# Selected Findings for the Manufacturing Sector 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 Manufacturing 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 Manufacturing sector consisted of 1,590 persons, representing approximately 14.6 million workers. This profile summarizes the prevalence of selected health outcomes; work organization and psychosocial factors; and physical and chemical exposures among workers in the Manufacturing sector. All Manufacturing workers are compared to all U.S. workers combined, and comparisons are made among 20 Manufacturing subsectors, although small sample sizes within several of the subsectors limit the reporting of some estimates.

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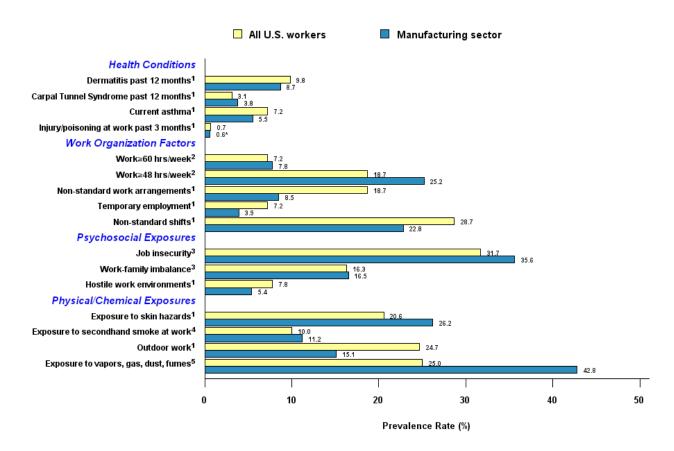
Industry subsector	Industry subsector Census 2007 industry codes		% of U.S. Manufacturing workforce
Food manufacturing	1070, 1080, 1090, 1170, 1180,		
	1190, 1270, 1280	1,939,596	13.3
Beverage and tobacco			
product manufacturing	1370, 1390	250,762	1.7
Textile mills	1470, 1480, 1490	122,877	0.8
Textile product mills	1570, 1590, 1670	209,492	1.4
Apparel manufacturing	1680, 1690, 1770	258,204	1.8
Wood product manufacturing	3770, 3780, 3790, 3870	467,839	3.2
Paper manufacturing	1870, 1880, 1890	394,405	2.7
Printing and related support activities	1990	785,498	5.4
Petroleum and coal products			
manufacturing	2070, 2090	190,876	1.3
Chemical manufacturing	2170, 2180, 2190, 2270, 2280, 2290	1,188,991	8.2
Plastics and rubber products			
manufacturing	2370, 2380, 2390	482,677	3.3
Nonmetallic mineral product			
manufacturing	2470, 2480, 2490, 2570, 2590	331,577	2.3
Primary metal manufacturing	2670, 2680, 2690, 2770, 2780,		
	2990	566,231	3.9
Fabricated metal product	2790, 2870, 2880, 2890, 2970,		
manufacturing	2980	1,173,050	8.1
Machinery manufacturing	3070, 3080, 3090, 3170, 3180,		_
	3190, 3290	1,022,236	7.0
Computer and electronic			
product manufacturing	3360, 3370, 3380, 3390	1,188,847	8.2
Electrical equipment, appliance, and component			
manufacturing	3470, 3490	344,246	2.4
Transportation equipment	3570, 3580, 3590, 3670, 3680,	344,240	2.4
manufacturing	3570, 3580, 3590, 3670, 3680,	2,021,698	13.9
Furniture and related product			
manufacturing	3890	518,886	3.6
Miscellaneous manufacturing	3960, 3970, 3980, 3990	1,097,595	7.5
Total		14,555,583	100

Table B. U.S. Manufacturing sector workers by occupational category, 2010

Occupational category	Census 2010 occupation codes	Estimated Population Represented by Sample	% of U.S. Manufacturing workforce
Management Occupations	0010-0430	1,630,867	11.2
Business and Financial Operations			
Occupations	0500-0950	408,156	2.8
Computer and Mathematical			
Occupations	1005-1240	421,814	2.9
Architecture and Engineering			
Occupations	1300-1560	1,113,045	7.7
Life, Physical, and Social Science			
Occupations	1600-1965	271,733	1.9
Arts, Design, Entertainment,			
Sports and Media Occupations	2600-2960	280,046	1.9
Building and Grounds Cleaning			
and Maintenance Occupations	4200-4250	133,552	0.9
Sales and Related Occupations	4700-4965	491,552	3.4
Office and Administrative Support			
Occupations	5000-5940	1,447,388	10.0
Construction and Extraction			
Occupations	6200-6940	272,033	1.9
Installation, Maintenance, and			
Repair Occupations	7000-7630	649,381	4.5
Production Occupations	7700-8965	6,256,138	43.1
Transportation and Material			
Moving Occupations	9000-9750	979,597	6.8
Other occupations		156,532	1.1
Total*		14,511,834	100

<sup>\*</sup>The total number of Manufacturing workers represented by these occupational groups is slightly less than the total number of Manufacturing workers represented by the full industry sample due to missing values for occupation.

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



<sup>&</sup>lt;sup>1</sup>Among U.S. adults who have worked in the past 12 months.

<sup>&</sup>lt;sup>2</sup>Among U.S. adults who have worked in the past 12 months, who only held 1 job.

<sup>&</sup>lt;sup>3</sup>Among U.S. adults who were employed in the week prior to interview.

 $<sup>^{</sup>f 4}$ Among non-smoking U.S. adults who have worked in the past 12 months.

<sup>&</sup>lt;sup>5</sup>Exposure during longest-held job (all other exposures refer to current or most recent job).

<sup>\*</sup> 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.

