

Selected Findings for the Mining and Oil & Gas Extraction Sectors From the 2010 National Health Interview Survey – Occupational Health Supplement (NHIS-OHS)



Background

In 2010, the National Institute for Occupational Safety and Health (NIOSH), recognizing a growing need for current, national estimates on work-related health and safety conditions, sponsored an occupational health supplement (OHS) to the National Health Interview Survey (NHIS).

The interviewed sample adult component of the 2010 NHIS consisted of 27,157 persons, of whom approximately 17,524 had been employed in the past 12 months. The sample is designed and weighted to produce national estimates.

For more information on the NHIS and to access the 2010 NHIS data, please refer to the following website: (<http://www.cdc.gov/nchs/nhis.htm>)

Purpose

This profile summarizes the 2010 NHIS-OHS data for the Mining and Oil & Gas Extraction sector through figures and tables in an effort to provide sector leaders with information so they can better understand health and exposure burdens specific to their industry.

In the 2010 NHIS-OHS, the sample of those employed by the Mining and Oil & Gas Extraction sectors consisted of 75 persons, representing approximately 721,000 workers. This profile summarizes the prevalence of selected health outcomes; work organization and psychosocial factors; and physical and chemical exposures among workers in the Mining and Oil & Gas Extraction sectors. All Mining and Oil & Gas Extraction workers are compared to all U.S. workers combined, and comparisons are made among 3 Mining and Oil & Gas Extraction subsectors, although small sample sizes within several of the subsectors limit the reporting of some estimates.

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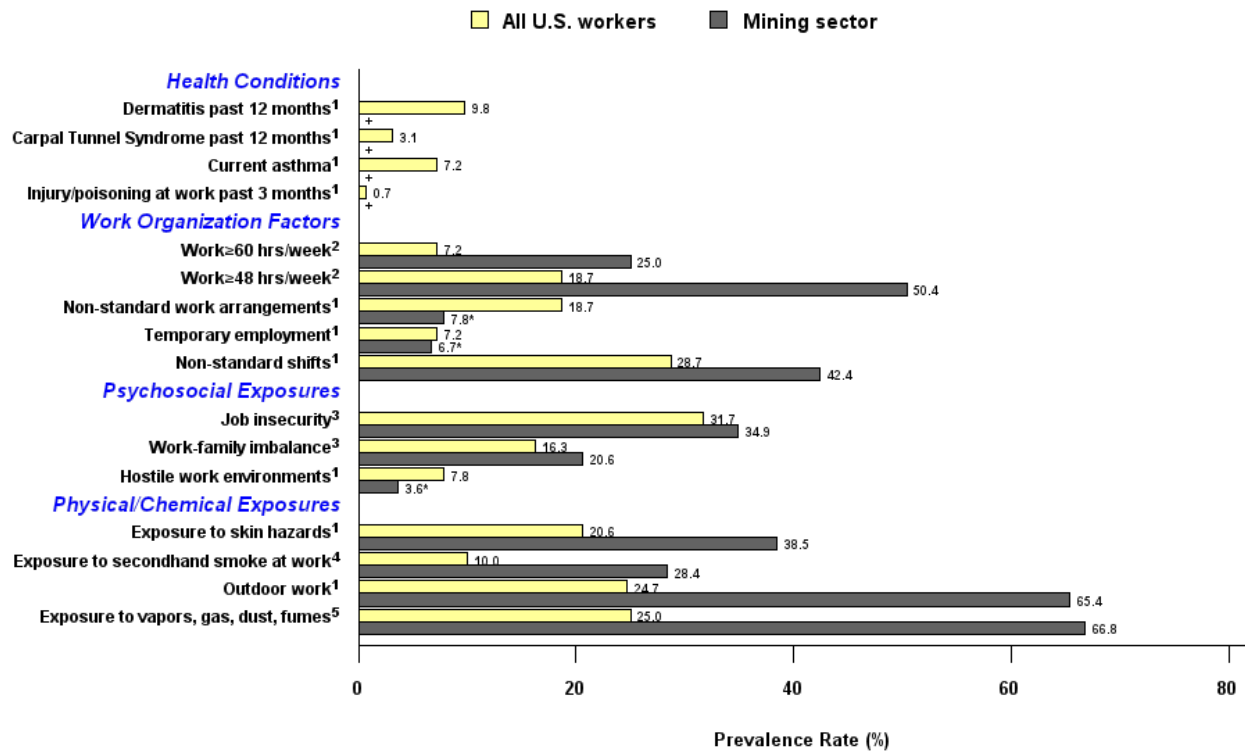
Table A. U.S. Mining and Oil & Gas Extraction workers by subsector, 2010

Industry subsector	Census 2007 industry codes	Estimated Population Represented by Sample	% of U.S. Mining and Oil & Gas Extraction workforce
Oil and gas extraction	370	62,560	8.7
Mining (except oil and gas)	0380, 0390, 0470, 0480	238,936	33.1
Support activities for mining	490	419,442	58.2
Total		720,938	100

Table B. U.S. Mining and Oil & Gas Extraction workers by occupational category, 2010

Occupational category	Census 2010 occupation codes	Estimated Population Represented by Sample	% of U.S. Mining and Oil & Gas Extraction workforce
Management Occupations	0010-0430	59,558	8.3
Business and Financial Operations Occupations	0500-0950	56,734	7.9
Office and Administrative Support Occupations	5000-5940	43,518	6.0
Construction and Extraction Occupations	6200-6940	250,528	34.8
Installation, Maintenance, and Repair Occupations	7000-7630	73,848	10.2
Transportation and Material Moving Occupations	9000-9750	137,090	19.0
Other occupations		99,662	13.8
Total		720,938	100

Figure 1. Prevalence of selected health conditions; work organization and psychosocial factors; and physical and chemical exposures among U.S. workers (Mining and Oil and Gas Extraction sector vs. All U.S. workers, 2010)



¹Among U.S. adults who have worked in the past 12 months.

²Among U.S. adults who have worked in the past 12 months, who only held 1 job.

³Among U.S. adults who were employed in the week prior to interview.

⁴Among non-smoking U.S. adults who have worked in the past 12 months.

⁵Exposure during longest-held job (all other exposures refer to current or most recent job).

* These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

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Table 1. Prevalence of selected health conditions; work organization and psychosocial factors; and physical and chemical exposures among U.S. workers (Mining and Oil and Gas Extraction sectors vs. All U.S. workers, 2010)

		All U.S. workers			Mining and Oil and Gas Extraction sectors		
		Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
Health Conditions	Dermatitis in the past 12 months¹	9.8	0.3	9.2-10.3	+	+	+
	Carpal tunnel syndrome in the past 12 months¹	3.1	0.2	2.8-3.4	+	+	+
	Current asthma¹	7.2	0.2	6.7-7.6	+	+	+
	Injury or poisoning at work in the past 12 months¹	2.8	0.4	2.0-3.4	+	+	+
Work Organization Factors	Work 60 hours a week or more²	7.2	0.3	6.7-7.7	25.0	5.6	13.9-36.0
	Work 48 hours a week or more²	18.7	0.4	18.0-19.5	50.4	6.9	36.8-64.0
	Non-standard work arrangements¹	18.7	0.4	18.0-19.4	7.8*	3.5	1.0-14.6
	Temporary employment¹	7.2	0.3	6.7-7.7	6.7*	3.2	0.4-13.0
	Non-standard shifts¹	28.7	0.5	27.8-29.7	42.4	6.2	30.2-54.5
Psychosocial Exposures	Job insecurity³	31.7	0.5	30.8-32.6	34.9	6.6	22.0-47.8
	Work-family imbalance³	16.3	0.4	15.6-17.1	20.6	5.7	9.4-31.9
	Hostile work environments¹	7.8	0.3	7.3-8.4	3.6*	1.6	0.5-6.8
Physical/Chemical Exposures	Exposure to potential skin hazards at work¹	20.6	0.4	19.8-21.3	38.5	5.7	27.4-49.7
	Exposure to secondhand smoke at work⁴	10.0	0.3	9.3-10.6	28.4	6.2	16.1-40.6
	Exposure to outdoor work¹	24.7	0.4	23.8-25.6	65.4	6.0	53.6-77.2
	Exposure to vapors, gas, dust, or fumes⁵	25.0	0.4	24.2-25.8	66.8	4.6	57.8-75.8

¹ Among U.S. adults who have worked in the past 12 months.

