



# **ECONOMIC FORECAST**

## Calendar Year Summary Tables

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Final  
***June 19, 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 2009 Dollars)</b>								
Real Gross Domestic Product	16,716.2	17,096.2	17,588.1	18,040.3	18,381.9	18,739.6	19,127.0	19,520.1
% Ch	1.5	2.3	2.9	2.6	1.9	1.9	2.1	2.1
Real Consumption	11,572.1	11,890.7	12,194.7	12,488.1	12,732.1	12,992.2	13,269.6	13,557.1
% Ch	2.7	2.8	2.6	2.4	2.0	2.0	2.1	2.2
Real Nonresidential Fixed Investment	2,210.4	2,314.2	2,445.7	2,583.9	2,727.4	2,878.8	3,010.7	3,120.3
% Ch	-0.6	4.7	5.7	5.7	5.6	5.6	4.6	3.6
Real Residential Fixed Investment	587.4	597.9	605.1	620.4	646.1	670.7	690.9	702.9
% Ch	5.5	1.8	1.2	2.5	4.1	3.8	3.0	1.7
Real Personal Income	14,377.4	14,582.9	14,870.1	15,292.5	15,677.5	16,062.3	16,461.3	16,875.8
% Ch	1.2	1.4	2.0	2.8	2.5	2.5	2.5	2.5
Real Per Capita Income (\$/Person)	44,420	44,744	45,285	46,242	47,072	47,891	48,743	49,633
% Ch	0.5	0.7	1.2	2.1	1.8	1.7	1.8	1.8
<b>Price and Wage Indexes</b>								
PCE Price Index (2009=100)	110.8	112.7	115.0	117.3	119.7	122.1	124.6	127.2
% Ch	1.2	1.7	2.1	1.9	2.1	2.0	2.1	2.1
U.S. Consumer Price Index (1982-84=1.0)	2.400	2.451	2.513	2.562	2.617	2.671	2.729	2.787
% Ch	1.3	2.1	2.5	1.9	2.1	2.1	2.1	2.2
Employment Cost Index (Dec. 2005=1.0)	1.262	1.295	1.339	1.383	1.429	1.482	1.539	1.598
% Ch	2.4	2.6	3.4	3.3	3.3	3.7	3.8	3.9
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	18,624.5	19,390.6	20,355.3	21,397.8	22,369.6	23,360.8	24,394.1	25,440.0
% Ch	2.8	4.1	5.0	5.1	4.5	4.4	4.4	4.3
Personal Income	15,928.7	16,429.1	17,104.5	17,932.3	18,765.3	19,617.6	20,518.4	21,468.1
% Ch	2.4	3.1	4.1	4.8	4.6	4.5	4.6	4.6
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	159.2	160.3	162.0	163.7	165.2	166.4	167.3	168.3
Total U.S. Employment	151.4	153.3	155.8	157.8	159.1	160.0	160.7	161.3
Unemployment Rate (%)	4.87	4.35	3.84	3.57	3.69	3.83	3.99	4.12
Nonfarm Payroll Employment	144.35	146.62	148.91	150.91	152.32	153.28	154.07	154.78
% Ch	1.8	1.6	1.6	1.3	0.9	0.6	0.5	0.5
Manufacturing	12.35	12.44	12.71	12.87	12.93	12.96	12.90	12.84
% Ch	0.1	0.7	2.1	1.3	0.4	0.2	-0.4	-0.5
Durable Manufacturing	7.71	7.74	7.93	8.05	8.12	8.16	8.14	8.11
% Ch	-0.7	0.3	2.5	1.5	0.8	0.5	-0.2	-0.4
Nondurable Manufacturing	4.64	4.71	4.77	4.81	4.81	4.80	4.76	4.73
% Ch	1.5	1.4	1.4	0.9	-0.2	-0.2	-0.7	-0.7
Construction	6.73	6.95	7.22	7.48	7.87	8.27	8.57	8.79
% Ch	4.1	3.4	3.8	3.7	5.1	5.1	3.7	2.5
Service-Providing	124.60	126.55	128.25	129.78	130.74	131.26	131.79	132.34
% Ch	2.0	1.6	1.3	1.2	0.7	0.4	0.4	0.4
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	43.2	51.0	65.3	63.0	59.8	57.4	55.6	54.5
Personal Saving/Disposable Income (%)	4.9	3.4	2.8	3.3	3.7	3.9	3.9	4.0
Auto Sales (Millions)	6.9	6.1	5.4	5.3	5.3	5.3	5.3	5.5
% Ch	-8.6	-11.3	-10.9	-3.0	-0.3	0.9	0.4	3.4
Housing Starts (Millions)	1.177	1.208	1.322	1.376	1.442	1.463	1.488	1.483
% Ch	6.4	2.6	9.4	4.1	4.8	1.4	1.7	-0.3
Federal Budget Surplus (Billions)	-697.3	-664.4	-964.3	-1,102.7	-1,190.7	-1,226.6	-1,248.3	-1,261.1
Net Exports (Billions)	-521.2	-571.6	-642.5	-620.2	-597.3	-603.3	-622.4	-634.0
3-Month Treasury Bill Rate (%)	0.32	0.93	1.94	2.70	3.15	3.18	3.18	3.04
10-Year Treasury Note Yield (%)	1.84	2.33	2.93	3.43	3.68	3.73	3.65	3.55
Bond Index of 20 G.O. Munis. (%)	3.27	3.67	3.89	4.32	4.54	4.56	4.47	4.36
30-Year Fixed Mortgage Rate (%)	3.65	3.99	4.51	5.03	5.30	5.35	5.31	5.23

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 2009 Dollars)</b>								
Real Gross Domestic Product	17,379.7	17,530.4	17,660.3	17,782.0	17,886.4	17,995.5	18,096.0	18,183.4
% Ch , Annual Rate	2.2	3.5	3.0	2.8	2.4	2.5	2.3	1.9
Real Consumption	12,065.9	12,157.3	12,239.0	12,316.6	12,390.1	12,459.3	12,524.3	12,578.9
% Ch , Annual Rate	1.0	3.1	2.7	2.6	2.4	2.3	2.1	1.8
Real Nonresidential Fixed Investment	2,418.2	2,420.7	2,456.3	2,487.7	2,520.7	2,564.0	2,605.5	2,645.6
% Ch , Annual Rate	9.2	0.4	6.0	5.2	5.4	7.1	6.6	6.3
Real Residential Fixed Investment	601.9	603.4	606.7	608.5	611.6	616.7	622.9	630.5
% Ch , Annual Rate	-2.0	1.0	2.2	1.2	2.0	3.4	4.0	5.0
Real Personal Income	14,748.8	14,820.5	14,897.5	15,013.5	15,151.0	15,245.8	15,340.5	15,432.8
% Ch , Annual Rate	1.7	2.0	2.1	3.1	3.7	2.5	2.5	2.4
Real Per Capita Income (\$/Person)	45,030	45,177	45,330	45,601	45,937	46,142	46,346	46,542
% Ch , Annual Rate	0.9	1.3	1.4	2.4	3.0	1.8	1.8	1.7
<b>Price and Wage Indexes</b>								
