



# **ECONOMIC FORECAST**

## Calendar Year Summary Tables

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Final  
***November 14, 2018***

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Table A1.1  
**U.S. Economic Forecast Summary**  
Forecast 2018 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
<b>Real National Income Accounts (Billions of Chained 2012 Dollars)</b>								
Real Gross Domestic Product	17,659.2	18,050.7	18,574.2	19,060.3	19,403.4	19,752.7	20,128.0	20,550.6
% Ch	1.6	2.2	2.9	2.6	1.8	1.8	1.9	2.1
Real Consumption	12,248.2	12,558.7	12,892.2	13,227.7	13,479.2	13,749.1	14,038.1	14,346.8
% Ch	2.7	2.5	2.7	2.6	1.9	2.0	2.1	2.2
Real Nonresidential Fixed Investment	2,411.2	2,538.1	2,711.7	2,841.8	2,951.6	3,053.3	3,153.0	3,255.0
% Ch	0.5	5.3	6.8	4.8	3.9	3.4	3.3	3.2
Real Residential Fixed Investment	591.3	611.1	609.7	612.8	643.4	659.9	671.9	681.4
% Ch	6.5	3.3	-0.2	0.5	5.0	2.6	1.8	1.4
Real Personal Income	15,469.7	15,866.8	16,243.9	16,638.9	17,052.8	17,430.3	17,819.0	18,248.9
% Ch	1.5	2.6	2.4	2.4	2.5	2.2	2.2	2.4
Real Per Capita Income (\$/Person)	47,752	48,630	49,434	50,270	51,158	51,926	52,719	53,626
% Ch	0.8	1.8	1.7	1.7	1.8	1.5	1.5	1.7
<b>Price and Wage Indexes</b>								
PCE Price Index (2012=100)	104.2	106.1	108.3	110.3	112.4	114.7	117.0	119.4
% Ch	1.1	1.8	2.1	1.9	1.9	2.1	2.0	2.0
U.S. Consumer Price Index (1982-84=1.0)	2.400	2.451	2.511	2.559	2.611	2.668	2.725	2.784
% Ch	1.3	2.1	2.4	1.9	2.0	2.2	2.2	2.1
Employment Cost Index (Dec. 2005=1.0)	1.262	1.295	1.334	1.377	1.422	1.470	1.521	1.576
% Ch	2.4	2.6	3.0	3.2	3.2	3.3	3.5	3.6
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	18,707.2	19,485.4	20,498.2	21,475.8	22,370.7	23,299.1	24,290.2	25,360.7
% Ch	2.7	4.2	5.2	4.8	4.2	4.2	4.3	4.4
Personal Income	16,125.1	16,830.9	17,584.6	18,346.9	19,167.3	19,994.9	20,851.3	21,783.6
% Ch	2.6	4.4	4.5	4.3	4.5	4.3	4.3	4.5
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	159.2	160.3	162.0	163.5	165.2	166.4	167.4	168.4
Total U.S. Employment	151.4	153.3	155.7	157.9	159.3	160.2	161.1	162.1
Unemployment Rate (%)	4.87	4.35	3.88	3.46	3.59	3.73	3.78	3.77
Nonfarm Payroll Employment	144.35	146.62	149.01	151.21	152.62	153.52	154.53	155.63
% Ch	1.8	1.6	1.6	1.5	0.9	0.6	0.7	0.7
Manufacturing	12.35	12.44	12.70	12.84	12.80	12.66	12.63	12.69
% Ch	0.1	0.7	2.1	1.1	-0.4	-1.1	-0.2	0.5
Durable Manufacturing	7.71	7.74	7.94	8.05	8.05	7.94	7.92	7.97
% Ch	-0.7	0.3	2.6	1.4	-0.1	-1.3	-0.3	0.6
Nondurable Manufacturing	4.64	4.71	4.76	4.79	4.75	4.71	4.71	4.72
% Ch	1.5	1.4	1.2	0.5	-0.8	-0.8	-0.1	0.2
Construction	6.73	6.95	7.24	7.49	7.77	8.10	8.36	8.59
% Ch	4.1	3.4	4.1	3.4	3.8	4.2	3.2	2.8
Service-Providing	124.60	126.55	128.33	130.13	131.28	131.97	132.75	133.55
% Ch	2.0	1.6	1.4	1.4	0.9	0.5	0.6	0.6
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	43.2	51.0	65.4	56.8	57.7	58.0	58.0	57.7
Personal Saving/Disposable Income (%)	6.7	6.7	6.7	6.3	6.9	7.1	7.0	6.9
Auto Sales (Millions)	6.9	6.1	5.2	4.9	4.8	4.8	4.9	5.0
% Ch	-8.6	-11.5	-14.2	-5.9	-1.7	-0.4	0.9	2.6
Housing Starts (Millions)	1.177	1.208	1.263	1.330	1.410	1.412	1.444	1.465
% Ch	6.4	2.6	4.6	5.3	6.0	0.2	2.3	1.5
Federal Budget Surplus (Billions)	-665.1	-695.4	-971.7	-1,027.4	-1,115.5	-1,192.0	-1,234.1	-1,224.4
Net Exports (Billions)	-520.6	-578.4	-627.3	-710.5	-718.3	-717.9	-697.1	-642.9
3-Month Treasury Bill Rate (%)	0.32	0.93	1.96	2.76	3.14	3.21	3.15	3.03
10-Year Treasury Note Yield (%)	1.84	2.33	2.94	3.30	3.48	3.56	3.54	3.49
Bond Index of 20 G.O. Munis. (%)	3.27	3.67	3.98	4.45	4.64	4.71	4.66	4.58
30-Year Fixed Mortgage Rate (%)	3.65	3.99	4.55	4.99	5.19	5.25	5.21	5.14

Table A1.2  
**U.S. Economic Forecast Summary**  
Forecast 2018 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
<b>Real National Income Accounts (Billions of Chained 2012 Dollars)</b>								
Real Gross Domestic Product	18,324.0	18,511.6	18,671.5	18,789.6	18,905.3	19,020.6	19,116.8	19,198.6
% Ch , Annual Rate	2.2	4.2	3.5	2.6	2.5	2.5	2.0	1.7
Real Consumption	12,722.8	12,842.0	12,968.5	13,035.5	13,121.0	13,199.2	13,266.8	13,323.8
% Ch , Annual Rate	0.5	3.8	4.0	2.1	2.6	2.4	2.1	1.7
Real Nonresidential Fixed Investment	2,654.0	2,710.1	2,715.7	2,766.9	2,794.7	2,827.0	2,857.4	2,888.0
% Ch , Annual Rate	11.5	8.7	0.8	7.8	4.1	4.7	4.4	4.3
Real Residential Fixed Investment	615.3	613.2	607.0	603.2	603.0	606.6	615.9	625.8
% Ch , Annual Rate	-3.4	-1.3	-4.0	-2.5	-0.1	2.4	6.3	6.6
Real Personal Income	16,107.2	16,195.7	16,298.7	16,373.9	16,472.4	16,588.4	16,697.4	16,797.5
% Ch , Annual Rate	2.6	2.2	2.6	1.9	2.4	2.8	2.7	2.4
Real Per Capita Income (\$/Person)	49,157	49,339	49,551	49,691	49,901	50,162	50,402	50,615
% Ch , Annual Rate	2.0	1.5	1.7	1.1	1.7	2.1	1.9	1.7
<b>Price and Wage Indexes</b>								
PCE Price Index (2012=100)	107.5	108.1	108.5	108.9	109.5	110.0	110.5	111.1
% Ch , Annual Rate	2.5	2.0	1.6	1.8	1.9	2.0	1.9	2.0
U.S. Consumer Price Index (1982-84=1.0)	2.494	2.505	2.517	2.528	2.538	2.552	2.566	2.580
% Ch , Annual Rate	3.5	1.7	2.0	1.7	1.6	2.3	2.2	2.2
Employment Cost Index (Dec. 2005=1.0)	1.320	1.328	1.339	1.351	1.362	1.372	1.382	1.394
% Ch , Annual Rate	4.0	2.4	3.4	3.5	3.3	3.1	3.1	3.2
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	20,041.0	20,411.9	20,659.0	20,880.7	21,126.2	21,365.9	21,594.4	21,816.9
% Ch , Annual Rate	4.3	7.6	4.9	4.4	4.8	4.6	4.3	4.2
Personal Income	17,319.2	17,499.8	17,680.2	17,839.4	18,030.7	18,246.1	18,454.0	18,656.7
% Ch , Annual Rate	5.2	4.2	4.2	3.6	4.4	4.9	4.6	4.5
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	161.6	161.7	162.0	162.6	162.9	163.3	163.7	164.2
Total U.S. Employment	154.9	155.4	155.8	156.6	157.2	157.7	158.1	158.5
Unemployment Rate (%)	4.12	3.91	3.80	3.67	3.51	3.44	3.43	3.45
Nonfarm Payroll Employment	148.07	148.70	149.33	149.96	150.51	151.03	151.47	151.84
% Ch , Annual Rate	1.7	1.7	1.7	1.7	1.5	1.4	1.2	1.0
Manufacturing	12.61	12.68	12.74	12.79	12.82	12.84	12.84	12.88
% Ch , Annual Rate	2.7	2.4	1.8	1.7	0.8	0.9	-0.3	1.3
Durable Manufacturing	7.86	7.92	7.97	8.00	8.01	8.06	8.05	8.09
% Ch , Annual Rate	3.6	3.0	2.6	1.7	0.4	2.1	-0.1	2.0
Nondurable Manufacturing	4.74	4.76	4.77	4.78	4.80	4.79	4.78	4.78
% Ch , Annual Rate	1.2	1.3	0.6	1.6	1.5	-1.1	-0.7	0.1
Construction	7.14	7.20	7.26	7.35	7.41	7.46	7.51	7.57
% Ch , Annual Rate	6.6	3.3	3.5	4.6	3.7	2.6	2.7	3.5
Service-Providing	127.61	128.09	128.58	129.06	129.52	129.97	130.37	130.64
% Ch , Annual Rate	1.3	1.5	1.5	1.5	1.4	1.4	1.2	0.8
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	62.9	68.0	69.8	61.1	56.1	56.7	57.2	57.5
Personal Saving/Disposable Income (%)	7.2	6.8	6.4	6.3	6.2	6.3	6.4	6.5
Auto Sales (Millions)	5.4	5.3	5.1	5.0	5.0	4.9	4.9	4.9
% Ch , Annual Rate	-32.0	-8.8	-13.6	-10.6	-2.4	-2.2	-3.0	-1.1
Housing Starts (Millions)	1.317	1.261	1.218	1.258	1.270	1.319	1.351	1.379
% Ch , Annual Rate	19.6	-16.0	-13.0	13.9	3.8	16.4	10.3	8.5
Federal Budget Surplus (Billions)	-969.9	-982.5	-948.5	-985.9	-1,000.6	-1,020.4	-1,034.7	-1,053.8
Net Exports (Billions)	-639.2	-549.8	-646.5	-673.8	-692.8	-710.9	-720.0	-718.5
3-Month Treasury Bill Rate (%)	1.56	1.84	2.04	2.38	2.56	2.69	2.82	2.97
10-Year Treasury Note Yield (%)	2.76	2.92	2.93	3.15	3.22	3.30	3.33	3.36
Bond Index of 20 G.O. Munis. (%)	3.73	3.89	3.97	4.34	4.35	4.44	4.49	4.52
30-Year Fixed Mortgage Rate (%)	4.27	4.54	4.57	4.84	4.91	4.98	5.02	5.06

