

Wyoming Growing and Declining Industries Report

Third Quarter 2021

Prepared by: Michael Moore, Research Supervisor
Research & Planning, Wyoming Department of Workforce Services

Published February 10, 2022



Wyoming Growing and Declining Industries Report, 2021Q3

by: Michael Moore, Research Supervisor

A *growing* or *declining* industry is defined as an industry's employment level increasing or decreasing for two quarters by 5% or more over the year. For example, all industries that grew or declined in employment by at least 5% from second quarter 2020 to second quarter 2021 (2020Q2 to 2021Q2) and subsequently from third quarter 2020 to third quarter 2021 (2020Q3 to 2021Q3) were included in the respective tables in this report.

Industries are defined by the North American Industry Classification System (NAICS). For this research, growing and declining industries are determined at the three-digit subsector level. For more information on NAICS, please see <https://www.census.gov/naics/>.

The database used to generate this information was the Quarterly Census of Employment and Wages (QCEW) file, which has roughly a half-year time lag from the distribution of this report. Growing and declining industry information is updated very quarter when new QCEW data become available. Only subsectors with employment sizes of 100 or more are included in these lists. Consequently, while employment in other industries may meet the growth criteria, that growth is taking place in industries with employment of less than 100.

For example, on the growing industries table (see Table 1, pages 5-7), the average monthly employment for clothing & clothing accessories stores (NAICS 448) grew by 55.2% (443 jobs) over the year in 2021Q2 and 14.4% (170 jobs) in 2021Q3,

Growing and Declining Industries

Historical growing and declining industry data for Wyoming are now available online at <https://doe.state.wy.us/LMI/industries.htm>.

thus qualifying as a growing industry for 2021Q3. The average growth rate for 2021Q2 and 2021Q3 for NAICS 448 was 34.8%. Overall Wyoming had 25 growing industries in 2021Q3, which accounted for 29.8% of all industries and 24.3% of the state's total employment (see Table 3 and Figure 2, page 9). Other examples of growing industries included performing arts & spectator sports (45.1%), accommodation (34.0%), computer & electronic product manufacturing (31.8%), and air transportation (27.1%), among others.

The declining industry table (see Table 2, page 8) reads the same way, except with negative changes, and therefore, declining industries. There were seven declining industries in 2021Q3, which made up 8.3% of all industries and 4.6% of the state's total employment. Declining industries included oil & gas extraction (-19.1% average change), petroleum & coal products manufacturing (-12.6%), and nursing & residential care facilities (-9.6%), among others.