² Among U.S. adults who have worked in the past 12 months, who only held 1 job.

³ Among U.S. adults who were employed in the week prior to interview.

⁴ Among non-smoking U.S. adults who have worked in the past 12 months.

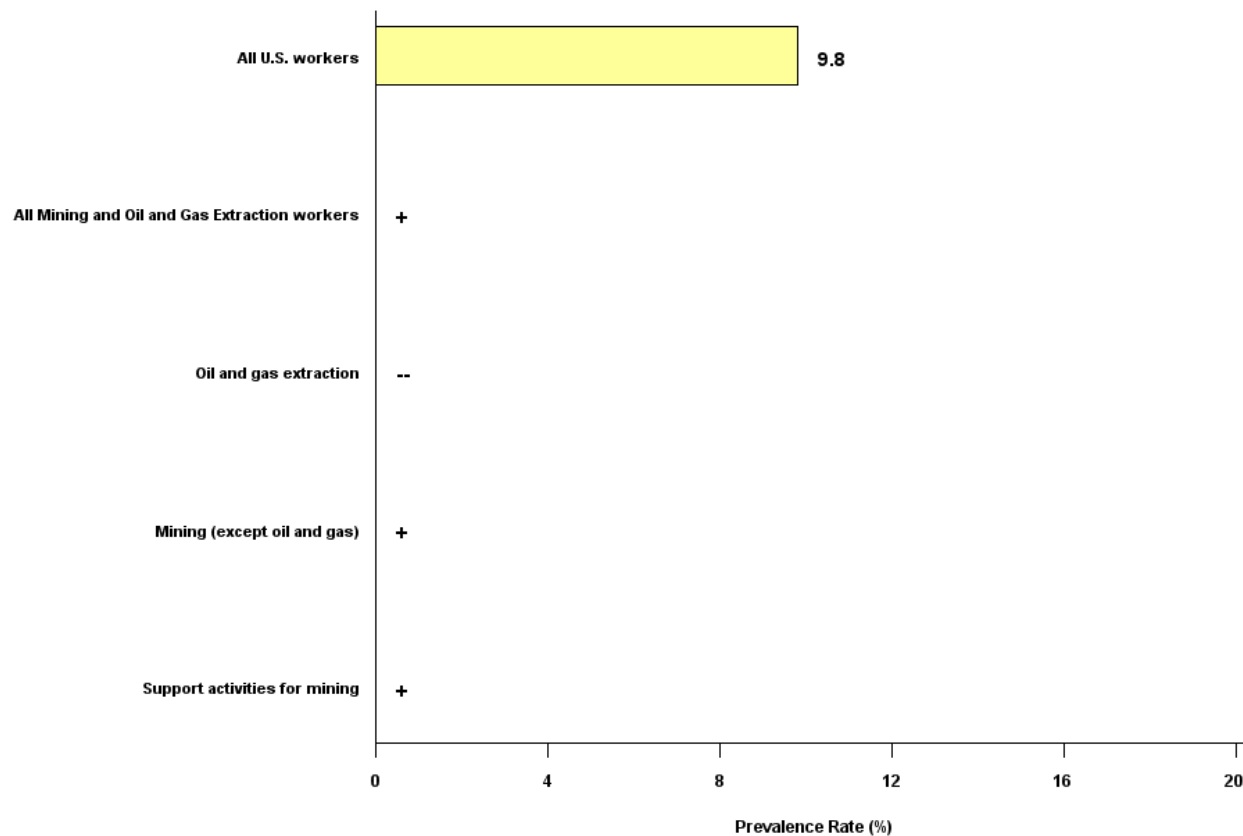
⁵ Exposure during longest-held job (all other exposures refer to current or most recent job).

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Figure 2. Prevalence of dermatitis in the past 12 months among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: During the past 12 months, have you had dermatitis, eczema or any other red, inflamed skin rash?



+ Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

-- No cases detected, likely due to insufficient sample size.

Table 2. Prevalence of dermatitis in the past 12 months among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

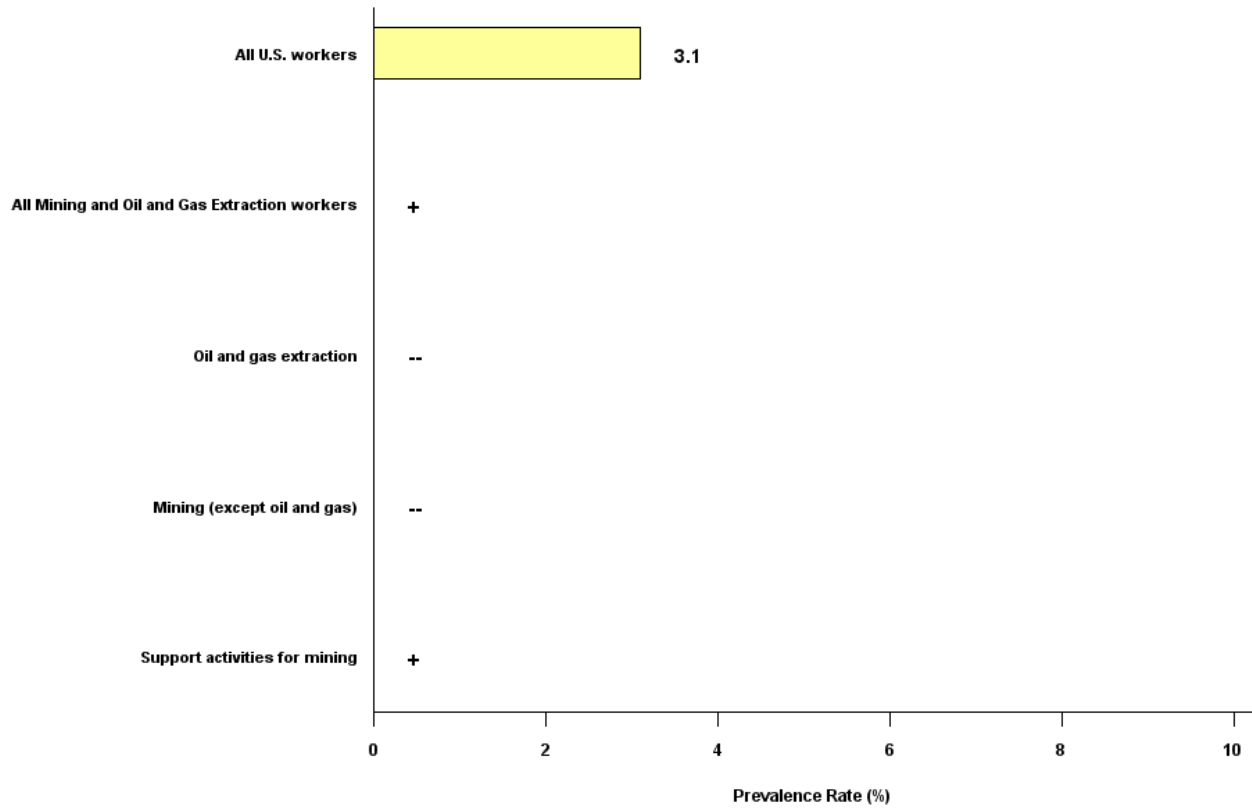
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	9.8	0.3	9.2-10.3
All Mining and Oil and Gas Extraction workers	+	+	+
Oil and gas extraction	--	--	--
Mining (except oil and gas)	+	+	+
Support activities for mining	+	+	+

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-- No cases detected, likely due to insufficient sample size.

Figure 3. Prevalence of carpal tunnel syndrome in the past 12 months among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: Have you ever been told by a doctor or other health professional that you have a condition affecting the wrist/hand called carpal tunnel syndrome? During the past 12 months, have you had carpal tunnel syndrome?



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-- No cases detected, likely due to insufficient sample size.