Table A1.2 (continued)  
**U.S. Economic Forecast Summary**  
 Forecast 2018 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
<b>Real National Income Accounts (Billions of Chained 2012 Dollars)</b>								
Real Gross Domestic Product	19,275.0	19,366.8	19,443.0	19,528.8	19,621.9	19,709.5	19,794.9	19,884.3
% Ch , Annual Rate	1.6	1.9	1.6	1.8	1.9	1.8	1.7	1.8
Real Consumption	13,382.6	13,445.6	13,510.8	13,577.8	13,647.1	13,714.7	13,782.4	13,852.3
% Ch , Annual Rate	1.8	1.9	2.0	2.0	2.1	2.0	2.0	2.0
Real Nonresidential Fixed Investment	2,914.2	2,937.6	2,964.4	2,989.9	3,017.0	3,041.2	3,065.3	3,089.5
% Ch , Annual Rate	3.7	3.3	3.7	3.5	3.7	3.2	3.2	3.2
Real Residential Fixed Investment	633.6	640.6	646.0	653.2	657.3	658.1	660.0	664.3
% Ch , Annual Rate	5.1	4.5	3.4	4.5	2.5	0.5	1.2	2.6
Real Personal Income	16,904.3	17,013.2	17,103.2	17,190.6	17,297.8	17,385.8	17,473.4	17,564.5
% Ch , Annual Rate	2.6	2.6	2.1	2.1	2.5	2.0	2.0	2.1
Real Per Capita Income (\$/Person)	50,846	51,084	51,264	51,436	51,666	51,839	52,009	52,190
% Ch , Annual Rate	1.8	1.9	1.4	1.3	1.8	1.3	1.3	1.4
<b>Price and Wage Indexes</b>								
PCE Price Index (2012=100)	111.6	112.1	112.6	113.2	113.8	114.4	115.0	115.6
% Ch , Annual Rate	2.0	1.8	1.9	2.0	2.1	2.1	2.1	2.0
U.S. Consumer Price Index (1982-84=1.0)	2.594	2.604	2.617	2.630	2.645	2.661	2.675	2.690
% Ch , Annual Rate	2.1	1.6	2.0	1.9	2.4	2.3	2.3	2.2
Employment Cost Index (Dec. 2005=1.0)	1.405	1.416	1.428	1.439	1.451	1.463	1.476	1.488
% Ch , Annual Rate	3.3	3.4	3.3	3.2	3.3	3.3	3.4	3.4
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	22,034.5	22,267.2	22,473.0	22,708.2	22,946.6	23,177.9	23,414.6	23,657.5
% Ch , Annual Rate	4.0	4.3	3.7	4.3	4.3	4.1	4.1	4.2
Personal Income	18,866.9	19,073.1	19,266.8	19,462.5	19,688.1	19,892.4	20,095.9	20,303.4
% Ch , Annual Rate	4.6	4.4	4.1	4.1	4.7	4.2	4.2	4.2
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	164.6	165.3	165.4	165.6	165.9	166.2	166.5	166.8
Total U.S. Employment	158.8	159.4	159.4	159.6	159.8	160.1	160.3	160.5
Unemployment Rate (%)	3.51	3.55	3.63	3.67	3.69	3.72	3.75	3.76
Nonfarm Payroll Employment	152.16	152.70	152.73	152.89	153.16	153.40	153.64	153.88
% Ch , Annual Rate	0.8	1.4	0.1	0.4	0.7	0.6	0.6	0.6
Manufacturing	12.87	12.82	12.78	12.72	12.69	12.66	12.65	12.63
% Ch , Annual Rate	-0.3	-1.4	-1.4	-1.8	-0.9	-0.9	-0.4	-0.6
Durable Manufacturing	8.09	8.06	8.03	7.99	7.97	7.95	7.94	7.92
% Ch , Annual Rate	-0.1	-1.4	-1.4	-2.1	-1.1	-1.3	-0.5	-0.7
Nondurable Manufacturing	4.78	4.76	4.74	4.72	4.72	4.71	4.71	4.71
% Ch , Annual Rate	-0.5	-1.5	-1.4	-1.5	-0.6	-0.3	-0.2	-0.3
Construction	7.65	7.72	7.81	7.90	7.99	8.07	8.14	8.20
% Ch , Annual Rate	3.8	4.2	4.6	4.8	4.6	3.9	3.5	3.4
Service-Providing	130.88	131.38	131.36	131.48	131.69	131.89	132.06	132.25
% Ch , Annual Rate	0.8	1.5	-0.1	0.4	0.6	0.6	0.5	0.6
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	57.6	57.7	57.8	57.9	58.0	58.0	58.0	58.1
Personal Saving/Disposable Income (%)	6.7	6.9	6.9	7.0	7.1	7.1	7.1	7.0
Auto Sales (Millions)	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8
% Ch , Annual Rate	-1.9	-1.3	-1.1	-1.5	0.0	0.3	0.7	0.3
Housing Starts (Millions)	1.397	1.410	1.417	1.414	1.405	1.404	1.415	1.423
% Ch , Annual Rate	5.3	3.8	2.0	-0.9	-2.6	-0.1	3.1	2.3
Federal Budget Surplus (Billions)	-1,082.7	-1,112.4	-1,128.5	-1,138.3	-1,174.3	-1,186.8	-1,198.1	-1,209.1
Net Exports (Billions)	-720.9	-713.1	-722.3	-717.1	-719.5	-720.9	-717.9	-713.2
3-Month Treasury Bill Rate (%)	3.00	3.16	3.21	3.21	3.21	3.22	3.22	3.17
10-Year Treasury Note Yield (%)	3.41	3.47	3.51	3.54	3.56	3.56	3.57	3.56
Bond Index of 20 G.O. Munis. (%)	4.57	4.63	4.66	4.69	4.70	4.71	4.72	4.70
30-Year Fixed Mortgage Rate (%)	5.11	5.18	5.22	5.24	5.25	5.25	5.25	5.23

Table A1.2 (continued)  
**U.S. Economic Forecast Summary**  
 Forecast 2018 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
<b>Real National Income Accounts (Billions of Chained 2012 Dollars)</b>								
Real Gross Domestic Product	19,974.0	20,072.5	20,179.2	20,286.2	20,403.4	20,509.2	20,602.9	20,687.0
% Ch , Annual Rate	1.8	2.0	2.1	2.1	2.3	2.1	1.8	1.6
Real Consumption	13,923.9	13,997.7	14,075.0	14,156.0	14,242.2	14,319.1	14,385.4	14,440.6
% Ch , Annual Rate	2.1	2.1	2.2	2.3	2.5	2.2	1.9	1.5
Real Nonresidential Fixed Investment	3,113.5	3,139.3	3,166.5	3,192.7	3,219.7	3,244.4	3,267.2	3,288.6
% Ch , Annual Rate	3.1	3.4	3.5	3.4	3.4	3.1	2.8	2.6
Real Residential Fixed Investment	667.3	670.4	673.7	676.0	678.4	680.9	682.3	684.1
% Ch , Annual Rate	1.8	1.9	2.0	1.4	1.4	1.4	0.9	1.0
Real Personal Income	17,673.8	17,769.0	17,866.8	17,966.5	18,093.7	18,202.2	18,302.8	18,397.1
% Ch , Annual Rate	2.5	2.2	2.2	2.3	2.9	2.4	2.2	2.1
Real Per Capita Income (\$/Person)	52,425	52,616	52,816	53,020	53,305	53,534	53,740	53,926
% Ch , Annual Rate	1.8	1.5	1.5	1.6	2.2	1.7	1.5	1.4
<b>Price and Wage Indexes</b>								
PCE Price Index (2012=100)	116.2	116.7	117.3	117.9	118.5	119.1	119.7	120.3
% Ch , Annual Rate	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1
U.S. Consumer Price Index (1982-84=1.0)	2.704	2.718	2.733	2.747	2.762	2.776	2.791	2.806
% Ch , Annual Rate	2.1	2.0	2.2	2.1	2.2	2.1	2.2	2.2
Employment Cost Index (Dec. 2005=1.0)	1.501	1.514	1.527	1.541	1.555	1.569	1.583	1.597
% Ch , Annual Rate	3.6	3.6	3.5	3.6	3.7	3.6	3.6	3.6
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	23,900.5	24,153.8	24,420.0	24,686.6	24,967.1	25,235.7	25,494.9	25,745.2
% Ch , Annual Rate	4.2	4.3	4.5	4.4	4.6	4.4	4.2	4.0
Personal Income	20,530.0	20,739.0	20,957.5	21,178.6	21,435.3	21,670.2	21,901.5	22,127.5
% Ch , Annual Rate	4.5	4.1	4.3	4.3	4.9	4.5	4.3	4.2
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	167.0	167.3	167.6	167.8	168.1	168.3	168.5	168.8
Total U.S. Employment	160.7	161.0	161.2	161.5	161.7	162.0	162.2	162.4
Unemployment Rate (%)	3.78	3.78	3.78	3.77	3.76	3.75	3.77	3.80
Nonfarm Payroll Employment	154.12	154.38	154.66	154.96	155.26	155.54	155.77	155.96
% Ch, Annual Rate	0.6	0.7	0.7	0.8	0.8	0.7	0.6	0.5
Manufacturing	12.63	12.62	12.62	12.64	12.65	12.68	12.70	12.72
% Ch, Annual Rate	-0.1	-0.3	0.1	0.5	0.5	0.7	0.9	0.7
Durable Manufacturing	7.92	7.91	7.92	7.93	7.94	7.96	7.98	8.00
% Ch, Annual Rate	0.0	-0.4	0.2	0.6	0.7	0.9	1.2	0.9
Nondurable Manufacturing	4.71	4.71	4.71	4.71	4.71	4.72	4.72	4.72
% Ch, Annual Rate	-0.1	-0.1	0.1	0.3	0.2	0.3	0.4	0.3
Construction	8.27	8.33	8.39	8.45	8.51	8.56	8.62	8.67
% Ch, Annual Rate	3.2	3.0	2.9	2.8	2.8	2.7	2.6	2.5
Service-Providing	132.43	132.63	132.85	133.07	133.30	133.50	133.65	133.76
% Ch, Annual Rate	0.6	0.6	0.7	0.7	0.7	0.6	0.4	0.3
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	58.1	58.0	58.0	58.0	57.8	57.7	57.6	57.5
Personal Saving/Disposable Income (%)	7.1	7.1	7.0	6.9	7.0	6.9	6.9	7.0
Auto Sales (Millions)	4.8	4.8	4.9	4.9	4.9	5.0	5.0	5.0
% Ch, Annual Rate	1.1	0.8	1.2	3.3	3.2	2.4	3.1	2.8
Housing Starts (Millions)	1.435	1.443	1.447	1.451	1.457	1.464	1.469	1.471
% Ch, Annual Rate	3.5	2.4	0.9	1.3	1.7	1.9	1.2	0.5
Federal Budget Surplus (Billions)	-1,233.6	-1,237.2	-1,235.2	-1,230.4	-1,236.0	-1,227.1	-1,218.0	-1,216.6
Net Exports (Billions)	-709.5	-702.5	-694.1	-682.3	-666.2	-650.3	-634.9	-620.3
3-Month Treasury Bill Rate (%)	3.15	3.15	3.15	3.15	3.16	3.13	2.92	2.91
10-Year Treasury Note Yield (%)	3.55	3.54	3.54	3.53	3.51	3.50	3.48	3.46
Bond Index of 20 G.O. Munis. (%)	4.69	4.67	4.66	4.64	4.62	4.59	4.56	4.54
30-Year Fixed Mortgage Rate (%)	5.22	5.21	5.21	5.19	5.17	5.15	5.12	5.10

Table A1.3  
**Washington Economic Forecast Summary**  
Forecast 2018 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
<b>Real Income (Billions of Chained 2012 Dollars)</b>								
Real Personal Income	387.805	404.211	423.238	435.190	448.257	460.085	472.379	485.741
% Ch	4.0	4.2	4.7	2.8	3.0	2.6	2.7	2.8
Real Wage and Salary Disb.	195.037	205.585	219.873	226.231	232.316	237.920	244.506	251.914
% Ch	5.0	5.4	6.9	2.9	2.7	2.4	2.8	3.0
Real Nonwage Income	192.768	198.626	203.365	208.959	215.941	222.165	227.873	233.827
% Ch	3.0	3.0	2.4	2.8	3.3	2.9	2.6	2.6
Real Per Capita Income (\$/Person)	53,259	54,572	56,195	56,875	57,726	58,458	59,280	60,256
% Ch	2.2	2.5	3.0	1.2	1.5	1.3	1.4	1.6
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.042	1.061	1.082	1.103	1.124	1.147	1.170	1.194
% Ch	1.1	1.8	2.1	1.9	1.9	2.1	2.0	2.0
Seattle Cons. Price Index (1982-84=1.0)	2.550	2.627	2.705	2.758	2.815	2.876	2.939	3.002
% Ch	2.3	3.0	3.0	2.0	2.1	2.2	2.2	2.1
Average Nonfarm Annual Wage	60,498	63,560	67,661	69,400	71,602	74,078	76,877	80,038
% Ch	3.0	5.1	6.5	2.6	3.2	3.5	3.8	4.1
Avg. Hourly Earnings-Mfg. (\$/Hour)	26.42	27.38	28.45	29.54	30.45	31.41	32.46	33.58
% Ch	3.5	3.6	3.9	3.8	3.1	3.2	3.3	3.5
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	404.232	428.765	458.160	479.863	503.843	527.783	552.767	579.828
% Ch	5.1	6.1	6.9	4.7	5.0	4.8	4.7	4.9
Disposable Personal Income	355.241	376.933	404.564	423.779	445.225	466.516	487.815	510.320
% Ch	5.3	6.1	7.3	4.7	5.1	4.8	4.6	4.6
Per Capita Income (\$/Person)	55,513	57,886	60,830	62,712	64,883	67,058	69,367	71,926
% Ch	3.3	4.3	5.1	3.1	3.5	3.4	3.4	3.7
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,635.7	3,723.3	3,768.9	3,829.9	3,895.9	3,947.8	3,994.9	4,037.9
Total Washington Employment	3,444.0	3,546.3	3,597.0	3,671.0	3,727.7	3,770.6	3,812.4	3,851.9
Unemployment Rate (%)	5.28	4.76	4.56	4.15	4.32	4.49	4.57	4.61
Nonfarm Payroll Employment	3,244.6	3,322.4	3,411.2	3,486.3	3,537.9	3,575.0	3,612.2	3,647.7
% Ch	3.1	2.4	2.7	2.2	1.5	1.0	1.0	1.0
Manufacturing	290.0	283.8	286.4	290.1	290.5	290.2	292.2	295.8
% Ch	-0.7	-2.1	0.9	1.3	0.1	-0.1	0.7	1.2
Durable Manufacturing	207.6	200.1	201.1	204.0	204.5	204.2	205.6	208.2
% Ch	-1.7	-3.6	0.5	1.4	0.3	-0.2	0.7	1.3
Aerospace	91.0	84.1	83.4	84.9	84.9	84.9	84.9	84.9
% Ch	-3.2	-7.6	-0.8	1.8	0.0	0.0	0.0	0.0
Nondurable Manufacturing	82.4	83.7	85.3	86.1	86.0	86.0	86.6	87.6
% Ch	2.1	1.5	2.0	1.0	-0.1	0.0	0.8	1.1
Construction	186.6	199.7	212.5	215.8	215.7	214.9	213.8	212.5
% Ch	7.7	7.0	6.4	1.6	-0.1	-0.3	-0.5	-0.6
Service-Providing	2,761.7	2,832.7	2,906.0	2,973.9	3,025.2	3,063.3	3,099.5	3,132.7
% Ch	3.2	2.6	2.6	2.3	1.7	1.3	1.2	1.1
Software Publishers	58.9	61.3	64.7	66.4	67.0	68.1	69.3	70.7
% Ch	5.3	4.1	5.5	2.6	1.0	1.6	1.8	1.9
Electronic Shopping and Mail-Order	38.2	49.7	54.4	56.9	59.9	62.1	64.0	65.6
% Ch	26.6	30.1	9.4	4.7	5.2	3.8	3.0	2.5
<b>Housing Indicators (Thousands)</b>								
Housing Units Authorized by Bldg. Permit	44.077	45.794	43.737	43.636	43.800	42.195	41.397	40.572
% Ch	9.2	3.9	-4.5	-0.2	0.4	-3.7	-1.9	-2.0
Single-Family	22.463	23.115	23.826	24.580	25.744	25.332	25.488	25.367
% Ch	13.5	2.9	3.1	3.2	4.7	-1.6	0.6	-0.5
Multi-Family	21.614	22.679	19.911	19.056	18.056	16.863	15.910	15.205
% Ch	5.0	4.9	-12.2	-4.3	-5.2	-6.6	-5.7	-4.4
30-Year Fixed Mortgage Rate (%)	3.65	3.99	4.55	4.99	5.19	5.25	5.21	5.14

