

Originally published: February 2011

Last updated: October 2012

Washington State Occupational Health Indicators - Current Data (2000-Present)

Data from the Safety & Health Assessment & Research for Prevention (SHARP) program at L&I.
(SHARP Surveillance Report #80-11-2011)

Occupational Health Indicators

There are over 3 million workers in Washington State. Every year tens of thousands are injured or made ill on the job. These work related injuries and illnesses have high human and economic costs, but can be prevented. Tracking these injuries and illnesses is the first step to understanding whether prevention methods are succeeding or need to be improved.

Washington State researchers at the Department of Labor and Industries worked with the Council of State and Territorial Epidemiologists (CSTE) Occupational Health workgroup to develop a set of measures to track occupational injuries and illnesses. These measures are called 'occupational health indicators' (OHI) and are compiled yearly (because of time for data to develop and become available, there is about a 3-year lag; for 2012 CSTE OHI data is being collected for 2009). They are meant to provide an overview and general assessment of the occupational health status of Washington State.

While more in-depth reports compiling and comparing several years of data are published at regular intervals by SHARP and CSTE, more recent information has not always been readily available. This report summarizes the data available from 2000 through the most currently available data, in an effort to make WA State OHI data available in more "real-time." As such, portions of the report may be left blank where data is not yet available (data sources differ in schedule), or there is no data (as with new indicators or new components of existing indicators).

This document will be updated quarterly, or as data becomes available. Revisions will be noted.

Rates given are per 100,000 full-time equivalent employees (FTEs) unless otherwise noted.

A '(P)' denotes preliminary numbers.

Newest data appears in green.

Need more information?

Safety and Health Assessment and Research for Prevention (SHARP) Program

Washington State Department of Labor and Industries

PO Box 44330

Olympia, WA 98504-4330

1-888-66-SHARP

This report was supported in part by Cooperative Agreement 5 U01 OH08487 from the National Institute for Occupational Safety and Health (NIOSH). The contents are solely the responsibility of the authors and do not necessarily represent the official views of NIOSH and the Center for Disease Control and Prevention.

See the technical notes in our report #80-4-2008 "Occupational Health Indicators for Washington State, 1997-2004" for more information on data sources, the indicators, and how the indicators are generated.

<http://www.lni.wa.gov/Safety/Research/Files/OccHealth/OccHealthReport2008.pdf>

See the CSTE website for further information about the development and selection of the Occupational Health Indicators, as well as the downloadable guide that contains the methodology for their calculation.

<http://www.cste.org/dnn/ProgramsandActivities/OccupationalHealth/OccupationalHealthIndicators/tabid/85/Default.aspx>

