

Montana Summary of Occupational Health Indicators 2004-2011

Demographics	2004	2005	2006	2007	2008	2009	2010	2011
Employed Persons	462,000	476,000	487,000	492,000	481,000	463,000	452,000	466,000
P1. Percentage of civilian workforce unemployed	4.9	4.4	3.6	3.6	5.2	7.1	7.7	7.3
P2. Percentage of civilian employment self-employed	14.3	13.5	13.2	12.9	13.7	11.7	11.3	12.0
P3. Percentage of civilian employment in part-time jobs	22.5	21.2	20.1	21.1	21.2	21.8	22.1	23.4
P4. Percentage of civilian employment by number of hours worked								
<40 hours	40.3	40.8	38.2	37.8	39.3	43.6	40.3	41.4
40 hours	30.3	29.6	32.0	32.5	33.9	33.0	35.2	35
41+ hours	29.4	29.6	29.8	29.7	26.8	23.3	24.3	23.4
P5. Percentage of civilian employment by sex								
Males	52.4	53.4	52.4	52.0	52.4	51.8	51.8	51.3
Females	47.6	46.8	47.6	48.0	47.6	48.2	48.2	48.7
P6. Percentage of civilian employment by age group								
16 to 17	2.6	2.3	2.5	2.0	1.7	1.5	1.1	1.1
18 to 64	93.5	93.6	93.2	93.4	93.1	93.1	93.7	91.6
65+	3.9	4.1	4.2	4.6	5.2	5.3	5.2	7.3
P7. Percentage of civilian employment by race								
White	93.1	94.3	94.5	93.9	94.4	93.3	93.0	94.0
Black	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
Other	6.5	5.3	5.1	5.7	5.2	6.3	6.4	6.0
P8. Percentage of civilian employment by Hispanic Origin	2.2	2.2	1.9	1.8	1.6	2.2	2.7	1.9
P9. Percentage of civilian employment by industry								
Mining	0.8	0.8	1.5	1.3	0.8	0.6	1.3	1.1
Construction	10.4	11.1	10.7	10.9	10.6	8.7	7.8	7.3
Manufacturing-Durable Goods	3.5	2.5	3.5	3.4	2.8	2.8	3.0	3.4
Manufacturing-Nondurable Goods	1.9	1.5	1.3	1.8	1.2	1.7	2.1	1.5
Wholesale and retail trade	16.1	15.4	15.5	15.1	15.0	13.9	14.3	14.2
Transportation and utilities	4.7	4.6	4.1	3.5	4.3	4.5	4.0	4.1
Information	2.0	1.7	2.2	2.2	2.3	2.2	1.9	1.4
Financial activities	5.7	5.6	5.9	6.2	5.9	6.1	6.4	6.6
Professional and business services	6.4	7.2	7.4	7.3	7.5	8.9	9.1	9.1
Education and health services	21.0	20.3	20.0	20.9	21.3	22.7	23.0	24.5
Leisure and hospitality	9.9	11.4	11.0	10.2	10.3	10.8	12.6	12.9
Other Services	5.2	4.9	4.2	4.3	4.7	4.3	4.1	3.7
Public Administration	5.2	5.2	6.0	6.2	5.2	5.0	4.2	4.5
Agriculture	7.2	6.8	6.7	6.7	8.3	7.4	6.2	5.9
P10. Percentage of civilian employment by occupation								
Management, business and financial operations	16.8	15.0	15.4	15.7	17.7	17.1	17.3	16.1
Professional and related occupations	17.4	17.7	18.4	18.9	18.4	19.9	19.9	19.8
Service	17.0	19.1	17.8	16.6	18.4	19.5	19.9	20.2
Sales and related occupations	11.3	12.9	11.5	11.2	11.2	11.3	10.5	11.0
Office and administrative support	13.0	10.8	12.4	14.0	12.0	11.5	11.7	12.7
Farming, fishing, and forestry	2.7	2.5	2.2	1.4	1.5	1.9	2.0	1.7
Construction and extraction	7.5	9.3	8.6	8.9	8.3	6.3	6.3	5.5

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Installation, maintenance, and repair	4.3	3.5	3.7	3.4	3.0	3.5	3.5	3.5
Production	4.5	4.0	4.0	4.1	3.8	3.9	3.9	3.9
Transportation and material moving	5.6	5.1	6.0	5.8	5.7	5.2	5.1	5.8
Indicator 1 - Nonfatal Work-Related Injuries & Illness Reported by Employers	2004	2005	2006	2007	2008	2009	2010	2011
1.1 Estimated Annual Total Number of Work-Related Injuries and Illnesses	18,800	17,000	18,900	17,800	18,000	14,300	13,000	13,200
1.2 Estimated Annual Total Work-Related Injuries and Illness Incidence Rate per 100,000 FTEs	7,200	6,600	6,900	6,300	6,400	5,300	5,000	5,000