Table A1.4  
**Washington Economic Forecast Summary**  
Forecast 2018 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
<b>Real Income (Billions of Chained 2012 Dollars)</b>								
Real Personal Income	419.863	420.820	424.671	427.597	430.160	433.646	436.897	440.055
% Ch, Annual Rate	9.5	0.9	3.7	2.8	2.4	3.3	3.0	2.9
Real Wage and Salary Disb.	218.124	218.192	220.623	222.553	223.913	225.535	227.008	228.468
% Ch, Annual Rate	18.3	0.1	4.5	3.5	2.5	2.9	2.6	2.6
Real Nonwage Income	201.738	202.628	204.048	205.044	206.247	208.111	209.888	211.587
% Ch, Annual Rate	0.8	1.8	2.8	2.0	2.4	3.7	3.5	3.3
Real Per Capita Income (\$/Person)	56,093	55,992	56,266	56,428	56,544	56,781	56,989	57,185
% Ch, Annual Rate	7.7	-0.7	2.0	1.2	0.8	1.7	1.5	1.4
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.075	1.080	1.085	1.089	1.095	1.100	1.105	1.111
% Ch, Annual Rate	2.5	2.0	1.6	1.8	1.9	2.0	1.9	2.0
Seattle Cons. Price Index (1982-84=1.0)	2.689	2.703	2.708	2.721	2.734	2.751	2.767	2.782
% Ch, Annual Rate	4.2	2.1	0.7	1.9	1.9	2.5	2.3	2.2
Average Nonfarm Annual Wage	67,244	67,293	67,854	68,252	68,653	69,143	69,637	70,166
% Ch, Annual Rate	17.3	0.3	3.4	2.4	2.4	2.9	2.9	3.1
Avg. Hourly Earnings-Mfg. (\$/Hour)	27.90	28.35	28.55	29.00	29.23	29.43	29.64	29.87
% Ch, Annual Rate	0.5	6.5	2.9	6.5	3.1	2.9	2.9	3.1
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	451.436	454.689	460.651	465.865	470.852	476.980	482.861	488.761
% Ch, Annual Rate	12.2	2.9	5.3	4.6	4.4	5.3	5.0	5.0
Disposable Personal Income	398.523	401.640	406.792	411.302	415.736	421.194	426.443	431.741
% Ch, Annual Rate	14.1	3.2	5.2	4.5	4.4	5.4	5.1	5.1
Per Capita Income (\$/Person)	60,312	60,499	61,033	61,478	61,892	62,455	62,984	63,514
% Ch, Annual Rate	10.4	1.2	3.6	2.9	2.7	3.7	3.4	3.4
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,759.5	3,760.4	3,766.5	3,789.3	3,804.2	3,821.7	3,838.6	3,855.3
Total Washington Employment	3,581.6	3,582.6	3,597.4	3,626.5	3,645.2	3,663.8	3,680.0	3,694.9
Unemployment Rate (%)	4.73	4.73	4.49	4.30	4.18	4.13	4.13	4.16
Nonfarm Payroll Employment	3,382.5	3,396.6	3,420.0	3,445.6	3,462.4	3,479.9	3,494.6	3,508.2
% Ch, Annual Rate	3.8	1.7	2.8	3.0	2.0	2.0	1.7	1.6
Manufacturing	283.9	285.1	287.7	289.0	289.6	290.0	290.0	290.8
% Ch, Annual Rate	2.5	1.7	3.7	1.9	0.8	0.6	0.0	1.1
Durable Manufacturing	198.8	200.0	202.4	203.3	203.5	203.9	204.0	204.6
% Ch, Annual Rate	1.7	2.6	4.8	1.8	0.3	1.0	0.1	1.2
Aerospace	81.9	82.6	84.1	84.9	84.9	84.9	84.9	84.9
% Ch, Annual Rate	2.2	3.4	7.5	3.6	0.0	0.0	0.0	0.0
Nondurable Manufacturing	85.1	85.0	85.3	85.8	86.2	86.1	86.0	86.2
% Ch, Annual Rate	4.4	-0.2	1.3	2.1	1.9	-0.4	-0.2	0.8
Construction	209.0	211.6	213.3	215.9	215.8	215.8	215.6	215.9
% Ch, Annual Rate	9.2	5.1	3.3	4.8	-0.1	0.1	-0.5	0.6
Service-Providing	2,883.3	2,893.6	2,912.7	2,934.4	2,950.6	2,967.5	2,982.5	2,995.0
% Ch, Annual Rate	3.6	1.4	2.7	3.0	2.2	2.3	2.0	1.7
Software Publishers	63.3	64.4	65.3	65.8	66.1	66.4	66.5	66.5
% Ch, Annual Rate	6.3	7.6	5.9	2.6	2.3	1.4	0.7	0.3
Electronic Shopping and Mail-Order	54.5	54.5	53.9	54.6	55.6	56.5	57.4	58.2
% Ch, Annual Rate	8.7	0.4	-4.3	4.8	7.7	6.9	6.2	5.6
<b>Housing Indicators (Thousands)</b>								
Housing Units Authorized by Bldg. Permit	49.173	43.245	39.684	42.845	42.940	43.646	43.911	44.048
% Ch, Annual Rate	-18.1	-40.2	-29.1	35.9	0.9	6.7	2.5	1.3
Single-Family	24.952	23.013	23.762	23.577	23.772	24.443	24.847	25.259
% Ch, Annual Rate	4.2	-27.6	13.7	-3.1	3.4	11.8	6.8	6.8
Multi-Family	24.221	20.233	15.922	19.269	19.168	19.203	19.064	18.789
% Ch, Annual Rate	-35.2	-51.3	-61.7	114.5	-2.1	0.7	-2.9	-5.7
30-Year Fixed Mortgage Rate (%)	4.27	4.54	4.57	4.84	4.91	4.98	5.02	5.06



Table A1.4 (continued)  
**Washington Economic Forecast Summary**  
Forecast 2018 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
<b>Real Income (Billions of Chained 2012 Dollars)</b>								
Real Personal Income	443.424	447.089	449.847	452.668	455.925	458.663	461.438	464.315
% Ch, Annual Rate	3.1	3.3	2.5	2.5	2.9	2.4	2.4	2.5
Real Wage and Salary Disb.	229.965	231.931	233.020	234.348	235.779	237.147	238.609	240.145
% Ch, Annual Rate	2.6	3.5	1.9	2.3	2.5	2.3	2.5	2.6
Real Nonwage Income	213.459	215.158	216.827	218.320	220.146	221.516	222.829	224.170
% Ch, Annual Rate	3.6	3.2	3.1	2.8	3.4	2.5	2.4	2.4
Real Per Capita Income (\$/Person)	57,410	57,676	57,828	57,991	58,212	58,370	58,534	58,714
% Ch, Annual Rate	1.6	1.9	1.1	1.1	1.5	1.1	1.1	1.2
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.116	1.121	1.126	1.132	1.138	1.144	1.150	1.156
% Ch, Annual Rate	2.0	1.8	1.9	2.0	2.1	2.1	2.1	2.0
Seattle Cons. Price Index (1982-84=1.0)	2.797	2.808	2.822	2.835	2.852	2.868	2.885	2.900
% Ch, Annual Rate	2.1	1.6	2.0	1.9	2.4	2.3	2.3	2.2
Average Nonfarm Annual Wage	70,743	71,297	71,880	72,487	73,116	73,740	74,391	75,063
% Ch, Annual Rate	3.3	3.2	3.3	3.4	3.5	3.5	3.6	3.7
Avg. Hourly Earnings-Mfg. (\$/Hour)	30.10	30.34	30.57	30.80	31.04	31.28	31.53	31.79
% Ch, Annual Rate	3.1	3.2	3.1	3.1	3.2	3.2	3.2	3.3
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	494.907	501.221	506.752	512.492	518.928	524.792	530.694	536.718
% Ch, Annual Rate	5.1	5.2	4.5	4.6	5.1	4.6	4.6	4.6
Disposable Personal Income	437.186	442.854	447.878	452.981	458.838	463.959	469.071	474.196
% Ch, Annual Rate	5.1	5.3	4.6	4.6	5.3	4.5	4.5	4.4
Per Capita Income (\$/Person)	64,076	64,659	65,143	65,655	66,257	66,786	67,320	67,870
% Ch, Annual Rate	3.6	3.7	3.0	3.2	3.7	3.2	3.2	3.3
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,871.6	3,893.0	3,903.0	3,915.8	3,929.0	3,941.8	3,954.1	3,966.2
Total Washington Employment	3,707.8	3,726.5	3,732.9	3,743.5	3,754.8	3,765.3	3,775.8	3,786.4
Unemployment Rate (%)	4.23	4.28	4.36	4.40	4.44	4.48	4.51	4.53
Nonfarm Payroll Employment	3,519.4	3,538.0	3,542.9	3,551.4	3,561.1	3,570.4	3,579.6	3,588.9
% Ch, Annual Rate	1.3	2.1	0.6	1.0	1.1	1.0	1.0	1.0
Manufacturing	290.9	290.7	290.5	290.0	290.0	290.0	290.2	290.5
% Ch, Annual Rate	0.2	-0.4	-0.2	-0.7	0.0	0.0	0.3	0.4
Durable Manufacturing	204.7	204.6	204.6	204.3	204.2	204.1	204.1	204.3
% Ch, Annual Rate	0.2	-0.2	0.0	-0.6	-0.2	-0.3	0.2	0.4
Aerospace	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nondurable Manufacturing	86.2	86.1	85.9	85.7	85.8	85.9	86.1	86.2
% Ch, Annual Rate	0.2	-0.8	-0.7	-0.8	0.3	0.5	0.7	0.6
Construction	215.4	215.7	215.8	215.7	215.3	215.0	214.7	214.6
% Ch, Annual Rate	-1.0	0.6	0.3	-0.2	-0.8	-0.6	-0.5	-0.2
Service-Providing	3,006.6	3,025.1	3,030.0	3,039.1	3,049.2	3,058.9	3,068.1	3,077.2
% Ch, Annual Rate	1.6	2.5	0.7	1.2	1.3	1.3	1.2	1.2
Software Publishers	66.7	66.9	67.1	67.4	67.7	67.9	68.2	68.5
% Ch, Annual Rate	0.8	1.3	1.5	1.5	1.6	1.6	1.7	1.8
Electronic Shopping and Mail-Order	58.9	59.6	60.2	60.8	61.4	61.9	62.4	62.9
% Ch, Annual Rate	5.1	4.7	4.3	4.0	3.7	3.5	3.3	3.1
<b>Housing Indicators (Thousands)</b>								
Housing Units Authorized by Bldg. Permit	44.144	44.177	43.761	43.119	42.566	42.266	42.104	41.846
% Ch, Annual Rate	0.9	0.3	-3.7	-5.7	-5.0	-2.8	-1.5	-2.4
Single-Family	25.587	25.825	25.873	25.690	25.404	25.245	25.298	25.381
% Ch, Annual Rate	5.3	3.8	0.8	-2.8	-4.4	-2.5	0.9	1.3
Multi-Family	18.557	18.352	17.888	17.429	17.162	17.021	16.805	16.465
% Ch, Annual Rate	-4.8	-4.3	-9.8	-9.9	-6.0	-3.2	-5.0	-7.9
30-Year Fixed Mortgage Rate (%)	5.11	5.18	5.22	5.24	5.25	5.25	5.25	5.23