PCE Price Index (2009=100)	114.2	114.7	115.3	115.9	116.4	116.9	117.5	118.2
% Ch , Annual Rate	2.6	2.0	2.0	2.0	1.8	2.0	2.1	2.2
U.S. Consumer Price Index (1982-84=1.0)	2.494	2.506	2.520	2.532	2.542	2.554	2.568	2.583
% Ch , Annual Rate	3.5	1.9	2.3	1.9	1.5	1.9	2.2	2.5
Employment Cost Index (Dec. 2005=1.0)	1.320	1.333	1.345	1.357	1.368	1.378	1.388	1.399
% Ch , Annual Rate	4.0	4.0	3.8	3.5	3.1	3.0	3.1	3.2
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	19,956.8	20,229.3	20,484.3	20,750.8	21,014.7	21,276.1	21,529.6	21,770.9
% Ch , Annual Rate	4.2	5.6	5.1	5.3	5.2	5.1	4.9	4.6
Personal Income	16,839.8	17,004.2	17,178.0	17,395.8	17,632.0	17,828.6	18,030.7	18,238.0
% Ch , Annual Rate	4.3	4.0	4.2	5.2	5.5	4.5	4.6	4.7
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	161.6	161.6	162.2	162.6	163.0	163.5	163.9	164.3
Total U.S. Employment	154.9	155.4	156.0	156.7	157.2	157.7	158.0	158.4
Unemployment Rate (%)	4.10	3.86	3.77	3.64	3.57	3.56	3.56	3.59
Nonfarm Payroll Employment	148.07	148.59	149.20	149.79	150.27	150.73	151.14	151.50
% Ch , Annual Rate	1.7	1.4	1.7	1.6	1.3	1.2	1.1	0.9
Manufacturing	12.61	12.68	12.74	12.80	12.85	12.85	12.87	12.90
% Ch , Annual Rate	2.7	2.3	1.9	2.2	1.3	0.2	0.6	0.8
Durable Manufacturing	7.86	7.92	7.95	8.00	8.03	8.04	8.06	8.08
% Ch , Annual Rate	3.6	2.9	1.8	2.4	1.6	0.3	0.9	1.3
Nondurable Manufacturing	4.74	4.76	4.78	4.80	4.81	4.81	4.82	4.82
% Ch , Annual Rate	1.2	1.2	2.0	1.8	0.8	0.0	0.2	0.1
Construction	7.14	7.20	7.24	7.29	7.36	7.44	7.52	7.61
% Ch , Annual Rate	6.6	3.1	2.4	2.7	4.0	4.3	4.5	5.1
Service-Providing	127.61	127.98	128.47	128.93	129.29	129.67	129.97	130.20
% Ch , Annual Rate	1.3	1.2	1.6	1.4	1.1	1.2	0.9	0.7
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	62.9	67.4	65.8	65.1	64.4	63.5	62.5	61.7
Personal Saving/Disposable Income (%)	3.1	2.9	2.6	2.8	3.1	3.2	3.3	3.5
Auto Sales (Millions)	5.5	5.2	5.7	5.4	5.3	5.3	5.3	5.3
% Ch , Annual Rate	-33.3	-18.6	41.6	-19.6	-5.8	-2.3	-0.5	0.2
Housing Starts (Millions)	1.320	1.302	1.318	1.348	1.366	1.370	1.380	1.389
% Ch , Annual Rate	20.7	-5.4	4.9	9.7	5.4	1.1	3.0	2.6
Federal Budget Surplus (Billions)	-910.0	-966.9	-975.3	-1,005.1	-1,071.0	-1,093.8	-1,113.0	-1,132.8
Net Exports (Billions)	-640.7	-621.4	-655.3	-652.8	-639.5	-625.3	-612.4	-603.4
3-Month Treasury Bill Rate (%)	1.56	1.86	2.09	2.25	2.42	2.60	2.81	2.99
10-Year Treasury Note Yield (%)	2.76	2.89	2.96	3.11	3.25	3.38	3.50	3.58
Bond Index of 20 G.O. Munis. (%)	3.73	3.86	3.88	4.07	4.19	4.28	4.38	4.44
30-Year Fixed Mortgage Rate (%)	4.27	4.49	4.57	4.71	4.85	4.98	5.10	5.20

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 2009 Dollars)</b>								
Real Gross Domestic Product	18,256.0	18,343.3	18,419.9	18,508.6	18,601.9	18,692.0	18,784.0	18,880.7
% Ch , Annual Rate	1.6	1.9	1.7	1.9	2.0	2.0	2.0	2.1
Real Consumption	12,637.1	12,699.7	12,762.9	12,828.8	12,892.5	12,957.9	13,024.5	13,094.1
% Ch , Annual Rate	1.9	2.0	2.0	2.1	2.0	2.0	2.1	2.2
Real Nonresidential Fixed Investment	2,674.8	2,707.2	2,744.2	2,783.4	2,824.1	2,861.9	2,897.5	2,931.8
% Ch , Annual Rate	4.5	4.9	5.6	5.8	6.0	5.5	5.1	4.8
Real Residential Fixed Investment	635.8	641.6	648.8	658.4	664.6	668.0	672.1	678.2
% Ch , Annual Rate	3.4	3.7	4.6	6.1	3.8	2.0	2.5	3.7
Real Personal Income	15,541.8	15,640.9	15,719.1	15,808.1	15,919.9	16,014.4	16,109.2	16,205.5
% Ch , Annual Rate	2.9	2.6	2.0	2.3	2.9	2.4	2.4	2.4
Real Per Capita Income (\$/Person)	46,788	47,003	47,156	47,340	47,591	47,790	47,990	48,193
% Ch , Annual Rate	2.1	1.9	1.3	1.6	2.1	1.7	1.7	1.7
<b>Price and Wage Indexes</b>								
PCE Price Index (2009=100)	118.8	119.4	120.0	120.6	121.2	121.8	122.4	123.1
% Ch , Annual Rate	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.0
U.S. Consumer Price Index (1982-84=1.0)	2.596	2.610	2.624	2.637	2.650	2.664	2.678	2.692
% Ch , Annual Rate	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.1
Employment Cost Index (Dec. 2005=1.0)	1.411	1.423	1.435	1.448	1.461	1.475	1.488	1.502
% Ch , Annual Rate	3.3	3.5	3.6	3.6	3.7	3.7	3.7	3.8
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	22,009.5	22,256.8	22,484.3	22,727.9	22,988.2	23,234.9	23,483.6	23,736.6
% Ch , Annual Rate	4.5	4.6	4.2	4.4	4.7	4.4	4.4	4.4
Personal Income	18,459.4	18,673.7	18,862.5	19,065.5	19,295.0	19,508.8	19,724.4	19,942.1
% Ch , Annual Rate	4.9	4.7	4.1	4.4	4.9	4.5	4.5	4.5
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	164.7	165.1	165.4	165.6	165.9	166.2	166.5	166.8
Total U.S. Employment	158.7	159.0	159.3	159.5	159.7	159.9	160.1	160.3