Table 3. Prevalence of carpal tunnel syndrome in the past 12 months among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

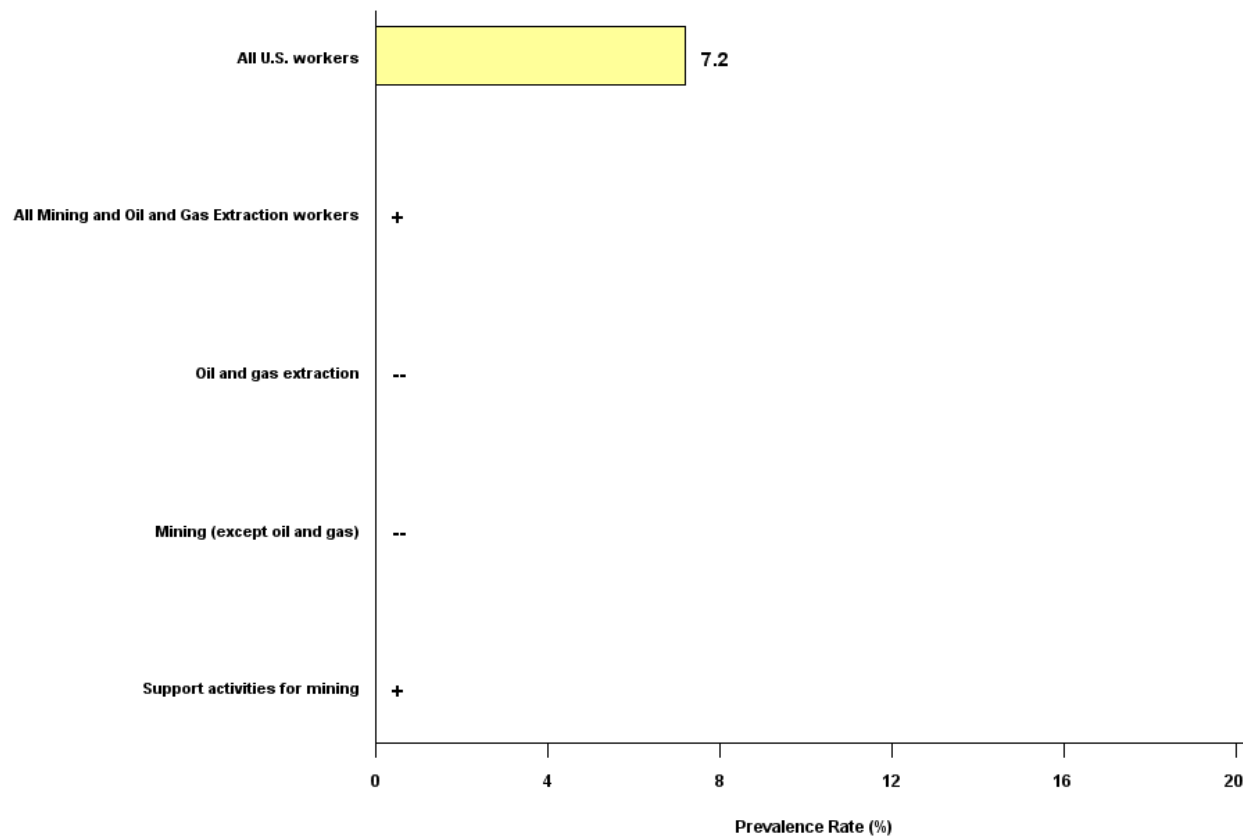
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	3.1	0.2	2.8-3.4
All Mining and Oil and Gas Extraction workers	+	+	+
Oil and gas extraction	--	--	--
Mining (except oil and gas)	--	--	--
Support activities for mining	+	+	+

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Figure 4. Prevalence of current asthma among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

*NHIS Question: Have you ever been told by a doctor or health professional that you had asthma?
Do you still have asthma?*



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Table 4. Prevalence of current asthma among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

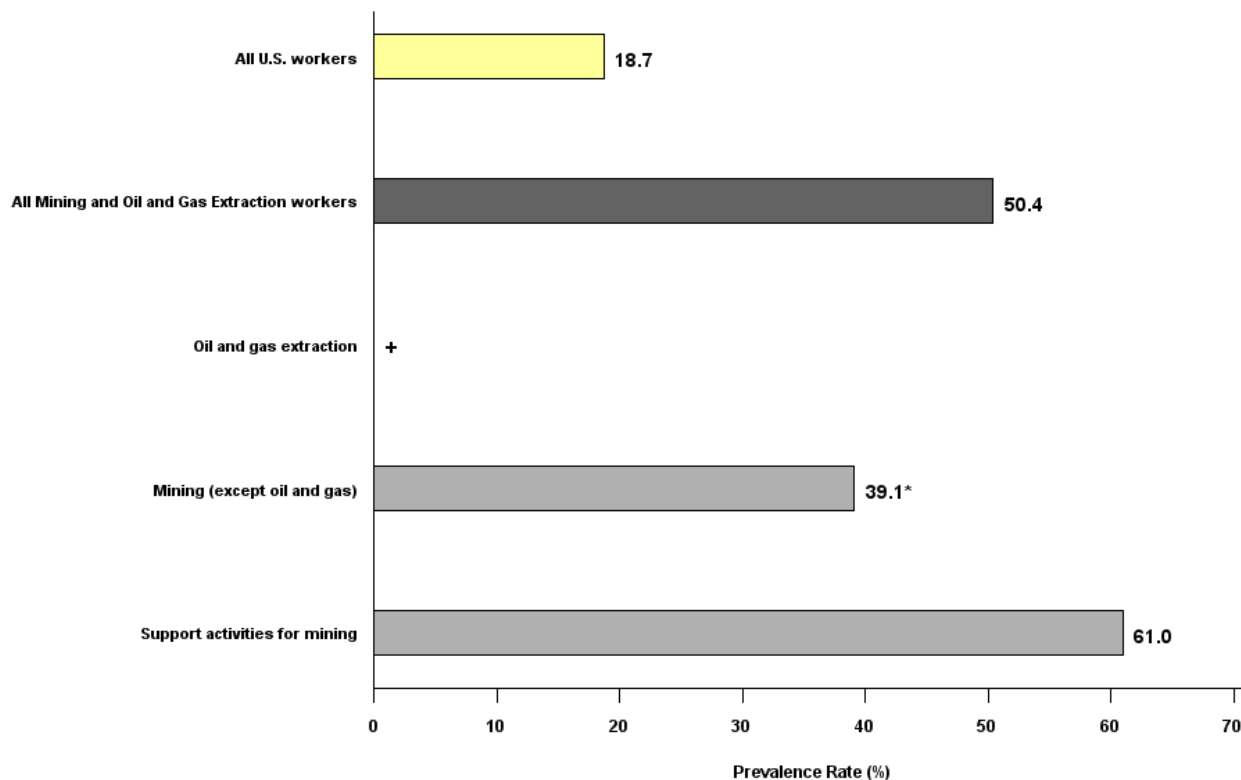
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	7.2	0.2	6.7-7.6
All Mining and Oil and Gas Extraction workers	+	+	+
Oil and gas extraction	--	--	--
Mining (except oil and gas)	--	--	--
Support activities for mining	+	+	+

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Figure 5. Prevalence of working 48 hours a week or more among U.S. adults working one job at the time of interview by Mining and Oil and Gas Extraction subsector, 2010

*NHIS Question: How many hours did [person] work last week?
 (This question may have been answered by proxy because it was part of the Family Questionnaire. If the person was not at work last week, the person/proxy was asked about average work hours per week.)*



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Table 5. Prevalence of working 48 hours a week or more among U.S. adults working one job at the time of interview by Mining and Oil and Gas Extraction subsector, 2010

