Management and Budget

(7) Musculoskeletal disorders (MSDs) include cases where the nature of the injury or illness is pinched nerve; herniated disc; meniscus tear; sprains strains tears; hernia (traumatic and nontraumatic); pain swelling and numbness; carpal or tarsal tunnel syndrome; Raynaud's syndrome or phenomenon; musculoskeletal system and connective tissue diseases and disorders when the event or exposure leading to the injury or illness is overexertion and bodily reaction unspecified; overexertion involving outside sources; repetitive motion involving microtasks; other and multiple exertions or bodily reactions; and rubbed abraded or jarred by vibration.
(8) Occupational Injury and Illness Classification System 2.01

NOTE: Because of rounding and data exclusion of nonclassifiable responses data may not sum to the totals. Dashes indicate data that do not meet publication guidelines. The scientifically selected probability sample used was one of many possible samples each of which could have produced different estimates. A measure of sampling variability for each estimate is available upon request -- please contact iifstaff@bls.gov or call (202) 691-6170. For additional information about methodology and coding structures see the BLS Handbook of Methods chapter 9: http://www.bls.gov/opub/hom/homch9.htm . SOURCE: Bureau of Labor Statistics U.S. Department of Labor Jan 22 2019

Table 9

Number of NonFatal Occupational Injuries and Illnesses Involving Days Away from Work (1) by Selected Worker and Case Characteristics and Event or Exposure. All of U.S., Private Industry, 2011 - 2017

Characteristic	All Events	Electrical Burns (153XXX)						
	2017	2011	2012	2013	2014	2015	2016	2017
Total:	882,730	1,020	740	560	780	580	760	900
Gender:								
Men	539,840	920	680	520	730	550	730	810
Women	339,630	90	50	30	50	20	20	80
Age:								
Under 14	-	-	-	-	-	-	-	-
14 - 15	220	-	-	-	-	-	-	-
16 - 19	25,500	-	-	20	-	-	-	-
20 - 24	83,870	110	50	60	6090		90	40
25 - 34	187,490	250	200	120	180	90	220	190
35 - 44	173,350	340	110	90	340	190	240	170
45 - 54	198,240	230	250	190	110	80	80	110
55 - 64	160,150	70	70	70	80	120	60	350
65 Years and Over	38,510	-	70	-	-	-	20	20
Occupation (6):								
Management, Business, Financial	26,320	-	20	-	-	-	-	-
Computer, Engineering and Science	5,680	-	30	-	20	-	-	30
Education, legal, Community Service, Arts, and Media	22,260	-	-	-	-	-	-	-
Healthcare Practitioners and Technical	49,230	-	-	-	-	-	-	-
Service	211,650	70	70	80	20	30	40	350
Sales and Related	55,480	-	-	-	30	-	-	-
Office and Administrative Support	63,140	20	-	-	-	-	-	-
Farming, Fishing, and Forestry	14,760	-	-	-	-	-	-	-
Construction and Extraction	74,560	390	210	150	460	190	310	220
Installation, Maintenance, and Repair	82,690	340	310	270	190	250	260	170
Production	98,320	50	80	20	40	70	80	70
Transporation and Material Moving	178,270	70	-	-	20	-	40	50
Length of Service with Employer:								
Less than 3 Months	101,020	120	20	60	50	80	110	30
3 Months to 11 Months	185,090	200	140	60	340	60	240	120
1 year to 5 Years	297,970	350	270	190	180	230	230	550
More Than 5 Years	285,200	350	300	250	200	220	160	190

Race or Ethnic Origin (3):								
White	308,610	650	380	220	430	210	370	570
Black or African American	69,900	60	60	20	20	20	40	70
Hispanic or Latino	122,220	150	100	90	80	100	100	100
Asian	13,040	-	20	-	-	20	-	-
Native Hawaiian or Pacific Islander	2,830	-	-	-	-	-	-	-
American indian or Alaska Native	3,640	-	-	-	-	30	-	-
Hispanic and Other	1,290	-	-	-	-	-	-	-
Multi-Race	750	-	-	-	-	-	-	-
Not Reported	360,480	140	180	230	240	200	230	160
Number of Days Away from Work								
Cases Involving 1 Day	120,990	60	150	70	280	70	140	80
Cases Involving 2 Days	94,380	120	20	30	50	30	80	90
Cases Involving 3 - 5 Days	159,490	110	150	100	40	90	40	60
Cases Involving 6 - 10 Days	103,140	150	110	50	100	50	130	20
Cases Involving 11 - 20 Days	94,690	170	80	50	70	150	30	80
Cases Involving 21 - 30 Days	56,800	110	30	80	50	50	50	40
Cases Involving 31 or More Days	253,240	290	210	180	210	140	280	530
Median Days Away from Work	8	13	7	15	9	13	10	42
Industry Sector:								
Goods Producing Industries (2)	217,100	600	310	230	610	330	490	420
Natural Resources and Mining (2) (3)	21,740	30	-	30	30	-	70	50
Agriculture, Forestry, Fishing, and Hunting	16,970	-	-	-	-	-	-	30
Mining (3)	4,770	30	-	20	20	-	70	20
Construction	79,810	430	210	160	460	190	270	230
Manufacturing	115,550	140	90	40	120	130	160	140
Service Providing Industries	665,630	420	430	340	170	250	260	480
Trade, Transporation, and Utilities (4)	276,720	170	180	180	100	80	170	100
Wholesale Trade	56,680	60	80	-	-	40	60	-
Retail Trade	120,040	-	20	40	-	20	40	20
Transportations and Warehousing (4)	96,090	40	20	30	-	-	20	-
Utilities	3,920	50	50	90	70	20	50	60
Information	14,820	-	-	-	-	50	-	-
Financial Activities	26,460	100	30	20	-	60	-	300
Finance and Insurance	8,090	-	-	-	-	-	-	-
Real Estate and Rental and Leasing	18,370	100	-	-	-	60	-	300
Professional and Business Services	68,260	-	50	60	30	20	-	-
Professional Scientific and Tehnical Services	18,520	-	30	-	-	-	-	-
Management of Companies and Enterprises	5,250	-	-	-	-	20	-	-
Administrative and Support and Waste Management and Remediation Services	44,490	-	20	20	30	-	-	-
Education and Health Services	162,490	100	60	20	-	20	20	30
Educational Services	10,150	-	-	-	-	-	-	-
Health Care and Social Assistance	152,340	100	40	20	-	20	20	30

Leisure and Hospitality	93,140	20	70	60	20	20	40	30
Arts, Entertainment and Recreation	17,320	-	20	-	-	-	-	-
Accommodation and Food Services	75,820	20	50	40	-	20	40	30
Other Services	23,730	30	40	-	-	-	-	-
Other Services Except Public Administration	23,730	30	40	-	-	-	-	-
Public Administration	-	-	-	-	-	-	-	-
Musculoskeletal Disorders (7):								
Musculoskeletal Disorders	282,750	-	-	-	-	-	-	-
Event or Exposure (8):								
Violence and Other Injuries by Persons or Animal	39,750	-	-	-	-	-	-	-
Intentional Injury by Other Person	18,400	-	-	-	-	-	-	-
Injury by Person Unintentional or Intent Unknown	10,170	-	-	-	-	-	-	-
Animal and Inspect Related Incidents	10,880	-	-	-	-	-	-	-
Transportation Incidents	47,910	-	-	-	-	-	-	-
Roadway Incidents Involving Motorized Land Vehicles	30,890	-	-	-	-	-	-	-
Fires Expolosions	1,470	40	20	-	-	-	50	20
Falls, Slips, Trips	227,760	-	-	-	-	-	-	-
Slip, Trips without Fall	33,720	-	-	-	-	-	-	-
Fall on Same Level	142,770	-	-	-	-	-	-	-
Fall to Lower Level	47,180	-	-	-	-	-	-	-
Exposure to Harmful Substances or Environments	37,110	970	720	560	770	580	710	880
Contact with Object Equipment	229,170	-	-	-	-	-	-	-
Struct by Object	136,510	-	-	-	-	-	-	-
Struck Against Object	45,370	-	-	-	-	-	-	-
Caught in Object Equipment Material	32,260	-	-	-	-	-	-	-
Overexertion and Bodily Reaction	295,830	-	-	-	-	-	-	-
Overexertion in Lifting or Lowering	97,990	-	-	-	-	-	-	-
Repetitive Motion Involving Microtasks	23,040	-	-	-	-	-	-	-
All Other	3,730	-	-	-	-	-	-	-
Part of Body Affected (8):								
Head	73,950	70	90	60	250	70	70	40
Eye	19,390	40	40	20	-	50	20	-
Neck	11,410	-	-	-	-	-	-	-
Trunk	200,730	-	-	20	-	-	-	-
Back	148,780	-	-	-	-	-	-	-
Upper Extremities	286,150	570	490	210	260	290	420	660
Shoulder	68,160	-	-	-	-	-	-	-
Arm	44,850	100	70	40	40	30	90	40
Wrist	35,200	-	-	-	-	50	-	-
Hand	121,860	290	370	130	180	210	250	550
Lower Extremities	208,060	-	-	-	-	40	20	-