Table A1.4 (continued)  
**Washington Economic Forecast Summary**  
Forecast 2018 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
<b>Real Income (Billions of Chained 2012 Dollars)</b>								
Real Personal Income	467.743	470.797	473.913	477.064	480.939	484.294	487.406	490.323
% Ch, Annual Rate	3.0	2.6	2.7	2.7	3.3	2.8	2.6	2.4
Real Wage and Salary Disb.	241.878	243.603	245.365	247.179	249.156	251.063	252.863	254.574
% Ch, Annual Rate	2.9	2.9	2.9	3.0	3.2	3.1	2.9	2.7
Real Nonwage Income	225.865	227.193	228.549	229.885	231.783	233.231	234.543	235.749
% Ch, Annual Rate	3.1	2.4	2.4	2.4	3.3	2.5	2.3	2.1
Real Per Capita Income (\$/Person)	58,965	59,170	59,383	59,602	59,913	60,159	60,377	60,573
% Ch, Annual Rate	1.7	1.4	1.5	1.5	2.1	1.7	1.5	1.3
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.162	1.167	1.173	1.179	1.185	1.191	1.197	1.203
% Ch, Annual Rate	2.0	1.9	2.0	2.0	2.0	2.0	2.1	2.1
Seattle Cons. Price Index (1982-84=1.0)	2.916	2.930	2.946	2.962	2.978	2.993	3.009	3.026
% Ch, Annual Rate	2.1	2.0	2.2	2.1	2.2	2.1	2.2	2.2
Average Nonfarm Annual Wage	75,779	76,493	77,237	78,000	78,815	79,625	80,444	81,269
% Ch, Annual Rate	3.9	3.8	3.9	4.0	4.2	4.2	4.2	4.2
Avg. Hourly Earnings-Mfg. (\$/Hour)	32.06	32.33	32.59	32.87	33.15	33.44	33.72	34.01
% Ch, Annual Rate	3.4	3.4	3.3	3.4	3.5	3.5	3.5	3.5
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	543.331	549.488	555.893	562.354	569.761	576.565	583.240	589.748
% Ch, Annual Rate	5.0	4.6	4.7	4.7	5.4	4.9	4.7	4.5
Disposable Personal Income	479.875	485.084	490.440	495.862	502.072	507.666	513.113	518.429
% Ch, Annual Rate	4.9	4.4	4.5	4.5	5.1	4.5	4.4	4.2
Per Capita Income (\$/Person)	68,494	69,060	69,656	70,258	70,978	71,621	72,249	72,856
% Ch, Annual Rate	3.7	3.3	3.5	3.5	4.2	3.7	3.6	3.4
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,978.0	3,989.4	4,000.7	4,011.7	4,022.5	4,033.0	4,043.2	4,053.0
Total Washington Employment	3,796.8	3,807.2	3,817.6	3,827.9	3,838.2	3,848.0	3,856.7	3,864.5
Unemployment Rate (%)	4.55	4.57	4.58	4.58	4.58	4.59	4.61	4.65
Nonfarm Payroll Employment	3,598.2	3,607.5	3,616.9	3,626.2	3,635.7	3,644.5	3,652.1	3,658.6
% Ch, Annual Rate	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.7
Manufacturing	291.2	291.8	292.6	293.5	294.4	295.4	296.3	297.2
% Ch, Annual Rate	0.9	0.8	1.1	1.3	1.3	1.3	1.3	1.1
Durable Manufacturing	204.8	205.2	205.8	206.5	207.2	207.9	208.6	209.2
% Ch, Annual Rate	0.9	0.8	1.2	1.3	1.4	1.4	1.3	1.1
Aerospace	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nondurable Manufacturing	86.3	86.5	86.7	87.0	87.2	87.5	87.8	88.0
% Ch, Annual Rate	0.8	0.8	1.0	1.1	1.1	1.2	1.3	1.1
Construction	214.3	214.0	213.7	213.4	213.0	212.7	212.3	212.0
% Ch, Annual Rate	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7
Service-Providing	3,086.2	3,095.1	3,104.0	3,112.8	3,121.6	3,129.8	3,136.8	3,142.8
% Ch, Annual Rate	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.8
Software Publishers	68.9	69.2	69.5	69.8	70.1	70.5	70.8	71.2
% Ch, Annual Rate	1.9	1.8	1.8	1.9	1.9	2.0	2.0	2.1
Electronic Shopping and Mail-Order	63.3	63.8	64.2	64.6	65.0	65.4	65.8	66.2
% Ch, Annual Rate	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3
<b>Housing Indicators (Thousands)</b>								
Housing Units Authorized by Bldg. Permit	41.720	41.546	41.275	41.049	40.860	40.696	40.495	40.236
% Ch, Annual Rate	-1.2	-1.7	-2.6	-2.2	-1.8	-1.6	-2.0	-2.5
Single-Family	25.469	25.543	25.494	25.445	25.397	25.367	25.356	25.347
% Ch, Annual Rate	1.4	1.2	-0.8	-0.8	-0.8	-0.5	-0.2	-0.1
Multi-Family	16.251	16.003	15.781	15.604	15.463	15.328	15.139	14.889
% Ch, Annual Rate	-5.1	-6.0	-5.4	-4.4	-3.6	-3.4	-4.9	-6.4
30-Year Fixed Mortgage Rate (%)	5.22	5.21	5.21	5.19	5.17	5.15	5.12	5.10

Table A2.1

**U.S. Nonagricultural Employment by Industry (Millions)**

Forecast 2018 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Nonfarm Payroll Employment	144.35	146.62	149.01	151.21	152.62	153.52	154.53	155.63
% Ch	1.8	1.6	1.6	1.5	0.9	0.6	0.7	0.7
Manufacturing	12.35	12.44	12.70	12.84	12.80	12.66	12.63	12.69
% Ch	0.1	0.7	2.1	1.1	-0.4	-1.1	-0.2	0.5
Durable Manufacturing	7.71	7.74	7.94	8.05	8.05	7.94	7.92	7.97
% Ch	-0.7	0.3	2.6	1.4	-0.1	-1.3	-0.3	0.6
Wood Products	0.39	0.40	0.41	0.41	0.41	0.42	0.44	0.46
% Ch	2.7	1.1	2.1	0.3	2.0	2.0	4.2	4.7
Primary and Fabricated Metals	1.80	1.80	1.87	1.89	1.89	1.84	1.84	1.89
% Ch	-3.0	0.4	3.5	1.3	0.2	-2.7	-0.2	2.6
Computer and Electronic Products	1.05	1.04	1.07	1.07	1.06	1.07	1.08	1.09
% Ch	-0.5	-0.5	2.3	0.6	-0.8	0.8	1.1	0.9
Machinery and Electrical Equipment	1.46	1.47	1.53	1.55	1.57	1.56	1.58	1.59
% Ch	-3.0	0.6	4.0	1.4	1.3	-0.2	0.8	1.2
Transportation Equipment	1.63	1.63	1.66	1.72	1.69	1.64	1.58	1.51
% Ch	1.6	0.1	2.0	3.1	-1.6	-2.8	-4.1	-4.4
Other Durables	1.39	1.40	1.41	1.42	1.42	1.40	1.40	1.42
% Ch	1.3	0.7	1.0	0.7	-0.3	-1.2	0.2	1.6
Nondurable Manufacturing	4.64	4.71	4.76	4.79	4.75	4.71	4.71	4.72
% Ch	1.5	1.4	1.2	0.5	-0.8	-0.8	-0.1	0.2
Food Manufacturing	1.56	1.60	1.64	1.67	1.68	1.69	1.71	1.74
% Ch	3.0	3.0	2.2	2.0	0.6	0.5	1.2	1.5
Paper and Paper Products	0.37	0.37	0.38	0.37	0.37	0.36	0.36	0.36
% Ch	-0.6	-0.5	1.8	-0.6	-2.1	-1.8	-0.6	0.0
Other Nondurables	2.71	2.73	2.75	2.74	2.70	2.66	2.64	2.63
% Ch	1.0	0.8	0.6	-0.2	-1.5	-1.4	-0.9	-0.5
Natural Resources and Mining	0.67	0.68	0.74	0.75	0.77	0.79	0.80	0.80
% Ch	-17.8	1.5	8.9	2.1	2.5	2.4	0.8	0.5
Construction	6.73	6.95	7.24	7.49	7.77	8.10	8.36	8.59
% Ch	4.1	3.4	4.1	3.4	3.8	4.2	3.2	2.8
Trade, Transportation, and Utilities	27.26	27.49	27.79	27.98	27.85	27.75	27.62	27.50
% Ch	1.4	0.8	1.1	0.7	-0.5	-0.3	-0.5	-0.4
Wholesale Trade	5.86	5.90	5.99	6.08	6.10	6.11	6.11	6.11
% Ch	0.1	0.7	1.4	1.6	0.3	0.1	0.0	0.1
Retail Trade	15.83	15.86	15.91	15.89	15.77	15.70	15.60	15.51
% Ch	1.4	0.2	0.3	-0.2	-0.7	-0.4	-0.6	-0.6
Trans., Warehousing, and Utilities	5.57	5.72	5.89	6.01	5.98	5.95	5.91	5.87
% Ch	2.7	2.8	2.9	2.0	-0.5	-0.6	-0.6	-0.6
Information	2.79	2.79	2.77	2.81	2.81	2.86	2.90	2.91
% Ch	1.6	0.0	-0.9	1.5	0.0	1.8	1.3	0.5
Publishing Industries	0.73	0.72	0.71	0.70	0.67	0.65	0.65	0.64
% Ch	0.5	-1.0	-1.2	-1.7	-4.7	-2.3	-1.3	-0.7
Other Information	2.06	2.07	2.05	2.11	2.14	2.21	2.25	2.27
% Ch	1.9	0.3	-0.8	2.7	1.6	3.0	2.0	0.9
Financial Activities	8.29	8.45	8.57	8.73	8.86	8.86	8.87	8.88
% Ch	2.0	2.0	1.4	1.9	1.5	0.0	0.1	0.0
Professional and Business Services	20.05	20.47	20.99	21.71	22.50	23.04	23.58	24.24
% Ch	2.1	2.1	2.6	3.4	3.6	2.4	2.3	2.8
Education and Health Services	22.64	23.19	23.65	24.03	24.04	24.12	24.22	24.32
% Ch	2.8	2.4	2.0	1.6	0.1	0.3	0.4	0.4
Leisure and Hospitality	15.66	16.06	16.34	16.53	16.70	16.84	16.95	16.98
% Ch	3.3	2.6	1.7	1.2	1.0	0.9	0.6	0.2
Other Services	5.69	5.78	5.86	5.88	5.79	5.72	5.67	5.62
% Ch	1.2	1.5	1.5	0.3	-1.6	-1.1	-0.9	-0.9
Federal Government	2.79	2.81	2.80	2.80	2.92	2.80	2.80	2.80
% Ch	1.4	0.4	-0.3	0.1	4.5	-4.3	0.0	0.0
State and Local Government	19.44	19.52	19.57	19.65	19.81	19.97	20.14	20.31
% Ch	0.9	0.4	0.2	0.4	0.8	0.8	0.8	0.8

Table A2.2

**U.S. Nonagricultural Employment by Industry (Millions)**

Forecast 2018 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Nonfarm Payroll Employment	148.07	148.70	149.33	149.96	150.51	151.03	151.47	151.84
% Ch, Annual Rate	1.7	1.7	1.7	1.7	1.5	1.4	1.2	1.0
Manufacturing	12.61	12.68	12.74	12.79	12.82	12.84	12.84	12.88
% Ch, Annual Rate	2.7	2.4	1.8	1.7	0.8	0.9	-0.3	1.3
Durable Manufacturing	7.86	7.92	7.97	8.00	8.01	8.06	8.05	8.09
% Ch, Annual Rate	3.6	3.0	2.6	1.7	0.4	2.1	-0.1	2.0
Wood Products	0.40	0.41	0.41	0.41	0.41	0.40	0.41	0.41
% Ch, Annual Rate	5.3	2.5	1.4	0.9	-1.0	-1.8	0.9	4.8
Primary and Fabricated Metals	1.85	1.86	1.88	1.88	1.87	1.89	1.89	1.91
% Ch, Annual Rate	4.7	3.8	2.5	0.0	-1.3	4.1	1.3	3.1
Computer and Electronic Products	1.06	1.06	1.07	1.07	1.08	1.08	1.07	1.07
% Ch, Annual Rate	2.3	2.4	1.8	1.6	1.7	-0.7	-1.9	-1.4
Machinery and Electrical Equipment	1.50	1.52	1.54	1.55	1.54	1.55	1.54	1.56
% Ch, Annual Rate	4.7	5.7	3.5	2.5	-0.5	0.5	-0.3	3.4
Transportation Equipment	1.65	1.66	1.67	1.68	1.70	1.72	1.72	1.73
% Ch, Annual Rate	2.8	2.5	3.7	3.0	3.0	5.2	0.4	1.5
Other Durables	1.41	1.41	1.41	1.42	1.42	1.42	1.42	1.42
% Ch, Annual Rate	2.4	0.5	1.1	2.0	0.1	1.1	-1.0	1.2
Nondurable Manufacturing	4.74	4.76	4.77	4.78	4.80	4.79	4.78	4.78
% Ch, Annual Rate	1.2	1.3	0.6	1.6	1.5	-1.1	-0.7	0.1
Food Manufacturing	1.63	1.64	1.64	1.65	1.67	1.67	1.67	1.68
% Ch, Annual Rate	2.4	1.9	1.1	2.7	3.7	0.8	0.8	1.7
Paper and Paper Products	0.37	0.37	0.38	0.38	0.38	0.37	0.37	0.37
% Ch, Annual Rate	2.5	2.6	2.8	1.1	-1.7	-2.6	-2.6	-0.9
Other Nondurables	2.74	2.75	2.75	2.76	2.76	2.75	2.74	2.73
% Ch, Annual Rate	0.5	0.7	0.0	0.9	0.7	-2.1	-1.3	-0.7
Natural Resources and Mining	0.71	0.73	0.75	0.76	0.76	0.75	0.75	0.75
% Ch, Annual Rate	11.0	12.1	6.5	7.9	-1.5	-2.0	0.7	-2.0
Construction	7.14	7.20	7.26	7.35	7.41	7.46	7.51	7.57
% Ch, Annual Rate	6.6	3.3	3.5	4.6	3.7	2.6	2.7	3.5
Trade, Transportation, and Utilities	27.69	27.76	27.82	27.89	27.97	27.99	27.99	27.97
% Ch, Annual Rate	1.5	1.0	0.8	1.1	1.2	0.2	0.0	-0.3
Wholesale Trade	5.95	5.96	6.00	6.03	6.05	6.08	6.10	6.11
% Ch, Annual Rate	1.5	0.5	2.5	1.9	1.9	1.5	1.4	0.5
Retail Trade	15.91	15.93	15.91	15.89	15.92	15.90	15.88	15.85
% Ch, Annual Rate	1.0	0.7	-0.5	-0.6	0.7	-0.3	-0.7	-0.7
Trans., Warehousing, and Utilities	5.82	5.86	5.90	5.98	6.00	6.01	6.02	6.02
% Ch, Annual Rate	3.0	2.6	2.9	5.0	1.8	0.4	0.5	-0.1
Information	2.76	2.77	2.77	2.78	2.80	2.83	2.82	2.80
% Ch, Annual Rate	-2.7	1.2	-0.5	1.8	3.0	4.4	-1.5	-2.7
Publishing Industries	0.72	0.71	0.71	0.71	0.71	0.71	0.70	0.69
% Ch, Annual Rate	-1.7	-0.5	0.2	-0.4	0.4	-2.9	-5.6	-7.0
Other Information	2.05	2.06	2.05	2.06	2.08	2.12	2.12	2.11
% Ch, Annual Rate	-3.0	1.8	-0.7	2.6	3.9	7.0	-0.1	-1.2
Financial Activities	8.54	8.56	8.59	8.61	8.64	8.70	8.77	8.82
% Ch, Annual Rate	1.5	1.3	1.2	1.0	1.5	2.9	3.2	2.1
Professional and Business Services	20.77	20.92	21.06	21.20	21.32	21.58	21.85	22.08
% Ch, Annual Rate	2.3	3.0	2.7	2.7	2.2	4.9	5.2	4.2
Education and Health Services	23.46	23.58	23.73	23.84	23.93	24.05	24.07	24.06
% Ch, Annual Rate	2.0	2.0	2.5	1.9	1.6	1.9	0.4	-0.1
Leisure and Hospitality	16.24	16.29	16.36	16.45	16.54	16.51	16.53	16.56
% Ch, Annual Rate	1.5	1.3	1.6	2.2	2.3	-0.8	0.6	0.7
Other Services	5.83	5.86	5.87	5.89	5.91	5.89	5.88	5.85
% Ch, Annual Rate	1.1	2.2	0.6	1.5	1.2	-1.3	-1.1	-2.0
Federal Government	2.79	2.79	2.80	2.80	2.80	2.80	2.80	2.80
% Ch, Annual Rate	-1.2	0.0	0.5	0.4	0.0	0.0	0.0	0.0
State and Local Government	19.53	19.54	19.59	19.60	19.61	19.63	19.66	19.70
% Ch, Annual Rate	0.0	0.3	1.0	0.2	0.1	0.5	0.7	0.9