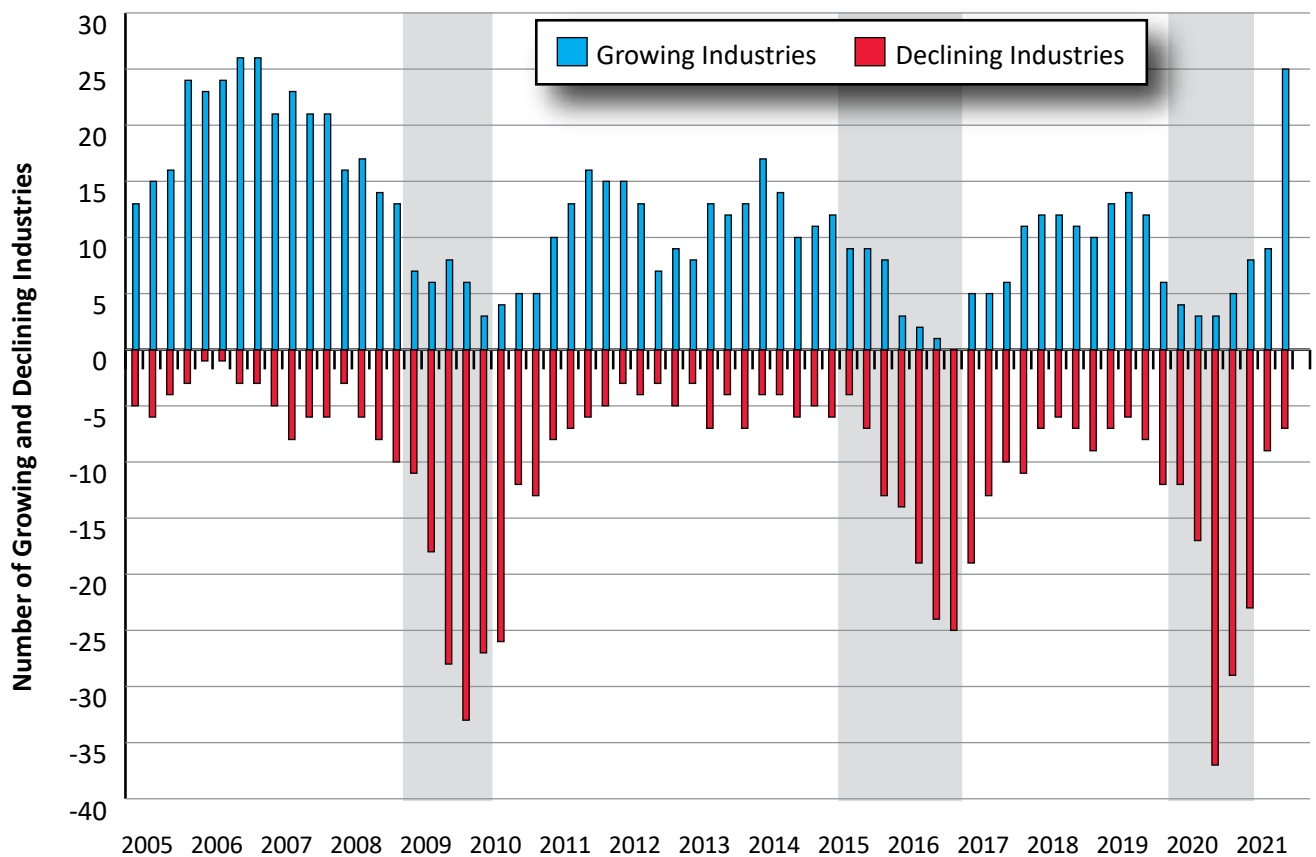
The *average weekly wage* is calculated by dividing the total wage for a particular subsector by the total number of jobs and the number of weeks in the observed quarter. In 2021Q3, the average weekly wage was \$638 for growing industries and

\$1,217 for declining industries (see Table 3 and Figure 3, page 9). Overall, the state's average weekly wage was \$995.

During periods of economic expansion, the number of growing industries is much greater than the number of declining industries (see Figure 1). For example, the number of growing industries in Wyoming peaked at 26 in 2006Q3 and 2006Q4, compared to three and five declining industries, respectively.

But during economic downturns, there are far more declining industries than

growing industries. R&P has defined an *economic downturn* as a period of at least two consecutive quarters of over-the-year decrease in average monthly employment and total wages based on data from the QCEW. Over the last 20 years, Wyoming has experienced three periods of economic downturn: 2009Q1-2010Q1, 2015Q2-2016Q4, and 2020Q2-2021Q1. During the most recent economic downturn, which was driven by the COVID-19 pandemic and declining energy prices, Wyoming had 37 declining industries in 2020Q3 compared to just three growing industries.



Shaded areas indicate periods of economic downturn: 2009Q1-2010Q1, 2015Q2-2016Q4, and 2020Q2-2021Q1. Source: Growing and Declining Quarterly Industry Reports, based on data from the Quarterly Census of Employment and Wages. Prepared by M. Moore, Research & Planning, WY DWS, 2/9/22.