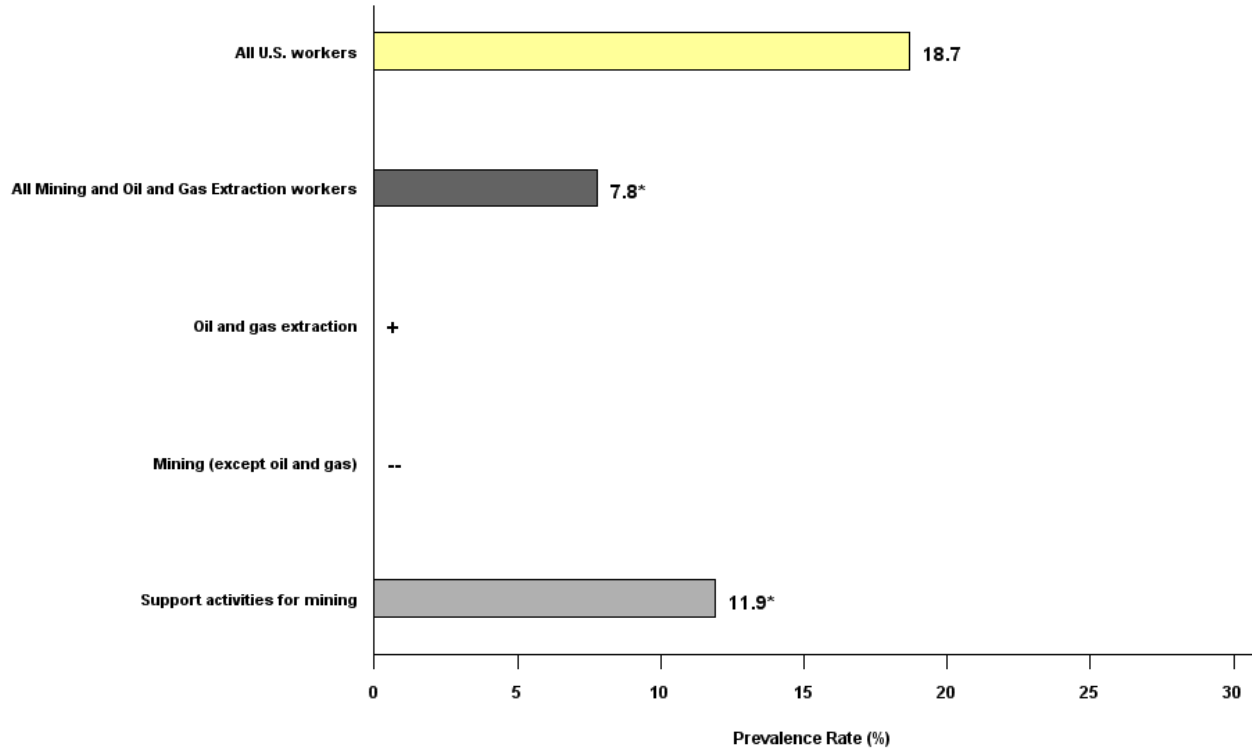
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	18.7	0.4	18.0-19.5
All Mining and Oil and Gas Extraction workers	50.4	6.9	36.8-64.0
Oil and gas extraction	+	+	+
Mining (except oil and gas)	39.1*	16.7	6.2-72.0
Support activities for mining	61.0	7.6	46.1-75.8

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Figure 6. Prevalence of non-standard work arrangements among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

*NHIS Question: Which of the following best [describes/described] your work arrangement?
(Non-standard work arrangement = independent contractor, independent consultant, or freelance worker;
on-call, and [work/worked] only when called to work; paid by a temporary agency;
or [work/worked] for a contractor who provides workers and services to others under contract)*



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Table 6. Prevalence of non-standard work arrangements among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

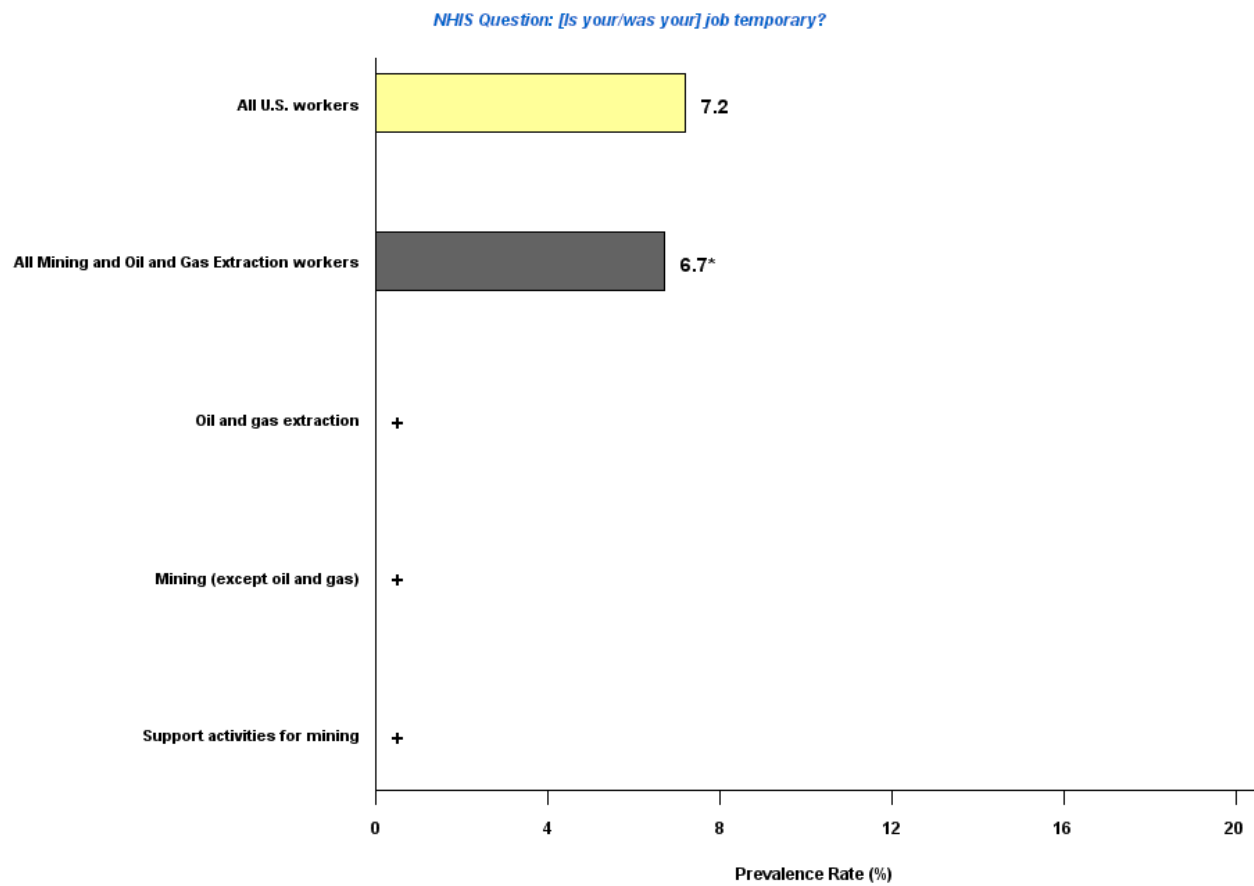
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	18.7	0.4	18.0-19.4
All Mining and Oil and Gas Extraction workers	7.8*	3.5	1.0-14.6
Oil and gas extraction	+	+	+
Mining (except oil and gas)	--	--	--
Support activities for mining	11.9*	5.4	1.4-22.5

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Figure 7. Prevalence of temporary employment among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010



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Table 7. Prevalence of temporary employment among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

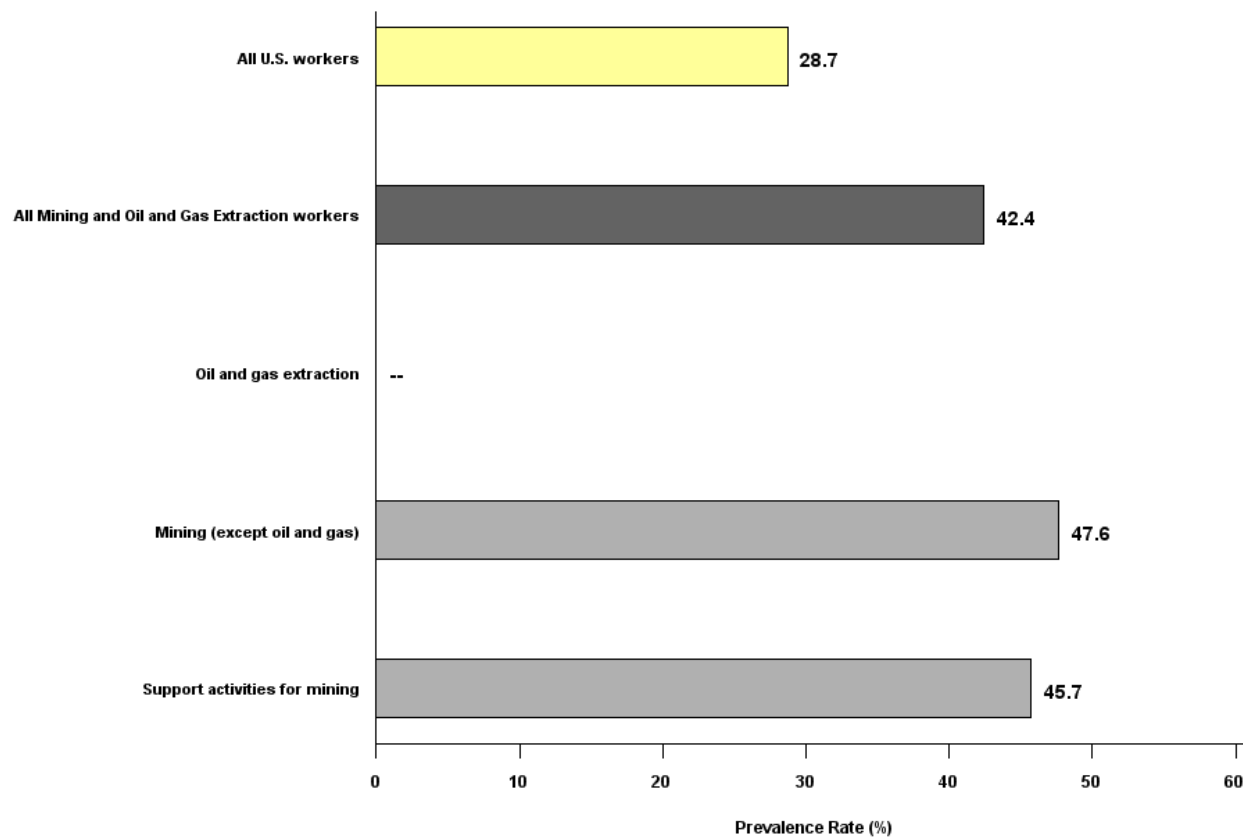
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	7.2	0.3	6.7-7.7
All Mining and Oil and Gas Extraction workers	6.7*	3.2	0.4-13.0
Oil and gas extraction	+	+	+
Mining (except oil and gas)	+	+	+
Support activities for mining	+	+	+