Table A2.3

**Washington Nonagricultural Employment by Industry (Thousands)**

Forecast 2018 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Nonfarm Payroll Employment	3,244.6	3,322.4	3,411.2	3,486.3	3,537.9	3,575.0	3,612.2	3,647.7
% Ch	3.1	2.4	2.7	2.2	1.5	1.0	1.0	1.0
Manufacturing	290.0	283.8	286.4	290.1	290.5	290.2	292.2	295.8
% Ch	-0.7	-2.1	0.9	1.3	0.1	-0.1	0.7	1.2
Durable Manufacturing	207.6	200.1	201.1	204.0	204.5	204.2	205.6	208.2
% Ch	-1.7	-3.6	0.5	1.4	0.3	-0.2	0.7	1.3
Wood Products	13.1	12.9	13.2	13.0	12.9	12.9	13.0	13.3
% Ch	-1.6	-1.1	1.7	-1.5	-0.4	-0.4	1.5	1.9
Primary and Fabricated Metals	25.2	25.0	26.1	26.8	26.8	26.0	25.9	26.6
% Ch	-2.0	-0.7	4.3	2.5	0.1	-3.1	-0.3	2.7
Computer and Electronic Products	20.1	19.6	19.8	19.8	19.8	20.3	20.9	21.5
% Ch	0.7	-2.5	1.0	0.5	-0.2	2.5	2.9	2.7
Machinery and Electrical Equipment	20.5	20.6	20.8	21.5	22.5	23.0	23.9	24.9
% Ch	-1.2	0.7	0.9	3.1	4.6	2.5	3.8	4.4
Aerospace	91.0	84.1	83.4	84.9	84.9	84.9	84.9	84.9
% Ch	-3.2	-7.6	-0.8	1.8	0.0	0.0	0.0	0.0
Other Transportation Equip.	10.1	10.2	9.8	9.5	9.0	8.5	8.2	8.0
% Ch	-0.9	0.2	-4.0	-2.4	-5.8	-4.8	-3.4	-2.9
Other Durables	27.6	27.7	28.1	28.5	28.7	28.6	28.8	29.0
% Ch	1.2	0.5	1.5	1.5	0.7	-0.3	0.4	1.0
Nondurable Manufacturing	82.4	83.7	85.3	86.1	86.0	86.0	86.6	87.6
% Ch	2.1	1.5	2.0	1.0	-0.1	0.0	0.8	1.1
Food Manufacturing	37.5	38.0	38.5	38.2	38.2	38.1	38.2	38.5
% Ch	1.9	1.3	1.1	-0.5	-0.2	-0.3	0.4	0.7
Paper and Paper Products	7.8	7.7	7.6	7.3	7.1	6.9	6.8	6.7
% Ch	-3.4	-0.2	-2.2	-3.1	-3.4	-3.0	-1.6	-0.9
Other Nondurables	37.1	37.9	39.3	40.5	40.7	41.0	41.6	42.4
% Ch	3.4	2.1	3.6	3.2	0.4	0.8	1.5	1.8
Natural Resources and Mining	6.3	6.2	6.3	6.5	6.5	6.6	6.6	6.6
% Ch	-0.8	-1.6	2.1	2.7	0.8	0.8	0.5	0.4
Construction	186.6	199.7	212.5	215.8	215.7	214.9	213.8	212.5
% Ch	7.7	7.0	6.4	1.6	-0.1	-0.3	-0.5	-0.6
Trade, Transportation, and Utilities	606.3	626.0	641.3	651.9	655.5	658.2	659.3	659.9
% Ch	3.1	3.2	2.4	1.7	0.6	0.4	0.2	0.1
Wholesale Trade	132.8	134.5	138.6	141.5	142.3	142.6	142.7	142.9
% Ch	0.6	1.3	3.1	2.0	0.6	0.2	0.1	0.1
Retail Trade	369.1	384.7	393.4	399.1	402.2	404.9	406.3	407.2
% Ch	4.0	4.2	2.3	1.5	0.8	0.7	0.3	0.2
Electronic Shopping and Mail-Order	38.2	49.7	54.4	56.9	59.9	62.1	64.0	65.6
% Ch	26.6	30.1	9.4	4.7	5.2	3.8	3.0	2.5
Other Retail Trade	330.9	334.9	339.0	342.2	342.3	342.8	342.3	341.6
% Ch	1.9	1.2	1.2	0.9	0.0	0.2	-0.1	-0.2
Trans., Warehousing, and Utilities	104.4	106.9	109.2	111.3	111.1	110.7	110.3	109.8
% Ch	3.4	2.4	2.2	1.9	-0.2	-0.3	-0.4	-0.4
Information	121.6	126.3	133.2	139.1	140.9	143.7	146.0	147.9
% Ch	6.2	3.9	5.5	4.4	1.3	1.9	1.7	1.2
Software Publishers	58.9	61.3	64.7	66.4	67.0	68.1	69.3	70.7
% Ch	5.3	4.1	5.5	2.6	1.0	1.6	1.8	1.9
Other Publishing Industries	5.9	5.5	5.3	5.2	4.6	4.2	3.8	3.5
% Ch	-4.0	-7.0	-3.6	-1.5	-12.4	-9.4	-8.3	-7.6
Other Information	56.7	59.5	63.2	67.5	69.3	71.4	72.9	73.7
% Ch	8.4	4.9	6.3	6.7	2.8	3.0	2.1	1.0
Financial Activities	150.3	153.1	157.3	160.6	162.4	160.9	159.9	158.8
% Ch	1.8	1.9	2.8	2.1	1.1	-0.9	-0.6	-0.7
Professional and Business Services	403.6	414.1	427.6	444.8	463.0	476.6	489.7	504.4
% Ch	3.5	2.6	3.3	4.0	4.1	2.9	2.7	3.0
Education and Health Services	463.5	476.0	491.3	502.6	508.4	514.6	520.4	525.7
% Ch	3.4	2.7	3.2	2.3	1.2	1.2	1.1	1.0
Leisure and Hospitality	323.3	331.4	341.7	349.3	355.1	359.8	363.4	365.3
% Ch	4.3	2.5	3.1	2.2	1.7	1.3	1.0	0.5
Other Services	117.6	119.9	123.3	126.1	127.9	129.6	131.1	132.3
% Ch	2.3	2.0	2.8	2.3	1.5	1.3	1.1	0.9
Federal Government	74.5	74.9	74.7	74.8	77.6	75.6	75.9	76.2
% Ch	1.9	0.4	-0.2	0.1	3.8	-2.6	0.4	0.4
State and Local Government	501.0	511.0	515.6	524.8	534.3	544.2	553.8	562.3
% Ch	2.5	2.0	0.9	1.8	1.8	1.9	1.7	1.5

Table A2.4

**Washington Nonagricultural Employment by Industry (Thousands)**

Forecast 2018 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Nonfarm Payroll Employment	3,382.5	3,396.6	3,420.0	3,445.6	3,462.4	3,479.9	3,494.6	3,508.2
% Ch, Annual Rate	3.8	1.7	2.8	3.0	2.0	2.0	1.7	1.6
Manufacturing	283.9	285.1	287.7	289.0	289.6	290.0	290.0	290.8
% Ch, Annual Rate	2.5	1.7	3.7	1.9	0.8	0.6	0.0	1.1
Durable Manufacturing	198.8	200.0	202.4	203.3	203.5	203.9	204.0	204.6
% Ch, Annual Rate	1.7	2.6	4.8	1.8	0.3	1.0	0.1	1.2
Wood Products	13.2	13.1	13.2	13.2	13.1	12.9	12.9	13.0
% Ch, Annual Rate	3.8	-1.0	1.5	-0.6	-2.9	-3.6	-1.3	1.9
Primary and Fabricated Metals	25.6	25.9	26.3	26.6	26.5	26.8	26.8	27.0
% Ch, Annual Rate	8.0	5.4	6.2	3.7	-1.5	4.2	1.2	3.2
Computer and Electronic Products	19.7	19.7	19.8	19.7	19.9	19.9	19.8	19.8
% Ch, Annual Rate	2.2	0.1	1.0	-1.5	3.8	0.0	-1.9	-1.1
Machinery and Electrical Equipment	20.6	20.7	20.8	21.1	21.2	21.4	21.5	21.9
% Ch, Annual Rate	-4.2	2.6	1.6	5.3	1.7	3.2	2.2	7.6
Aerospace	81.9	82.6	84.1	84.9	84.9	84.9	84.9	84.9
% Ch, Annual Rate	2.2	3.4	7.5	3.6	0.0	0.0	0.0	0.0
Other Transportation Equip.	9.8	9.8	9.9	9.5	9.6	9.6	9.5	9.4
% Ch, Annual Rate	-6.5	0.3	6.4	-16.1	2.7	0.9	-3.3	-5.7
Other Durables	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7
% Ch, Annual Rate	1.3	1.7	1.5	2.4	0.5	2.1	0.8	1.7
Nondurable Manufacturing	85.1	85.0	85.3	85.8	86.2	86.1	86.0	86.2
% Ch, Annual Rate	4.4	-0.2	1.3	2.1	1.9	-0.4	-0.2	0.8
Food Manufacturing	38.9	38.6	38.3	38.0	38.2	38.2	38.2	38.3
% Ch, Annual Rate	8.1	-3.4	-2.9	-3.7	2.9	0.0	0.0	0.9
Paper and Paper Products	7.6	7.6	7.5	7.5	7.4	7.4	7.3	7.3
% Ch, Annual Rate	-2.1	0.6	-4.7	-2.7	-2.8	-3.9	-3.9	-1.9
Other Nondurables	38.5	38.8	39.5	40.3	40.5	40.5	40.5	40.6
% Ch, Annual Rate	2.1	2.9	6.8	8.9	1.8	0.0	0.4	1.1
Natural Resources and Mining	6.3	6.3	6.3	6.4	6.4	6.5	6.5	6.5
% Ch, Annual Rate	4.4	0.7	2.2	4.1	4.4	1.5	2.2	-1.2
Construction	209.0	211.6	213.3	215.9	215.8	215.8	215.6	215.9
% Ch, Annual Rate	9.2	5.1	3.3	4.8	-0.1	0.1	-0.5	0.6
Trade, Transportation, and Utilities	638.8	638.4	642.3	645.5	649.0	651.2	653.0	654.3
% Ch, Annual Rate	4.6	-0.3	2.5	2.0	2.2	1.4	1.1	0.8
Wholesale Trade	137.5	138.1	139.0	139.9	140.6	141.2	141.8	142.2
% Ch, Annual Rate	6.4	1.9	2.7	2.5	2.0	1.9	1.7	1.0
Retail Trade	393.2	391.9	393.3	395.1	397.4	398.8	399.8	400.6
% Ch, Annual Rate	4.4	-1.3	1.4	1.8	2.4	1.4	1.0	0.9
Electronic Shopping and Mail-Order	54.5	54.5	53.9	54.6	55.6	56.5	57.4	58.2
% Ch	8.7	0.4	-4.3	4.8	7.7	6.9	6.2	5.6
Other Retail Trade	338.7	337.4	339.4	340.5	341.8	342.3	342.4	342.5
% Ch	3.7	-1.6	2.4	1.3	1.5	0.5	0.2	0.1
Trans., Warehousing, and Utilities	108.1	108.3	110.0	110.6	111.0	111.2	111.4	111.4
% Ch, Annual Rate	3.4	0.8	6.2	2.3	1.6	0.7	0.7	0.2
Information	129.5	132.0	134.8	136.7	137.9	139.5	139.6	139.4
% Ch, Annual Rate	4.6	7.9	8.8	5.7	3.6	4.7	0.3	-0.6
Software Publishers	63.3	64.4	65.3	65.8	66.1	66.4	66.5	66.5
% Ch, Annual Rate	6.3	7.6	5.9	2.6	2.3	1.4	0.7	0.3
Other Publishing Industries	5.2	5.2	5.3	5.5	5.5	5.4	5.2	4.9
% Ch, Annual Rate	-5.9	-5.0	12.3	15.9	-3.6	-8.7	-13.3	-15.8
Other Information	61.0	62.4	64.1	65.4	66.3	67.7	67.9	67.9
% Ch, Annual Rate	3.8	9.4	11.6	8.0	5.5	9.3	1.1	-0.2
Financial Activities	156.0	156.9	157.7	158.5	159.0	160.1	161.3	162.1
% Ch, Annual Rate	4.3	2.3	2.0	2.0	1.2	2.9	3.1	2.0
Professional and Business Services	422.4	424.7	430.3	433.1	436.4	442.0	447.8	452.9
% Ch, Annual Rate	4.9	2.2	5.4	2.6	3.0	5.2	5.4	4.6
Education and Health Services	487.5	490.3	491.8	495.8	498.8	502.2	504.0	505.4
% Ch, Annual Rate	3.6	2.4	1.2	3.3	2.5	2.7	1.5	1.1
Leisure and Hospitality	338.5	340.4	342.3	345.7	348.0	348.5	349.7	351.0
% Ch, Annual Rate	5.3	2.2	2.3	4.1	2.7	0.5	1.4	1.5
Other Services	122.1	122.6	123.8	124.5	125.3	125.8	126.3	126.8
% Ch, Annual Rate	2.5	1.7	4.1	2.3	2.4	1.7	1.8	1.5
Federal Government	74.7	74.7	75.0	74.5	74.6	74.7	74.8	74.9
% Ch, Annual Rate	-0.7	0.0	1.5	-2.7	0.7	0.6	0.6	0.6
State and Local Government	513.8	513.7	514.7	520.0	521.7	523.6	525.8	528.2
% Ch, Annual Rate	0.5	-0.1	0.8	4.2	1.3	1.5	1.7	1.8