Figure 1: Number of Growing and Declining Industries in Wyoming by Year and Quarter, 2005Q1-2021Q3

Table 1: Growing Industries Report for Wyoming, Third Quarter 2021

Subsector ^a (3-Digit NAICS ^b)	Sector (2-Digit NAICS)	Employment (Current Quarter)				Employment (Prior Quarter)				Growing Industries	
		2021Q3	2020Q3	Over-the-Year Change		2021Q2	2020Q2	Over-the-Year Change		Avg. % Change ^c	Avg. Weekly Wage ^d
				N	%			N	%		
Food Manufacturing (311)	Manufacturing (31-33)	814	652	162	24.8	722	521	201	38.6	31.7	\$674
Beverage & Tobacco Product Manufacturing (312)	Manufacturing (31-33)	561	501	60	12.0	502	452	50	11.1	11.5	\$742
Textile Product Mills (314)	Manufacturing (31-33)	187	167	20	12.0	178	159	19	11.9	12.0	\$747
Plastics & Rubber Products Manufacturing (326)	Manufacturing (31-33)	353	294	59	20.1	356	307	49	16.0	18.0	\$934
Primary Metal Manufacturing (331)	Manufacturing (31-33)	118	105	13	12.4	114	105	9	8.6	10.5	\$1,397
Machinery Manufacturing (333)	Manufacturing (31-33)	630	593	37	6.2	627	570	57	10.0	8.1	\$1,150
Computer & Electronic Product Mfg. (334)	Manufacturing (31-33)	308	198	110	55.6	267	247	20	8.1	31.8	\$1,064
Miscellaneous Manufacturing (339)	Manufacturing (31-33)	160	126	34	27.0	145	124	21	16.9	22.0	\$735
Furniture & Home Furnishings Stores (442)	Retail Trade (44-45)	693	651	42	6.5	674	600	74	12.3	9.4	\$796
Clothing & Clothing Accessories Stores (448)	Retail Trade (44-45)	1,351	1,181	170	14.4	1,246	803	443	55.2	34.8	\$495

^aIncludes both public and privately owned firms.

^bNorth American Industry Classification System.

^cThe percentage for average change is the employment-weighted average percentage change of the current and prior quarters (employment change current quarter + employment change prior quarter) divided by the employment for the current and prior quarters (employment current quarter + employment prior quarter).

^dThe average weekly wage is calculated by dividing the total wage for the industry group by the total number of jobs for the industry group and the number of weeks in the observed quarter. Please be aware that average weekly wages at the industry group level are susceptible to wage bias due to sample size, occupational distributions, seasonal pay and bonuses, and keying error.

The average weekly wage for all growing industries in 2021Q3 was \$638.

Source: Quarterly Census of Employment and Wages.

Prepared by M. Moore, Research & Planning, WY DWS, 2/9/22.

(Table continued on page 6)

(Text continued from page 5)

Table 1: Growing Industries Report for Wyoming, Third Quarter 2021

Subsector ^a (3-Digit NAICS ^b)	Sector (2-Digit NAICS)	Employment (Current Quarter)				Employment (Prior Quarter)				Growing Industries	
		2021Q3	2020Q3	Over-the-Year Change		2021Q2	2020Q2	Over-the-Year Change		Avg. % Change ^c	Avg. Weekly Wage ^d
Sporting Goods, Hobby, Book & Music Stores (451)	Retail Trade (44-45)	1,532	1,422	110	7.7	1,476	1,139	337	29.6	18.7	\$423
Miscellaneous Store Retailers (453)	Retail Trade (44-45)	1,571	1,442	129	8.9	1,506	1,312	194	14.8	11.9	\$567
Air Transportation (481)	Transportation & Warehousing (48-49)	370	305	65	21.3	371	279	92	33.0	27.1	\$1,143
Pipeline Transportation (486)	Transportation & Warehousing (48-49)	843	759	84	11.1	839	781	58	7.4	9.2	\$1,872
Couriers & Messengers (492)	Transportation & Warehousing (48-49)	1,261	1,161	100	8.6	1,234	1,102	132	12.0	10.3	\$944
Warehousing & Storage (493)	Transportation & Warehousing (48-49)	2,085	1,879	206	11.0	2,092	1,925	167	8.7	9.8	\$892
Motion Picture & Sound Recording Industries (512)	Information (51)	367	313	54	17.3	310	234	76	32.5	24.9	\$429
Isps, Search Portals, & Data Processing (518)	Information (51)	161	148	13	8.8	162	138	24	17.4	13.1	\$1,871
Management of Companies & Enterprises (551)	Management of Companies & Enterprises (55)	877	738	139	18.8	832	710	122	17.2	18.0	\$1,966
Administrative & Support Services (561)	Administrative & Waste Services (56)	8,739	7,985	754	9.4	8,363	7,395	968	13.1	11.3	\$784