Unemployment Rate (%)	3.65	3.68	3.71	3.73	3.76	3.81	3.85	3.90
Nonfarm Payroll Employment	151.80	152.36	152.46	152.66	152.94	153.19	153.41	153.60
% Ch , Annual Rate	0.8	1.5	0.3	0.5	0.7	0.7	0.6	0.5
Manufacturing	12.92	12.92	12.93	12.94	12.95	12.96	12.96	12.95
% Ch , Annual Rate	0.6	0.1	0.3	0.3	0.4	0.5	0.0	-0.5
Durable Manufacturing	8.11	8.11	8.12	8.13	8.15	8.17	8.17	8.16
% Ch , Annual Rate	1.1	0.4	0.4	0.5	0.7	0.9	0.2	-0.3
Nondurable Manufacturing	4.81	4.80	4.80	4.80	4.80	4.80	4.79	4.78
% Ch , Annual Rate	-0.4	-0.6	0.0	0.0	-0.1	-0.2	-0.4	-0.8
Construction	7.71	7.81	7.92	8.03	8.13	8.22	8.31	8.40
% Ch , Annual Rate	5.1	5.4	5.4	5.7	5.3	4.7	4.3	4.1
Service-Providing	130.39	130.84	130.83	130.90	131.07	131.21	131.33	131.45
% Ch , Annual Rate	0.6	1.4	0.0	0.2	0.5	0.4	0.4	0.4
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	60.9	60.1	59.4	58.8	58.2	57.6	57.1	56.7
Personal Saving/Disposable Income (%)	3.7	3.8	3.7	3.8	3.9	3.9	3.9	3.8
Auto Sales (Millions)	5.3	5.3	5.2	5.3	5.3	5.3	5.3	5.3
% Ch , Annual Rate	0.5	-0.9	-1.0	1.4	2.2	0.8	1.4	0.0
Housing Starts (Millions)	1.414	1.426	1.466	1.465	1.454	1.457	1.466	1.475
% Ch , Annual Rate	7.3	3.3	11.7	-0.3	-2.8	0.8	2.5	2.3
Federal Budget Surplus (Billions)	-1,171.1	-1,191.4	-1,197.2	-1,203.2	-1,221.6	-1,225.5	-1,227.9	-1,231.3
Net Exports (Billions)	-598.6	-593.5	-597.0	-600.3	-600.0	-601.4	-603.6	-608.2
3-Month Treasury Bill Rate (%)	3.01	3.20	3.19	3.19	3.19	3.18	3.18	3.18
10-Year Treasury Note Yield (%)	3.63	3.67	3.71	3.73	3.73	3.73	3.73	3.71
Bond Index of 20 G.O. Munis. (%)	4.49	4.53	4.56	4.57	4.58	4.57	4.56	4.54
30-Year Fixed Mortgage Rate (%)	5.24	5.29	5.32	5.34	5.35	5.35	5.35	5.34

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 2009 Dollars)</b>								
Real Gross Domestic Product	18,977.1	19,077.6	19,178.4	19,274.8	19,373.2	19,470.9	19,568.0	19,668.5
% Ch , Annual Rate	2.1	2.1	2.1	2.0	2.1	2.0	2.0	2.1
Real Consumption	13,163.5	13,234.1	13,304.8	13,376.2	13,446.4	13,518.9	13,593.6	13,669.6
% Ch , Annual Rate	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.3
Real Nonresidential Fixed Investment	2,963.7	2,995.7	3,027.2	3,056.4	3,084.1	3,109.4	3,132.8	3,155.1
% Ch , Annual Rate	4.4	4.4	4.3	3.9	3.7	3.3	3.0	2.9
Real Residential Fixed Investment	683.6	689.1	693.8	696.8	700.2	703.0	703.7	704.9
% Ch , Annual Rate	3.2	3.3	2.7	1.8	1.9	1.6	0.4	0.7
Real Personal Income	16,319.8	16,413.7	16,508.7	16,602.8	16,723.9	16,825.2	16,925.9	17,028.4
% Ch , Annual Rate	2.9	2.3	2.3	2.3	2.9	2.4	2.4	2.4
Real Per Capita Income (\$/Person)	48,449	48,644	48,842	49,037	49,311	49,526	49,738	49,955
% Ch , Annual Rate	2.1	1.6	1.6	1.6	2.3	1.8	1.7	1.8
<b>Price and Wage Indexes</b>								
PCE Price Index (2009=100)	123.7	124.3	125.0	125.6	126.2	126.9	127.5	128.2
% Ch , Annual Rate	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.0
U.S. Consumer Price Index (1982-84=1.0)	2.706	2.721	2.736	2.751	2.765	2.780	2.795	2.810
% Ch , Annual Rate	2.1	2.2	2.2	2.2	2.1	2.2	2.2	2.1
Employment Cost Index (Dec. 2005=1.0)	1.516	1.531	1.546	1.561	1.576	1.591	1.606	1.621
% Ch , Annual Rate	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8
<b>Current Dollar National Income (Billions of Dollars)</b>								
Gross Domestic Product	24,003.8	24,264.8	24,526.4	24,781.5	25,052.5	25,310.7	25,567.8	25,828.9
% Ch , Annual Rate	4.6	4.4	4.4	4.2	4.4	4.2	4.1	4.1
Personal Income	20,184.9	20,406.0	20,629.7	20,853.1	21,111.5	21,348.8	21,586.1	21,825.9
% Ch , Annual Rate	5.0	4.5	4.5	4.4	5.0	4.6	4.5	4.5
<b>Employment (Millions)</b>								
U.S. Civilian Labor Force	167.0	167.2	167.5	167.7	167.9	168.2	168.4	168.6
Total U.S. Employment	160.4	160.6	160.8	160.9	161.1	161.2	161.4	161.6
Unemployment Rate (%)	3.94	3.97	4.00	4.03	4.07	4.11	4.14	4.17
Nonfarm Payroll Employment	153.78	153.97	154.17	154.36	154.54	154.71	154.86	155.01
% Ch, Annual Rate	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
Manufacturing	12.93	12.91	12.89	12.88	12.87	12.85	12.83	12.80
% Ch, Annual Rate	-0.6	-0.6	-0.4	-0.3	-0.5	-0.5	-0.6	-0.8
Durable Manufacturing	8.15	8.14	8.14	8.13	8.12	8.11	8.10	8.09
% Ch, Annual Rate	-0.5	-0.5	-0.3	-0.2	-0.5	-0.5	-0.5	-0.7
Nondurable Manufacturing	4.78	4.77	4.76	4.75	4.74	4.74	4.73	4.72
% Ch, Annual Rate	-0.8	-0.8	-0.7	-0.6	-0.6	-0.6	-0.7	-0.8
Construction	8.47	8.55	8.61	8.67	8.72	8.77	8.81	8.85
% Ch, Annual Rate	3.7	3.5	3.1	2.7	2.5	2.3	1.8	1.6
Service-Providing	131.57	131.71	131.86	132.00	132.14	132.27	132.40	132.55