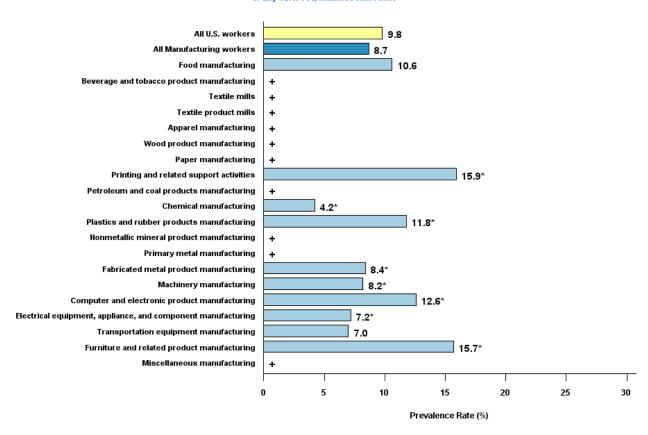
Table 1. Prevalence of selected health conditions; work organization and psychosocial factors; and physical and chemical exposures among U.S. workers (Manufacturing sector vs. All U.S. workers, 2010)

		A	II U.S. workers	3	Ma	nufacturing sec	tor
		Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval	Prevalence (%)	Standard Error of Prevalence	95% Confidence Interval
Health Conditions	Dermatitis in the past 12 months <sup>1</sup>	9.8	0.3	9.2-10.3	8.7	0.8	7.2-10.2
	Carpal tunnel syndrome in the past 12 months <sup>1</sup>						
	Current asthma 1	3.1	0.2	2.8-3.4	3.8	0.5	2.9-4.8
		7.2	0.2	6.7-7.6	5.5	0.7	4.2-6.9
	Injury or poisoning at work in the past 12 months <sup>1</sup>						
· · · ·	2	2.8	0.4	2.0-3.4	2.4*	0.9	0.7-4.1
Work Organization Factors	Work 60 hours a week or more <sup>2</sup>	7.2	0.3	6.7-7.7	7.8	0.9	6.0-9.6
	Work 48 hours a week or more <sup>2</sup>	18.7	0.4	18.0-19.5	25.2	1.5	22.2-28.1
	Non-standard work arrangements <sup>1</sup>	18.7	0.4	18.0-19.4	8.5	0.8	7.0-10.1
	Temporary employment <sup>1</sup>	7.2	0.3	6.7-7.7	3.9	0.5	2.8-5.0
	Non-standard shifts <sup>1</sup>	28.7	0.5	27.8-29.7	22.8	1.2	20.4-25.3
Psychosocial Exposures	Job insecurity <sup>3</sup>	31.7	0.5	30.8-32.6	35.6	1.5	32.7-38.5
	Work-family imbalance <sup>3</sup>	16.3	0.4	15.6-17.1	16.5	1.1	14.4-18.5
	Hostile work environments <sup>1</sup>	7.8	0.3	7.3-8.4	5.4	0.6	4.1-6.6
Physical/Chemical Exposures	Exposure to potential skin hazards at work <sup>1</sup>						
		20.6	0.4	19.8-21.3	26.2	1.2	23.8-28.6
	Exposure to secondhand smoke at work <sup>4</sup>						
		10.0	0.3	9.3-10.6	11.2	1.0	9.2-13.3
	Exposure to outdoor work <sup>1</sup>	24.7	0.4	23.8-25.6	15.1	1.1	12.9-17.3
	Exposure to vapors, gas, dust, or fumes <sup>5</sup>						
		25.0	0.4	24.2-25.8	42.8	1.4	39.9-45.6

- <sup>1</sup> Among U.S. adults who have worked in the past 12 months.
- $^{\rm 2}$  Among U.S. adults who have worked in the past 12 months, who only held 1 job.
- <sup>3</sup> Among U.S. adults who were employed in the week prior to interview.
- <sup>4</sup> Among non-smoking U.S. adults who have worked in the past 12 months.
- $^{\rm 5}$  Exposure 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.

Figure 2. Prevalence of dermatitis in the past 12 months among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010

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



<sup>\*</sup>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.

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

Table 2. Prevalence of dermatitis in the past 12 months among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	9.8	0.3	9.2-10.3
All Manufacturing workers	8.7	0.8	7.2-10.2
Food manufacturing	10.6	2.3	6.1-15.2
Beverage and tobacco product manufacturing	10.0	2.0	0.1 10.2
	+	+	+
Textile mills	+	+	+
Textile product mills	+	+	+
Apparel manufacturing	+	+	+
Wood product manufacturing	+	+	+
Paper manufacturing	+	+	+
Printing and related support activities	15.9*	5.1	5.9-25.9
Petroleum and coal products manufacturing			
	+	+	+
Chemical manufacturing	4.2*	2.0	0.3-8.2
Plastics and rubber products manufacturing			
	11.8*	5.4	1.2-22.4
Nonmetallic mineral product manufacturing			
	+	+	+
Primary metal manufacturing	+	+	+
Fabricated metal product manufacturing			
	8.4*	2.9	2.7-14.2
Machinery manufacturing	8.2*	2.8	2.6-13.7
Computer and electronic product manufacturing			
, and the second	12.6*	3.8	5.1-20.1
Electrical equipment, appliance, and component manufacturing			
-	7.2*	3.4	0.6-13.8
Transportation equipment manufacturing			
Familian and advantage to	7.0	1.6	3.9-10.0
Furniture and related product manufacturing			
Missellana	15.7*	5.8	4.2-27.2
Miscellaneous manufacturing	+	+	+

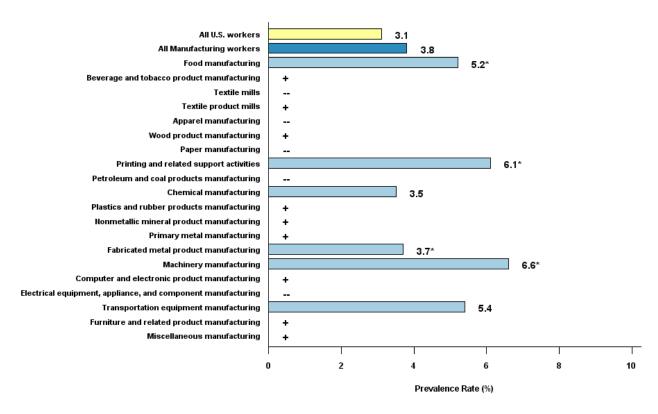
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<sup>+</sup> Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

Figure 3. Prevalence of carpal tunnel syndrome in the past 12 months among U.S. adults who worked in the past 12 months by Manufacturing 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?



<sup>\*</sup> 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.