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of employed persons age 16 years or older.	2,888,000	2,804,000	2,871,000	2,903,000	3,037,000	3,111,000	3,168,000	3,270,000	3,286,000	3,216,000	3,180,000
Employment Demographics											
P1. Percentage of civilian workforce unemployed	5.2	6.4	7.3	7.5	6.2	5.6	5.0	4.6	5.3	9.9	10.2
P2. Percentage of civilian employment self-employed	7.8	8.1	7.7	8.3	8.5	8.6	7.6	7.2	7.4	7.6	7.6
P3. Percentage of civilian employment in part-time jobs	20.4	20.7	19.7	19.3	18.3	20.8	20.3	19.7	20.0	21.8	23.0
P4. Percentage of civilian employment by number of hours worked											
<40 hours	37.0	38.0	37.9	35.2	37.2	36.0	33.4	36.2	36.8	42.2	40.5
40 hours	31.8	33.8	35.8	36.6	35.8	35.0	37.8	36.4	36.8	34.1	35.7
41+ hours	31.2	28.2	26.4	28.1	27.0	29.0	28.8	27.4	26.4	23.7	23.8
P5. Percentage of civilian employment by sex											
Males	52.6	53.3	53.6	53.2	53.9	53.7	54.0	53.1	53.6	52.5	52.4
Females	47.4	46.8	46.4	46.8	46.1	46.3	46.0	46.9	46.4	47.5	47.6
P6. Percentage of civilian employment by age group											
16 to 17	2.0	1.8	1.7	1.6	1.2	1.5	1.9	1.5	1.4	1.1	1.0
18 to 64	95.7	95.8	95.0	95.8	96.5	96.0	95.4	95.3	95.0	95.3	95.2
65+	2.3	2.4	2.4	2.6	2.3	2.5	2.7	3.2	3.6	3.6	3.8
P7. Percentage of civilian employment by race											
White	89.6	89.7	88.5	87.0	85.2	85.0	84.0	84.1	85.0	84.2	84.6
Black	3.6	3.1	3.0	2.5	3.0	2.7	3.0	3.0	3.2	3.2	2.6
Other	6.8	7.2	8.5	10.5	11.8	12.3	13.0	12.9	11.8	12.5	12.8
P8. Percentage of civilian employment by Hispanic Origin	4.7	4.9	5.6	6.8	6.6	6.4	7.2	8.1	8.0	8.2	8.3
P9. Percentage of civilian employment by industry											
Construction	6.8	5.4	5.1								
Manufacturing - Durable goods	8.0	8.4	8.5								
Manufacturing - Non-durable goods	3.2	3.0	3.1								
Transportation/communications/public	5.2	5.8	6.3								
Trade	20.5	21.4	20.9								
Finance/insurance/real estate	5.9	5.6	5.3								
Services	24.8	24.8	24.8								
Government	15.1	14.8	15.6								
Agriculture	2.7	2.8	2.8								
Post-2003 Industry Categories:											
Mining				0.4	0.1	<1	0.1	0.2	0.1	0.2	0.1
Construction				6.8	7.2	7.0	7.6	8.5	8.7	7.4	6.6