% Ch, Annual Rate	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
<b>Miscellaneous Indicators</b>								
Oil-WTI (\$ per barrel)	56.2	55.8	55.4	55.1	54.9	54.6	54.3	54.2
Personal Saving/Disposable Income (%)	3.9	3.9	3.9	3.8	4.0	4.0	4.0	4.0
Auto Sales (Millions)	5.3	5.3	5.3	5.4	5.4	5.5	5.5	5.6
% Ch, Annual Rate	-1.4	0.2	1.2	5.3	3.4	3.6	4.5	2.6
Housing Starts (Millions)	1.482	1.489	1.490	1.490	1.489	1.486	1.482	1.477
% Ch, Annual Rate	2.1	1.9	0.2	-0.1	-0.3	-0.6	-1.1	-1.5
Federal Budget Surplus (Billions)	-1,253.2	-1,250.8	-1,247.1	-1,242.0	-1,262.3	-1,259.7	-1,258.2	-1,264.1
Net Exports (Billions)	-615.2	-620.6	-625.6	-628.3	-629.4	-631.4	-635.0	-640.1
3-Month Treasury Bill Rate (%)	3.18	3.18	3.17	3.17	3.17	3.14	2.93	2.92
10-Year Treasury Note Yield (%)	3.68	3.66	3.64	3.61	3.58	3.56	3.53	3.51
Bond Index of 20 G.O. Munis. (%)	4.51	4.48	4.46	4.43	4.40	4.37	4.35	4.33
30-Year Fixed Mortgage Rate (%)	5.33	5.31	5.30	5.28	5.26	5.24	5.21	5.19

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 2009 Dollars)</b>								
Real Personal Income	359.037	372.924	386.483	398.843	410.518	422.498	434.802	447.398
% Ch	3.5	3.9	3.6	3.2	2.9	2.9	2.9	2.9
Real Wage and Salary Disb.	183.785	194.214	203.540	210.000	216.543	222.932	229.401	235.997
% Ch	4.9	5.7	4.8	3.2	3.1	3.0	2.9	2.9
Real Nonwage Income	175.252	178.710	182.944	188.843	193.975	199.565	205.401	211.401
% Ch	2.0	2.0	2.4	3.2	2.7	2.9	2.9	2.9
Real Per Capita Income (\$/Person)	49,309	50,349	51,342	52,202	52,995	53,860	54,796	55,793
% Ch	1.7	2.1	2.0	1.7	1.5	1.6	1.7	1.8
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2009=1.0)	1.108	1.127	1.150	1.173	1.197	1.221	1.246	1.272
% Ch	1.2	1.7	2.1	1.9	2.1	2.0	2.1	2.1
Seattle Cons. Price Index (1982-84=1.0)	2.550	2.627	2.714	2.775	2.839	2.904	2.971	3.040
% Ch	2.3	3.0	3.3	2.2	2.3	2.3	2.3	2.3
Average Nonfarm Annual Wage	60,556	63,631	66,507	68,678	71,327	74,251	77,402	80,781
% Ch	3.0	5.1	4.5	3.3	3.9	4.1	4.2	4.4
Avg. Hourly Earnings-Mfg. (\$/Hour)	26.42	27.38	28.48	29.41	30.30	31.33	32.46	33.64
% Ch	3.5	3.6	4.0	3.3	3.0	3.4	3.6	3.6
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	397.772	420.120	444.554	467.693	491.377	516.019	541.969	569.146
% Ch	4.7	5.6	5.8	5.2	5.1	5.0	5.0	5.0
Disposable Personal Income	348.823	367.731	389.991	410.756	431.545	452.176	473.520	496.181
% Ch	4.9	5.4	6.1	5.3	5.1	4.8	4.7	4.8
Per Capita Income (\$/Person)	54,627	56,719	59,055	61,212	63,432	65,781	68,301	70,975
% Ch	2.9	3.8	4.1	3.7	3.6	3.7	3.8	3.9
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,635.7	3,723.3	3,776.3	3,846.6	3,912.6	3,967.3	4,014.7	4,056.9
Total Washington Employment	3,444.0	3,546.3	3,602.0	3,681.3	3,742.9	3,792.0	3,832.8	3,868.7
Unemployment Rate (%)	5.28	4.76	4.62	4.30	4.34	4.42	4.53	4.64
Nonfarm Payroll Employment	3,244.5	3,322.9	3,404.6	3,469.3	3,516.8	3,550.4	3,578.0	3,600.7
% Ch	3.1	2.4	2.5	1.9	1.4	1.0	0.8	0.6
Manufacturing	290.0	283.8	286.6	290.8	293.2	295.3	296.7	297.9
% Ch	-0.7	-2.1	1.0	1.5	0.8	0.7	0.5	0.4
Durable Manufacturing	207.6	200.1	200.6	203.5	205.5	207.1	208.3	209.2
% Ch	-1.7	-3.6	0.2	1.5	1.0	0.8	0.6	0.4
Aerospace	91.0	84.1	81.9	82.0	82.0	82.0	82.0	82.0
% Ch	-3.2	-7.6	-2.6	0.1	0.0	0.0	0.0	0.0
Nondurable Manufacturing	82.4	83.7	86.1	87.3	87.7	88.2	88.4	88.7
% Ch	2.1	1.5	2.9	1.4	0.4	0.6	0.2	0.3
Construction	186.6	199.7	210.8	213.9	215.0	214.8	214.1	212.2
% Ch	7.7	7.0	5.6	1.4	0.5	-0.1	-0.3	-0.9
Service-Providing	2,761.6	2,833.2	2,900.7	2,957.9	3,001.7	3,033.3	3,060.2	3,083.6
% Ch	3.2	2.6	2.4	2.0	1.5	1.1	0.9	0.8
Software Publishers	58.9	61.3	64.3	65.4	66.4	67.5	68.7	70.0
% Ch	5.3	4.1	4.9	1.6	1.5	1.7	1.8	1.9
Electronic Shopping and Mail-Order	38.2	49.7	57.8	62.4	65.7	68.2	70.2	72.0
% Ch	26.6	30.0	16.3	8.0	5.2	3.8	3.0	2.5
<b>Housing Indicators (Thousands)</b>								
Housing Units Authorized by Bldg. Permit	44.077	45.794	45.409	43.019	43.408	42.697	41.989	40.862
% Ch	9.2	3.9	-0.8	-5.3	0.9	-1.6	-1.7	-2.7
Single-Family	22.463	23.115	24.232	24.721	25.804	26.051	26.356	26.211
% Ch	13.5	2.9	4.8	2.0	4.4	1.0	1.2	-0.6
Multi-Family	21.614	22.679	21.176	18.298	17.604	16.647	15.633	14.651
% Ch	5.0	4.9	-6.6	-13.6	-3.8	-5.4	-6.1	-6.3
30-Year Fixed Mortgage Rate (%)	3.65	3.99	4.51	5.03	5.30	5.35	5.31	5.23

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 2009 Dollars)</b>								
Real Personal Income	382.639	384.898	387.519	390.878	394.727	397.522	400.206	402.916
% Ch, Annual Rate	5.2	2.4	2.8	3.5	4.0	2.9	2.7	2.7