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

<sup>--</sup> 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 Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	3.1	0.2	2.8-3.4
All Manufacturing workers	3.8	0.5	2.9-4.8
Food manufacturing	5.2*	1.7	1.9-8.5
Beverage and tobacco product			
manufacturing	+	+	+
Textile mills			
Textile product mills	+	+	+
Apparel manufacturing			
Wood product manufacturing	+	+	+
Paper manufacturing			
Printing and related support activities	6.1*	2.8	0.5-11.6
Petroleum and coal products manufacturing			
Chemical manufacturing	3.5	1	1.4-5.5
Plastics and rubber products manufacturing			
	+	+	+
Nonmetallic mineral product manufacturing			
	+	+	+
Primary metal manufacturing	+	+	+
Fabricated metal product manufacturing			
	3.7*	1.6	0.6-6.7
Machinery manufacturing	6.6*	2.6	1.5-11.8
Computer and electronic product			
manufacturing	+	+	+
Electrical equipment, appliance, and			
component manufacturing			
Transportation equipment manufacturing			
	5.4	1.6	2.3-8.5
Furniture and related product manufacturing			
	+	+	+
Miscellaneous manufacturing	+	+	+

<sup>\*</sup> 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.

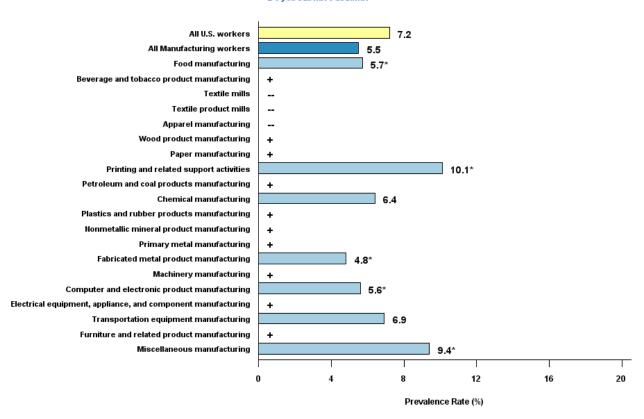
<sup>+</sup> Estimates with a relative standard error >50% are not shown as they do not meet NCHS reliability/precision standards.

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Figure 4. Prevalence of current asthma among U.S. adults who worked in the past 12 months by Manufacturing 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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<sup>--</sup> No cases detected, likely due to insufficient sample size.

Table 4. Prevalence of current asthma among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	7.2	0.2	6.7-7.6
All Manufacturing workers	5.5	0.7	4.2-6.9
Food manufacturing	5.7*	1.8	2.1-9.3
Beverage and tobacco product manufacturing	0.1	1.0	2.1 0.0
	+	+	+
Textile mills			
Textile product mills			
Apparel manufacturing			
Wood product manufacturing	+	+	+
Paper manufacturing	+	+	+
Printing and related support activities	10.1*	3.8	2.6-17.7
Petroleum and coal products manufacturing	10.1	0.0	2.0 17.17
	+	+	+
Chemical manufacturing	6.4	1.9	2.7-10.1
Plastics and rubber products manufacturing	0.1	1.0	2.7 10.1
	+	+	+
Nonmetallic mineral product manufacturing		·	· .
	+	+	+
Primary metal manufacturing	+	+	+
Fabricated metal product manufacturing		-	·
	4.8*	2.3	0.3-9.4
Machinery manufacturing	+	+	+
Computer and electronic product manufacturing		-	·
	5.6*	2.6	0.6-10.6
Electrical equipment, appliance, and component manufacturing			
manuracturing	+	+	+
Transportation equipment manufacturing	·		·
	6.9	1.9	3.3-10.6
Furniture and related product manufacturing			
	+	+	+
Miscellaneous manufacturing	9.4*	3.0	3.5-15.3

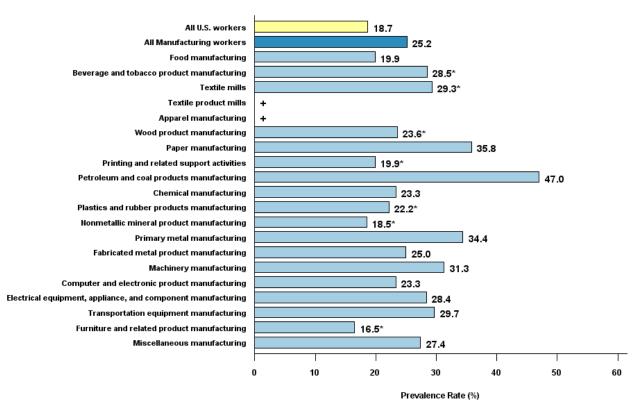
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<sup>--</sup> No cases detected, likely due to insufficient sample size.

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

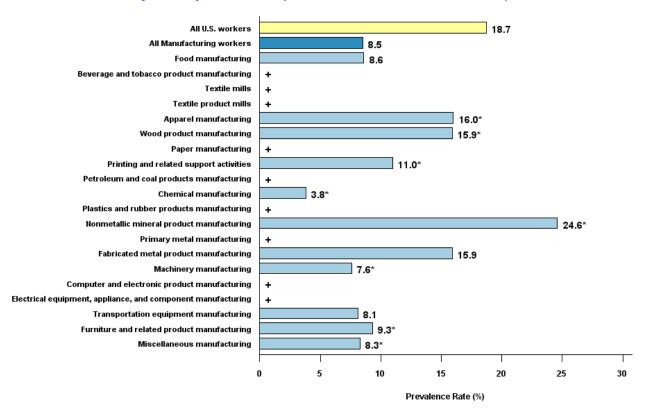
	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	18.7	0.4	18.0-19.5
All Manufacturing workers	25.2	1.5	22.2-28.1
Food manufacturing	19.9	3.6	12.7-27.0
Beverage and tobacco product manufacturing	10.0	0.0	12.7 27.0
	28.5*	10.8	7.1-49.8
Textile mills	29.3*	13.7	2.3-56.2
Textile product mills	+	+	+
Apparel manufacturing	+	+	+
Wood product manufacturing	23.6*	7.7	8.6-38.7
Paper manufacturing	35.8	10.4	15.3-56.3
Printing and related support activities	19.9*	6.0	8.1-31.7
Petroleum and coal products manufacturing	19.9	6.0	6.1-31.7
	47.0	14.0	19.5-74.5
Chemical manufacturing	23.3	4.4	14.6-32.0
Plastics and rubber products manufacturing	23.3	4.4	14.0-32.0
	22.2*	7.2	8.2-36.3
Nonmetallic mineral product manufacturing	22.2	1.2	6.2-30.3
	18.5*	6.9	4.9-32.1
Primary metal manufacturing	34.4	8.3	18.1-50.6
Fabricated metal product manufacturing	34.4	6.3	10.1-30.0
	25.0	5.0	15.3-34.8
Machinery manufacturing	31.3	6.2	19.1-43.6
Computer and electronic product	31.3	0.2	19.1-43.0
manufacturing	23.3	4.5	14.4-32.2
Electrical equipment, appliance, and	23.3	4.5	14.4-32.2
component manufacturing	28.4	8.2	12.3-44.4
Transportation equipment manufacturing	20.4	0.2	12.3-44.4
	29.7	4.3	24 2 20 2
Furniture and related product manufacturing	29.7	4.3	21.2-38.3
	16.5*	5.5	5.6-27.4
Miscellaneous manufacturing			
	27.4	5.0	17.7-37.2