^aIncludes both public and privately owned firms.^bNorth American Industry Classification System.^cThe percentage for average change is the employment-weighted average percentage change of the current and prior quarters (employment change current quarter + employment change prior quarter) divided by the employment for the current and prior quarters (employment current quarter + employment prior quarter).^dThe average weekly wage is calculated by dividing the total wage for the industry group by the total number of jobs for the industry group and the number of weeks in the observed quarter. Please be aware that average weekly wages at the industry group level are susceptible to wage bias due to sample size, occupational distributions, seasonal pay and bonuses, and keying error.

The average weekly wage for all growing industries in 2021Q3 was \$638.

Source: Quarterly Census of Employment and Wages.

Prepared by M. Moore, Research & Planning, WY DWS, 2/9/22.

(Table continued on page 7)

(Text continued from page 6)

Table 1: Growing Industries Report for Wyoming, Third Quarter 2021

Subsector ^a (3-Digit NAICS ^b)	Sector (2-Digit NAICS)	Employment (Current Quarter)				Employment (Prior Quarter)				Growing Industries	
		2021Q3	2020Q3	Over-the-Year Change		2021Q2	2020Q2	Over-the-Year Change		Avg. % Change ^c	Avg. Weekly Wage ^d
				N	%			N	%		
Performing Arts & Spectator Sports (711)	Arts, Entertainment, & Recreation (71)	631	556	75	13.5	544	308	236	76.6	45.1	\$483
Amusements, Gambling, & Recreation (713)	Arts, Entertainment, & Recreation (71)	3,530	3,140	390	12.4	3,028	2,157	871	40.4	26.4	\$511
Accom- modation (721)	Accom- modation & Food Services (72)	14,337	11,610	2,727	23.5	11,616	8,040	3,576	44.5	34.0	\$640
Food Services & Drinking Places (722)	Accom- modation & Food Services (72)	22,366	20,916	1,450	6.9	21,200	16,640	4,560	27.4	17.2	\$431
Membership Associations & Organizations (813)	Other Services, Except Public Administration (81)	1,941	1,801	140	7.8	1,861	1,616	245	15.2	11.5	\$729
Total	Total	65,778	58,635	7,143	12.2	60,258	47,655	12,603	26.4	19.3	\$638

^aIncludes both public and privately owned firms.^bNorth American Industry Classification System.^cThe percentage for average change is the employment-weighted average percentage change of the current and prior quarters (employment change current quarter + employment change prior quarter) divided by the employment for the current and prior quarters (employment current quarter + employment prior quarter).^dThe average weekly wage is calculated by dividing the total wage for the industry group by the total number of jobs for the industry group and the number of weeks in the observed quarter. Please be aware that average weekly wages at the industry group level are susceptible to wage bias due to sample size, occupational distributions, seasonal pay and bonuses, and keying error.

The average weekly wage for all growing industries in 2021Q3 was \$638.

Source: Quarterly Census of Employment and Wages.

Prepared by M. Moore, Research & Planning, WY DWS, 2/9/22.