Table A2.4 (continued)

**Washington Nonagricultural Employment by Industry (Thousands)**

Forecast 2018 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Nonfarm Payroll Employment	3,519.4	3,538.0	3,542.9	3,551.4	3,561.1	3,570.4	3,579.6	3,588.9
% Ch, Annual Rate	1.3	2.1	0.6	1.0	1.1	1.0	1.0	1.0
Manufacturing	290.9	290.7	290.5	290.0	290.0	290.0	290.2	290.5
% Ch, Annual Rate	0.2	-0.4	-0.2	-0.7	0.0	0.0	0.3	0.4
Durable Manufacturing	204.7	204.6	204.6	204.3	204.2	204.1	204.1	204.3
% Ch, Annual Rate	0.2	-0.2	0.0	-0.6	-0.2	-0.3	0.2	0.4
Wood Products	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
% Ch, Annual Rate	-0.5	-0.8	0.0	-1.8	0.1	-0.3	0.1	0.0
Primary and Fabricated Metals	27.1	26.9	26.8	26.4	26.2	26.0	25.9	25.8
% Ch, Annual Rate	0.3	-2.0	-2.5	-4.7	-3.1	-3.4	-1.9	-1.3
Computer and Electronic Products	19.7	19.7	19.8	20.0	20.1	20.2	20.4	20.5
% Ch, Annual Rate	-0.9	0.4	2.2	2.3	3.0	2.6	2.7	2.8
Machinery and Electrical Equipment	22.2	22.4	22.6	22.7	22.8	22.9	23.1	23.2
% Ch, Annual Rate	5.6	3.8	4.1	1.1	2.7	1.5	2.8	3.4
Aerospace	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Transportation Equip.	9.2	9.0	8.8	8.8	8.6	8.6	8.5	8.4
% Ch, Annual Rate	-7.3	-7.4	-7.5	-3.0	-6.8	-2.8	-3.3	-3.6
Other Durables	28.7	28.7	28.8	28.7	28.7	28.6	28.6	28.6
% Ch, Annual Rate	0.6	0.0	0.1	-0.6	-0.2	-0.7	-0.3	0.2
Nondurable Manufacturing	86.2	86.1	85.9	85.7	85.8	85.9	86.1	86.2
% Ch, Annual Rate	0.2	-0.8	-0.7	-0.8	0.3	0.5	0.7	0.6
Food Manufacturing	38.4	38.2	38.1	38.0	38.0	38.0	38.1	38.1
% Ch, Annual Rate	0.5	-1.2	-1.1	-1.3	0.0	0.3	0.5	0.2
Paper and Paper Products	7.2	7.1	7.1	7.0	6.9	6.9	6.9	6.8
% Ch, Annual Rate	-3.0	-4.0	-4.1	-4.0	-2.7	-2.5	-2.0	-1.8
Other Nondurables	40.7	40.7	40.7	40.7	40.9	41.0	41.1	41.2
% Ch, Annual Rate	0.5	0.1	0.2	0.3	1.0	1.2	1.3	1.3
Natural Resources and Mining	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.6
% Ch, Annual Rate	0.2	2.0	1.2	0.9	0.6	0.5	0.3	0.6
Construction	215.4	215.7	215.8	215.7	215.3	215.0	214.7	214.6
% Ch, Annual Rate	-1.0	0.6	0.3	-0.2	-0.8	-0.6	-0.5	-0.2
Trade, Transportation, and Utilities	654.7	655.3	655.7	656.4	657.4	658.1	658.5	658.9
% Ch, Annual Rate	0.3	0.4	0.3	0.4	0.6	0.5	0.2	0.3
Wholesale Trade	142.1	142.2	142.4	142.5	142.6	142.6	142.6	142.6
% Ch, Annual Rate	-0.1	0.3	0.3	0.3	0.3	0.0	0.0	0.0
Retail Trade	401.3	402.0	402.4	403.0	403.9	404.8	405.2	405.8
% Ch, Annual Rate	0.7	0.6	0.4	0.6	0.9	0.8	0.5	0.5
Electronic Shopping and Mail-Order	58.9	59.6	60.2	60.8	61.4	61.9	62.4	62.9
% Ch	5.1	4.7	4.3	4.0	3.7	3.5	3.3	3.1
Other Retail Trade	342.4	342.4	342.1	342.2	342.6	342.9	342.8	342.9
% Ch	-0.1	-0.1	-0.3	0.0	0.4	0.4	0.0	0.1
Trans., Warehousing, and Utilities	111.2	111.1	111.0	110.9	110.9	110.8	110.7	110.5
% Ch, Annual Rate	-0.8	-0.5	-0.4	-0.2	-0.1	-0.4	-0.5	-0.5
Information	140.0	140.6	141.3	141.9	142.8	143.3	144.0	144.5
% Ch, Annual Rate	1.7	1.8	1.9	1.9	2.3	1.7	2.0	1.4
Software Publishers	66.7	66.9	67.1	67.4	67.7	67.9	68.2	68.5
% Ch, Annual Rate	0.8	1.3	1.5	1.5	1.6	1.6	1.7	1.8
Other Publishing Industries	4.8	4.6	4.5	4.4	4.3	4.2	4.1	4.0
% Ch, Annual Rate	-13.7	-10.5	-9.5	-9.9	-9.2	-9.2	-8.7	-8.6
Other Information	68.5	69.1	69.6	70.1	70.8	71.2	71.7	72.0
% Ch, Annual Rate	3.7	3.2	3.0	3.2	3.8	2.4	2.9	1.6
Financial Activities	162.5	162.5	162.4	162.1	161.6	161.0	160.7	160.5
% Ch, Annual Rate	0.8	0.1	-0.3	-0.6	-1.3	-1.6	-0.8	-0.3
Professional and Business Services	457.7	461.5	464.7	468.2	472.0	475.2	478.1	481.0
% Ch, Annual Rate	4.3	3.4	2.8	3.1	3.3	2.7	2.5	2.4
Education and Health Services	506.3	507.7	509.2	510.7	512.5	514.0	515.3	516.6
% Ch, Annual Rate	0.7	1.1	1.2	1.2	1.5	1.1	1.0	1.1
Leisure and Hospitality	352.2	354.0	356.4	357.7	357.9	359.2	360.6	361.7
% Ch, Annual Rate	1.4	2.1	2.7	1.5	0.2	1.5	1.5	1.3
Other Services	127.3	127.7	128.2	128.6	129.0	129.5	129.8	130.2
% Ch, Annual Rate	1.4	1.4	1.4	1.4	1.4	1.3	1.2	1.2
Federal Government	75.5	82.8	76.7	75.3	75.4	75.5	75.6	75.7
% Ch, Annual Rate	3.3	44.4	-26.3	-7.0	0.5	0.5	0.5	0.4
State and Local Government	530.6	533.0	535.5	538.1	540.6	543.0	545.5	547.9
% Ch, Annual Rate	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8

Table A2.4 (continued)

**Washington Nonagricultural Employment by Industry (Thousands)**

Forecast 2018 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Nonfarm Payroll Employment	3,598.2	3,607.5	3,616.9	3,626.2	3,635.7	3,644.5	3,652.1	3,658.6
% Ch, Annual Rate	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.7
Manufacturing	291.2	291.8	292.6	293.5	294.4	295.4	296.3	297.2
% Ch, Annual Rate	0.9	0.8	1.1	1.3	1.3	1.3	1.3	1.1
Durable Manufacturing	204.8	205.2	205.8	206.5	207.2	207.9	208.6	209.2
% Ch, Annual Rate	0.9	0.8	1.2	1.3	1.4	1.4	1.3	1.1
Wood Products	13.0	13.0	13.1	13.2	13.2	13.3	13.3	13.4
% Ch, Annual Rate	2.8	2.0	2.1	2.1	1.7	1.9	1.8	1.6
Primary and Fabricated Metals	25.8	25.8	25.9	26.1	26.3	26.5	26.7	26.9
% Ch, Annual Rate	0.1	0.4	1.5	2.5	3.3	3.4	3.3	2.8
Computer and Electronic Products	20.7	20.8	21.0	21.1	21.3	21.4	21.5	21.6
% Ch, Annual Rate	3.3	2.6	3.2	3.2	3.0	2.5	1.9	1.6
Machinery and Electrical Equipment	23.5	23.7	24.0	24.3	24.6	24.8	25.1	25.3
% Ch, Annual Rate	4.3	4.2	4.6	4.9	4.4	4.4	4.1	4.1
Aerospace	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Transportation Equip.	8.3	8.3	8.2	8.1	8.1	8.0	8.0	7.9
% Ch, Annual Rate	-3.7	-3.4	-3.1	-2.9	-2.9	-2.8	-2.5	-3.0
Other Durables	28.7	28.7	28.8	28.8	28.9	29.0	29.1	29.2
% Ch, Annual Rate	0.7	0.5	0.8	0.9	1.0	1.1	1.2	1.1
Nondurable Manufacturing	86.3	86.5	86.7	87.0	87.2	87.5	87.8	88.0
% Ch, Annual Rate	0.8	0.8	1.0	1.1	1.1	1.2	1.3	1.1
Food Manufacturing	38.2	38.2	38.3	38.3	38.4	38.5	38.6	38.6
% Ch, Annual Rate	0.5	0.4	0.5	0.7	0.7	0.8	0.9	0.9
Paper and Paper Products	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.7
% Ch, Annual Rate	-1.4	-1.4	-1.2	-1.0	-0.9	-0.6	-0.5	-0.7
Other Nondurables	41.4	41.5	41.7	41.9	42.1	42.3	42.5	42.7
% Ch, Annual Rate	1.4	1.5	1.8	1.9	1.8	1.9	1.9	1.7
Natural Resources and Mining	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
% Ch, Annual Rate	0.9	0.4	0.2	0.1	0.3	0.5	0.5	0.8
Construction	214.3	214.0	213.7	213.4	213.0	212.7	212.3	212.0
% Ch, Annual Rate	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7
Trade, Transportation, and Utilities	658.9	659.2	659.4	659.7	659.7	659.9	660.0	659.9
% Ch, Annual Rate	0.0	0.2	0.1	0.2	0.0	0.1	0.0	-0.1
Wholesale Trade	142.7	142.7	142.8	142.8	142.9	142.9	142.9	142.9
% Ch, Annual Rate	0.2	0.1	0.2	0.1	0.3	0.0	0.0	-0.1
Retail Trade	405.8	406.2	406.4	406.8	406.8	407.1	407.3	407.4
% Ch, Annual Rate	0.0	0.4	0.2	0.3	0.0	0.4	0.2	0.1
Electronic Shopping and Mail-Order	63.3	63.8	64.2	64.6	65.0	65.4	65.8	66.2
% Ch	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3
Other Retail Trade	342.5	342.4	342.3	342.2	341.7	341.7	341.5	341.2
% Ch	-0.5	-0.1	-0.2	-0.1	-0.5	0.0	-0.2	-0.3
Trans., Warehousing, and Utilities	110.4	110.3	110.2	110.1	110.0	109.9	109.7	109.6
% Ch, Annual Rate	-0.3	-0.4	-0.4	-0.4	-0.3	-0.5	-0.5	-0.5
Information	145.3	145.9	146.3	146.6	147.2	147.7	148.1	148.5
% Ch, Annual Rate	2.2	1.6	1.2	0.9	1.5	1.3	1.2	1.1
Software Publishers	68.9	69.2	69.5	69.8	70.1	70.5	70.8	71.2
% Ch, Annual Rate	1.9	1.8	1.8	1.9	1.9	2.0	2.0	2.1
Other Publishing Industries	3.9	3.9	3.8	3.7	3.6	3.6	3.5	3.4
% Ch, Annual Rate	-7.7	-8.2	-8.2	-8.1	-7.5	-7.4	-6.8	-6.6
Other Information	72.5	72.9	73.1	73.1	73.4	73.6	73.8	73.9
% Ch, Annual Rate	3.2	1.8	1.0	0.4	1.5	1.2	0.8	0.5
Financial Activities	160.4	160.1	159.8	159.5	159.3	158.9	158.6	158.3
% Ch, Annual Rate	-0.3	-0.8	-0.8	-0.7	-0.5	-0.9	-0.8	-0.9
Professional and Business Services	484.4	487.7	491.4	495.3	499.7	503.2	506.1	508.5
% Ch, Annual Rate	2.8	2.8	3.1	3.2	3.6	2.9	2.3	1.9
Education and Health Services	518.3	519.7	521.2	522.6	524.1	525.3	526.3	527.2
% Ch, Annual Rate	1.3	1.1	1.1	1.0	1.2	0.9	0.8	0.7
Leisure and Hospitality	362.2	363.1	363.8	364.4	364.4	365.0	365.6	366.1
% Ch, Annual Rate	0.5	1.0	0.8	0.7	0.0	0.7	0.7	0.6
Other Services	130.6	130.9	131.3	131.6	131.9	132.2	132.5	132.8
% Ch, Annual Rate	1.2	1.1	1.0	1.0	1.0	0.9	0.8	0.8
Federal Government	75.8	75.8	75.9	76.0	76.1	76.1	76.2	76.3
% Ch, Annual Rate	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3
State and Local Government	550.3	552.7	554.9	557.1	559.3	561.4	563.4	565.3
% Ch, Annual Rate	1.8	1.7	1.6	1.6	1.6	1.5	1.4	1.4