<sup>\*</sup> 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.

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

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

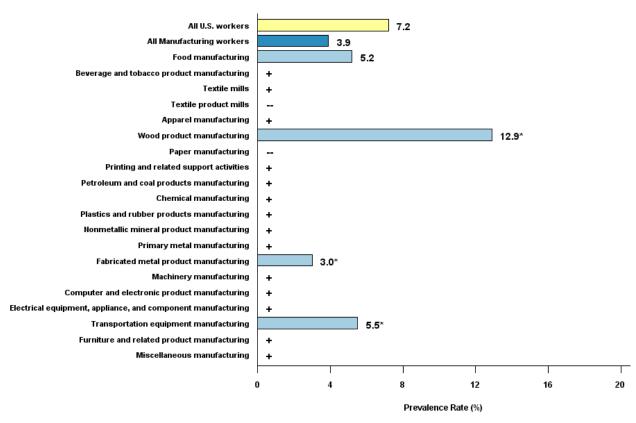
	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	18.7	0.4	18.0-19.4
All Manufacturing workers	8.5	0.8	7.0-10.1
Food manufacturing	8.6	2.1	4.5-12.7
Beverage and tobacco product manufacturing			
	+	+	+
Textile mills	+	+	+
Textile product mills	+	+	+
Apparel manufacturing	16.0*	7.8	0.7-31.2
Wood product manufacturing	15.9*	5.7	4.6-27.2
Paper manufacturing	+	+	+
Printing and related support activities	11.0*	3.7	3.6-18.3
Petroleum and coal products manufacturing		9.1	
	+	+	+
Chemical manufacturing	3.8*	1.6	0.7-6.9
Plastics and rubber products manufacturing			
	+	+	+
Nonmetallic mineral product manufacturing			
	24.6*	8.6	7.7-41.6
Primary metal manufacturing	+	+	+
Fabricated metal product manufacturing			
	15.9	3.8	8.4-23.4
Machinery manufacturing	7.6*	2.8	2.0-13.2
Computer and electronic product manufacturing			
manufacturing	+	+	+
Electrical equipment, appliance, and component manufacturing			
-	+	+	+
Transportation equipment manufacturing			
	8.1	2.3	3.6-12.5
Furniture and related product manufacturing			
	9.3*	4.1	1.3-17.3
Miscellaneous manufacturing	8.3*	3.3	1.8-14.7

 $<sup>^{\</sup>star}$  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.

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

Figure 7. Prevalence of temporary employment among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010





<sup>\*</sup>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.

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

<sup>--</sup> No cases detected, likely due to insufficient sample size.

Table 7. Prevalence of temporary employment among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	7.2	0.3	6.7-7.7
All Manufacturing workers	3.9	0.5	2.8-5.0
Food manufacturing	5.2	1.5	2.3-8.0
Beverage and tobacco product manufacturing	0.2	1.0	2.0 0.0
	+	+	+
Textile mills	+	+	+
Textile product mills	т	т	т
Apparel manufacturing			<del></del>
Wood product manufacturing	+	+	4 0 00 0
Paper manufacturing	12.9*	5.6	1.8-23.9
Printing and related support activities			
Petroleum and coal products manufacturing	+	+	+
Chemical manufacturing	+	+	+
Plastics and rubber products manufacturing	+	+	+
Nonmetallic mineral product manufacturing	+	+	+
Primary metal manufacturing	+	+	+
Fabricated metal product manufacturing	+	+	+
•			
Machinery manufacturing	3.0*	1.4	0.3-5.8
Computer and electronic product	+	+	+
manufacturing			
Electrical equipment, appliance, and	+	+	+
component manufacturing			
Transportation equipment manufacturing	+	+	+
•			
Furniture and related product manufacturing	5.5*	1.9	1.8-9.3
,			
Miscellaneous manufacturing	+	+	+
	+	+	+

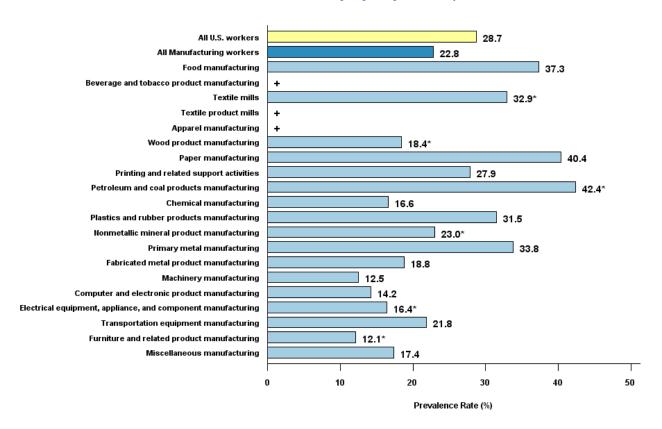
<sup>\*</sup> These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

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

<sup>--</sup> No cases detected, likely due to insufficient sample size.