Knee	76,130	-	-	-	-	-	-	-
Ankle	47,800	-	-	-	-	-	-	-
Foot	45,000	-	-	-	-	-	-	-
Toe, Toenail	11,040	-	-	-	-	-	-	-
Body Systems	16,130	-	-	-	-	-	-	-
Multiple	81,400	340	120	270	240	150	230	160
All Other	4,890	-	30	-	-	30	20	20
Source of Injury, Illness (8):								
Chemicals, Chemical Products	11,020	-	-	-	-	-	-	40
Containers	105,230	-	-	-	-	-	-	-
Furniture Fixtures	35,680	-	20	-	-	-	-	30
Machinery	49,480	60	70	50	40	70	90	390
Parts and Materials	74,630	700	570	450	660	460	520	370
Person, Injured, or Ill Worker	135,540	-	-	-	-	-	-	-
Worker Motion or Position	130,100	-	-	-	-	-	-	-
Person other than Injured or Ill Workers	63,950	110	-	-	-	-	-	-
Health Care Patient	43,350	-	-	-	-	-	-	-
Floors, Walkways, Ground Surfaces	144,260	-	-	-	-	-	-	-
Handtools	43,100	50	20	-	-	-	60	20
Ladders	20,810	-	-	-	-	-	-	-
Vehicles	92,650	-	-	-	-	-	-	-
Trucks	24,400	-	-	-	-	-	-	-
Cart, Dolly, Hand Truck -- Nonpowered	13,680	-	-	-	-	-	-	-
All Other	106,030	90	50	50	30	30	30	40
Secondary Source of Injury, Illness (8):								
Containers, Furniture and Fixtures	-	-	-	-	-	-	-	-
Machinery	-	20	-	-	-	20	50	-
Computer and Peripheral Equipment	-	-	-	-	-	-	-	-
Tools, Instruments, and Equipment	-	30	-	-	20	-	20	-
Firearms, Law Enforcement, and Other Self-Defense Equipment	-	-	-	-	-	-	-	-
Vehicles	-	-	-	-	-	-	-	-
Highway Vehicle Motorized	-	-	-	-	-	-	-	-
Ice, Sleet, Snow	-	-	-	-	-	-	-	-
Liquid - NonChemical	-	-	-	-	-	-	-	-
Day of Week								
Sunday	56,500	30	20	20	20	-	-	20
Monday	154,130	170	100	110	80	150	80	140
Tuesday	153,630	210	140	60	130	100	230	150
Wednesday	157,340	250	130	100	90	60	50	70
Thursday	148,530	190	220	90	70	140	130	380
Friday	137,320	110	120	160	370	110	120	110
Saturday	75,280	60	20	20	20	20	130	30

Time of Day:								
12:01 AM - 4:00 AM	26,720	-	30	-	20	-	-	20
4:01 AM - 8:00 AM	83,360	80	110	50	90	70	90	100
8:01 AM - 12:00 PM	242,630	410	260	180	210	180	200	260
12:01 PM - 4:00 PM	195,260	270	140	130	360	110	260	120
4:01 PM - 8:00 PM	101,870	80	60	40	30	50	110	30
8:01 PM - 12:00 AM	54,360	20	50	-	40	20	-	20
Not Reported	178,520	140	100	150	40	140	70	340
Hours Worked:								
Occurred Before Shift Began	5,350	-	-	-	-	-	-	-
Less than 1 Hour	70,510	160	130	30	20	40	20	70
1 - 2 Hours	80,420	80	40	50	70	80	40	90
2 - 4 Hours	179,470	180	190	110	140	110	110	110
4 - 6 Hours	139,050	140	110	80	370	90	140	120
6 - 8 Hours	120,820	160	110	40	70	40	130	70
8 - 10 Hours	62,820	110	-	60	20	30	150	50
10 - 12 Hours	18,780	20	20	-	-	-	20	20
12 - 16 Hours	7,660	-	-	-	-	20	50	-
More Than 16 Hours	900	-	-	-	-	-	-	-
Not Reported	196,950	170	130	180	80	150	90	370

Footnotes

(1) Days away from work include those that result in days away from work with or without job transfer or restriction.

(2) Excludes farms with fewer than 11 employees.