Real Wage and Salary Disb.	201.487	202.571	204.225	205.876	207.776	209.302	210.733	212.190
% Ch, Annual Rate	9.3	2.2	3.3	3.3	3.7	3.0	2.8	2.8
Real Nonwage Income	181.152	182.327	183.294	185.002	186.951	188.220	189.473	190.726
% Ch, Annual Rate	0.8	2.6	2.1	3.8	4.3	2.7	2.7	2.7
Real Per Capita Income (\$/Person)	51,119	51,232	51,384	51,632	51,946	52,122	52,286	52,455
% Ch, Annual Rate	3.5	0.9	1.2	2.0	2.5	1.4	1.3	1.3
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2009=1.0)	1.142	1.147	1.153	1.159	1.164	1.169	1.175	1.182
% Ch, Annual Rate	2.6	2.0	2.0	2.0	1.8	2.0	2.1	2.2
Seattle Cons. Price Index (1982-84=1.0)	2.689	2.706	2.723	2.739	2.752	2.766	2.782	2.800
% Ch, Annual Rate	4.2	2.5	2.6	2.3	1.9	2.2	2.3	2.5
Average Nonfarm Annual Wage	65,862	66,193	66,718	67,256	67,834	68,369	68,941	69,570
% Ch, Annual Rate	8.9	2.0	3.2	3.3	3.5	3.2	3.4	3.7
Avg. Hourly Earnings-Mfg. (\$/Hour)	27.90	28.43	28.68	28.91	29.11	29.31	29.51	29.72
% Ch, Annual Rate	0.5	7.8	3.5	3.3	2.8	2.7	2.7	2.9
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	436.867	441.608	446.840	452.902	459.365	464.865	470.389	476.154
% Ch, Annual Rate	7.9	4.4	4.8	5.5	5.8	4.9	4.8	5.0
Disposable Personal Income	382.997	387.531	392.005	397.432	403.304	408.238	413.197	418.287
% Ch, Annual Rate	9.5	4.8	4.7	5.7	6.0	5.0	4.9	5.0
Per Capita Income (\$/Person)	58,364	58,781	59,249	59,825	60,452	60,952	61,455	61,989
% Ch, Annual Rate	6.1	2.9	3.2	3.9	4.3	3.3	3.3	3.5
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,759.5	3,762.4	3,782.4	3,801.0	3,820.0	3,838.2	3,855.6	3,872.8
Total Washington Employment	3,581.6	3,585.0	3,608.8	3,632.5	3,654.2	3,673.4	3,690.7	3,706.9
Unemployment Rate (%)	4.73	4.72	4.59	4.43	4.34	4.29	4.28	4.28
Nonfarm Payroll Employment	3,376.8	3,395.5	3,414.2	3,432.0	3,447.9	3,463.5	3,476.7	3,489.0
% Ch, Annual Rate	3.1	2.2	2.2	2.1	1.9	1.8	1.5	1.4
Manufacturing	284.9	285.9	287.1	288.7	289.8	290.4	291.2	292.0
% Ch, Annual Rate	3.6	1.4	1.7	2.2	1.5	0.9	1.1	1.1
Durable Manufacturing	199.4	200.1	200.8	201.9	202.7	203.1	203.8	204.4
% Ch, Annual Rate	2.7	1.4	1.4	2.2	1.5	1.0	1.3	1.3
Aerospace	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0
% Ch, Annual Rate	0.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
Nondurable Manufacturing	85.5	85.8	86.3	86.8	87.1	87.2	87.4	87.5
% Ch, Annual Rate	5.9	1.5	2.5	2.2	1.5	0.6	0.7	0.7
Construction	208.2	210.7	211.9	212.4	213.1	213.7	214.0	214.7
% Ch, Annual Rate	7.8	4.8	2.3	1.0	1.1	1.3	0.5	1.3
Service-Providing	2,877.4	2,892.4	2,908.6	2,924.2	2,938.4	2,952.8	2,964.8	2,975.5
% Ch, Annual Rate	2.7	2.1	2.3	2.2	2.0	2.0	1.6	1.5
Software Publishers	63.2	64.3	64.8	65.0	65.1	65.3	65.5	65.7
% Ch, Annual Rate	6.2	7.5	2.8	1.3	0.4	1.2	1.2	1.5
Electronic Shopping and Mail-Order	55.5	57.3	58.6	59.9	61.0	62.0	62.9	63.8
% Ch, Annual Rate	15.8	13.5	9.7	8.6	7.7	6.9	6.2	5.6
<b>Housing Indicators (Thousands)</b>								
Housing Units Authorized by Bldg. Permit	49.173	46.706	42.836	42.920	43.165	43.066	42.973	42.870
% Ch, Annual Rate	-18.1	-18.6	-29.2	0.8	2.3	-0.9	-0.9	-1.0
Single-Family	24.952	24.362	23.584	24.030	24.440	24.654	24.799	24.991
% Ch, Annual Rate	4.2	-9.1	-12.2	7.8	7.0	3.5	2.4	3.1
Multi-Family	24.221	22.343	19.252	18.889	18.725	18.413	18.175	17.879
% Ch, Annual Rate	-35.2	-27.6	-44.9	-7.3	-3.4	-6.5	-5.1	-6.4
30-Year Fixed Mortgage Rate (%)	4.27	4.49	4.57	4.71	4.85	4.98	5.10	5.20



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 2009 Dollars)</b>								
Real Personal Income	406.236	409.359	411.816	414.660	418.106	421.033	423.953	426.898
% Ch, Annual Rate	3.3	3.1	2.4	2.8	3.4	2.8	2.8	2.8
Real Wage and Salary Disb.	214.079	216.053	217.266	218.772	220.698	222.195	223.672	225.164
% Ch, Annual Rate	3.6	3.7	2.3	2.8	3.6	2.7	2.7	2.7
Real Nonwage Income	192.157	193.306	194.549	195.887	197.408	198.839	200.281	201.734
% Ch, Annual Rate	3.0	2.4	2.6	2.8	3.1	2.9	2.9	2.9
Real Per Capita Income (\$/Person)	52,705	52,931	53,074	53,269	53,543	53,753	53,964	54,180
% Ch, Annual Rate	1.9	1.7	1.1	1.5	2.1	1.6	1.6	1.6
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2009=1.0)	1.188	1.194	1.200	1.206	1.212	1.218	1.224	1.231
% Ch, Annual Rate	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.0
Seattle Cons. Price Index (1982-84=1.0)	2.815	2.831	2.847	2.864	2.879	2.896	2.912	2.929
% Ch, Annual Rate	2.2	2.3	2.3	2.3	2.2	2.3	2.3	2.3
Average Nonfarm Annual Wage	70,300	70,970	71,656	72,381	73,161	73,877	74,609	75,358