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Figure 8. Prevalence of non-standard shifts among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

*NHIS Question: Which of the following best describes the hours you usually [work/worked]?
(Non-standard shift = a regular evening shift; a regular night shift; a rotating shift; or some other schedule not including a regular daytime schedule)*



-- No cases detected, likely due to insufficient sample size.

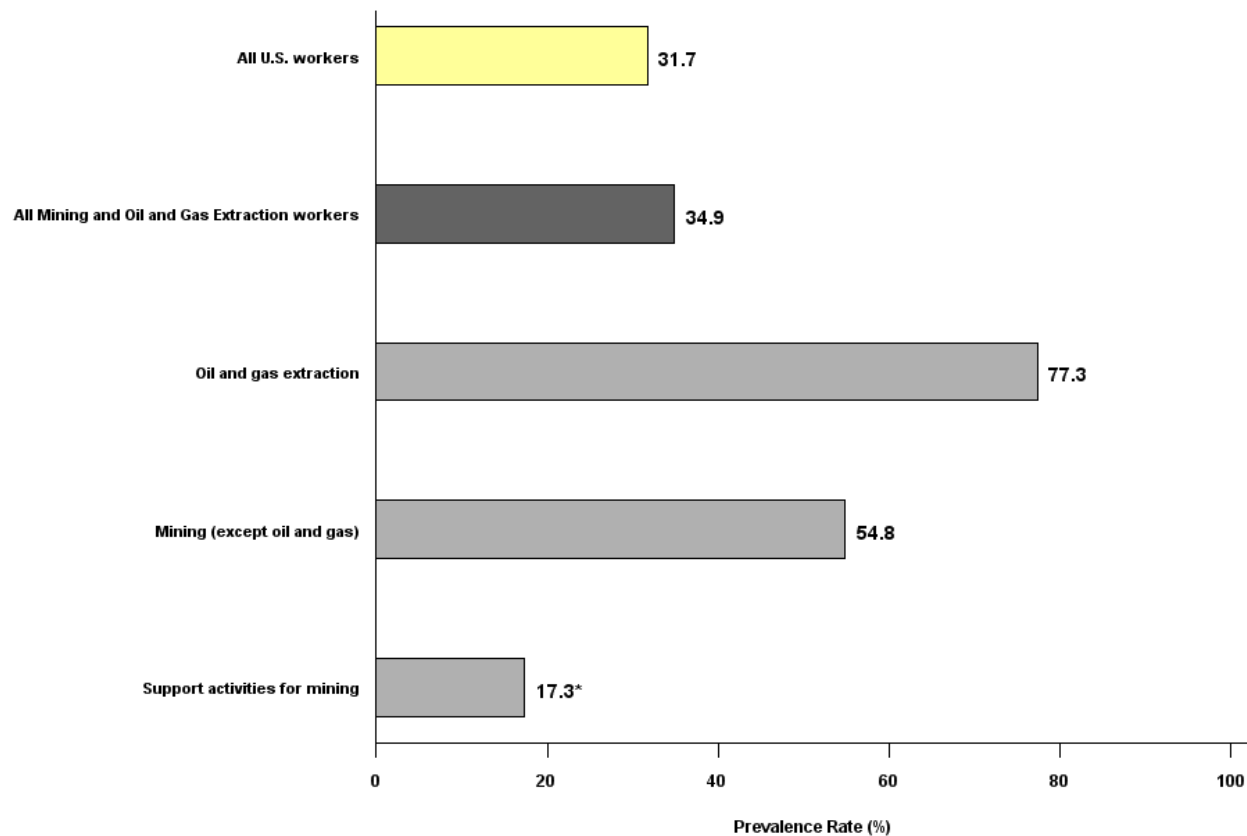
Table 8. Prevalence of non-standard shifts among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	28.7	0.5	27.8-29.7
All Mining and Oil and Gas Extraction workers	42.4	6.2	30.2-54.5
Oil and gas extraction	--	--	--
Mining (except oil and gas)	47.6	12.5	22.9-72.3
Support activities for mining	45.7	6.5	32.9-58.6

-- No cases detected, likely due to insufficient sample size.

Figure 9. Prevalence of job insecurity among working U.S. adults by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: I [am/was] worried about becoming unemployed.
(Job insecurity = strongly agree or agree)



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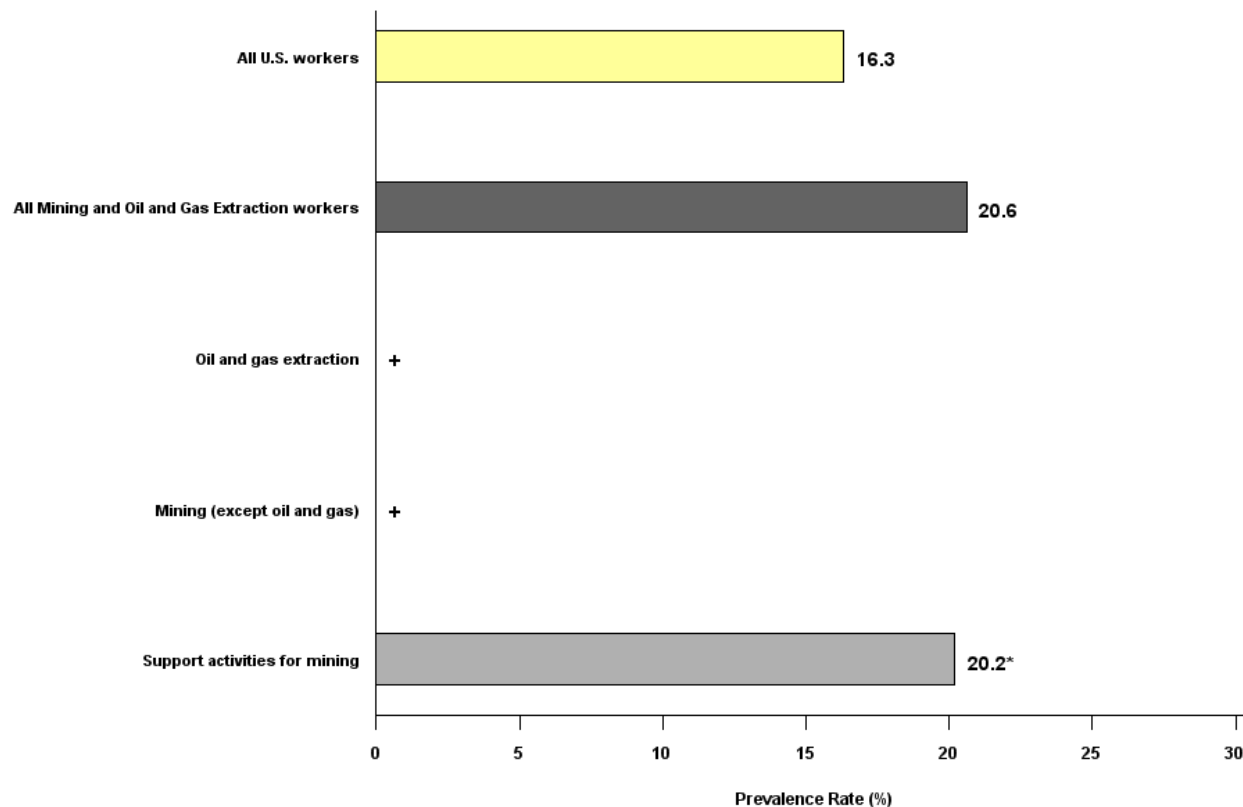
Table 9. Prevalence of job insecurity among working U.S. adults by Mining and Oil and Gas Extraction subsector, 2010