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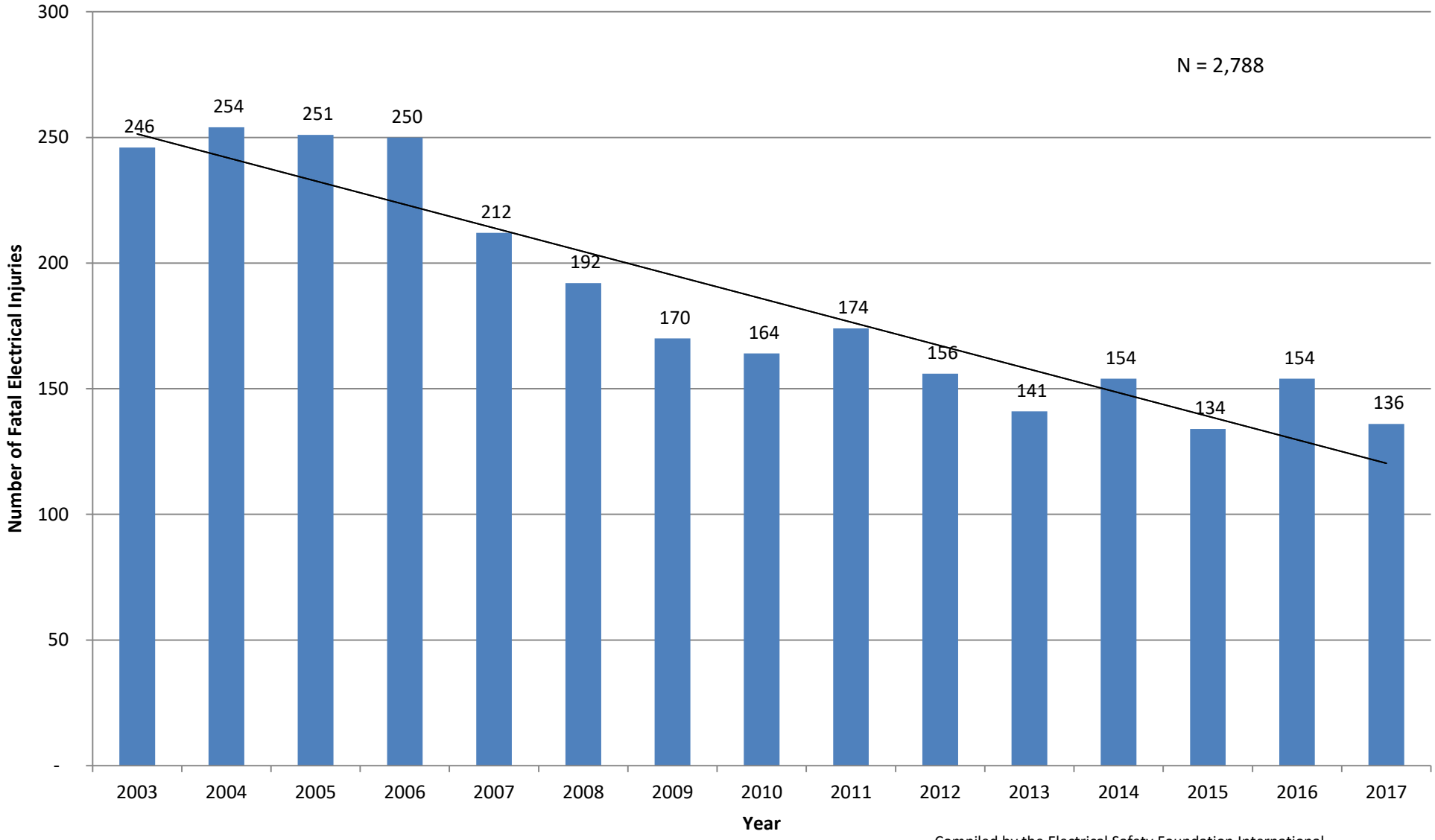
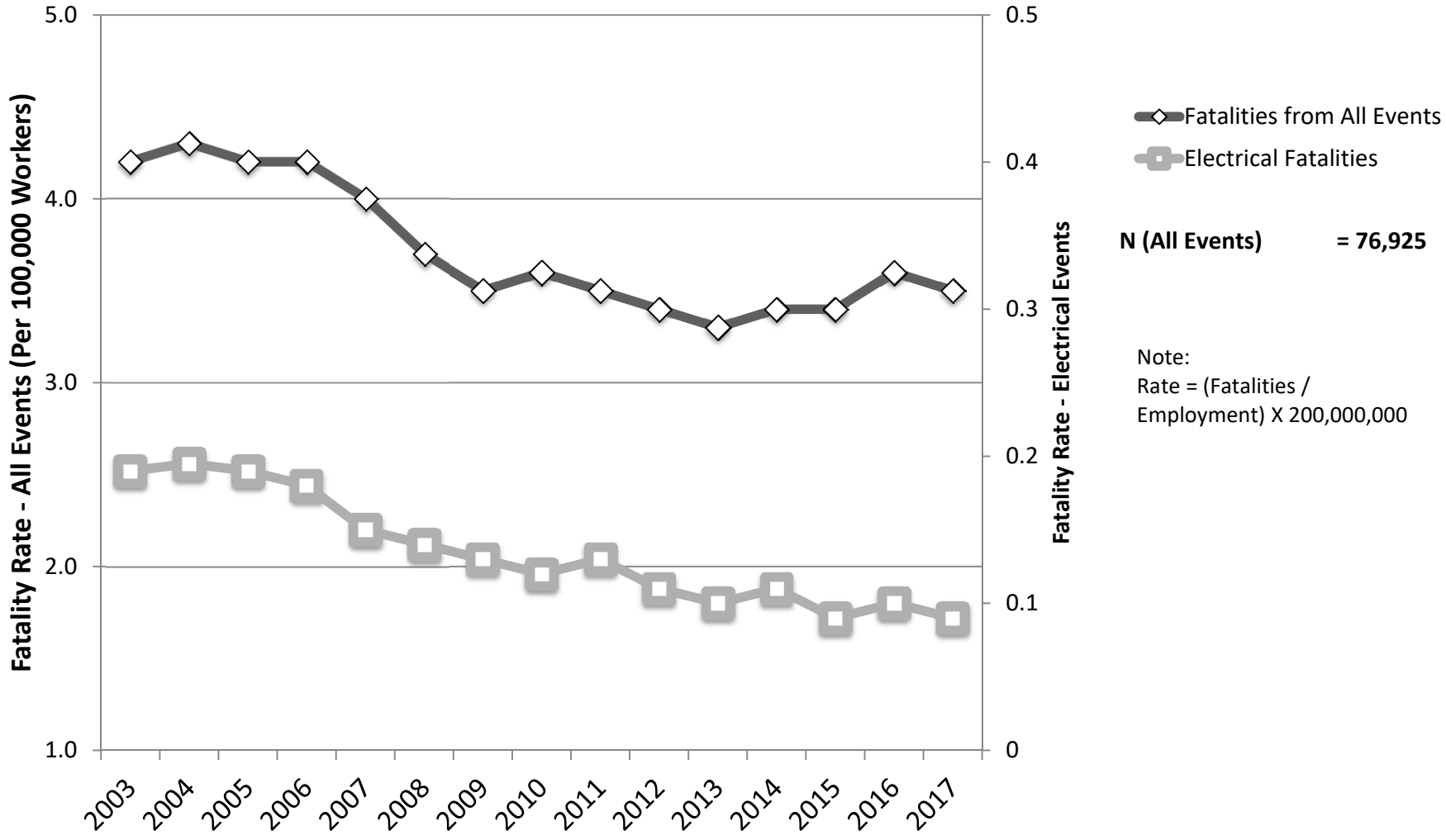
Number of Fatal Electrical Injuries, by Event Code, All Ownerships, 2003 - 2017



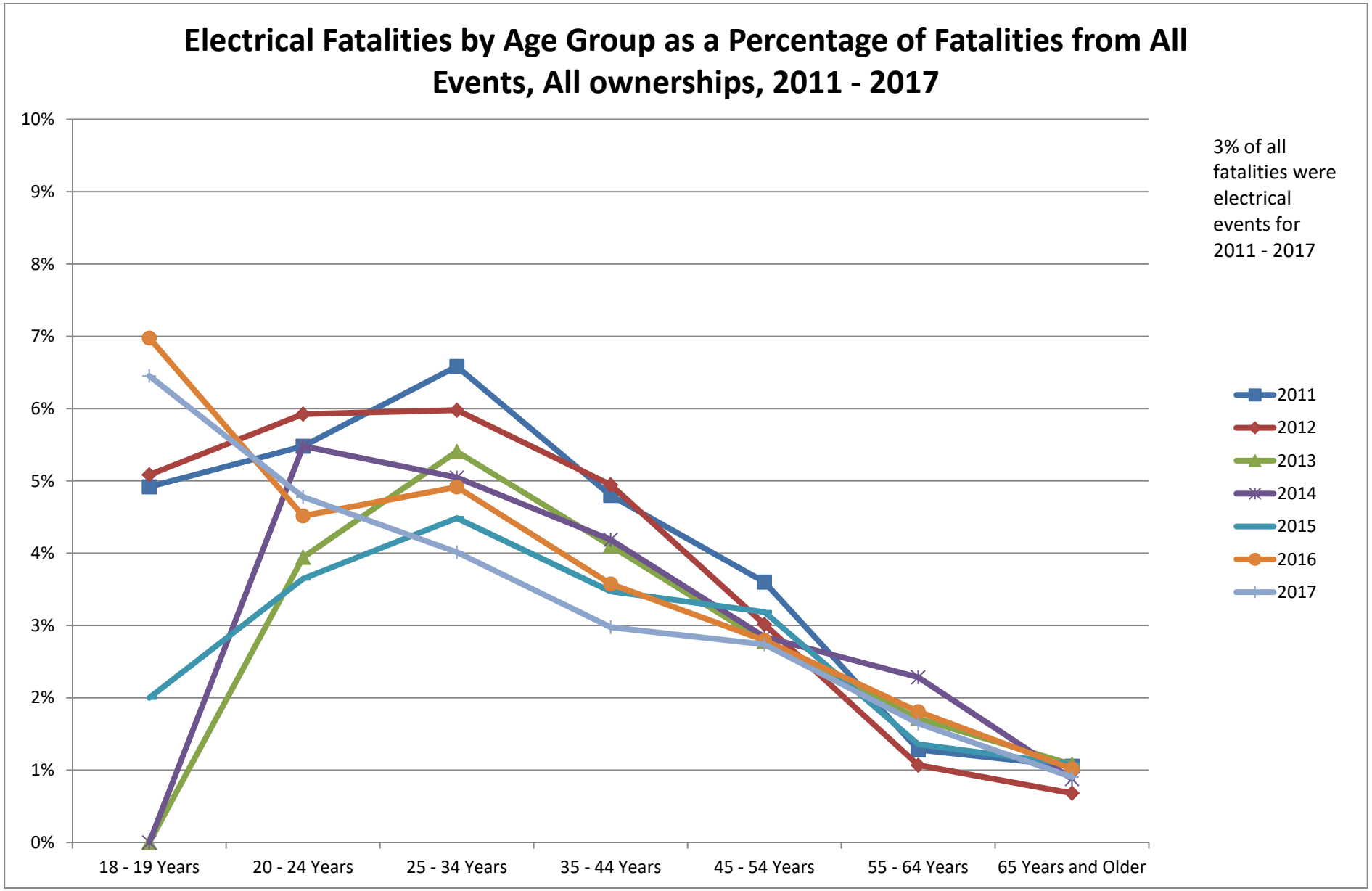
Compiled by the Electrical Safety Foundation International
using data from the U.S. Bureau of Labor Statistics, CFOI, 2003 -2017