% Ch, Annual Rate	4.3	3.9	3.9	4.1	4.4	4.0	4.0	4.1
Avg. Hourly Earnings-Mfg. (\$/Hour)	29.94	30.18	30.42	30.67	30.93	31.19	31.46	31.74
% Ch, Annual Rate	3.0	3.2	3.3	3.3	3.4	3.4	3.5	3.5
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	482.498	488.737	494.168	500.104	506.745	512.903	519.096	525.331
% Ch, Annual Rate	5.4	5.3	4.5	4.9	5.4	5.0	4.9	4.9
Disposable Personal Income	423.918	429.285	433.951	439.026	444.532	449.629	454.724	459.820
% Ch, Annual Rate	5.5	5.2	4.4	4.8	5.1	4.7	4.6	4.6
Per Capita Income (\$/Person)	62,599	63,195	63,688	64,246	64,895	65,482	66,075	66,673
% Ch, Annual Rate	4.0	3.9	3.2	3.6	4.1	3.7	3.7	3.7
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,889.7	3,906.2	3,920.6	3,933.9	3,947.9	3,961.2	3,973.8	3,986.0
Total Washington Employment	3,721.4	3,737.0	3,750.3	3,762.8	3,775.5	3,786.9	3,797.5	3,807.9
Unemployment Rate (%)	4.33	4.33	4.34	4.35	4.37	4.40	4.44	4.47
Nonfarm Payroll Employment	3,499.3	3,516.6	3,521.7	3,529.7	3,538.8	3,547.1	3,554.4	3,561.4
% Ch, Annual Rate	1.2	2.0	0.6	0.9	1.0	0.9	0.8	0.8
Manufacturing	292.6	292.9	293.4	294.0	294.6	295.2	295.6	295.9
% Ch, Annual Rate	0.8	0.5	0.7	0.8	0.8	0.8	0.6	0.4
Durable Manufacturing	205.0	205.3	205.7	206.1	206.5	207.0	207.4	207.6
% Ch, Annual Rate	1.1	0.7	0.7	0.7	0.9	0.9	0.7	0.5
Aerospace	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nondurable Manufacturing	87.6	87.6	87.7	87.9	88.1	88.2	88.3	88.3
% Ch, Annual Rate	0.2	0.1	0.7	0.8	0.7	0.6	0.4	0.1
Construction	214.7	215.1	215.1	215.2	215.0	214.8	214.7	214.6
% Ch, Annual Rate	0.0	0.8	0.1	0.2	-0.3	-0.3	-0.3	-0.1
Service-Providing	2,985.3	3,001.7	3,006.3	3,013.6	3,022.2	3,030.1	3,037.2	3,043.9
% Ch, Annual Rate	1.3	2.2	0.6	1.0	1.1	1.0	0.9	0.9
Software Publishers	66.0	66.2	66.5	66.8	67.1	67.3	67.6	67.9
% Ch, Annual Rate	1.6	1.5	1.7	1.6	1.8	1.7	1.8	1.8
Electronic Shopping and Mail-Order	64.6	65.4	66.1	66.7	67.3	67.9	68.5	69.0
% 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	43.174	43.252	43.718	43.488	43.059	42.730	42.577	42.424
% Ch, Annual Rate	2.9	0.7	4.4	-2.1	-3.9	-3.0	-1.4	-1.4
Single-Family	25.309	25.595	26.153	26.159	25.994	25.964	26.065	26.180
% Ch, Annual Rate	5.2	4.6	9.0	0.1	-2.5	-0.5	1.6	1.8
Multi-Family	17.866	17.657	17.565	17.329	17.065	16.765	16.512	16.245
% Ch, Annual Rate	-0.3	-4.6	-2.1	-5.3	-6.0	-6.8	-5.9	-6.3
30-Year Fixed Mortgage Rate (%)	5.24	5.29	5.32	5.34	5.35	5.35	5.35	5.34



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 2009 Dollars)</b>								
Real Personal Income	430.418	433.335	436.279	439.176	442.833	445.905	448.927	451.927
% Ch, Annual Rate	3.3	2.7	2.7	2.7	3.4	2.8	2.7	2.7
Real Wage and Salary Disb.	227.057	228.604	230.189	231.754	233.708	235.247	236.771	238.263
% Ch, Annual Rate	3.4	2.8	2.8	2.7	3.4	2.7	2.6	2.5
Real Nonwage Income	203.361	204.732	206.090	207.422	209.125	210.659	212.157	213.664
% Ch, Annual Rate	3.3	2.7	2.7	2.6	3.3	3.0	2.9	2.9
Real Per Capita Income (\$/Person)	54,470	54,686	54,906	55,122	55,435	55,676	55,913	56,149
% Ch, Annual Rate	2.2	1.6	1.6	1.6	2.3	1.8	1.7	1.7
<b>Price and Wage Indexes</b>								
U.S. Implicit Price Deflator, PCE (2009=1.0)	1.237	1.243	1.250	1.256	1.262	1.269	1.275	1.282
% Ch, Annual Rate	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.0
Seattle Cons. Price Index (1982-84=1.0)	2.946	2.963	2.980	2.997	3.014	3.032	3.049	3.066
% Ch, Annual Rate	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3
Average Nonfarm Annual Wage	76,202	76,993	77,800	78,612	79,518	80,356	81,202	82,047
% Ch, Annual Rate	4.6	4.2	4.3	4.2	4.7	4.3	4.3	4.2
Avg. Hourly Earnings-Mfg. (\$/Hour)	32.02	32.31	32.60	32.90	33.20	33.49	33.79	34.08
% Ch, Annual Rate	3.6	3.7	3.7	3.7	3.7	3.6	3.6	3.5
<b>Current Dollar Income (Billions of Dollars)</b>								
Personal Income	532.354	538.735	545.184	551.603	559.011	565.790	572.529	579.253
% Ch, Annual Rate	5.5	4.9	4.9	4.8	5.5	4.9	4.8	4.8
Disposable Personal Income	465.635	470.859	476.150	481.434	487.639	493.317	499.007	504.760
% Ch, Annual Rate	5.2	4.6	4.6	4.5	5.3	4.7	4.7	4.7
Per Capita Income (\$/Person)	67,371	67,987	68,612	69,233	69,979	70,645	71,307	71,968
% Ch, Annual Rate	4.3	3.7	3.7	3.7	4.4	3.9	3.8	3.8
<b>Employment (Thousands)</b>								
Washington Civilian Labor Force	3,997.8	4,009.2	4,020.4	4,031.4	4,041.9	4,052.2	4,062.1	4,071.6
Total Washington Employment	3,818.1	3,828.1	3,837.9	3,847.3	3,856.3	3,864.8	3,872.8	3,880.8
Unemployment Rate (%)	4.49	4.52	4.54	4.57	4.59	4.63	4.66	4.68