Table 2: Declining Industries Report for Wyoming, Third Quarter 2021

Subsector ^a (3-Digit NAICS ^b)	Sector (2-Digit NAICS)	Employment (Current Quarter)				Employment (Prior Quarter)				Declining Industries	
		2021Q3	2020Q3	Over-the-Year Change		2021Q2	2020Q2	Over-the-Year Change		Avg. % Change ^c	Avg. Weekly Wage ^d
Crop Production (111)	Agriculture, Forestry, Fishing & Hunting (11)	625	669	-44	-6.6	635	688	-53	-7.7	-7.1	\$623
Agriculture & Forestry Support Activities (115)	Agriculture, Forestry, Fishing & Hunting (11)	333	355	-22	-6.2	288	304	-16	-5.3	-5.7	\$885
Oil & Gas Extraction (211)	Mining, Including Oil & Gas (21)	2,222	2,711	-489	-18.0	2,206	2,762	-556	-20.1	-19.1	\$2,263
Petroleum & Coal Products Manufacturing (324)	Manufacturing (31-33)	1,136	1,298	-162	-12.5	1,147	1,314	-167	-12.7	-12.6	\$2,220
Broadcasting, Except Internet (515)	Information (51)	297	319	-22	-6.9	315	334	-19	-5.7	-6.3	\$773
Nursing & Residential Care Facilities (623)	Health Care & Social Assistance (62)	4,609	5,166	-557	-10.8	4,731	5,169	-438	-8.5	-9.6	\$736
Administration of Economic Programs (926)	Public Administration (92)	3,177	3,685	-508	-13.8	3,076	3,348	-272	-8.1	-11.0	\$1,019
Total	Total	12,395	14,201	-1,806	-12.7	12,396	13,917	-1,521	-10.9	-11.8	\$1,217

^aIncludes both public and privately owned firms.

^bNorth American Industry Classification System.

^cThe percentage for average change is the employment-weighted average percentage change of the current and prior quarters (employment change current quarter + employment change prior quarter) divided by the employment for the current and prior quarters (employment current quarter + employment prior quarter).

^dThe average weekly wage is calculated by dividing the total wage for the industry group by the total number of jobs for the industry group and the number of weeks in the observed quarter. Please be aware that average weekly wages at the industry group level are susceptible to wage bias due to sample size, occupational distributions, seasonal pay and bonuses, and keying error.

The average weekly wage for all declining industries in 2021Q3 was \$1,217.

Source: Quarterly Census of Employment and Wages.

Prepared by M. Moore, Research & Planning, WY DWS, 2/9/22.