Fatality Rates for All Events vs. Electrical Events, All Ownerships, 2003 - 2017



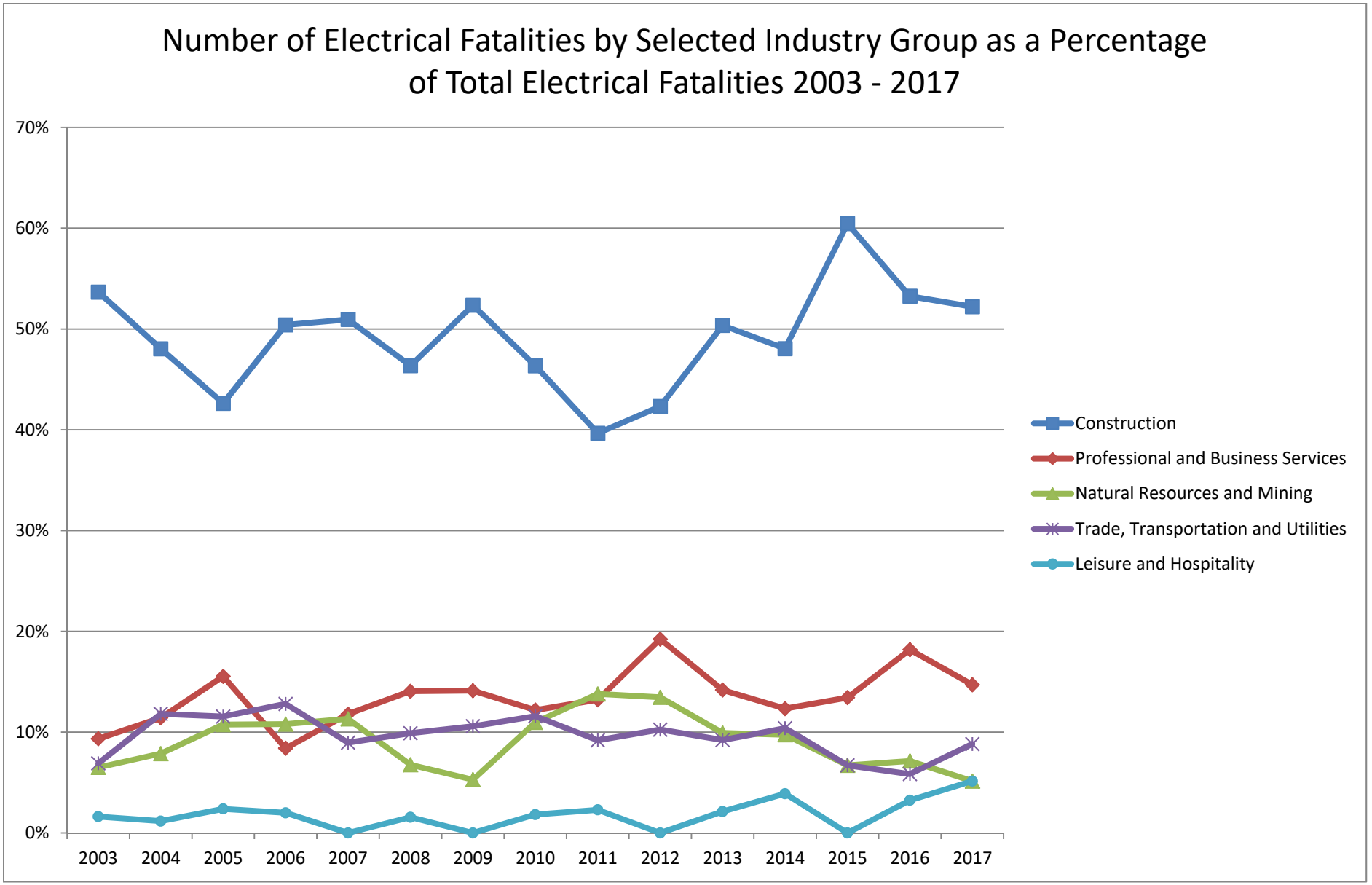
Complied by the Electrical Safety Foundation International using data from BLS, CFOI, 2003 - 2017

Electrical Fatalities by Age Group as a Percentage of Fatalities from All Events, All ownerships, 2011 - 2017



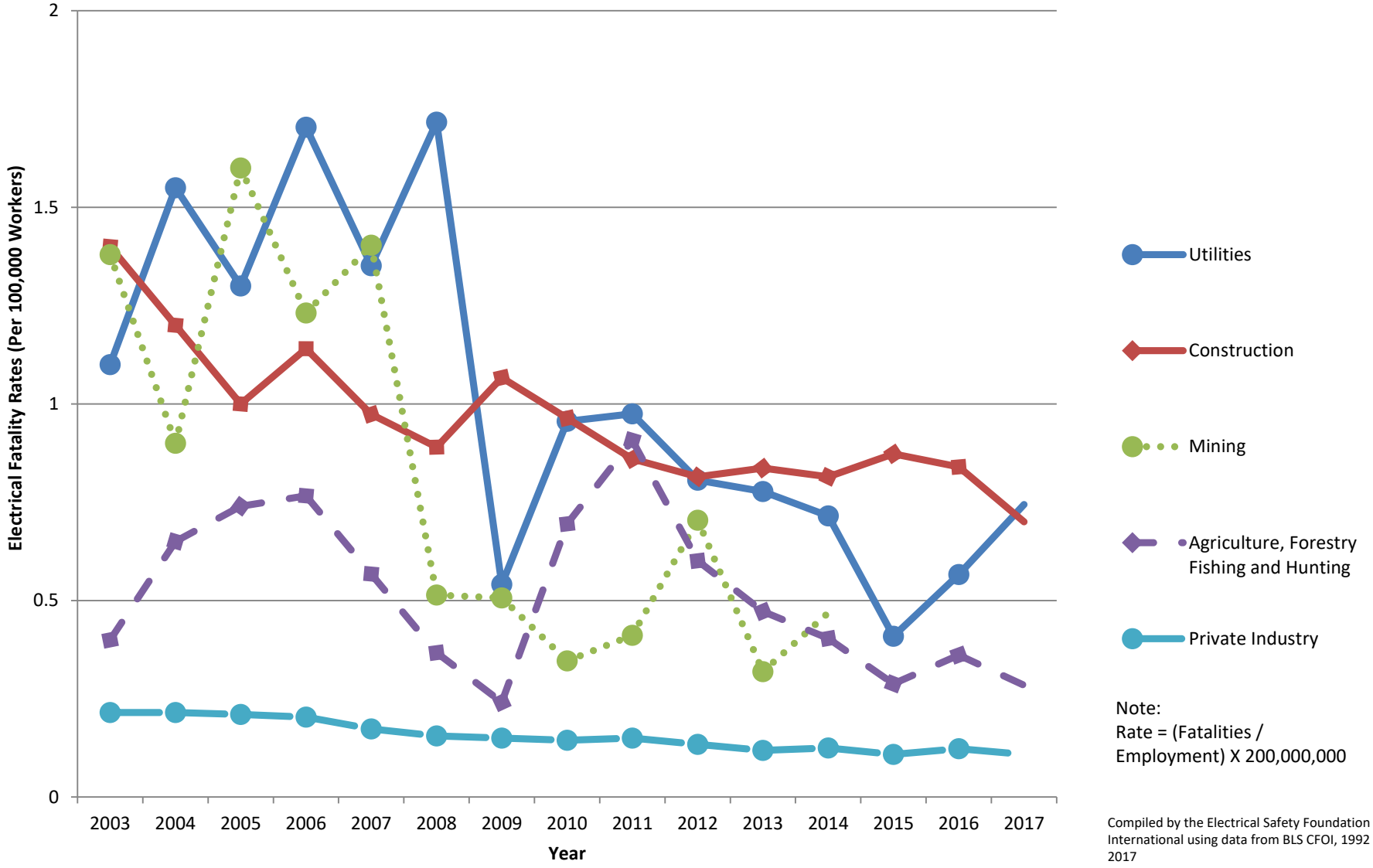
Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, SOII, 2003-2017