Manufacturing - Durable goods				9.2	9.0	7.5	7.9	8.9	9.5	8.4	7.5
Manufacturing - Non-durable goods				3.0	2.9	3.5	3.1	3.1	2.6	2.4	3.0
Wholesale and Retail Trade				15.5	15.3	16.6	16.3	14.4	13.2	13.4	13.3
Transportation and utilities				5.2	5.2	6.1	5.3	5.4	5.6	5.1	4.7
Information				3.1	2.7	2.4	3.0	2.5	2.1	2.3	2.3
Financial activities				6.2	6.2	6.4	6.0	6.2	6.1	5.9	5.8
Professional and business services				10.4	9.8	10.5	10.7	10.4	11.7	12.0	12.8
Education and health services				19.5	19.5	19.4	18.9	19.2	19.9	20.2	20.8
Leisure and hospitality				8.2	8.8	8.9	8.7	8.8	7.8	9.2	9.8
Other services				4.4	4.7	4.4	5.2	4.9	4.6	4.8	4.4
Public administration				5.6	5.4	5.2	4.6	5.0	5.6	6.2	6.3
Agriculture and related				2.5	3.1	2.1	2.5	2.7	2.4	2.5	2.4
P10. Percentage of civilian employment by occupation											
Executive/administrative/managerial	15.2	15.1	15.6								
Professional specialty	16.8	17.1	16.6								
Technicians and related support	3.1	4.1	3.6								
Sales	12.4	12.5	11.7								
Administrative support including clerical	13.4	12.6	13.2								
Service occupations	13.8	13.2	14.0								
Precision production/craft/repair	10.6	10.1	10.8								
Machine	3.7	4.0	3.4								
Transportation/material moving	3.5	4.2	4.3								
Handlers/equipment											
cleaners/helpers/laborers	3.8	3.8	3.6								
Farming/forestry/fishing	3.6	3.2	3.3								
Post-2003 Occupational Categories:											
Management, business and financial operations				14.9	15.6	15.6	15.5	15.3	16.6	15.9	15.7
Professional and related				21.0	21.5	23.2	21.7	22.3	22.3	23.5	24.6
Service				16.1	17.0	15.6	15.8	15.2	16.0	17.5	17.2
Sales and related				11.2	10.6	11.0	12.0	11.0	9.8	10.4	9.9
Office and administrative support				13.6	12.8	13.1	12.7	12.7	12.6	12.4	12.1
Farming/forestry/fishing				1.5	1.5	1.2	1.2	1.6	1.6	1.6	1.6
Construction and extraction				6.3	5.6	5.6	5.9	5.8	5.9	5.3	5.1
Installation, maintenance, and repair				3.8	3.8	3.2	3.5	4.1	4.2	3.1	3.2
Production				5.7	5.6	5.3	5.7	5.9	4.9	4.2	5.0
Transportation/material moving				5.9	6.0	6.1	6.1	6.0	6.2	6.0	5.7