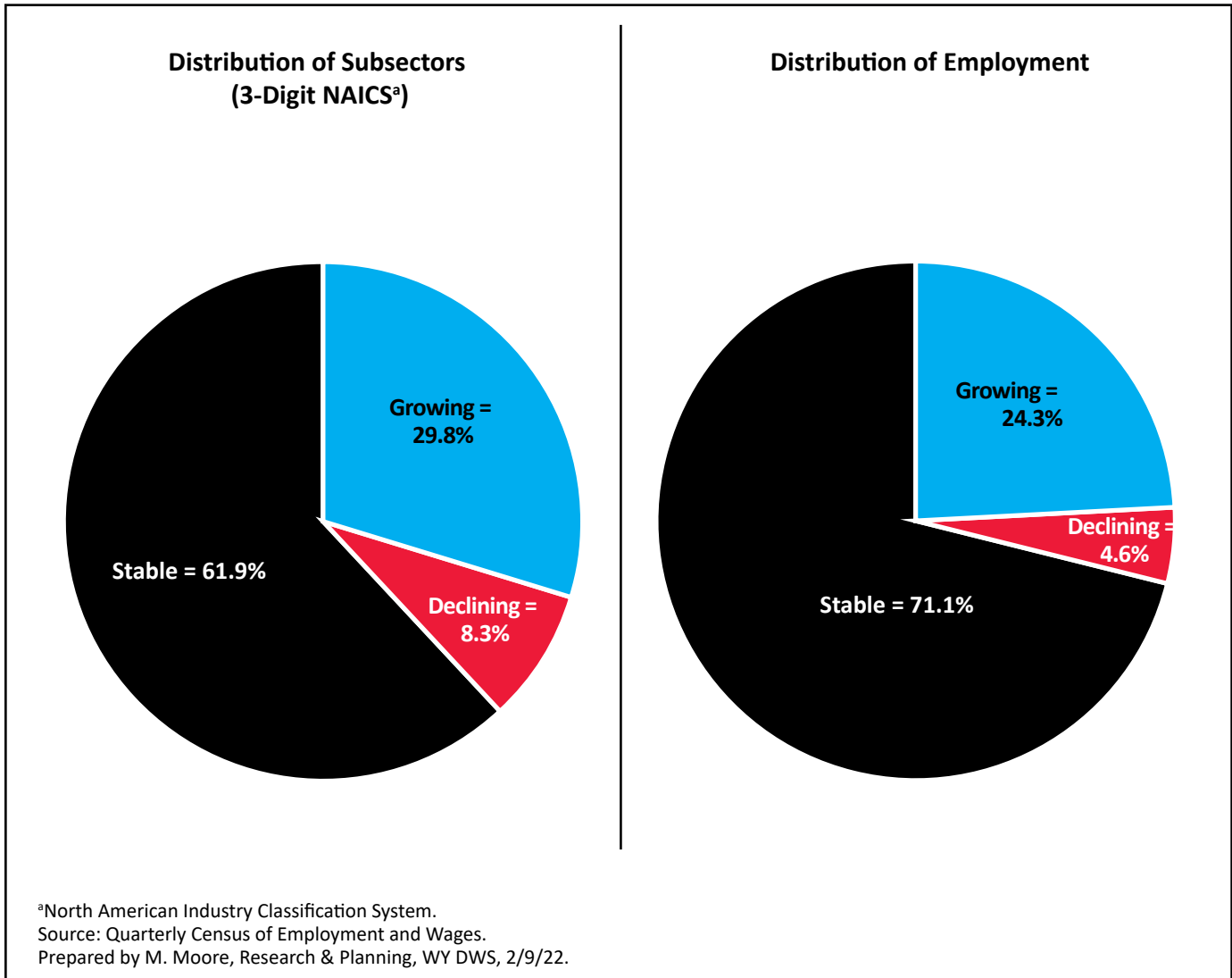


Figure 2: Distribution of Growing and Declining Industries (NAICS 3-Digit Subsector) in Wyoming, 2021Q3

Table 3: Distribution of Sectors and Employment by Growing/Declining Status in Wyoming, 2021Q3

Status	Subsectors (3-Digit NAICS)		Employment		Average Weekly Wage
	N	%	N	%	
Growing	25	29.8	65,786	24.3	\$638
Declining	7	8.3	12,399	4.6	\$1,217
Stable	52	61.9	192,631	71.1	\$1,103
Total	84	100.0	270,816	100.0	\$995

Source: Quarterly Census of Employment and Wages.
 Prepared by M. Moore, Research & Planning, WY DWS, 2/9/22.

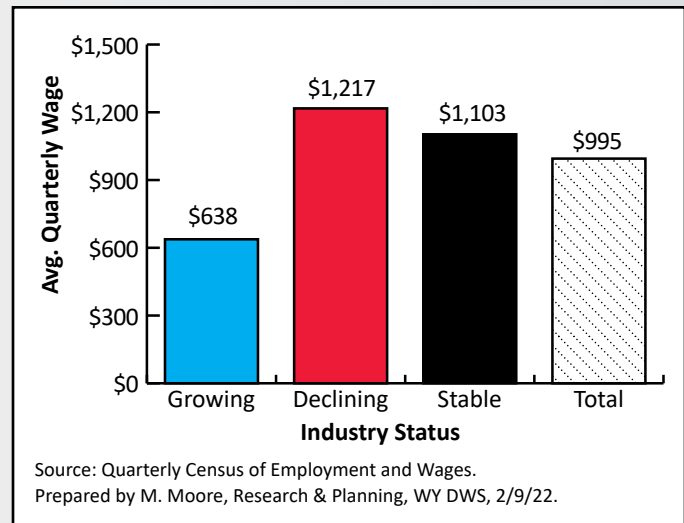


Figure 3: Average Weekly Wage of Growing and Declining Industries in Wyoming, 2021Q3

This publication was produced by the Research & Planning section of the Wyoming Department of Workforce Services.

**Research & Planning
P.O. Box 2760
Casper, WY 82602
Phone: (307) 473-3807
Fax: (307) 473-3834
Website: <https://doe.state.wy.us/LMI>
Email: dws-researchplanning@wyo.gov**

Material contained in this publication is in the public domain
and may be reproduced without special permission provided that source credit is given to:

Wyoming Growing and Declining Industries Report, Third Quarter 2021, Wyoming Department of Workforce Services, Research & Planning

This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the recipient and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This product is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.