Number of Electrical Fatalities by Selected Industry Group as a Percentage of Total Electrical Fatalities 2003 - 2017



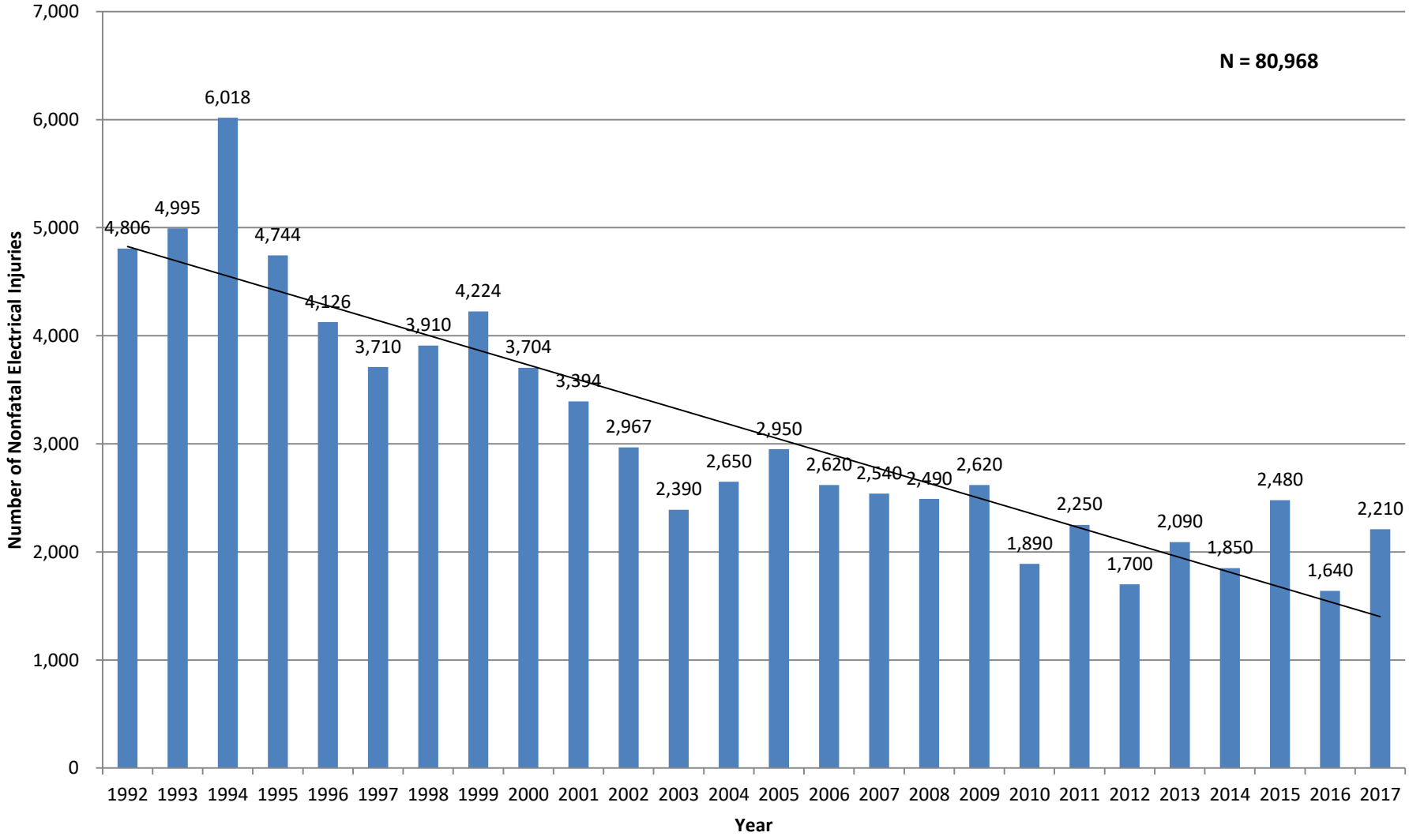
Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, SOII, 2003-2017

Electrical Fatality Rates for Selected Industries, Private Industry, 2003 - 2016



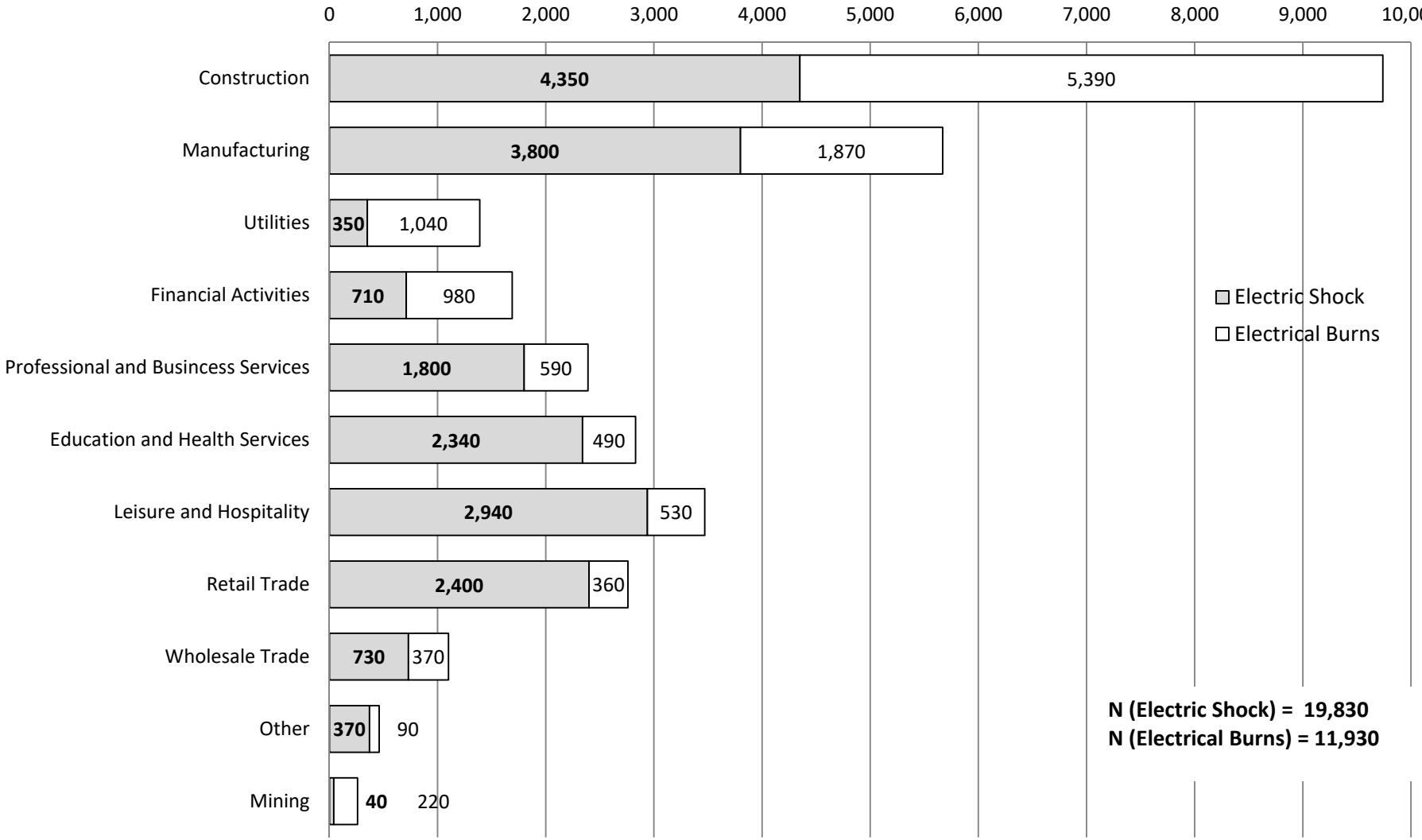
Compiled by the Electrical Safety Foundation International using data from BLS CFOI, 1992 - 2017