Table A3.1

**U.S. Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Personal Income	16,125.1	16,830.9	17,584.6	18,346.9	19,167.3	19,994.9	20,851.3	21,783.6
% Ch	2.6	4.4	4.5	4.3	4.5	4.3	4.3	4.5
Total Wage and Salary Disbursements	8,080.7	8,453.8	8,854.8	9,246.2	9,636.7	10,046.3	10,506.0	11,013.1
% Ch	2.9	4.6	4.7	4.4	4.2	4.3	4.6	4.8
Nonwage Personal Income	8,044.5	8,377.1	8,729.9	9,100.7	9,530.6	9,948.6	10,345.3	10,770.5
% Ch	2.3	4.1	4.2	4.2	4.7	4.4	4.0	4.1
Supplements to Wages and Salaries	1,875.6	1,953.4	2,022.4	2,094.5	2,186.8	2,279.8	2,377.2	2,475.0
% Ch	1.8	4.1	3.5	3.6	4.4	4.3	4.3	4.1
Proprietor's Income	1,419.3	1,500.9	1,571.7	1,624.9	1,651.0	1,670.3	1,672.3	1,687.4
% Ch	-0.2	5.8	4.7	3.4	1.6	1.2	0.1	0.9
Farm	37.5	38.9	32.3	35.9	64.2	81.7	73.3	68.9
% Ch	...	...	...	...	...	...	...	...
Nonfarm	1,381.8	1,462.0	1,539.5	1,589.0	1,586.8	1,588.6	1,599.0	1,618.4
% Ch	1.2	5.8	5.3	3.2	-0.1	0.1	0.7	1.2
Less: Contribution For Govt. Soc. Ins.	1,239.9	1,298.6	1,364.2	1,418.5	1,471.9	1,530.8	1,598.3	1,673.4
% Ch	2.9	4.7	5.1	4.0	3.8	4.0	4.4	4.7
Dividends/Int./Rent	3,211.4	3,361.8	3,518.5	3,678.4	3,888.2	4,088.3	4,286.3	4,490.1
% Ch	2.8	4.7	4.7	4.5	5.7	5.1	4.8	4.8
Transfer Payments	2,778.1	2,859.7	2,981.4	3,121.4	3,276.5	3,441.0	3,607.6	3,791.4
% Ch	3.5	2.9	4.3	4.7	5.0	5.0	4.8	5.1

Table A3.2

**U.S. Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Personal Income	17,319.2	17,499.8	17,680.2	17,839.4	18,030.7	18,246.1	18,454.0	18,656.7
% Ch, Annual Rate	5.2	4.2	4.2	3.6	4.4	4.9	4.6	4.5
Total Wage and Salary Disbursements	8,710.6	8,806.2	8,905.0	8,997.3	9,094.4	9,197.2	9,297.7	9,395.4
% Ch, Annual Rate	5.8	4.5	4.6	4.2	4.4	4.6	4.4	4.3
Nonwage Personal Income	8,608.5	8,693.7	8,775.2	8,842.1	8,936.3	9,048.8	9,156.3	9,261.2
% Ch, Annual Rate	4.5	4.0	3.8	3.1	4.3	5.1	4.8	4.7
Supplements to Wages and Salaries	1,999.4	2,014.5	2,029.8	2,045.7	2,060.9	2,083.2	2,105.7	2,128.2
% Ch, Annual Rate	3.9	3.0	3.1	3.2	3.0	4.4	4.4	4.3
Proprietor's Income	1,549.9	1,568.5	1,580.5	1,588.1	1,607.8	1,620.7	1,631.8	1,639.4
% Ch, Annual Rate	6.4	4.9	3.1	2.0	5.0	3.3	2.8	1.9
Farm	35.2	37.0	29.0	27.8	29.9	32.7	37.4	43.6
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,514.7	1,531.5	1,551.5	1,560.3	1,577.9	1,588.0	1,594.4	1,595.8
% Ch, Annual Rate	6.6	4.5	5.3	2.3	4.6	2.6	1.6	0.3
Less: Contribution For Govt. Soc. Ins.	1,343.6	1,357.1	1,370.9	1,385.3	1,400.8	1,412.7	1,424.5	1,436.1
% Ch, Annual Rate	8.2	4.1	4.1	4.3	4.5	3.4	3.4	3.3
Dividends/Int./Rent	3,468.8	3,502.0	3,537.7	3,565.6	3,593.3	3,652.7	3,706.9	3,760.7
% Ch, Annual Rate	3.6	3.9	4.1	3.2	3.1	6.8	6.1	5.9
Transfer Payments	2,933.9	2,965.8	2,998.1	3,027.9	3,075.1	3,104.9	3,136.4	3,169.0
% Ch, Annual Rate	6.6	4.4	4.4	4.0	6.4	3.9	4.1	4.2

Table A3.2 (continued)

**U.S. Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Personal Income	18,866.9	19,073.1	19,266.8	19,462.5	19,688.1	19,892.4	20,095.9	20,303.4
% Ch, Annual Rate	4.6	4.4	4.1	4.1	4.7	4.2	4.2	4.2
Total Wage and Salary Disbursements	9,490.8	9,595.1	9,682.5	9,778.3	9,883.5	9,990.3	10,099.5	10,211.9
% Ch, Annual Rate	4.1	4.5	3.7	4.0	4.4	4.4	4.4	4.5
Nonwage Personal Income	9,376.1	9,478.0	9,584.2	9,684.2	9,804.6	9,902.0	9,996.3	10,091.5
% Ch, Annual Rate	5.1	4.4	4.6	4.2	5.1	4.0	3.9	3.9
Supplements to Wages and Salaries	2,153.3	2,177.3	2,197.5	2,219.1	2,245.1	2,268.1	2,291.3	2,314.8
% Ch, Annual Rate	4.8	4.5	3.8	4.0	4.8	4.2	4.1	4.2
Proprietor's Income	1,641.8	1,645.4	1,655.7	1,661.1	1,667.5	1,670.4	1,671.2	1,672.3
% Ch, Annual Rate	0.6	0.9	2.5	1.3	1.6	0.7	0.2	0.3
Farm	51.4	59.8	69.8	75.8	80.9	83.1	82.5	80.3
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,590.4	1,585.6	1,585.9	1,585.3	1,586.6	1,587.3	1,588.6	1,591.9
% Ch, Annual Rate	-1.4	-1.2	0.1	-0.2	0.3	0.2	0.3	0.8
Less: Contribution For Govt. Soc. Ins.	1,453.8	1,466.6	1,477.4	1,489.5	1,509.7	1,523.5	1,537.7	1,552.4
% Ch, Annual Rate	5.0	3.6	3.0	3.3	5.5	3.7	3.8	3.9
Dividends/Int./Rent	3,811.7	3,863.0	3,914.7	3,963.4	4,014.2	4,064.4	4,112.8	4,161.8
% Ch, Annual Rate	5.5	5.5	5.5	5.1	5.2	5.1	4.8	4.9
Transfer Payments	3,223.2	3,258.9	3,293.7	3,330.2	3,387.5	3,422.7	3,458.8	3,495.0
% Ch, Annual Rate	7.0	4.5	4.3	4.5	7.1	4.2	4.3	4.3

Table A3.2 (continued)

**U.S. Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Personal Income	20,530.0	20,739.0	20,957.5	21,178.6	21,435.3	21,670.2	21,901.5	22,127.5
% Ch, Annual Rate	4.5	4.1	4.3	4.3	4.9	4.5	4.3	4.2
Total Wage and Salary Disbursements	10,326.5	10,443.0	10,564.8	10,689.7	10,819.4	10,949.6	11,078.5	11,205.0
% Ch, Annual Rate	4.6	4.6	4.7	4.8	4.9	4.9	4.8	4.6
Nonwage Personal Income	10,203.5	10,296.0	10,392.7	10,488.8	10,615.9	10,720.6	10,823.0	10,922.5
% Ch, Annual Rate	4.5	3.7	3.8	3.8	4.9	4.0	3.9	3.7
Supplements to Wages and Salaries	2,341.8	2,365.3	2,389.1	2,412.8	2,439.8	2,463.3	2,486.8	2,510.2
% Ch, Annual Rate	4.7	4.1	4.1	4.0	4.6	3.9	3.9	3.8
Proprietor's Income	1,670.0	1,670.4	1,673.3	1,675.7	1,679.0	1,683.8	1,689.9	1,696.7
% Ch, Annual Rate	-0.5	0.1	0.7	0.6	0.8	1.2	1.5	1.6
Farm	77.4	74.4	71.8	69.9	68.7	68.4	68.8	69.9
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,592.6	1,596.0	1,601.5	1,605.8	1,610.3	1,615.5	1,621.1	1,626.9
% Ch, Annual Rate	0.2	0.9	1.4	1.1	1.1	1.3	1.4	1.4
Less: Contribution For Govt. Soc. Ins.	1,574.4	1,589.8	1,606.0	1,622.7	1,647.4	1,664.9	1,682.2	1,699.1
% Ch, Annual Rate	5.8	4.0	4.1	4.2	6.2	4.3	4.2	4.1
Dividends/Int./Rent	4,210.3	4,259.8	4,311.7	4,363.5	4,416.3	4,468.1	4,516.2	4,559.9
% Ch, Annual Rate	4.7	4.8	5.0	4.9	4.9	4.8	4.4	3.9
Transfer Payments	3,555.9	3,590.3	3,624.7	3,659.6	3,728.2	3,770.2	3,812.3	3,854.8
% Ch, Annual Rate	7.1	3.9	3.9	3.9	7.7	4.6	4.5	4.5

Table A3.3

**Washington Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Personal Income	404.232	428.765	458.160	479.863	503.843	527.783	552.767	579.828
% Ch	5.1	6.1	6.9	4.7	5.0	4.8	4.7	4.9
Total Wage and Salary Disbursements	203.300	218.077	238.016	249.453	261.123	272.928	286.116	300.711
% Ch	6.1	7.3	9.1	4.8	4.7	4.5	4.8	5.1
Manufacturing	21.729	21.691	22.707	23.282	24.047	24.853	25.947	27.264
% Ch	-0.3	-0.2	4.7	2.5	3.3	3.4	4.4	5.1
Durable Manufacturing	17.316	17.080	17.858	18.255	18.869	19.497	20.345	21.371
% Ch	-1.6	-1.4	4.6	2.2	3.4	3.3	4.4	5.0
Nondurable Manufacturing	4.413	4.611	4.849	5.027	5.177	5.356	5.602	5.892
% Ch	4.8	4.5	5.1	3.7	3.0	3.5	4.6	5.2
Nonmanufacturing	174.575	189.496	208.107	218.674	229.283	239.983	251.758	264.700
% Ch	7.1	8.5	9.8	5.1	4.9	4.7	4.9	5.1
Other Private Wages	1.193	1.232	1.399	1.477	1.535	1.592	1.655	1.723
% Ch	4.1	3.3	13.5	5.6	3.9	3.7	4.0	4.1
Farm Wages	1.700	1.467	1.514	1.615	1.716	1.818	1.931	2.053
% Ch	11.5	-13.7	3.2	6.7	6.3	5.9	6.2	6.3
Military Wages	4.103	4.190	4.290	4.406	4.543	4.683	4.825	4.971
% Ch	0.1	2.1	2.4	2.7	3.1	3.1	3.0	3.0
Nonwage Personal Income	200.932	210.688	220.144	230.410	242.720	254.855	266.650	279.117
% Ch	4.1	4.9	4.5	4.7	5.3	5.0	4.6	4.7
Supplements to Wages and Salaries	46.393	48.687	51.300	53.287	55.780	58.256	60.882	63.574
% Ch	5.6	4.9	5.4	3.9	4.7	4.4	4.5	4.4
Proprietor's Income	32.419	35.590	37.234	37.964	38.233	38.522	38.574	38.887
% Ch	-0.2	9.8	4.6	2.0	0.7	0.8	0.1	0.8
Farm	2.016	1.922	1.638	1.189	1.557	1.848	1.706	1.632
% Ch	...	...	...	...	...	...	...	...
Nonfarm	30.403	33.668	35.596	36.774	36.676	36.674	36.868	37.255
% Ch	3.1	10.7	5.7	3.3	-0.3	0.0	0.5	1.1
Less: Contribution For Govt. Soc. Ins.	33.509	36.007	38.830	40.394	41.969	43.635	45.545	47.690
% Ch	4.4	7.5	7.8	4.0	3.9	4.0	4.4	4.7
Plus: Residence Adjustment	4.190	4.301	4.463	4.702	4.930	5.170	5.439	5.736
% Ch	7.8	2.7	3.8	5.3	4.9	4.9	5.2	5.5
Dividends/Int./Rent	91.551	96.125	101.051	106.460	113.398	120.014	126.531	133.195
% Ch	3.8	5.0	5.1	5.4	6.5	5.8	5.4	5.3
Transfer Payments	59.888	61.992	64.925	68.392	72.348	76.527	80.770	85.415
% Ch	5.8	3.5	4.7	5.3	5.8	5.8	5.5	5.8
State U.I. Benefits	0.982	0.975	0.959	0.780	0.964	1.168	1.288	1.367
% Ch	1.2	-0.7	-1.7	-18.7	23.6	21.2	10.3	6.2
Other Transfers	58.906	61.016	63.967	67.612	71.384	75.359	79.482	84.048
% Ch	5.9	3.6	4.8	5.7	5.6	5.6	5.5	5.7