	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	31.7	0.5	30.8-32.6
All Mining and Oil and Gas Extraction workers	34.9	6.6	22.0-47.8
Oil and gas extraction	77.3	16.2	45.5-100.0
Mining (except oil and gas)	54.8	15.9	23.6-86.1
Support activities for mining	17.3*	5.8	5.9-28.8

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Figure 10. Prevalence of work-family imbalance among working U.S. adults by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: It [is/was] easy for me to combine work with family responsibilities.
(Work-family imbalance = disagree or strongly disagree)



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Table 10. Prevalence of work-family imbalance among working U.S. adults by Mining and Oil and Gas Extraction subsector, 2010

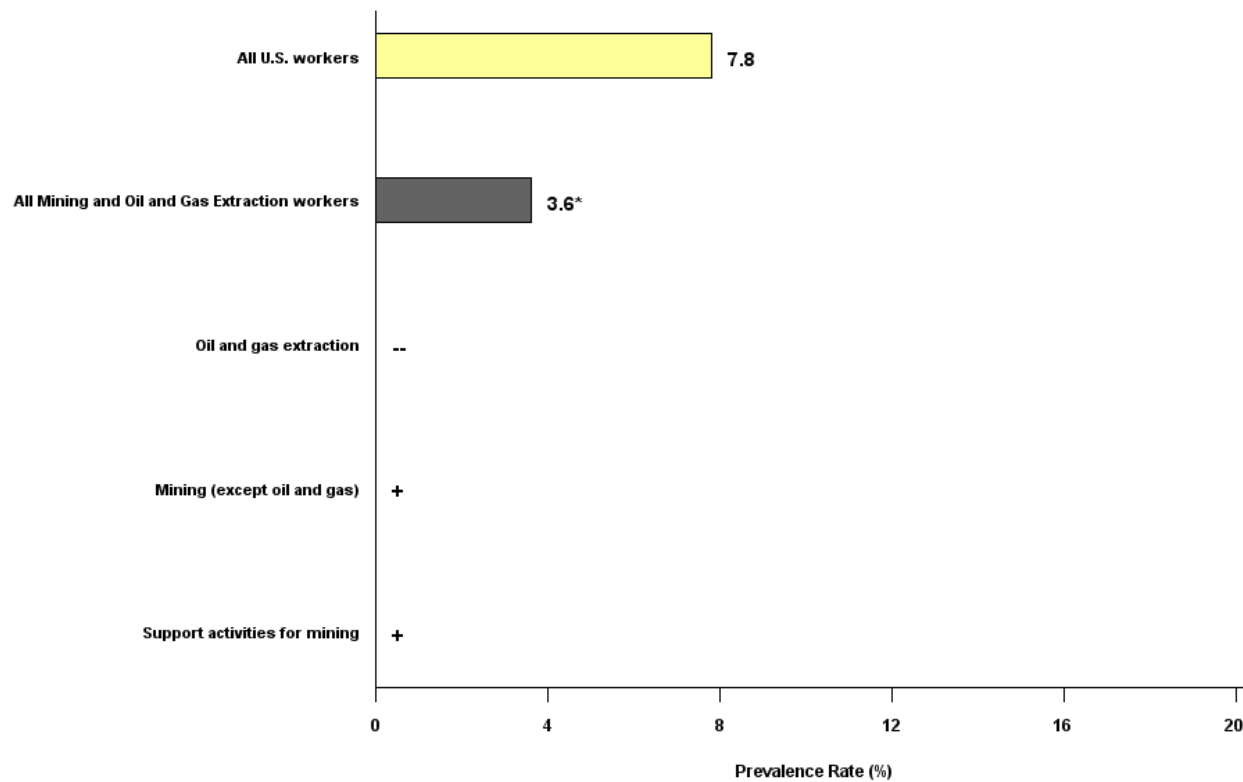
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	16.3	0.4	15.6-17.1
All Mining and Oil and Gas Extraction workers	20.6	5.7	9.4-31.9
Oil and gas extraction	+	+	+
Mining (except oil and gas)	+	+	+
Support activities for mining	20.2*	7.2	6.1-34.4

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Figure 11. Prevalence of hostile work environments among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: During the past 12 months, were you threatened, bullied, or harassed by anyone while you were on the job?



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-- No cases detected, likely due to insufficient sample size.

Table 11. Prevalence of hostile work environments among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	7.8	0.3	7.3-8.4
All Mining and Oil and Gas Extraction workers	3.6*	1.6	0.5-6.8
Oil and gas extraction	--	--	--
Mining (except oil and gas)	+	+	+
Support activities for mining	+	+	+

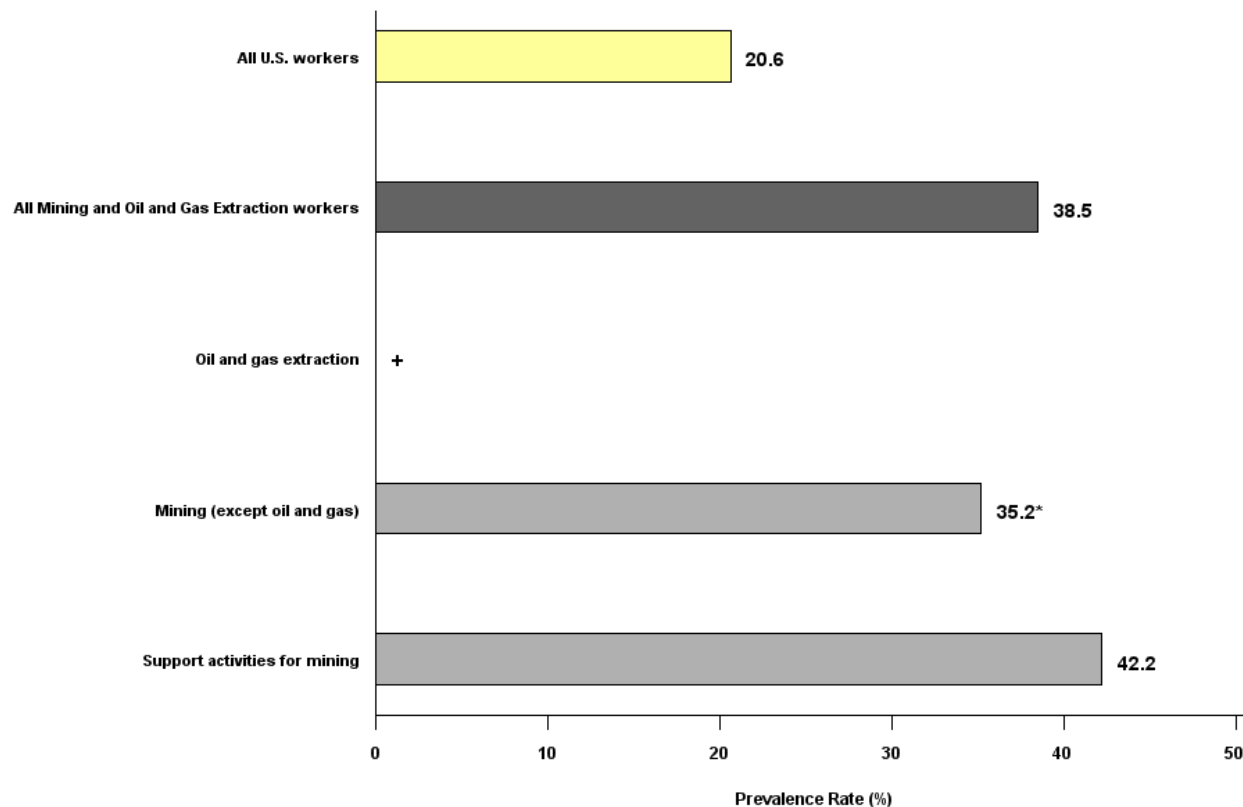
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-- No cases detected, likely due to insufficient sample size.