Number of Nonfatal Electrical Injury, by Event, Private Industry, 1992 - 2017



Compiled by the Electrical Safety Foundation International using data from BLS CFOI, 1992 - 2017

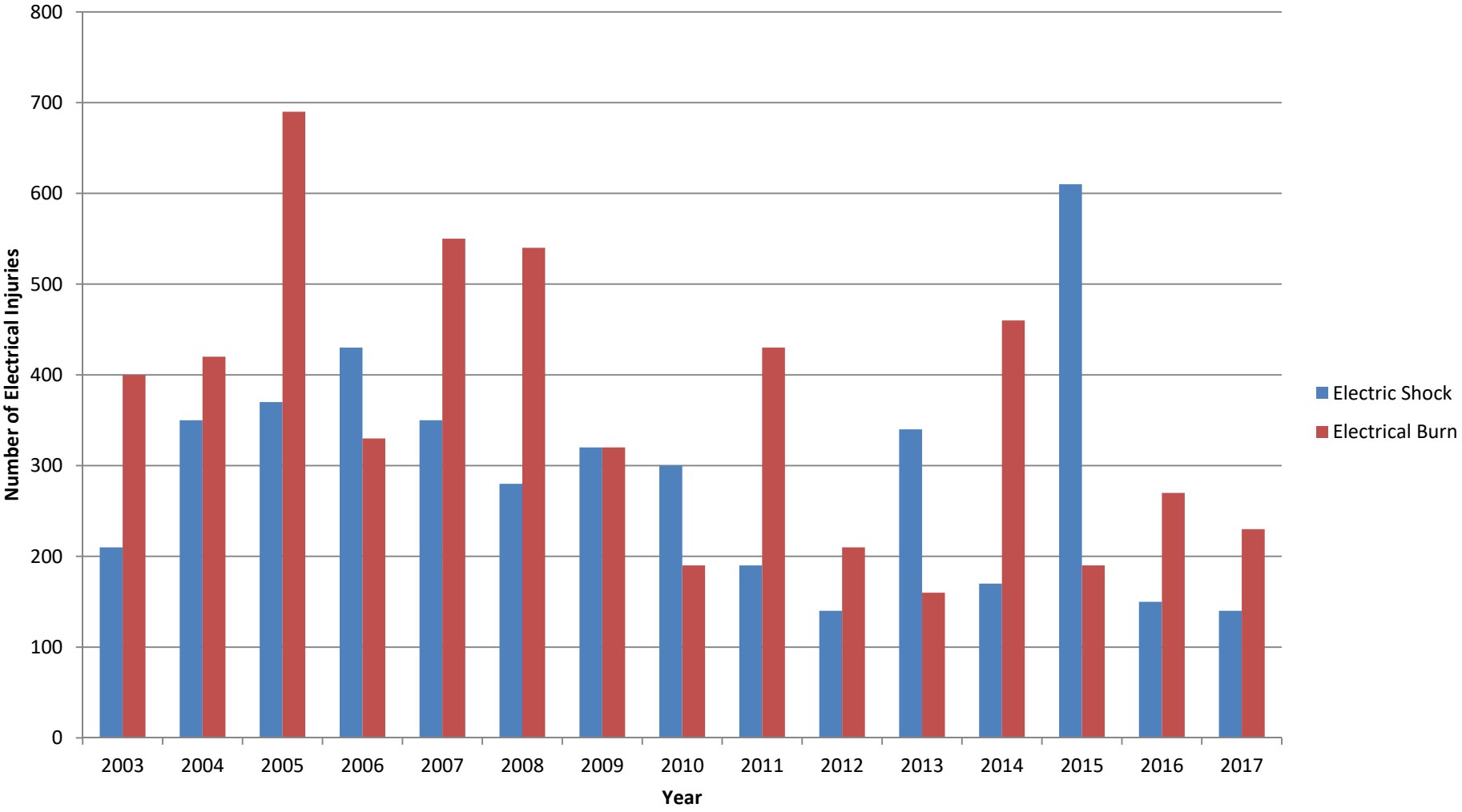
Number of Nonfatal Electrical Injuries, Private Industry by Nature of Injury (Electrical Shocks / Electrical Burns), 2003 - 2017



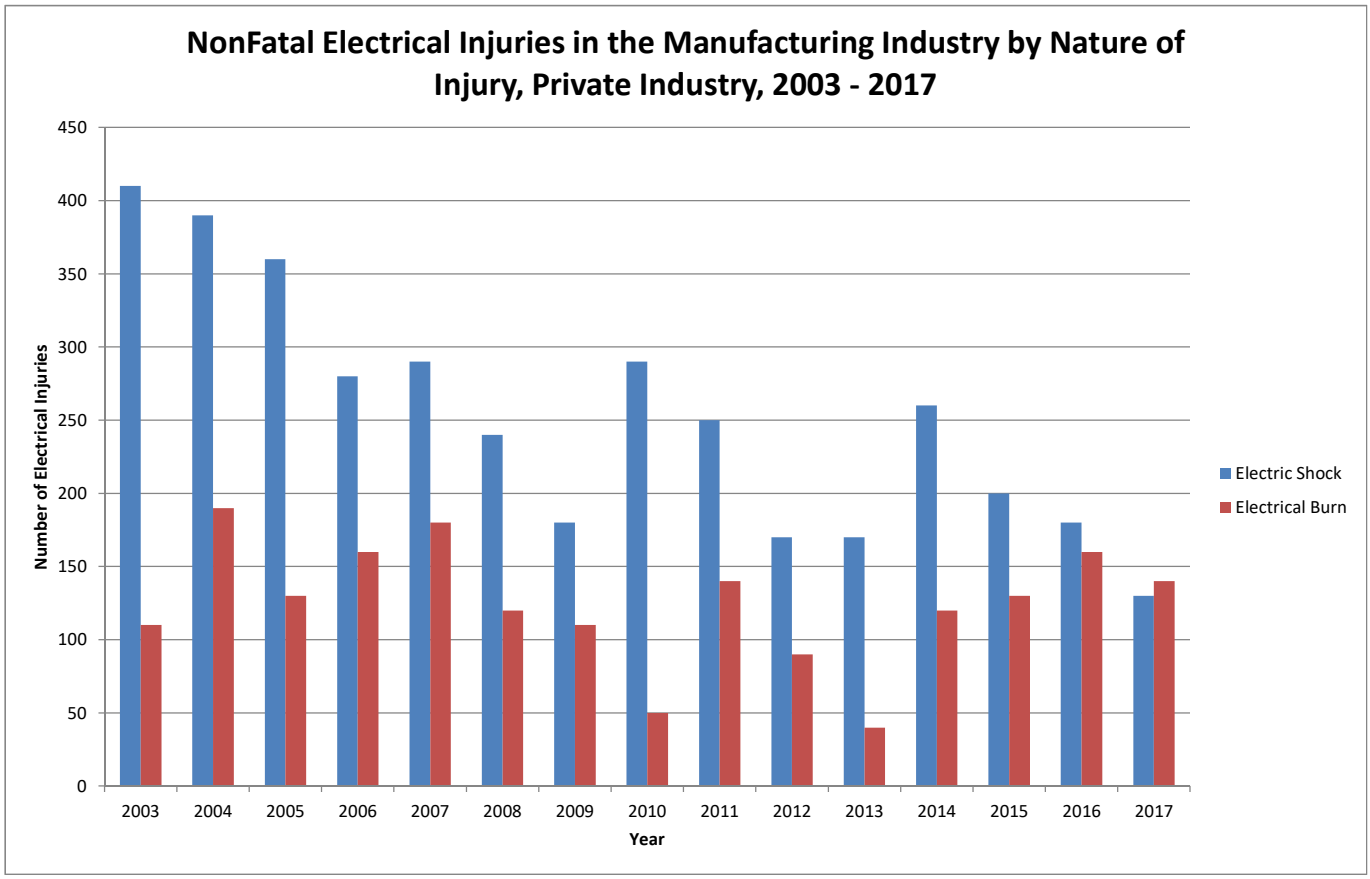
Compiled by the Electrical Safety Foundation International