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of employed persons age 16 years or older.	2,888,000	2,804,000	2,871,000	2,903,000	3,037,000	3,111,000	3,168,000	3,270,000	3,286,000	3,216,000	3,180,000
Indicator 1 Nonfatal Occupational Injuries & Illness											
1.1 Number of Occ. Injuries & Illnesses	145,900	135,400	123,900	114,800	122,200	109,900	122,500	116,500	110,900	96,000	86,700
1.2 Rate of OI&I per 100,000 FTEs	8,500	7,500	7,300	6,800	6,900	6,100	6,600	6,100	5,600	5,100	4,800
1.3 Number of cases involving days away from work	44,400	44,100	41,300	38,300	37,700	36,400	40,100	37,700	35,900	31,300	28,700
1.4 Rate involving days away from work	2,600	2,500	2,400	2,300	2,100	2,000	2,200	2,000	1,800	1,700	1,600
1.5 Number involving >10 days away from work	15,469	14,656	16,249	15,160	15,750	14,080	14,700	15,610	14,770	12,930	
Indicator 2 Work-related Hospitalizations											
2.1 Annual number of hospitalizations	5,532	5,284	5,052	5,104	5,239	5,012	5,424	5,435	5,266	5,203	
2.2 Annual crude rate of hospitalizations / 100,000 employed persons age 16 or older	192.0	188.4	176.0	175.7	172.5	161.1	171.2	166.2	160.3	161.8	
Indicator 3 Work-related Fatal Injuries											
3.1 Annual number of work-related traumatic fatalities	75	102	86	83	98	85	87	90	84	76	104
3.2 Annual crude fatality rate per 100,000 employed persons age 16 years or older	2.6	3.6	3.0	2.9	3.2	2.7	2.7	2.8	2.6	2.6	3.6
3.2B Annual crude fatality rate per 100,000 FTE (2007 on)*								2.9	2.7	2.6	3.6
Indicator 4 Work-related amputations with days away from work reported by employers											
4.1 Estimated annual number of work-related amputations involving days away from work	282	163	136	330	330	150	140	160	240	110	70
4.2 Estimated annual incidence rate of amputations involving days away from work per 100,000 FTEs	16.0	9.0	8.0	20.0	19.0	8.0	8.0	8.0	12.0	6.0	4.0
Indicator 5 State workers' compensation claims for amputations with lost work-time											
<i>Number of WA workers covered by state WC</i>	2,637,000	2,622,000	2,575,000	2,583,000	2,625,000	2,697,000	2,781,000	2,857,000	2,817,000	2,697,000	
5.1 Annual number of amputations filed with state workers' compensation	182	159	159	205	220	286	238	282	262	210	175 (P)
5.2 Annual incidence rate of amputations filed with state workers' comp per 100,000 workers covered by state workers' comp system	6.9	6.1	6.2	7.9	8.4	10.6	8.6	9.9	9.3	7.8	
Indicator 6 Hospitalization for work-related burns											
6.1 Annual number of hospitalizations for work-related burns for persons age 16 years and over	94	72	43	72	71	66	60	90	78	62	
6.2 Annual rate of hospitalization per 100,000 employed persons age 16 years or older	3.3	2.6	1.5	2.5	2.3	2.1	1.9	2.8	2.4	1.9	
Indicator 7 Work-related musculoskeletal disorders with days away from work reported by employers											
7.1 Estimated annual number of all MSDs involving days away from work	17,972	19,581	17,725	15,780	15,270	13,200	16,580	15,300	13,590	12,870	11,410
7.2 Estimated annual incidence rate of all MSDs involving days away from work per 100,000 FTEs	1,043	1,121	1,043	939	808	737	892	795	690	681	631
7.3 Estimated annual number of MSDs of the neck, shoulder, and upper extremity involving days away from work	4,877	5,302	5,115	5,080	4,400	3,770	5,060	4,240	3,800	3,860	4,000
7.4 Estimated annual incidence rate of MSDs of neck, shoulder & upper extremity involving days away from work per 100,000 FTE	284	303	301	301	250	210	272	221	193	204	222
7.5 Estimated annual number of carpal tunnel syndrome cases involving days away from work	1,033	774	635	820	680	620	990	430	470	430	560
7.6 Estimated annual incidence rate of CTS cases involving days away from work per 100,000 FTE	60	44	37	49	38	34	53	22	24	23	31
7.7 Estimated annual number of MSDs of the back involving days away from work	8,530	9,532	8,426	7,820	7,660	6,320	7,450	6,650	6,040	6,150	4,880
7.8 Estimated annual incidence rate of MSDs of the back involving days away from work per 100,000 FTE	495	546	496	465	436	353	401	345	307	325	270
Indicator 8 Carpal tunnel syndrome cases file with state workers' compensation											
<i>Number of WA workers covered by state WC</i>	2,637,000	2,622,000	2,575,000	2,583,000	2,625,000	2,697,000	2,781,000	2,857,000	2,817,000	2,697,000	
8.1 Annual number of carpal tunnel syndrome cases filed with state workers' compensation	1,544	1,397	1,573	1,383	1,264	1,239	1,334	1,259	1,208	1,044	882 (P)
8.2 Annual incidence rate per 100,000 workers covered by state workers' compensation system	58.6	53.3	61.7	53.5	48.2	45.9	48.0	44.1	42.9	38.7	