Nonfarm Payroll Employment	3,568.2	3,574.8	3,581.3	3,587.6	3,593.4	3,598.6	3,603.2	3,607.5
% Ch, Annual Rate	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5
Manufacturing	296.2	296.5	296.9	297.3	297.6	297.9	298.0	298.1
% Ch, Annual Rate	0.4	0.4	0.5	0.6	0.4	0.4	0.2	0.1
Durable Manufacturing	207.9	208.2	208.5	208.8	209.1	209.3	209.3	209.3
% Ch, Annual Rate	0.5	0.5	0.7	0.7	0.4	0.3	0.1	0.1
Aerospace	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nondurable Manufacturing	88.3	88.3	88.4	88.5	88.6	88.6	88.7	88.8
% Ch, Annual Rate	0.1	0.1	0.2	0.4	0.4	0.4	0.3	0.2
Construction	214.5	214.3	214.0	213.6	213.2	212.6	211.9	211.1
% Ch, Annual Rate	-0.3	-0.4	-0.5	-0.7	-0.9	-1.1	-1.3	-1.5
Service-Providing	3,050.5	3,057.0	3,063.4	3,069.7	3,075.6	3,081.1	3,086.2	3,091.4
% Ch, Annual Rate	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7
Software Publishers	68.3	68.6	68.9	69.2	69.5	69.9	70.2	70.5
% Ch, Annual Rate	1.9	1.8	1.9	1.9	1.9	1.8	1.8	1.8
Electronic Shopping and Mail-Order	69.5	70.0	70.4	70.9	71.3	71.8	72.2	72.6
% 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	42.287	42.150	41.893	41.627	41.353	41.050	40.710	40.336
% Ch, Annual Rate	-1.3	-1.3	-2.4	-2.5	-2.6	-2.9	-3.3	-3.6
Single-Family	26.295	26.389	26.383	26.358	26.320	26.264	26.183	26.078
% Ch, Annual Rate	1.8	1.4	-0.1	-0.4	-0.6	-0.8	-1.2	-1.6
Multi-Family	15.992	15.761	15.511	15.269	15.034	14.786	14.527	14.259
% Ch, Annual Rate	-6.1	-5.7	-6.2	-6.1	-6.0	-6.4	-6.8	-7.2
30-Year Fixed Mortgage Rate (%)	5.33	5.31	5.30	5.28	5.26	5.24	5.21	5.19

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	148.91	150.91	152.32	153.28	154.07	154.78
% Ch	1.8	1.6	1.6	1.3	0.9	0.6	0.5	0.5
Manufacturing	12.35	12.44	12.71	12.87	12.93	12.96	12.90	12.84
% Ch	0.1	0.7	2.1	1.3	0.4	0.2	-0.4	-0.5
Durable Manufacturing	7.71	7.74	7.93	8.05	8.12	8.16	8.14	8.11
% Ch	-0.7	0.3	2.5	1.5	0.8	0.5	-0.2	-0.4
Wood Products	0.39	0.40	0.40	0.41	0.43	0.45	0.47	0.48
% Ch	2.7	1.1	1.4	1.9	4.6	4.7	3.6	2.7
Primary and Fabricated Metals	1.80	1.80	1.86	1.90	1.93	1.95	1.96	1.98
% Ch	-3.0	0.4	3.3	2.2	1.5	0.9	0.8	0.8
Computer and Electronic Products	1.05	1.04	1.07	1.09	1.10	1.10	1.10	1.09
% Ch	-0.5	-0.5	2.4	2.1	0.5	0.2	-0.1	-0.9
Machinery and Electrical Equipment	1.46	1.47	1.53	1.57	1.60	1.61	1.62	1.62
% Ch	-3.0	0.6	4.1	2.8	1.7	0.9	0.3	0.2
Transportation Equipment	1.63	1.63	1.65	1.65	1.63	1.61	1.55	1.50
% Ch	1.6	0.1	1.4	-0.6	-1.1	-1.2	-3.6	-3.4
Other Durables	1.39	1.40	1.42	1.43	1.44	1.45	1.45	1.44
% Ch	1.3	0.7	1.5	1.1	0.3	0.6	0.2	-0.2
Nondurable Manufacturing	4.64	4.71	4.77	4.81	4.81	4.80	4.76	4.73
% Ch	1.5	1.4	1.4	0.9	-0.2	-0.2	-0.7	-0.7
Food Manufacturing	1.56	1.60	1.65	1.69	1.71	1.72	1.73	1.74
% Ch	3.0	3.0	2.8	2.8	0.8	0.8	0.4	0.7
Paper and Paper Products	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36
% Ch	-0.6	-0.5	1.3	-0.8	-1.0	-0.3	-0.7	-0.6
Other Nondurables	2.71	2.73	2.75	2.75	2.73	2.71	2.67	2.63
% Ch	1.0	0.8	0.6	0.0	-0.7	-0.8	-1.4	-1.5
Natural Resources and Mining	0.67	0.68	0.74	0.78	0.79	0.80	0.81	0.81
% Ch	-17.8	1.5	9.4	4.6	1.6	1.4	1.0	0.4
Construction	6.73	6.95	7.22	7.48	7.87	8.27	8.57	8.79
% Ch	4.1	3.4	3.8	3.7	5.1	5.1	3.7	2.5
Trade, Transportation, and Utilities	27.26	27.49	27.81	27.94	27.85	27.66	27.44	27.27
% Ch	1.4	0.8	1.2	0.5	-0.3	-0.7	-0.8	-0.6
Wholesale Trade	5.86	5.90	5.96	6.02	6.05	6.08	6.10	6.11
% Ch	0.1	0.7	0.9	1.0	0.6	0.4	0.3	0.3
Retail Trade	15.83	15.86	15.98	16.00	15.88	15.69	15.46	15.29
% Ch	1.4	0.2	0.7	0.1	-0.8	-1.2	-1.4	-1.1
Trans., Warehousing, and Utilities	5.57	5.72	5.88	5.93	5.92	5.90	5.88	5.86
% Ch	2.7	2.8	2.7	0.9	-0.1	-0.4	-0.4	-0.4
Information	2.79	2.79	2.77	2.78	2.82	2.88	2.89	2.88
% Ch	1.6	0.0	-0.8	0.3	1.5	2.0	0.5	-0.4
Publishing Industries	0.73	0.72	0.71	0.69	0.67	0.66	0.65	0.64
% Ch	0.5	-1.0	-1.2	-3.5	-2.7	-1.9	-1.3	-1.1
Other Information	2.06	2.07	2.06	2.09	2.15	2.22	2.24	2.24
% Ch	1.9	0.3	-0.7	1.6	2.8	3.2	1.0	-0.2
Financial Activities	8.29	8.45	8.58	8.69	8.74	8.75	8.74	8.73
% Ch	2.0	2.0	1.5	1.3	0.5	0.1	-0.1	-0.1
Professional and Business Services	20.05	20.47	20.94	21.92	22.75	23.30	23.76	24.23
% Ch	2.1	2.1	2.3	4.7	3.8	2.4	2.0	2.0
Education and Health Services	22.64	23.19	23.61	23.75	23.71	23.74	23.82	23.92
% Ch	2.8	2.4	1.8	0.6	-0.2	0.2	0.3	0.4
Leisure and Hospitality	15.66	16.06	16.33	16.42	16.40	16.47	16.55	16.59
% Ch	3.3	2.6	1.7	0.5	-0.1	0.5	0.5	0.2
Other Services	5.69	5.78	5.87	5.82	5.72	5.66	5.62	5.60
% Ch	1.2	1.5	1.6	-0.9	-1.6	-1.1	-0.6	-0.4