using data from the U.S. Bureau of Labor Statistics, CFOI, 2003 -2017

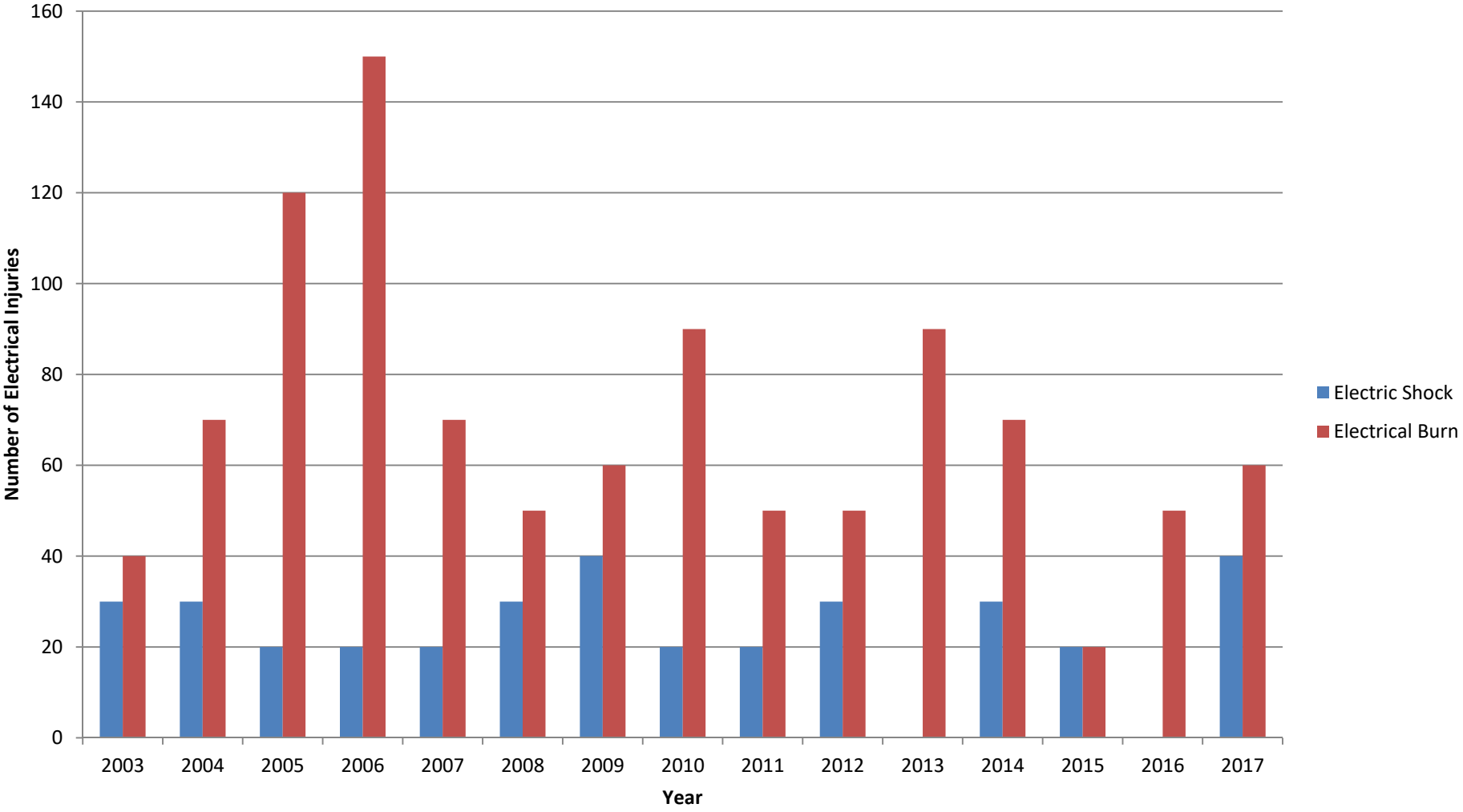
NonFatal Electrical Injuries in the Construction Industry by Nature of Injury, Private Industry, 2003 - 2017



Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, SOII, 2003-2017

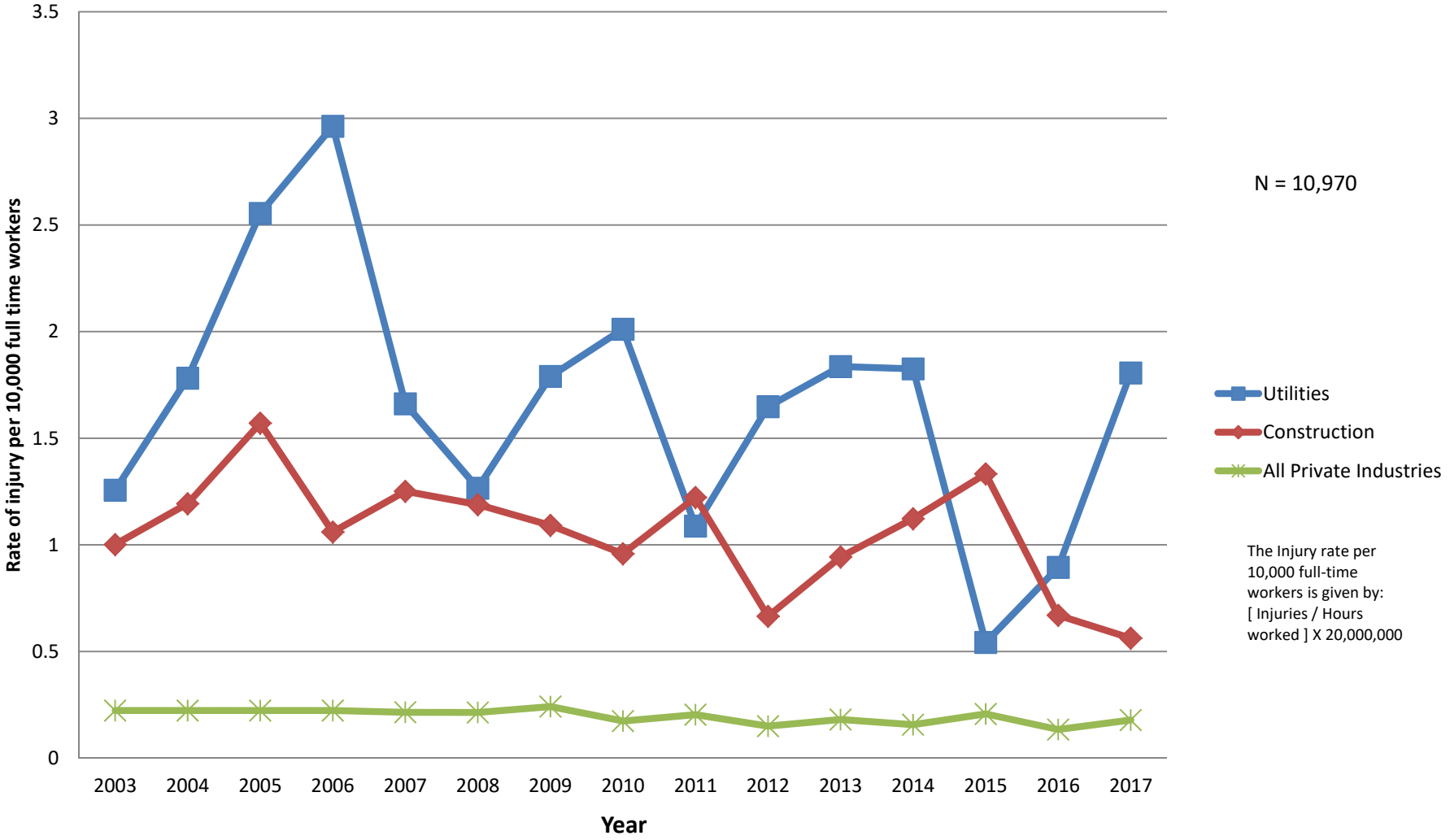

NonFatal Electrical Injuries in the Manufacturing Industry by Nature of Injury, Private Industry, 2003 - 2017
Number of Electrical Injuries
450
400
350
300
250
200
150
100
50
0
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
Year
Electric Shock
Electrical Burn

NonFatal Electrical Injuries in the Utility Industry by Nature of Injury, Private Industry, 2003 - 2017