* The denominator that the Bureau of Labor Statistics (BLS) uses to calculate fatality rates has changed over time from the number employed to hours worked. The new hours-based rates use the average number of employees at work and the average hours each employee works. To be consistent with the BLS, the denominator for fatal work-related injury rates for this indicator has changed from the number employed, as indicated in the Geographic Profiles, to the number of hours worked.

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of employed persons age 16 years or older.	2,888,000	2,804,000	2,871,000	2,903,000	3,037,000	3,111,000	3,168,000	3,270,000	3,286,000	3,216,000	3,180,000
Indicator 9 Hospitalizations from or with pneumoconiosis											
9.1 Hospital discharges with a primary or contributing diagnosis of ICD-9-CM code 500-505 (total pneumoconiosis)											
9.1.1 Annual number of hospital discharges	698	628	670	614	643	668	586	569	577	502	
9.1.2 Annual rate of hospitalization per million residents	149.9	132.4	138.9	125.4	129.1	132.5	185.0	174.0	109.3	93.6	
9.1.3 Annual, age-standardized, rate of hospitalization per million residents	165.6	146.1	152.2	136.6	141.6	158.6	139.1	117.2	115.3	98.6	
9.2 Hosp discharges with a primary or contributing dx of ICD-9 code 500 (coal workers' pneumoc.)											
9.2.1 Annual number of coal workers' pneumoconiosis hospital discharges	25	24	33	26	32	29	20	17	10	11	
9.2.2 Annual rate of coal workers' pneumoconiosis hospitalizations per mil residents	5.4	5.1	6.8	5.3	6.4	5.8	6.3	5.2	1.9	2.1	
9.2.3 Annual, age-standardized, rate of hospitalization per million residents	5.7	5.4	7.1	5.6	6.7	6.7	4.7	3.3	2.1	2.0	
9.3 Hospital discharges with a primary or contributing dx of ICD-9 code 501 (asbestosis)											
9.3.1 Annual number of asbestosis hospital discharges	648	584	612	561	587	621	536	531	537	464	
9.3.2 Annual rate of asbestosis hospitalizations per million residents	139.1	123.1	126.9	114.6	117.9	123.1	169.2	162.4	101.7	86.5	
9.3.3 Annual, age-standardized, rate of asbestosis hospitalizations per mil residents	154.0	136.1	139.5	124.9	129.5	147.7	127.5	109.9	107.8	91.4	
9.4 Hospital discharges with a prim or contr dx of ICD-9 code 502 (silicosis)											
9.4.1 Annual number of silicosis hospital discharges	19	10	18	13	15	13	21	16	20	15	
9.4.2 Annual rate of silicosis hospitalizations per million residents	4.1	2.1	3.7	2.7	3.0	2.6	6.6	4.9	3.8	2.8	
9.4.3 Annual, age standardized, rate of silicosis hospitalizations per million	4.4	2.3	4.0	3.1	3.4	3.0	4.7	3.0	3.8	2.9	
9.5 Hospital discharges with a prim or contr dx of ICD-9 code 503, 504 or 505 (other & unspec. Pneumoc)											
9.5.1 Annual number of other and unspecified pneumoconiosis hospital	6	10	7	14	9	5	10	6	13	12	
9.5.2 Annual rate of other and unspecified pneumoconiosis hosp per million residents	1.3	2.1	1.5	2.9	1.8	1.0	3.2	1.8	2.5	2.2	
9.5.3 Annual, age standardized, rate of other and unspec hosp per million residents	1.4	2.3	1.6	3.0	2.0	1.1	2.2	1.2	2.4	2.3	
Indicator 10 Mortality from or with pneumoconiosis											
10.1 Deaths w/ ICD-10 code of J60-J66 as underlying or contr cause of death (total Pneumo)											
10.1.1 Annual number of total pneumoconiosis deaths	72	69	79	71	72	65	50	82	67	71	
10.1.2 Annual total pneumoconiosis death rate per million residents**	15.5	14.5	16.4	14.5	14.5	12.8	9.7	15.8	12.7	13.2	
10.1.3 Annual age-standardized total pneumoconiosis death rate per million residents	17.2	16	17.9	15.8	15.4	13.6	8.6	16.7	13.3	14.1	
10.2 Deaths with underlying or contributing cause of death w/ IDC-10 code J60 (coal workers pneumoc)											
10.2.1 Annual number of coal workers' pneumoconiosis deaths	2	0	4	0	0	1	0	1	2	0	
10.2.2 Annual death rate per million											
10.2.3 Annual, age standardized, coal workers' pneumoconiosis death rate per million residents											
10.3 Deaths with an underlying or contr dx of ICD-10 code J61 (asbestosis)											
10.3.1 Annual number of asbestosis	69	67	73	70	71	62	48	80	63	66	
10.3.2 Annual asbestosis death rate per mil residents	14.8	14.1	15.1	14.3	14.3	12.2	9.3	15.4	11.9	12.3	
10.3.3 Annual, age standardized, asbestosis death rate per mil residents	16.5	15.5	16.6	15.6	15.2	13	8.3	16.3	12.7	13.3	
10.4 Deaths with an underlying or contributing dx of ICD-10 code J62 (silicosis)											
10.4.1 Annual number of silicosis deaths	1	1	2	0	0	1	1	0	1	2	
10.4.2 Annual silicosis death rate per million residents											
10.4.3 Annual, age-standardized death rate per million residents											
10.5 Deaths with underlying or contr DX of ICD-10 code J63, J64, J65, J66 (other & unspec pneumoc)											
10.5.1 Annual number of other and unspecified pneumoconiosis deaths	0	0	0	1	1	1	1	1	1	3	
10.5.2 Annual other and unspecified pneumoconiosis death rate per mil residents											
10.5.3 Annual, age stand, other & unspec pneumoconiosis death rate per mil resident											