Figure 8. Prevalence of non-standard shifts among U.S. adults who worked in the past 12 months by Manufacturing 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)



<sup>\*</sup>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.

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

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

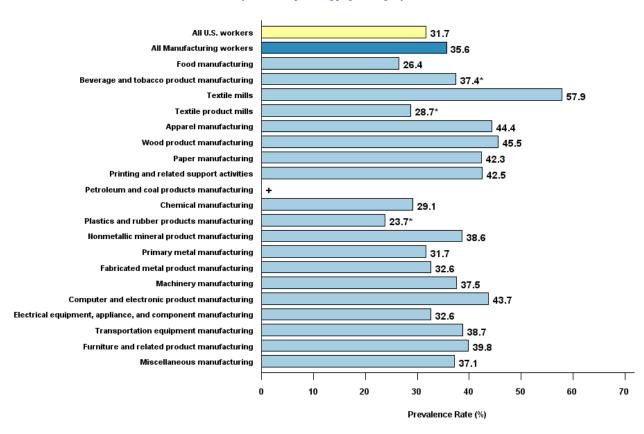
	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	28.7	0.5	27.8-29.7
All Manufacturing workers	22.8	1.2	20.4-25.3
Food manufacturing	37.3	3.5	30.4-44.2
Beverage and tobacco product manufacturing			
	+	+	+
Textile mills	32.9*	12.0	9.3-56.5
Textile product mills	+	+	+
Apparel manufacturing	+	+	+
Wood product manufacturing	18.4*	6.2	6.2-30.5
Paper manufacturing	40.4	10.0	20.7-60.1
Printing and related support activities	27.9	6.2	15.7-40.1
Petroleum and coal products manufacturing	2.10	5.2	
	42.4*	14.0	14.8-70.0
Chemical manufacturing	16.6	3.5	9.7-23.5
Plastics and rubber products manufacturing			
	31.5	7.3	17.2-45.9
Nonmetallic mineral product manufacturing		-	
	23.0*	7.8	7.7-38.3
Primary metal manufacturing	33.8	7.5	19.1-48.6
Fabricated metal product manufacturing			
	18.8	3.6	11.7-25.8
Machinery manufacturing	12.5	3.5	5.6-19.4
Computer and electronic product manufacturing			
manuracturing	14.2	3.8	6.7-21.6
Electrical equipment, appliance, and component manufacturing			
component manufacturing	16.4*	7.6	1.4-31.3
Transportation equipment manufacturing			
	21.8	3.2	15.4-28.1
Furniture and related product manufacturing			
	12.1*	5.0	2.3-21.9
Miscellaneous manufacturing	17.4	4.5	8.6-26.2

 $<sup>^{\</sup>star}$  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.

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

Figure 9. Prevalence of job insecurity among working U.S. adults by Manufacturing subsector, 2010

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



<sup>\*</sup>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.

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

Table 9. Prevalence of job insecurity among working U.S. adults by Manufacturing subsector, 2010

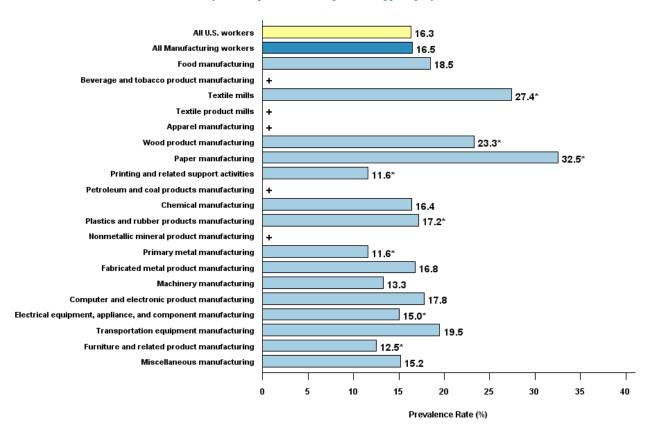
	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	31.7	0.5	30.8-32.6
All Manufacturing workers	35.6	1.5	32.7-38.5
Food manufacturing	26.4	3.5	19.4-33.4
Beverage and tobacco product manufacturing	20.1	0.0	10.1 00.1
	37.4*	13.2	11.5-63.3
Textile mills	57.9	12.6	33.1-82.7
Textile product mills	28.7*	10.7	7.8-49.7
Apparel manufacturing	44.4	11.0	22.7-66.1
Wood product manufacturing	45.5	8.9	28.0-63.1
Paper manufacturing	42.3	9.9	22.8-61.7
Printing and related support activities	42.5	6.3	30.2-54.9
Petroleum and coal products manufacturing	42.5	0.3	30.2-34.9
	+	+	
Chemical manufacturing	29.1	4.1	21.1-37.2
Plastics and rubber products manufacturing	29.1	4.1	21.1-37.2
	23.7*	8.0	7.9-39.5
Nonmetallic mineral product manufacturing	23.1	6.0	7.9-39.3
	38.6	8.6	21.6-55.6
Primary metal manufacturing	31.7	7.4	17.1-46.2
Fabricated metal product manufacturing	31.7	7.4	17.1-40.2
	32.6	5.3	22.2-43.1
Machinery manufacturing	37.5	5.7	26.3-48.6
Computer and electronic product	37.5	5.7	20.3-40.0
manufacturing	43.7	4.9	24.2.52.4
Electrical equipment, appliance, and	43.7	4.8	34.2-53.1
component manufacturing	32.6	7.9	17 0 49 2
Transportation equipment manufacturing	32.0	7.9	17.0-48.2
	38.7	4.2	30.4-46.9
Furniture and related product manufacturing	30.7	4.2	30.4-40.9
	39.8	8.2	23.7-55.9
Miscellaneous manufacturing			
<u> </u>	37.1	5.5	26.2-48.0

 $<sup>^{\</sup>star}$  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.

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

Figure 10. Prevalence of work-family imbalance among working U.S. adults by Manufacturing subsector, 2010

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



<sup>\*</sup>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.