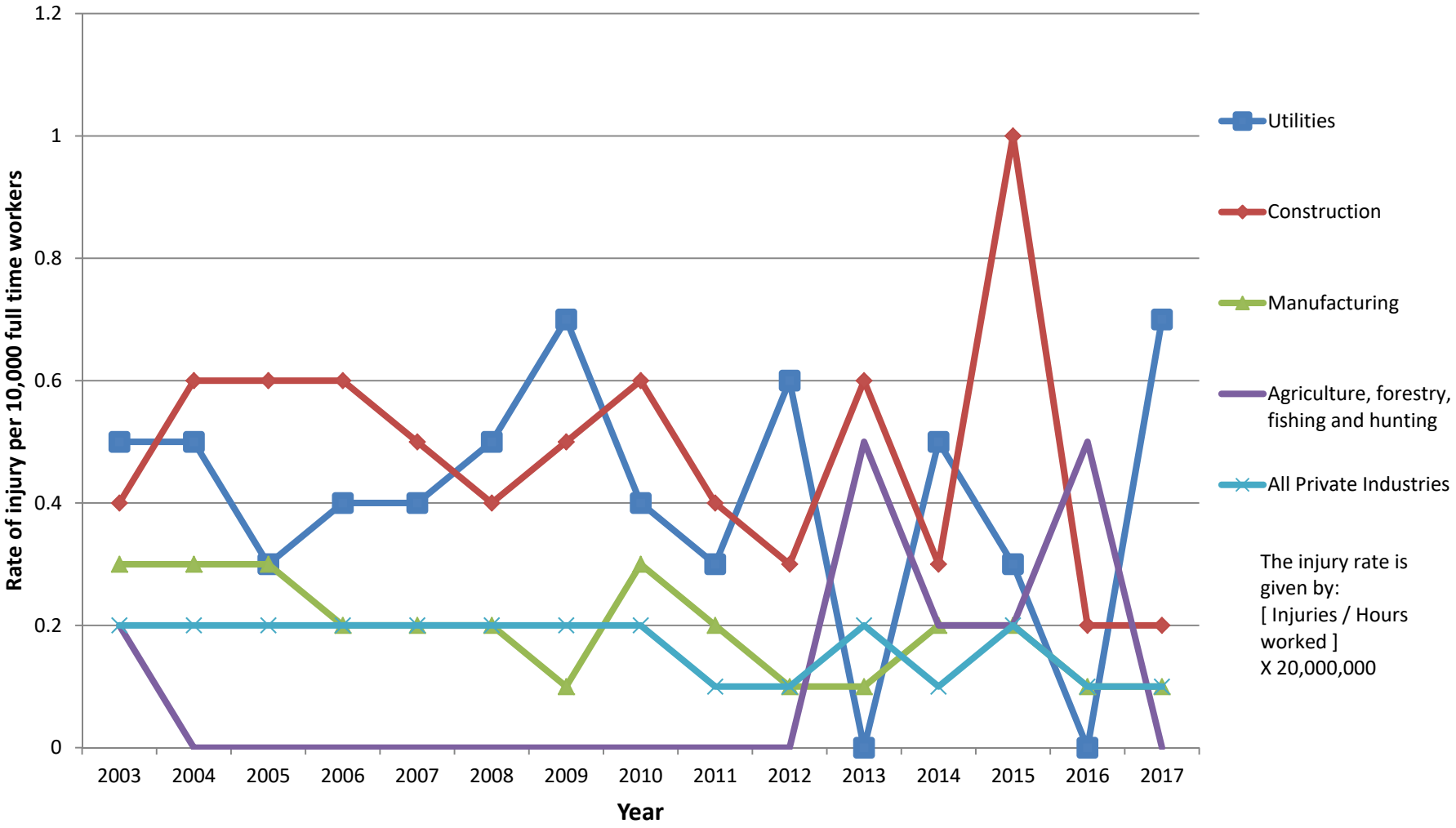


Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, SOII, 2003-2017

Rates of Nonfatal Electrical Injury Involving Days Away from Work for Selected Industries, by Event, Private Industry, 2003 - 2017

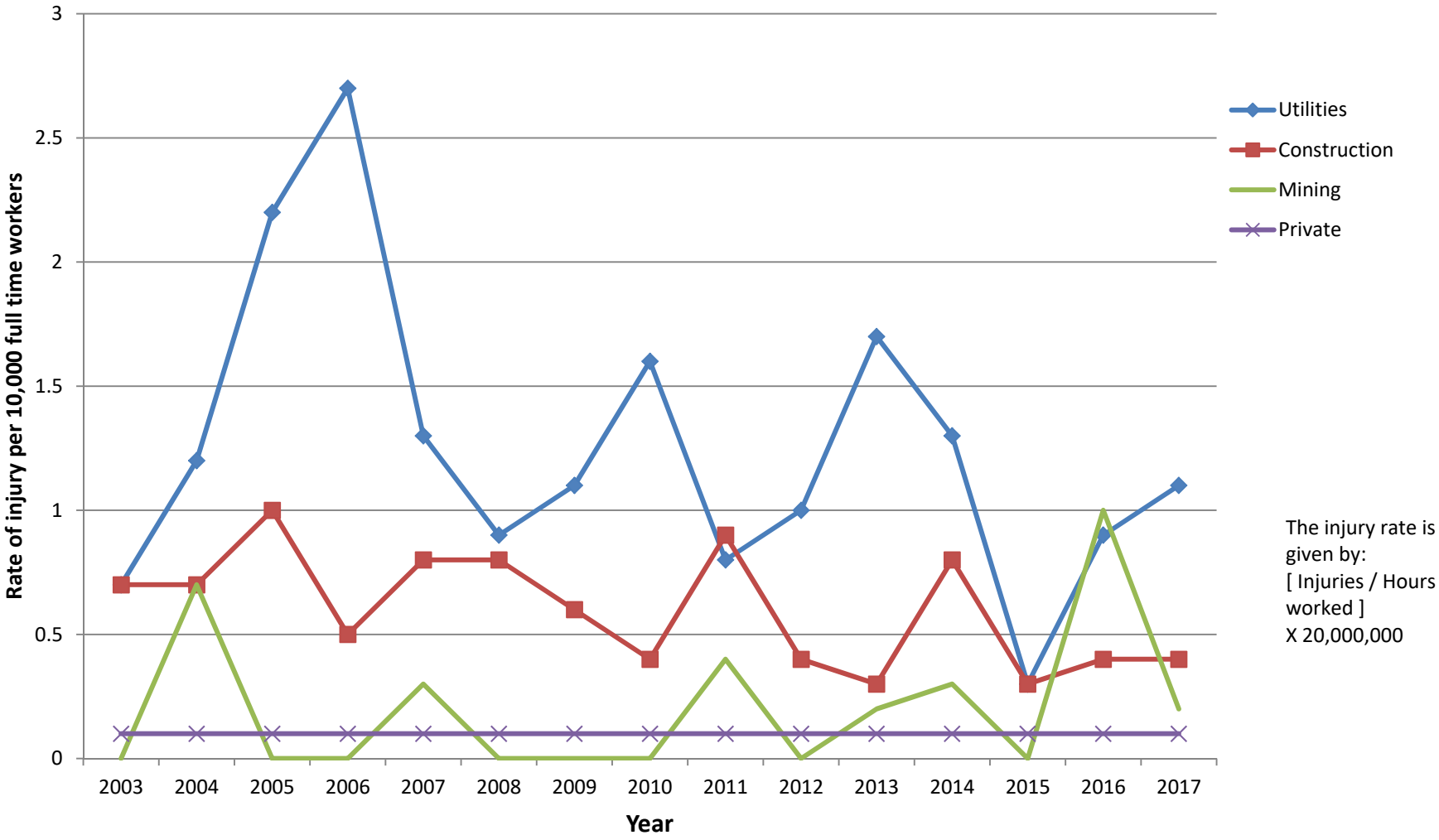


Rate of Nonfatal Electrical Shock Injury Involving Days Away from Work for Selected Industries, Private Industry, 2003 - 2017



Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, SOII, 2003-2017

Rate of Nonfatal Electrical Burn Injury Involving Days Away from Work for Selected Industries, Private Industry, 2003 - 2017



The injury rate is given by:
[Injuries / Hours worked]
X 20,000,000

Compiled by the Electrical Safety Foundation International using data from the U.S. Department of Labor, Bureau of Labor Statistics, SOII, 2003-2017