1.3 Estimated Annual Total Number of Cases Involving Days Away From Work	5,900	5,600	5,500	5,100	6,000	5,000	4,400	4,200
1.4 Estimated Annual Total Incidence Rate for Cases Involving Days Away From Work per 100,000 FTEs	2,300	2,200	2,000	1,800	2,100	1,800	1,700	1,600
1.5 Estimated Annual Total Number of Cases Involving More Than 10 Days Away From Work	2,130	2,180	2,050	2,080	2,020	1,770	1,510	1,830
Indicator 2 - Work-Related Hospitalizations								
2.1 Annual Number of Work-Related Hospitalizations	505	552	542	472	266	250	427	372
2.2 Annual Rate of Hospitalization per 100,000 employed persons age 16 years or older	109.3	116.0	111.3	95.9	55.3	54.0	94.5	79.8
Indicator 3 - Fatal Work-Related Injuries								
3.1 Annual Number of Work-Related Traumatic Fatalities	39	50	45	54	40	50	36	49
3.2 Annual Fatality Rate per 100,000 FTEs age 16 years and older	8.4	10.5	9.2	11.0	8.2	12.0	8.2	11.2
Indicator 4 - Work-Related Amputations with Days Away from Work Reported by Employers								
4.1 Estimated Annual Number of Amputations Involving Days Away from Work	-	30	30	20	90	-	60	20
4.2 Estimated Annual Incidence Rate of Amputations Involving Days Away from Work per 100,000 FTEs	-	10.0	11.0	7.0	31.0	-	22.0	9.0
Indicator 5 - State Workers' Compensation Claims for Amputations with Lost Work-Time								
5.1 Annual Number of Amputations filed with State Workers' Compensation System with >4 days away from work	32	39	21	24	18	21	23	19
5.2 Annual Incidence Rate of Amputations filed with State Workers' Compensation System per 100,000 Workers Covered with >4 days away from work	8.2	9.8	5.1	5.7	4.2	5.2	5.7	4.7
Indicator 6 - Hospitalizations for Work-Related Burns								
6.1 Annual number of work-related burn hospitalizations	5	<5	<5	<5	<5	<5	<5	<5
6.2 Annual rate of work-related burn hospitalizations per 100,000 employed persons age 16 years or older	1.1	*	*	*	*	*	*	*
Indicator 7 - Work-Related Musculoskeletal Disorders with Days Away from Work								
7.1 Estimated annual number of all musculoskeletal disorders	2,600	2,270	1,960	1,920	2,480	1,660	1,380	1,860
7.2 Estimated annual incidence rate of all musculoskeletal disorders per 100,000 FTEs	1,000	880	717	681	878	430	531	706
7.3 Estimated annual number of MSDs of the neck, shoulder & upper extremities	840	590	530	500	870	430	420	810

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7.4 Estimated annual incidence rate of disorders of neck, shoulder, and upper extremities per 100,000 FTEs	324	231	192	178	308	159.0	161	306
7.5 Estimated annual number of carpal tunnel syndrome cases	100	90	90	50	40	40	90	100
7.6 Estimated annual incidence rate of carpal tunnel syndrome cases per 100,000 FTEs	36	36	34	16	13	15	36	40
7.7 Estimated annual number of musculoskeletal disorders of the back	1,120	1,040	1,000	970	1,140	760	620	840
7.8 Estimated annual incidence rate of musculoskeletal disorders of the back per 100,000 FTEs	430	402	366	343	403	281	236	320
Indicator 8 - State Workers' Compensation Claims for Carpal Tunnel Syndrome	2004	2005	2006	2007	2008	2009	2010	2011
8.1 Annual number of carpal tunnel syndrome cases filed with State WC with >4 days away from work	143	107	60	41	31	27	32	18
8.2 Annual incidence rate of carpal tunnel syndrome cases filed with State WC per 100,000 Workers Covered with >4 days away from work	36.7	26.8	14.5	9.7	7.3	6.6	7.9	4.4