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

Table 10. Prevalence of work-family imbalance among working U.S. adults by Manufacturing subsector, 2010

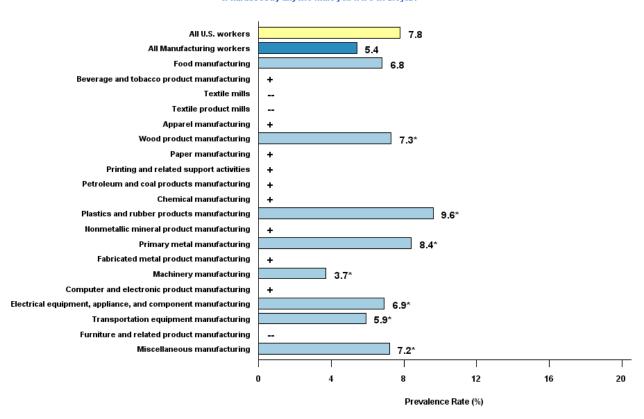
	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	16.3	0.4	15.6-17.1
All Manufacturing workers	16.5	1.1	14.4-18.5
Food manufacturing	18.5	3.1	12.3-24.6
Beverage and tobacco product manufacturing	10.0	0.1	12.0 24.0
	+	+	+
Textile mills	27.4*	11.5	4.9-49.9
Textile product mills	+	+	+.0 +0.0
Apparel manufacturing	+	+	+
Wood product manufacturing	23.3*	8.2	7.1-39.5
Paper manufacturing	32.5*	10.2	12.4-52.7
Printing and related support activities	11.6*	4.1	3.6-19.7
Petroleum and coal products manufacturing	11.0	4.1	3.0-19.7
	+	+	1
Chemical manufacturing	16.4	3.4	9.6-23.2
Plastics and rubber products manufacturing	10.4	0.4	0.0 20.2
	17.2*	6.0	5.4-29.0
Nonmetallic mineral product manufacturing	17.2	0.0	0.4 25.0
	+	+	+
Primary metal manufacturing	11.6*	4.9	2.0-21.2
Fabricated metal product manufacturing	11.0		2.0 21.2
	16.8	3.7	9.5-24.1
Machinery manufacturing	13.3	3.8	5.7-20.8
Computer and electronic product	.5.0	5.0	5 23.0
manufacturing	17.8	4.0	9.9-25.7
Electrical equipment, appliance, and			
component manufacturing	15.0*	7.0	1.2-28.8
Transportation equipment manufacturing			3.9
	19.5	3.6	12.4-26.5
Furniture and related product manufacturing		-	
	12.5*	5.4	1.9-23.2
Miscellaneous manufacturing	15.2	4.2	6.8-23.5

<sup>\*</sup> 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.

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

Figure 11. Prevalence of hostile work environments among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010

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



<sup>\*</sup>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.

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

<sup>--</sup> 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 Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	7.8	0.3	7.3-8.4
All Manufacturing workers	5.4	0.6	4.1-6.6
Food manufacturing	6.8	1.9	3.0-10.6
Beverage and tobacco product manufacturing	0.0	1.0	0.0 10.0
	+	+	+
Textile mills		<u> </u>	<u> </u>
Textile product mills			
Apparel manufacturing	+	+	+
Wood product manufacturing	7.3*	3.6	0.3-14.4
Paper manufacturing	7.5	3.0	0.3-14.4
Printing and related support activities	+	+	+
Petroleum and coal products manufacturing	т	т	т
	+	+	+
Chemical manufacturing	+	+	+
Plastics and rubber products manufacturing	т	т	т
	9.6*	4.0	1.7-17.4
Nonmetallic mineral product manufacturing	9.0	4.0	1.7-17.4
	+	+	+
Primary metal manufacturing	8.4*	4.0	0.6-16.2
Fabricated metal product manufacturing	0.4	4.0	0.0 10.2
	+	+	+
Machinery manufacturing	3.7*	1.7	0.4-7.0
Computer and electronic product	0.7	1.7	0.47.0
manufacturing	+	+	+
Electrical equipment, appliance, and	'	•	<u>'</u>
component manufacturing	6.9*	3.4	0.1-13.6
Transportation equipment manufacturing	5.0	5.7	3.1 13.0
	5.9*	1.9	2.3-9.6
Furniture and related product manufacturing	5.0		2.0 3.0
			<del></del>
Miscellaneous manufacturing	7.2*	3.3	0.7-13.7

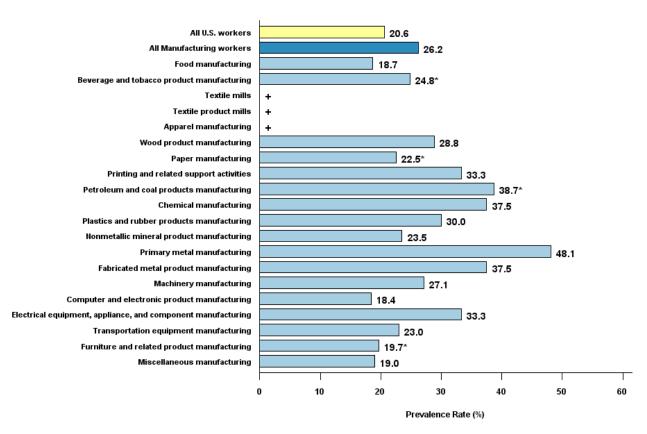
<sup>\*</sup> These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

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

<sup>--</sup> 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 Manufacturing subsector, 2010





<sup>\*</sup>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.