Figure 12. Prevalence of exposure to potential skin hazards at work among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: During the past 12 months, did you regularly handle or were you in skin contact with chemical products or substances at work twice a week or more?



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Table 12. Prevalence of exposure to potential skin hazards at work among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

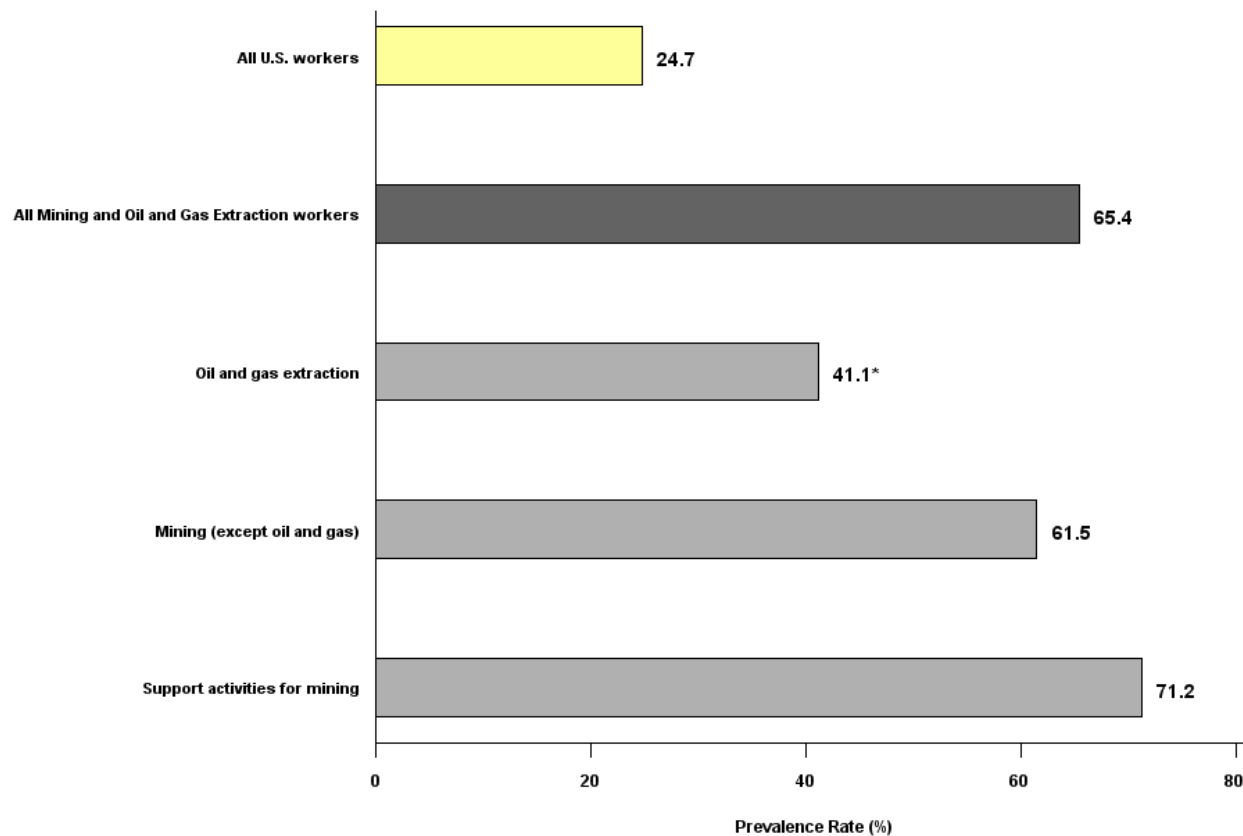
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	20.6	0.4	19.8-21.3
All Mining and Oil and Gas Extraction workers	38.5	5.7	27.4-49.7
Oil and gas extraction	+	+	+
Mining (except oil and gas)	35.2*	11.6	12.5-58.0
Support activities for mining	42.2	5.9	30.6-53.8

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Figure 13. Prevalence of exposure to outdoor work among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: During the past 12 months, did you regularly work outdoors twice a week or more?



* These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

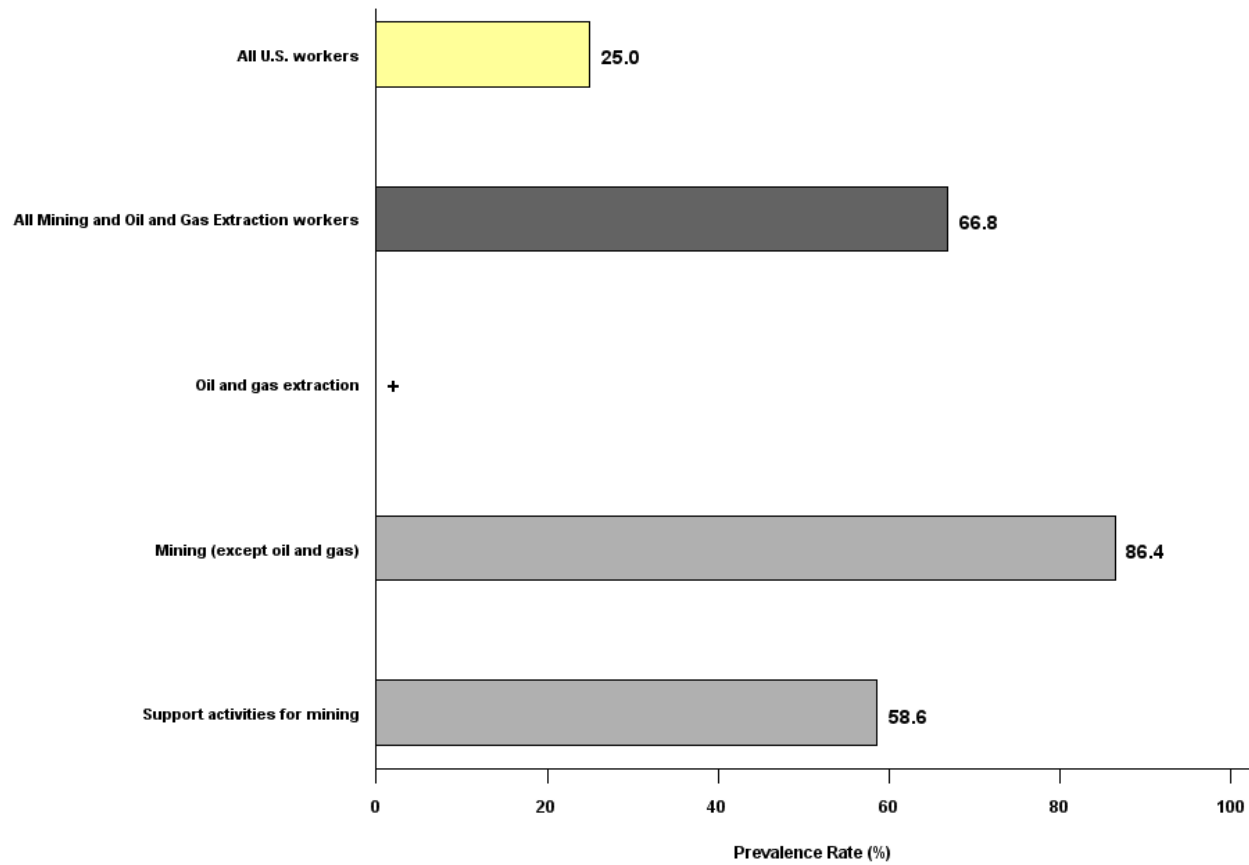
Table 13. Prevalence of exposure to outdoor work among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	24.7	0.4	23.8-25.6
All Mining and Oil and Gas Extraction workers	65.4	6.0	53.6-77.2
Oil and gas extraction	41.1*	19.8	2.2-80.0
Mining (except oil and gas)	61.5	11.9	38.1-84.9
Support activities for mining	71.2	6.2	59.0-83.5

* These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

Figure 14. Prevalence of exposure to vapors, gas, dust, or fumes among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