Indicator 9 - Hospitalizations from or with Pneumoconiosis								
9.1.1 Annual number of total pneumoconiosis hospital discharges	173	264	225	202	176	196	174	183
9.1.2 Annual rate of total pneumoconiosis hospital discharges per million residents	231.4	385.5	293.0	259.5	223.5	246.7	215.6	224.7
9.1.3 Annual, age-standardized, rate of total pneumoconiosis hospitalizations per million residents	213.8	320.2	267.5	235.6	201.3	221.6	187.1	192.5
9.2.1 Annual number of coal workers' pneumoconiosis hospital discharges	9	<5	<5	<5	<5	<5	<5	<5
9.2.2 Annual rate of coal workers' pneumoconiosis hospital discharges per million residents	12.0	*	*	*	*	*	*	*
9.2.3 Annual, age-standardized, rate of coal workers' pneumoconiosis hospital discharges per million residents	11.4	*	*	*	*	*	*	*
9.3.1 Annual number of asbestosis hospital discharges	156	252	211	190	173	189	166	174
9.3.2 Annual rate of asbestosis hospital discharges per million residents	208.7	332.7	274.7	244.1	219.7	237.9	205.7	213.7
9.3.3 Annual, age-standardized, rate of abestosis hospital discharges per million residents	192.3	305.0	250.0	221.9	197.9	213.2	177.0	183.8
9.4.1 Annual number of silicosis hospital discharges	8	7	10	8	<5	5	5	6
9.4.2 Annual rate of silicosis hospital discharges per million residents	10.7	9.2	13.0	10.3	*	6.3	6.2	7.4
9.4.3 Annual, age-standardized, rate of silicosis hospital discharges per million residents	10.1	8.9	12.4	9.7	*	6.1	6.2	5.9
9.5.1 Annual number of other and unspecified pneumoconiosis hospital discharges	<5	<5	<5	<5	<5	<5	<5	<5
9.5.2 Annual rate of other and unspecified pneumoconiosis hospital discharges per million residents	*	*	*	*	*	*	*	*
9.5.3 Annual, age-standardized, rate of other and unspecified pneumoconiosis hospital discharges per million residents	*	*	*	*	*	*	*	*
Indicator 10 - Mortality from or with Pneumoconiosis								
10.1.1 Annual number of total pneumoconiosis deaths	17	18	19	23	15	25	32	21
10.1.2 Annual total pneumoconiosis death rate per million residents	22.7	23.8	24.7	29.5	20.3	31.5	39.6	25.8

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10.1.3 Annual, age-standardized total pneumoconiosis death rate per million residents	21.2	22.1	22.6	26.5	20.3	31.5	39.6	25.8
10.2.1 Annual number of coal workers' pneumoconiosis deaths	<5	<5	<5	<5	<5	<5	<5	<5
10.2.2 Annual coal workers' pneumoconiosis death rate per million residents	*	*	*	*	*	*	*	*
10.2.3 Annual, age-standardized rate of coal workers' pneumoconiosis deaths per million residents	*	*	*	*	*	*	*	*
10.3.1 Annual number of asbestos deaths	17	16	17	23	15	22	30	20
10.3.2 Annual asbestosis death rate per million residents	22.7	21.1	22.1	29.5	19.0	27.2	37.2	24.6
10.3.3 Annual, age-standardized asbestosis death rate per million residents	21.2	19.7	20.1	25.2	19.0	27.7	37.2	24.6
10.4.1 Annual number of silicosis deaths	<5	<5	<5	<5	<5	<5	<5	<5
10.4.2 Annual silicosis death rate per million residents	*	*	*	*	*	*	*	*
10.4.3 Annual, age-standardized silicosis death rate per million residents	*	*	*	*	*	*	*	*
10.5.1 Annual number of other and unspecified pneumoconiosis deaths	<5	<5	<5	<5	<5	<5	<5	<5
10.5.2 Annual other and unspecified pneumoconiosis death rate per million residents	*	*	*	*	*	*	*	*
10.5.3 Annual, age-standardized pneumoconiosis death rate per million residents	*	*	*	*	*	*	*	*
Indicator 11 - Acute Work-Related Pesticide Illness and Injury Reported to Poison Control Centers								