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

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

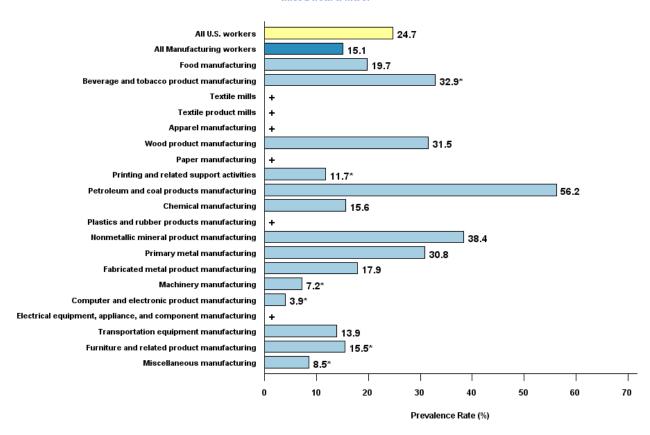
	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	20.6	0.4	19.8-21.3
All Manufacturing workers	26.2	1.2	23.8-28.6
Food manufacturing	18.7	2.8	13.2-24.2
Beverage and tobacco product manufacturing	10.7	2.0	10.2 24.2
	24.8*	11.4	2.4-47.3
Textile mills	+	+	+
Textile product mills	+	+	+
Apparel manufacturing	+	+	+
Wood product manufacturing	28.8	7.4	14.2-43.3
Paper manufacturing	22.5*	7.4	7.2-37.8
Printing and related support activities	33.3	6.1	21.4-45.3
Petroleum and coal products manufacturing	33.3	0.1	21.4-43.3
	38.7*	12.5	14.1-63.4
Chemical manufacturing	37.5	4.6	28.5-46.6
Plastics and rubber products manufacturing	57.5	4.0	20.5 40.0
	30.0	7.2	15.8-44.3
Nonmetallic mineral product manufacturing	30.0	1.2	10.0 44.0
	23.5	6.8	10.2-36.7
Primary metal manufacturing	48.1	7.7	33.0-63.2
Fabricated metal product manufacturing	10.1		00.0 00.2
	37.5	5.3	27.0-48.0
Machinery manufacturing	27.1	4.6	18.2-36.1
Computer and electronic product	2111	0	10.2 00.1
manufacturing	18.4	4.3	10.0-26.8
Electrical equipment, appliance, and	1311		1313 = 310
component manufacturing	33.3	8.1	17.4-49.2
Transportation equipment manufacturing	33.0	5.1	
	23.0	3.5	16.1-29.9
Furniture and related product manufacturing			
	19.7*	6.0	8.0-31.4
Miscellaneous manufacturing	19.0	4.5	10.1-27.9

<sup>\*</sup> 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.

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

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

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



<sup>\*</sup>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.

<sup>+</sup> Estimates with a relative standard error >50% are not shown 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 Manufacturing subsector, 2010

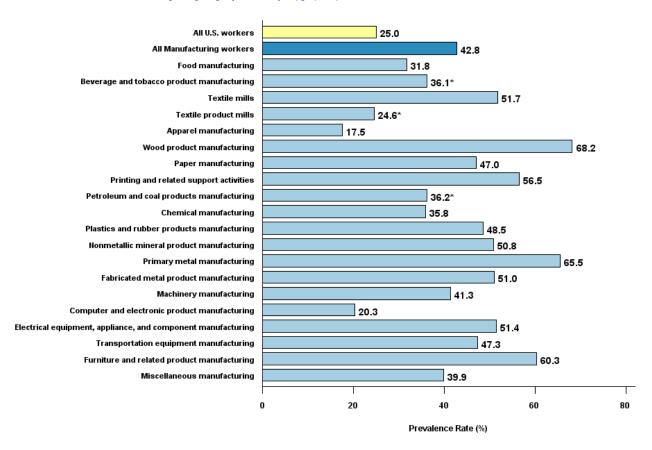
	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	24.7	0.4	23.8-25.6
All Manufacturing workers	15.1	1.1	12.9-17.3
Food manufacturing	19.7	3.3	13.1-26.2
Beverage and tobacco product manufacturing	10.7	0.0	10.1 20.2
	32.9*	11.3	10.7-55.1
Textile mills	+	+	+
Textile product mills	+	+	+
Apparel manufacturing	+	+	+
Wood product manufacturing	31.5	8.7	14.5-48.6
Paper manufacturing	+	+	+
Printing and related support activities	11.7*	4.1	3.5-19.8
Petroleum and coal products manufacturing			0.0 .0.0
	56.2	14.4	27.8-84.6
Chemical manufacturing	15.6	3.5	8.7-22.5
Plastics and rubber products manufacturing			
	+	+	+
Nonmetallic mineral product manufacturing			
	38.4	8.8	21.0-55.8
Primary metal manufacturing	30.8	7.3	16.4-45.2
Fabricated metal product manufacturing			
	17.9	4.1	9.8-25.9
Machinery manufacturing	7.2*	2.6	2.2-12.3
Computer and electronic product manufacturing			
	3.9*	1.8	0.3-7.5
Electrical equipment, appliance, and component manufacturing			
-	+	+	+
Transportation equipment manufacturing			
	13.9	2.6	8.7-19.1
Furniture and related product manufacturing			
	15.5*	5.3	5.1-26.0
Miscellaneous manufacturing	8.5*	2.9	2.8-14.3

<sup>\*</sup> 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.

<sup>+</sup> Estimates with a relative standard error >50% are not shown 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 Manufacturing 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?



<sup>\*</sup> 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.

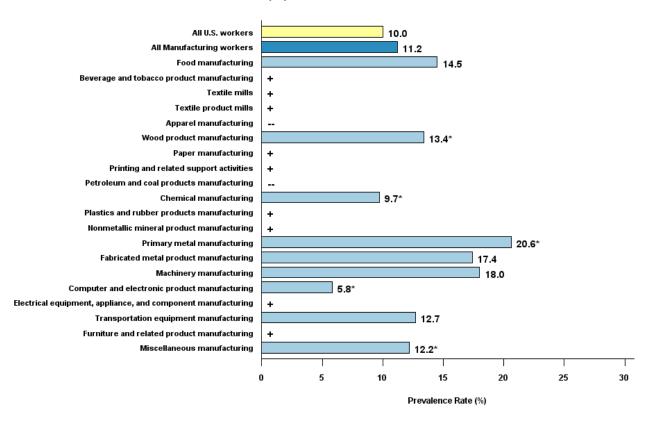
Table 14. Prevalence of exposure to vapors, gas, dust, or fumes among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	25.0	0.4	24.2-25.8
All Manufacturing workers	42.8	1.4	39.9-45.6
Food manufacturing	31.8	3.6	24.7-39.0
Beverage and tobacco product manufacturing	00	0.0	2 00.0
	36.1*	11.8	12.8-59.4
Textile mills	51.7	12.3	27.6-75.8
Textile product mills	24.6*	8.2	8.5-40.7
Apparel manufacturing	17.5	5.2	7.3-27.7
Wood product manufacturing	68.2	7.9	52.6-83.7
Paper manufacturing	47.0	9.1	29.1-65.0
Printing and related support activities	56.5	5.6	45.4-67.6
Petroleum and coal products manufacturing	00.0	0.0	10.1 01.0
	36.2*	15.9	5.0-67.4
Chemical manufacturing	35.8	4.4	27.2-44.5
Plastics and rubber products manufacturing	30.0		
	48.5	7.7	33.4-63.7
Nonmetallic mineral product manufacturing	10.0		00.1 00.1
	50.8	8.5	34.0-67.7
Primary metal manufacturing	65.5	6.9	51.8-79.1
Fabricated metal product manufacturing			
	51.0	5.0	41.1-60.9
Machinery manufacturing	41.3	5.5	30.6-52.0
Computer and electronic product		0.0	33.3 02.0
manufacturing	20.3	3.6	13.3-27.4
Electrical equipment, appliance, and component manufacturing			
Component manufacturing	51.4	7.7	36.3-66.5
Transportation equipment manufacturing			22.2 23.0
	47.3	3.9	39.6-55.0
Furniture and related product manufacturing			
	60.3	7.4	45.8-74.8
Miscellaneous manufacturing	39.9	5.0	30.1-49.7