*NHIS Question: This next question refers to the job you held the longest.
Were you regularly exposed to vapors, gas, dust, or fumes at work twice a week or more?*



+ Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

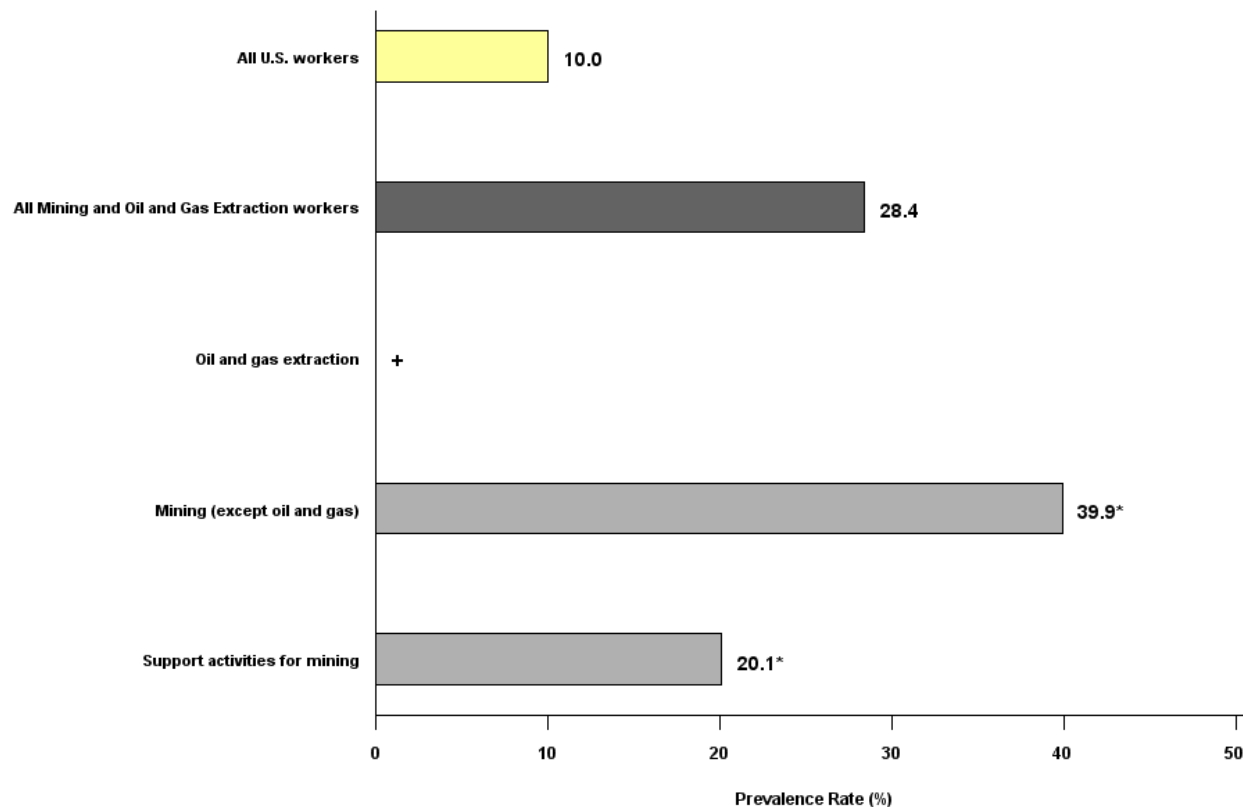
Table 14. Prevalence of exposure to vapors, gas, dust, or fumes among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	25	0.4	24.2-25.8
All Mining and Oil and Gas Extraction workers	66.8	4.6	57.8-75.8
Oil and gas extraction	+	+	+
Mining (except oil and gas)	86.4	6.4	73.8-99.0
Support activities for mining	58.6	6.0	46.8-70.5

+ Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

Figure 15a. Prevalence of exposure to secondhand smoke at work among non-smoking U.S. adults by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: During the past 12 months, were you regularly exposed to tobacco smoke from other people at work twice a week or more?



* These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

+ Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

Table 15a. Prevalence of exposure to secondhand smoke at work among non-smoking U.S. adults by Mining and Oil and Gas Extraction subsector, 2010

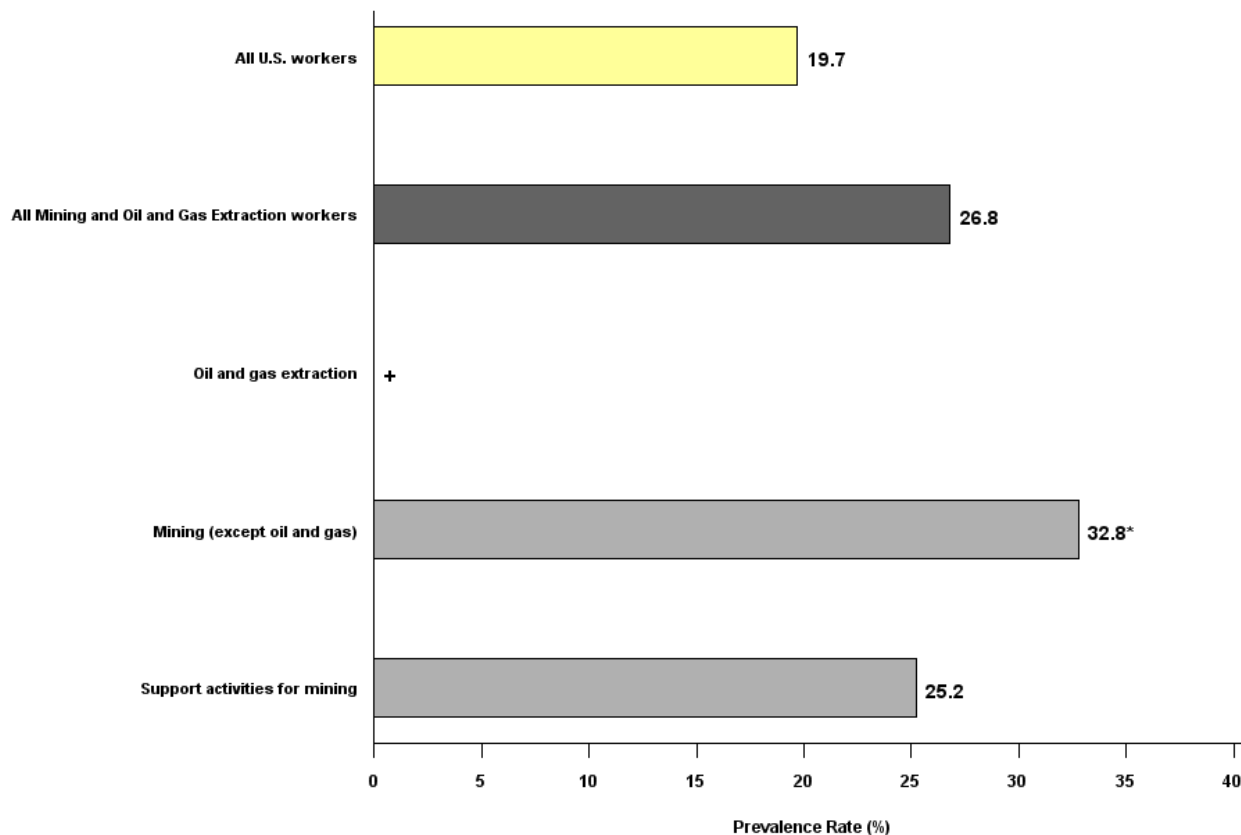
	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	10.0	0.3	9.3-10.6
All Mining and Oil and Gas Extraction workers	28.4	6.2	16.1-40.6
Oil and gas extraction	+	+	+
Mining (except oil and gas)	39.9*	14.4	11.5-68.3
Support activities for mining	20.1*	6.6	7.1-33.2

* These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

+ Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

Figure 15b. Prevalence of smoking among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

NHIS Question: Do you now smoke cigarettes every day, some days or not at all?



* These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

+ Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

Table 15b. Prevalence of smoking among U.S. adults who worked in the past 12 months by Mining and Oil and Gas Extraction subsector, 2010

	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
All U.S. workers	19.7	0.4	18.9-20.4
All Mining and Oil and Gas Extraction workers	26.8	5.5	16.1-37.5
Oil and gas extraction	+	+	+
Mining (except oil and gas)	32.8*	11.5	10.1-55.4
Support activities for mining	25.2	6.6	12.2-38.2

* These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

+ Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.