	2004	2005	2006	2007	2008	2009	2010	2011
11.1 Annual number of reported work-related pesticide poisoning cases	11	15	14	15	8	12	17	14
11.2 Annual incidence rate of reported work-related pesticide poisoning cases per 100,000 employed persons age 16 years or older	2.4	3.2	2.9	3.1	1.7	2.6	3.7	3.0
Indicator 12 - Incidence of Malignant Mesothelioma								
12.1 Annual number of incident mesothelioma cases	18	13	17	11	11	7	13	12
12.2 Annual mesothelioma incidence rate per million residents	24.0	17.1	22.1	14.1	14.0	8.8	16.1	14.7
12.3 Annual, age-standardized mesothelioma incidence rate per million residents	-	-	-	-	-	-	-	-
Indicator 13 - Elevated Blood Lead Levels Among Adults								
13.1.1 Annual number of residents with elevated blood lead levels (≥ 10 mcg/dL)	-	-	-	-	-	-	34	29
13.1.2 Annual prevalence rate per 100,000 employed persons	-	-	-	-	-	-	7.5	6.2
13.1.3 Annual number of incident cases	-	-	-	-	-	-	20	17
13.1.4 Annual incidence rate per 100,000 employed persons	-	-	-	-	-	-	4.4	3.6
13.2.1 Annual number of residents with elevated blood lead levels (≥ 25 mcg/dL)	8	<5	6	<5	7	7	<5	<5
13.2.2 Annual prevalence rate per 100,000 employed persons	1.7	*	1.2	*	1.5	1.5	*	*
13.2.3 Annual number of incident cases	8	<5	6	<5	7	7	<5	<5
13.2.4 Annual incidence rate per 100,000 employed persons	1.7	*	1.2	*	1.5	1.5	*	*
13.3.1 Annual number of residents with elevated blood lead levels (≥ 40 mcg/dL)	<5	<5	<5	<5	<5	<5	<5	<5
13.3.2 Annual prevalence rate per 100,000 employed persons	*	*	*	*	*	*	*	*
13.2.3 Annual number of incident cases	<5	<5	<5	<5	<5	<5	<5	<5
13.2.4 Annual incidence rate per 100,000 employed persons	*	*	*	*	*	*	*	*

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Indicator 14 - Workers' Employed in Industries at High Risk for Occupational Morbidity								
	2004	2005	2006	2007	2008	2009	2010	2011
14.1 Number of employed persons in high morbidity risk NAICS industries	21,464	21,557	22,383	22,786	23,893	23,135	23,277	23,122
14.2 Percentage of employed persons in high morbidity risk NAICS industries	6.8	6.6	6.5	6.4	6.6	6.8	6.9	6.9
Indicator 15 - Workers' Employed in Occupations at High Risk for Occupational Morbidity								
15.1 Average number of employed persons in high morbidity risk Bureau of the Census Occupations	41,033	44,853	45,031	43,318	82,571	78,934	48,716	48,388
15.2 Percentage of employed persons in high morbidity risk Bureau of the Census Occupations	14.5	14.8	14.5	13.8	26.6	26.4	16.3	16.1
Indicator 16 - Workers' Employed in Industries & Occupations at High Risk for Occupational Mortality								
16.1 Average number of employed persons in high mortality risk Bureau of Census industries	97,046	103,274	109,157	102,065	110,875	96,556	55,948	46,518
16.2 Percentage of employed persons in high mortality risk Bureau of Census industries	25.8	26.5	27.4	25.2	27.4	25.2	18.7	15.5
16.3 Average number of employed persons in high mortality risk Bureau of Census occupations	63,966	66,402	71,232	67,411	80,925	67,915	45,487	44,500
16.4 Percentage of employed persons in high mortality risk Bureau of Census occupations	17.0	17.1	17.9	16.7	20.0	17.8	15.2	14.8
Indicator 17 - Occupational Safety & Health Professionals								
17.1 Number (Rate) of board-certified occupational physicians per 100,000 employees	5 (1.1)	5 (1.1)	5 (1.1)	6 (1.0)	7 (1.2)	7 (1.5)	8 (1.7)	NA