 $<sup>^{\</sup>star}$  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 15a. Prevalence of exposure to secondhand smoke at work among non-smoking U.S. adults by Manufacturing 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?



<sup>\*</sup>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.

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

<sup>--</sup> No cases detected, likely due to insufficient sample size.

Table 15a. Prevalence of exposure to secondhand smoke at work among non-smoking U.S. adults by Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	10.0	0.3	9.3-10.6
All Manufacturing workers	11.2	1.0	9.2-13.3
Food manufacturing	14.5	3.1	8.4-20.5
Beverage and tobacco product manufacturing	1 1.0	0.1	0.1 20.0
	+	+	+
Textile mills	+	+	+
Textile product mills	+	+	+
Apparel manufacturing			
Wood product manufacturing	13.4*	5.7	2.2-24.5
Paper manufacturing	+	+	+
Printing and related support activities	+	+	+
Petroleum and coal products manufacturing			
			<del></del>
Chemical manufacturing	9.7*	3.6	2.7-16.8
Plastics and rubber products manufacturing			
	+	+	+
Nonmetallic mineral product manufacturing	-	-	•
	+	+	+
Primary metal manufacturing	20.6*	6.8	7.3-34.0
Fabricated metal product manufacturing			
	17.4	4.9	7.8-27.0
Machinery manufacturing	18.0	4.7	8.9-27.2
Computer and electronic product manufacturing			
manufacturing	5.8*	2.2	1.4-10.1
Electrical equipment, appliance, and component manufacturing			
- Component managed mg	+	+	+
Transportation equipment manufacturing			
	12.7	3.2	6.4-19.1
Furniture and related product manufacturing			
	+	+	+
Miscellaneous manufacturing	12.2*	3.7	4.9-19.6

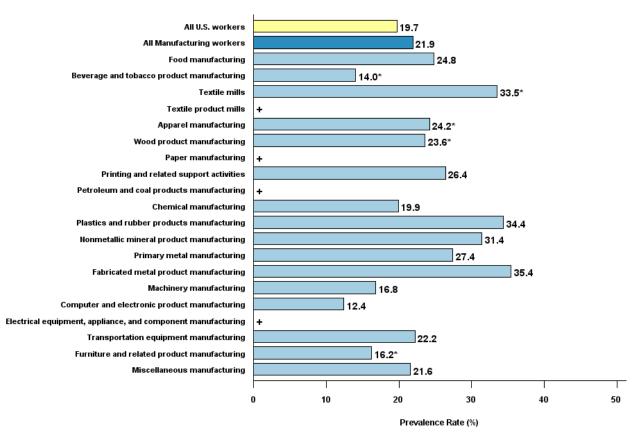
<sup>\*</sup> These estimates have a relative standard error >30% and <50% and should be used with caution as they do not meet NCHS reliability/precision standards.

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

<sup>--</sup> No cases detected, likely due to insufficient sample size.

Figure 15b. Prevalence of smoking among U.S. adults who worked in the past 12 months by Manufacturing subsector, 2010

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



<sup>\*</sup>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.

<sup>+</sup> 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 Manufacturing subsector, 2010

	Prevalence (%)	Standard Error	95% Confidence
		of Prevalence	Interval
All U.S. workers	19.7	0.4	18.9-20.4
All Manufacturing workers	21.9	1.1	19.6-24.1
Food manufacturing	24.8	3.6	17.7-31.9
Beverage and tobacco product manufacturing	24.0	0.0	17.7-01.0
	14.0*	7.0	0.3-27.7
Textile mills	33.5*	12.5	8.8-58.2
Textile product mills	+	+	+
Apparel manufacturing	24.2*	8.7	7.1-41.2
Wood product manufacturing	23.6*	7.8	8.2-38.9
Paper manufacturing	+	+	0.2 30.9
Printing and related support activities	26.4	5.7	15.3-37.5
Petroleum and coal products manufacturing	20.4	0.7	10.5 07.5
	+	+	+
Chemical manufacturing	19.9	3.9	12.2-27.6
Plastics and rubber products manufacturing	10.0	0.0	12.2 21.0
	34.4	7.7	19.3-49.5
Nonmetallic mineral product manufacturing	9		
	31.4	8.8	14.0-48.7
Primary metal manufacturing	27.4	6.9	13.8-40.9
Fabricated metal product manufacturing			
	35.4	5.1	25.4-45.4
Machinery manufacturing	16.8	3.6	9.7-24.0
Computer and electronic product manufacturing			
, and the second	12.4	3.2	6.1-18.7
Electrical equipment, appliance, and component manufacturing			
- Component manufacturing	+	+	+
Transportation equipment manufacturing			
	22.2	3.5	15.4-29.1
Furniture and related product manufacturing			
	16.2*	4.9	6.5-25.9
Miscellaneous manufacturing	21.6	4.7	12.4-30.9

<sup>\*</sup> 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.

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