**Rates are only reported where there are ≥ 5 cases

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of employed persons age 16 years or older.	2,888,000	2,804,000	2,871,000	2,903,000	3,037,000	3,111,000	3,168,000	3,270,000	3,286,000	3,216,000	3,180,000
Indicator 11 Acute work-related pesticide-associated illness and injury report to poison control centers											
11.1 Annual number of reported work-related pesticide poisoning cases	147	101	80	74	77	92	77	100	106	95	
11.2 Annual incidence rate of reported work-related pesticide poison cases per 100,000 employed persons age >=16 yr	5.1	3.6	2.8	2.6	2.5	3.0	2.4	3.1	3.2	3.0	
Indicator 12 Incidence of malignant mesothelioma											
12.1 Annual number of incident mesothelioma cases	81	84	81	76	84	94	94	87	86	81	
12.2 Annual mesothelioma incidence rate per million residents	17	18.1	17	15.5	16.9	14.9	18.3	16.8	16.3	15.1	
12.3 Annual, age standardized mesothelioma incidence rate per million residents	18.7	19.8	18.9	16.5	18.3	19	19.2	17.2	17.1	15.2	
Indicator 13 Elevated blood lead levels among adults											
13.1 Persons age 16 years or older with a blood lead level of >=10 ug/dL †											
13.1.1 Annual number of residents with elevated blood lead levels (>=10 ug/dL)											
13.1.2 Annual prevalence rate per 100,000 employed persons											
13.1.3 Annual number of incident cases											
13.1.4 Annual incidence rate per 100,000 employed persons											
13.2 Persons age 16 years or older with a blood lead level of >= 25 ug/dL											
13.2.1 Annual number of residents with blood lead levels >= 25 ug/dL	126	103	84	94	66	61	75	68	83	84	84
13.2.2 Annual prevalence rate per 100,000 employed persons	3.9	3.7	2.9	3.2	2.2	2.0	2.4	2.1	2.5	2.6	2.6
13.2.3 Annual number of incident cases	88	76	67	79	50	40	55	48	30	50	50
13.2.4 Annual incidence rate per 100,000 employed persons	2.6	2.7	2.3	2.7	1.6	1.3	1.7	1.5	0.9	1.5	1.5
13.3 Persons age 16 years or older with a blood lead level of >= 40 ug/dL											
13.3.1 Annual number of residents with blood lead levels >= 40 ug/dL	27	14	10	23	7	14	17	11	11	13	13
13.3.2 Annual prevalence rate per 100,000 employed persons	0.9	0.5	0.4	0.8	0.2	0.5	0.5	0.3	0.3	0.4	0.4
13.3.3 Annual number of incident cases	23	11	8	21	5	12	16	7	8	11	11
13.3.4 Annual incidence rate per 100,000 employed persons	0.7	0.4	0.3	0.7	0.2	0.4	0.5	0.2	0.2	0.3	0.3
Indicator 14 Percentage of workers employed in industries at high risk for occupational morbidity											
14.1 Number of employed persons in high morbidity risk North American Industry Classification System (NAICS) Industries	119,401	116,854	107,243	134,801	138,039	143,273	147,420	146,375	164,532	156,872	
14.2 Percentage of employed persons in high morbidity risk NAICS Industries	4.1	4.2	4.9	5.9	.	6.2	6.1	5.9	6.5	6.6	
Indicator 15 Percentage of workers employed in occupations at high risk for occupational morbidity											
15.1 Number of employed persons in high morbidity risk 1990 bureau of census occupations	167,147	173,923	171,522	321,570	326,578	304,566	323,771	334,645	670,810	658,107	329,537
15.2 Percentage of employed person in high morbidity risk 1990 bureau of census occupations	5.8	6.2	6.0	11.2	10.8	9.8	10.1	10.1	20.3	20.5	14.5
Indicator 16 Percentage of workers employed in Industries and occupations at high risk for occupational mortality											
16.1 Average number of employed persons in high mortality risk industries	441,669	428,314	403,073	416,128	459,163	424,109	466,700	494,571	542,411	491,070	316,303
16.2 Percentage of employed persons in high mortality risk industries	15.3	15.2	14.2	14.3	15.2	13.6	14.6	15	16.5	15.3	13.9
16.3 Number of employed persons in high mortality risk occupations	176,948	183,144	174,736	283,300	307,965	303,352	319,650	333,581	405,657	378,168	267,744
16.4 Percentage of employed persons in high mortality risk occupations	6.1	6.5	6.1	9.8	10.2	9.8	10.0	10.1	12.3	11.8	11.8

† This level of reporting has only started recently and no earlier data is available in WA