17.2 Number (Rate) of ACOEM members per 100,000 employees	8 (1.7)	8 (1.7)	9 (1.8)	10 (2.0)	11 (2.3)	12 (2.6)	14 (3.0)	NA
17.3 Number (Rate) of board-certified occupational health registered nurses per 100,000 employees	5 (1.1)	6 (1.3)	6 (1.2)	6 (1.2)	7 (1.5)	8 (1.7)	9 (1.9)	NA
17.4 Number (Rate) of members of the AAOH per 100,000 employees	8 (1.7)	10 (2.1)	8 (1.6)	7 (1.4)	8 (1.7)	7 (1.5)	0 (0)	NA
17.5 Number (Rate) of board-certified industrial hygienists per 100,000 employees	16 (3.5)	16 (3.4)	18 (3.7)	21 (4.3)	23 (4.8)	24 (5.2)	20 (4.3)	NA
17.6 Number (Rate) of AIHA per 100,000 employees	31 (6.7)	27 (5.7)	27 (5.5)	17 (3.5)	26 (5.4)	24 (5.2)	21 (4.5)	NA
17.7 Number (Rate) of board certified safety health professionals per 100,000 employees	18 (3.9)	26 (5.5)	26 (5.3)	28 (5.7)	33 (6.9)	36 (7.8)	39 (8.4)	NA
17.8 Number (Rate) of ASSE membership per 100,000 employees	95 (20.6)	118 (24.8)	103 (19.1)	94 (19.1)	120 (25.0)	104 (22.5)	125 (26.8)	NA
Indicator 18 - OSHA Enforcement Activities								
18.1 Annual number of employer establishments inspected by OSHA	487	292	460	333	358	359	411	79
18.2 Number of OSHA-Covered Establishments that are Eligible for OSHA Inspection (excluding mines & farms)	39,242	37,765	38,838	40,176	40,708	40,297	39,900	39,756
18.3 Percentage of OSHA-Covered Establishments Eligible for Inspection that were Inspected by OSHA	1.2	0.8	1.2	0.8	0.9	0.9	1.0	0.2
18.4 Annual Number of Employees whose Work Areas were Inspected by OSHA	10,575	7,767	7,807	8,104	10,296	7,612	6,867	1,384
18.5 Number of OSHA-Covered Employees (excluding miners & farm workers) Eligible for Inspection	329,060	338,542	350,193	360,351	360,338	343,982	340,358	343,181

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18.6 Percentage of OSHA-Covered Employees Eligible for Inspection Whose Work Areas were Inspected by OSHA	3.2	2.3	2.2	2.2	2.9	2.2	2.0	0.4
Indicator 19 - Workers' Compensation Awards	2004	2005	2006	2007	2008	2009	2010	2011
19.1 Total amount of workers' compensation benefits paid (in thousands)	\$211,460	\$227,321	\$234,247	\$254,661	\$260,835	\$261,105	\$266,821	\$252,550
19.2 Average amount of workers' compensation benefits paid per covered worker	\$542	\$568	\$567	\$602	\$615	\$642	\$659	\$622
Indicator 20 - Low Back Disorder Hospitalizations								
20.1 Annual number of work-related surgical low back disorder hospitalizations for persons age 16 years or older	-	-	-	-	-	-	-	-
20.2 Annual rate of work-related surgical low back disorder hospitalization per 100,000 employed persons age 16 years or older	-	-	-	-	-	-	-	-
20.3 Annual number of work-related low back disorder hospitalizations for persons age 16 years or older	122	131	105	93	70	53	105	71
20.4 Annual rate of work-related low back disorder hospitalization per 100,000 employed persons age 16 years or older	26.4	27.5	21.6	18.9	14.6	11.4	23.2	15.2
Indicator 21 - Asthma Among Adults Caused or Made Worse by Work								
21.1 Weighted estimate of the number of ever-employed adults with current asthma who report that their asthma was caused or made worse by exposures at work								40,970
21.2 Estimated proportion of ever-employed adults with current asthma who report that their asthma was caused or made worse by exposures at work								59%
* Not statistically significant	- Not available	Preliminary						