Table A3.4

**Washington Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Personal Income	451.436	454.689	460.651	465.865	470.852	476.980	482.861	488.761
% Ch, Annual Rate	12.2	2.9	5.3	4.6	4.4	5.3	5.0	5.0
Total Wage and Salary Disbursements	234.527	235.753	239.315	242.470	245.094	248.073	250.891	253.755
% Ch, Annual Rate	21.2	2.1	6.2	5.4	4.4	5.0	4.6	4.6
Manufacturing	23.408	22.098	22.530	22.792	22.983	23.186	23.363	23.596
% Ch, Annual Rate	32.1	-20.6	8.1	4.7	3.4	3.6	3.1	4.0
Durable Manufacturing	18.597	17.287	17.671	17.877	18.012	18.181	18.323	18.506
% Ch, Annual Rate	37.6	-25.3	9.2	4.8	3.0	3.8	3.2	4.1
Nondurable Manufacturing	4.810	4.811	4.859	4.915	4.971	5.004	5.041	5.090
% Ch, Annual Rate	13.5	0.0	4.1	4.7	4.7	2.7	2.9	3.9
Nonmanufacturing	204.045	206.469	209.535	212.377	214.722	217.423	219.989	222.561
% Ch, Annual Rate	20.7	4.8	6.1	5.5	4.5	5.1	4.8	4.8
Other Private Wages	1.326	1.408	1.423	1.439	1.453	1.470	1.485	1.500
% Ch, Annual Rate	13.1	27.3	4.1	4.7	4.0	4.7	4.2	4.0
Farm Wages	1.487	1.497	1.522	1.549	1.574	1.602	1.628	1.654
% Ch, Annual Rate	3.4	3.0	6.6	7.5	6.6	7.4	6.7	6.4
Military Wages	4.261	4.281	4.305	4.313	4.361	4.392	4.425	4.445
% Ch, Annual Rate	3.4	1.8	2.3	0.7	4.6	2.8	3.1	1.8
Nonwage Personal Income	216.909	218.936	221.336	223.395	225.757	228.907	231.970	235.006
% Ch, Annual Rate	3.3	3.8	4.5	3.8	4.3	5.7	5.5	5.3
Supplements to Wages and Salaries	50.955	50.861	51.400	51.983	52.405	52.997	53.576	54.171
% Ch, Annual Rate	11.7	-0.7	4.3	4.6	3.3	4.6	4.4	4.5
Proprietor's Income	36.592	37.186	37.491	37.668	37.777	37.901	38.042	38.135
% Ch, Annual Rate	4.0	6.7	3.3	1.9	1.2	1.3	1.5	1.0
Farm	1.621	1.835	1.601	1.495	1.232	1.141	1.155	1.229
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	34.970	35.350	35.890	36.173	36.545	36.760	36.887	36.906
% Ch, Annual Rate	6.4	4.4	6.2	3.2	4.2	2.4	1.4	0.2
Less: Contribution For Govt. Soc. Ins.	38.485	38.436	38.931	39.467	39.885	40.234	40.561	40.897
% Ch, Annual Rate	18.2	-0.5	5.3	5.6	4.3	3.5	3.3	3.4
Plus: Residence Adjustment	4.350	4.445	4.502	4.556	4.613	4.673	4.732	4.789
% Ch, Annual Rate	-3.2	9.0	5.3	4.9	5.1	5.3	5.1	4.9
Dividends/Int./Rent	99.548	100.380	101.625	102.653	103.672	105.606	107.392	109.169
% Ch, Annual Rate	3.6	3.4	5.1	4.1	4.0	7.7	6.9	6.8
Transfer Payments	63.950	64.502	65.249	66.001	67.175	67.964	68.789	69.638
% Ch, Annual Rate	4.8	3.5	4.7	4.7	7.3	4.8	4.9	5.0
State U.I. Benefits	1.022	0.979	0.917	0.917	0.804	0.759	0.763	0.793
% Ch, Annual Rate	22.0	-15.7	-23.1	0.0	-41.0	-20.4	2.1	16.6
Other Transfers	62.928	63.522	64.332	65.084	66.372	67.205	68.026	68.845
% Ch, Annual Rate	4.5	3.8	5.2	4.8	8.2	5.1	5.0	4.9

Table A3.4 (continued)

**Washington Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Personal Income	494.907	501.221	506.752	512.492	518.928	524.792	530.694	536.718
% Ch, Annual Rate	5.1	5.2	4.5	4.6	5.1	4.6	4.6	4.6
Total Wage and Salary Disbursements	256.665	260.013	262.497	265.319	268.361	271.338	274.421	277.592
% Ch, Annual Rate	4.7	5.3	3.9	4.4	4.7	4.5	4.6	4.7
Manufacturing	23.790	23.962	24.135	24.300	24.508	24.722	24.963	25.217
% Ch, Annual Rate	3.3	2.9	2.9	2.8	3.5	3.5	4.0	4.1
Durable Manufacturing	18.659	18.800	18.943	19.076	19.235	19.397	19.579	19.775
% Ch, Annual Rate	3.3	3.1	3.1	2.8	3.4	3.4	3.8	4.1
Nondurable Manufacturing	5.131	5.162	5.192	5.224	5.272	5.326	5.384	5.442
% Ch, Annual Rate	3.3	2.4	2.3	2.5	3.8	4.1	4.4	4.4
Nonmanufacturing	225.185	228.286	230.531	233.129	235.869	238.559	241.325	244.179
% Ch, Annual Rate	4.8	5.6	4.0	4.6	4.8	4.6	4.7	4.8
Other Private Wages	1.514	1.530	1.541	1.555	1.570	1.584	1.599	1.615
% Ch, Annual Rate	3.8	4.4	3.0	3.5	3.9	3.7	3.8	3.9
Farm Wages	1.679	1.707	1.728	1.752	1.778	1.804	1.831	1.858
% Ch, Annual Rate	6.1	6.9	5.0	5.7	6.2	6.0	6.1	6.1
Military Wages	4.498	4.528	4.562	4.583	4.637	4.668	4.703	4.724
% Ch, Annual Rate	4.8	2.7	3.1	1.9	4.8	2.7	3.0	1.8
Nonwage Personal Income	238.243	241.208	244.255	247.173	250.567	253.454	256.273	259.126
% Ch, Annual Rate	5.6	5.1	5.1	4.9	5.6	4.7	4.5	4.5
Supplements to Wages and Salaries	54.865	55.545	56.066	56.642	57.350	57.946	58.555	59.174
% Ch, Annual Rate	5.2	5.1	3.8	4.2	5.1	4.2	4.3	4.3
Proprietor's Income	38.114	38.139	38.301	38.379	38.480	38.519	38.530	38.559
% Ch, Annual Rate	-0.2	0.3	1.7	0.8	1.1	0.4	0.1	0.3
Farm	1.348	1.484	1.649	1.749	1.835	1.871	1.861	1.824
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	36.766	36.655	36.651	36.630	36.645	36.648	36.669	36.735
% Ch, Annual Rate	-1.5	-1.2	0.0	-0.2	0.2	0.0	0.2	0.7
Less: Contribution For Govt. Soc. Ins.	41.426	41.841	42.131	42.478	43.056	43.431	43.823	44.230
% Ch, Annual Rate	5.3	4.1	2.8	3.3	5.6	3.5	3.7	3.8
Plus: Residence Adjustment	4.845	4.906	4.957	5.013	5.075	5.137	5.201	5.267
% Ch, Annual Rate	4.7	5.1	4.2	4.6	5.0	5.0	5.1	5.2
Dividends/Int./Rent	110.863	112.564	114.272	115.891	117.567	119.224	120.824	122.441
% Ch, Annual Rate	6.4	6.3	6.2	5.8	5.9	5.8	5.5	5.5
Transfer Payments	70.981	71.895	72.790	73.725	75.150	76.059	76.986	77.914
% Ch, Annual Rate	7.9	5.2	5.1	5.2	8.0	4.9	5.0	4.9
State U.I. Benefits	0.869	0.919	1.009	1.058	1.100	1.151	1.193	1.228
% Ch, Annual Rate	44.4	24.9	45.1	21.3	16.6	19.9	15.3	12.2
Other Transfers	70.112	70.976	71.781	72.667	74.050	74.908	75.793	76.686
% Ch, Annual Rate	7.6	5.0	4.6	5.0	7.8	4.7	4.8	4.8

Table A3.4 (continued)

**Washington Personal Income by Component (Billions of Dollars)**

Forecast 2018 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Personal Income	543.331	549.488	555.893	562.354	569.761	576.565	583.240	589.748
% Ch, Annual Rate	5.0	4.6	4.7	4.7	5.4	4.9	4.7	4.5
Total Wage and Salary Disbursements	280.966	284.321	287.809	291.370	295.171	298.898	302.580	306.195
% Ch, Annual Rate	5.0	4.9	5.0	5.0	5.3	5.1	5.0	4.9
Manufacturing	25.500	25.784	26.091	26.414	26.749	27.091	27.437	27.778
% Ch, Annual Rate	4.6	4.5	4.9	5.0	5.2	5.2	5.2	5.1
Durable Manufacturing	19.997	20.217	20.457	20.710	20.971	21.238	21.506	21.770
% Ch, Annual Rate	4.6	4.5	4.8	5.0	5.1	5.2	5.1	5.0
Nondurable Manufacturing	5.503	5.566	5.633	5.704	5.777	5.853	5.931	6.008
% Ch, Annual Rate	4.6	4.7	4.9	5.1	5.2	5.4	5.4	5.3
Nonmanufacturing	247.169	250.164	253.265	256.433	259.795	263.098	266.352	269.555
% Ch, Annual Rate	5.0	4.9	5.0	5.1	5.3	5.2	5.0	4.9
Other Private Wages	1.631	1.647	1.663	1.680	1.698	1.715	1.732	1.749
% Ch, Annual Rate	4.1	4.0	4.1	4.1	4.3	4.1	4.0	3.9
Farm Wages	1.887	1.916	1.945	1.975	2.007	2.038	2.069	2.099
% Ch, Annual Rate	6.4	6.2	6.3	6.3	6.6	6.3	6.2	5.9
Military Wages	4.778	4.810	4.845	4.868	4.922	4.955	4.991	5.015
% Ch, Annual Rate	4.7	2.7	2.9	1.8	4.6	2.7	2.9	1.9
Nonwage Personal Income	262.365	265.168	268.084	270.984	274.590	277.668	280.659	283.553
% Ch, Annual Rate	5.1	4.3	4.5	4.4	5.4	4.6	4.4	4.2
Supplements to Wages and Salaries	59.924	60.559	61.201	61.842	62.610	63.256	63.896	64.534
% Ch, Annual Rate	5.2	4.3	4.3	4.3	5.1	4.2	4.1	4.1
Proprietor's Income	38.515	38.532	38.599	38.651	38.719	38.816	38.938	39.076
% Ch, Annual Rate	-0.5	0.2	0.7	0.5	0.7	1.0	1.3	1.4
Farm	1.775	1.724	1.680	1.647	1.627	1.622	1.630	1.647
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	36.740	36.808	36.919	37.004	37.091	37.194	37.308	37.428
% Ch, Annual Rate	0.1	0.7	1.2	0.9	0.9	1.1	1.2	1.3
Less: Contribution For Govt. Soc. Ins.	44.871	45.308	45.766	46.236	46.956	47.452	47.939	48.412
% Ch, Annual Rate	5.9	4.0	4.1	4.2	6.4	4.3	4.2	4.0
Plus: Residence Adjustment	5.334	5.403	5.474	5.547	5.623	5.699	5.775	5.849
% Ch, Annual Rate	5.2	5.2	5.4	5.5	5.6	5.5	5.4	5.2
Dividends/Int./Rent	124.039	125.666	127.362	129.055	130.778	132.469	134.044	135.488
% Ch, Annual Rate	5.3	5.3	5.5	5.4	5.4	5.3	4.8	4.4
Transfer Payments	79.423	80.317	81.215	82.125	83.816	84.880	85.945	87.019
% Ch, Annual Rate	8.0	4.6	4.5	4.6	8.5	5.2	5.1	5.1
State U.I. Benefits	1.257	1.282	1.299	1.313	1.321	1.339	1.377	1.433
% Ch, Annual Rate	9.8	8.3	5.3	4.3	2.4	5.5	12.1	17.2
Other Transfers	78.167	79.034	79.916	80.812	82.496	83.542	84.568	85.586
% Ch, Annual Rate	7.9	4.5	4.5	4.6	8.6	5.2	5.0	4.9