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of employed persons age 16 years or older.	2,888,000	2,804,000	2,871,000	2,903,000	3,037,000	3,111,000	3,168,000	3,270,000	3,286,000	3,216,000	3,180,000
Indicator 17 Occupational safety and health professionals											
17.1 Number of board-certified occupational medicine physicians (ABPM)	73	73	73	73	76	80	84	94	98	106	101
17.2 Rate of board-certified occupational medicine physicians (ABPM) per 100,000 employees	2.5	2.6	2.5	2.5	2.5	2.6	2.7	2.9	3.0	3.3	3.2 (P)
17.3 Number of members of American Col of Occ and Environ Med (ACOEM)	147	147	147	147	153	132	129	124	112	110	111
17.4 Rate of American College of Occ and Environ Med (ACOEM) membership per 100,000 employees	5.1	5.2	5.1	5.1	5.0	4.2	4.1	3.8	3.4	3.4	3.5 (P)
17.5 Number of American board-certified occupational health nurses (ABOHN) per 100,000 employees	97	97	97	97	101	96	109	102	102	102	94
17.6 Rate of board-certified occupational health nurses (ABOHN) per 100,000 employees	3.4	3.5	3.4	3.3	3.3	3.1	3.4	3.1	3.1	3.2	3.0 (P)
17.7 Number of members of American Association of Occupational Health Nurses (AAOHN)	74	74	74	74	104	111	109	104	95	82	
17.8 Rate of American Association of Occupational Health Nurses (AAOHN) Membership per 100,000 employees	2.6	2.6	2.6	2.5	3.4	3.6	3.4	3.2	2.9	2.5	
17.9 Number of board-certified industrial hygienists (ABIH)	251	251	251	251	254	264	281	277	293	303	312
17.10 Rate of board-certified industrial hygienists per 100,000 employees (ABIH)	8.7	9.0	8.7	8.6	8.4	8.5	8.9	8.5	8.9	9.4	9.8 (P)
17.11 Number of members of American Industrial Hygiene Association (AIHA)	282	282	282	282	284	305	270	234	237	245	237
17.12 Rate of American Industrial Hygiene Association (AIHA) membership per 100,000 employees	9.8	10.1	9.8	9.7	9.4	9.8	8.5	7.2	7.2	7.6	7.5 (P)
17.13 Number of board-certified safety health professionals (BCSP)	249	249	249	249	248	239	248	248	253	267	276
17.14 Rate of board certified safety health professionals (BCSP) per 100,000 employees	8.6	8.9	8.7	8.6	8.2	7.7	7.8	7.6	7.7	8.3	8.7 (P)
17.15 Number of members of American Society of Safety Engineers (ASSE)	694	694	694	694	737	824	924	815	824	695	743
17.16 Rate of American Society of Safety Engineers (ASSE) membership per 100,000 employees	24.0	24.8	24.2	23.9	24.3	26.5	29.2	24.9	25.1	21.6	23.4 (P)
17.17 Total number of safety and health professionals	1,867	1,867	1,867	1,867	1,957	2,051	2,154	1,998	2,014	1,910	
17.18 Rate of safety and health professionals per 100,000 employed persons >=16	64.6	66.6	65.0	64.3	64.4	65.9	68.0	61.1	61.3	59.4	
Indicator 18 OSHA enforcement activities											
18.1 Annual number of establishments inspected by OSHA in all OSHA-covered sectors	7,021	7,142	8,550	7,509	7,005	7,771	7,082	6,370	6,300	8,062	6,946
18.2 Total number of establishments in the state	221,150	221,450	226,363	228,042	211,423	202,478	213,244	211,617	214,394	218,084	226,052
18.3 Estimated percentage of all establishments under OSHA jurisdiction & eligible for inspections inspected by OSHA	3.2	3.2	3.7	3.3	3.3	3.8	3.4	3.0	2.9	3.7	3.1
18.4 Annual number of employees whose work areas were inspected by OSHA	229,100	219,465	172,303	171,624	149,571	142,291	132,612	131,636	168,520	182,863	188,904
18.5 Estimated percentage of employees under OSHA jurisdiction eligible for inspection whose work areas inspected	8.5	8.2	6.5	6.5	5.6	5.3	4.8	4.6	5.8	6.6	6.9
Indicator 19 Workers' Compensation Awards											
19.1 Total amount of workers' compensation benefits paid	\$ 1,499,070,000	\$ 1,637,714,000	\$ 1,714,497,000	\$ 1,800,477,000	\$ 1,836,097,000	\$ 1,864,015,000	\$ 1,926,644,000	\$ 1,994,598,000	\$ 2,192,885,000	\$ 2,312,186,000	
19.2 Average amount of workers' compensation paid per covered worker	\$ 568	\$ 625	\$ 666	\$ 697	\$ 699	\$ 691	\$ 693	\$ 698	\$ 778	\$ 857	
(New - Optional) Indicator 20 Low Back Disorder ††											
20.1 Annual number of work-related surgical low back disorder hospitalizations for persons age 16 years or older								968	984	979	
20.2 Annual crude rate of work-related surgical low back disorder hospitalization per 100,000 employed persons age 16 years or older								29.6	29.9	30.4	
20.3 Annual number of work-related low back disorder hospitalizations for persons age 16 years or older								1,139	1,121	1,149	
20.4 Annual crude rate of work-related low back disorder hospitalization per 100,000 employed persons age 16 years or older								34.8	34.1	35.7	

†† New indicator, developed by WA State - collection started in 2010 and is optional for other states