Federal Government	2.79	2.81	2.79	2.79	2.91	2.79	2.79	2.79
% Ch	1.4	0.4	-0.6	-0.1	4.5	-4.3	0.0	0.0
State and Local Government	19.44	19.52	19.54	19.67	19.84	20.01	20.17	20.34
% Ch	0.9	0.4	0.1	0.7	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	148.59	149.20	149.79	150.27	150.73	151.14	151.50
% Ch, Annual Rate	1.7	1.4	1.7	1.6	1.3	1.2	1.1	0.9
Manufacturing	12.61	12.68	12.74	12.80	12.85	12.85	12.87	12.90
% Ch, Annual Rate	2.7	2.3	1.9	2.2	1.3	0.2	0.6	0.8
Durable Manufacturing	7.86	7.92	7.95	8.00	8.03	8.04	8.06	8.08
% Ch, Annual Rate	3.6	2.9	1.8	2.4	1.6	0.3	0.9	1.3
Wood Products	0.40	0.41	0.40	0.40	0.41	0.41	0.41	0.42
% Ch, Annual Rate	5.3	3.4	-7.5	5.6	3.6	0.2	3.0	4.8
Primary and Fabricated Metals	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.91
% Ch, Annual Rate	4.7	2.7	1.5	2.6	2.7	1.8	1.6	1.8
Computer and Electronic Products	1.06	1.06	1.07	1.08	1.09	1.09	1.09	1.10
% Ch, Annual Rate	2.3	1.9	2.4	4.7	1.6	1.3	0.9	1.1
Machinery and Electrical Equipment	1.50	1.52	1.54	1.55	1.56	1.56	1.58	1.59
% Ch, Annual Rate	4.7	5.3	5.0	1.9	2.1	2.2	3.2	2.9
Transportation Equipment	1.65	1.66	1.66	1.66	1.66	1.65	1.64	1.64
% Ch, Annual Rate	2.8	2.8	-0.4	0.7	-0.2	-2.9	-1.6	-0.5
Other Durables	1.41	1.41	1.42	1.43	1.43	1.43	1.43	1.43
% Ch, Annual Rate	2.4	1.5	3.8	1.8	1.2	-0.4	-0.2	-0.1
Nondurable Manufacturing	4.74	4.76	4.78	4.80	4.81	4.81	4.82	4.82
% Ch, Annual Rate	1.2	1.2	2.0	1.8	0.8	0.0	0.2	0.1
Food Manufacturing	1.63	1.64	1.66	1.67	1.69	1.69	1.70	1.70
% Ch, Annual Rate	2.4	2.3	4.5	4.0	3.2	1.6	1.5	0.9
Paper and Paper Products	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
% Ch, Annual Rate	2.5	1.8	0.9	-0.3	-1.9	-1.7	-1.4	-0.7
Other Nondurables	2.74	2.75	2.75	2.76	2.76	2.75	2.75	2.74
% Ch, Annual Rate	0.5	0.5	0.6	0.8	-0.2	-0.8	-0.5	-0.3
Natural Resources and Mining	0.71	0.73	0.75	0.77	0.77	0.77	0.78	0.78
% Ch, Annual Rate	11.0	12.0	11.5	5.9	2.3	2.1	2.1	2.9
Construction	7.14	7.20	7.24	7.29	7.36	7.44	7.52	7.61
% Ch, Annual Rate	6.6	3.1	2.4	2.7	4.0	4.3	4.5	5.1
Trade, Transportation, and Utilities	27.69	27.77	27.86	27.92	27.95	27.93	27.95	27.93
% Ch, Annual Rate	1.5	1.3	1.3	0.9	0.4	-0.2	0.2	-0.2
Wholesale Trade	5.95	5.95	5.95	5.98	5.99	6.01	6.03	6.04
% Ch, Annual Rate	1.5	-0.5	0.4	1.6	0.7	1.2	1.5	1.1
Retail Trade	15.91	15.97	16.01	16.03	16.04	16.01	15.99	15.95
% Ch, Annual Rate	1.0	1.5	1.0	0.6	0.3	-0.9	-0.4	-1.0
Trans., Warehousing, and Utilities	5.82	5.86	5.90	5.92	5.92	5.92	5.93	5.94
% Ch, Annual Rate	3.0	2.5	2.9	1.0	0.1	0.2	0.6	0.5
Information	2.76	2.77	2.78	2.77	2.77	2.79	2.78	2.78
% Ch, Annual Rate	-2.7	1.8	0.9	-1.0	-0.1	3.0	-1.7	-0.7
Publishing Industries	0.72	0.71	0.72	0.71	0.70	0.69	0.69	0.68
% Ch, Annual Rate	-1.7	-0.3	1.8	-3.4	-6.8	-3.7	-3.8	-2.6
Other Information	2.05	2.06	2.06	2.06	2.07	2.10	2.09	2.09
% Ch, Annual Rate	-3.0	2.5	0.6	-0.2	2.3	5.4	-1.0	-0.1
Financial Activities	8.54	8.56	8.60	8.64	8.68	8.69	8.70	8.71
% Ch, Annual Rate	1.5	1.2	1.9	2.1	1.5	0.6	0.7	0.4
Professional and Business Services	20.77	20.84	20.93	21.20	21.49	21.79	22.08	22.34
% Ch, Annual Rate	2.3	1.4	1.8	5.2	5.5	5.8	5.4	4.7
Education and Health Services	23.46	23.55	23.69	23.73	23.71	23.77	23.76	23.75
% Ch, Annual Rate	2.0	1.5	2.5	0.7	-0.3	1.0	-0.1	-0.3
Leisure and Hospitality	16.24	16.29	16.38	16.42	16.45	16.43	16.41	16.40
% Ch, Annual Rate	1.5	1.3	2.1	1.1	0.7	-0.5	-0.4	-0.3
Other Services	5.83	5.86	5.89	5.88	5.86	5.83	5.80	5.78
% Ch, Annual Rate	1.1	2.1	2.3	-0.7	-1.9	-1.9	-1.6	-2.0
Federal Government	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
% Ch, Annual Rate	-1.2	-0.9	0.0	0.0	0.0	0.0	0.0	0.0
State and Local Government	19.53	19.54	19.54	19.57	19.61	19.65	19.69	19.74
% Ch, Annual Rate	0.0	0.2	0.1	0.5	0.9	0.9	0.9	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	3,244.5	3,322.9	3,404.6	3,469.3	3,516.8	3,550.4	3,578.0	3,600.7
% Ch	3.1	2.4	2.5	1.9	1.4	1.0	0.8	0.6
Manufacturing	290.0	283.8	286.6	290.8	293.2	295.3	296.7	297.9
% Ch	-0.7	-2.1	1.0	1.5	0.8	0.7	0.5	0.4
Durable Manufacturing	207.6	200.1	200.6	203.5	205.5	207.1	208.3	209.2
% Ch	-1.7	-3.6	0.2	1.5	1.0	0.8	0.6	0.4
Wood Products	13.1	12.9	13.4	13.4	13.6	13.9	14.0	14.0
% Ch	-1.6	-1.1	3.5	-0.2	1.8	1.9	1.0	0.3
Primary and Fabricated Metals	25.2	25.0	25.1	25.5	25.9	26.1	26.3	26.5
% Ch	-2.0	-0.7	0.2	1.8	1.5	0.7	0.7	0.8
Computer and Electronic Products	20.1	19.6	20.3	21.1	21.5	21.8	22.0	21.9
% Ch	0.7	-2.5	3.6	4.0	1.9	1.5	1.0	-0.2
Machinery and Electrical Equipment	20.5	20.6	21.4	22.7	23.8	24.7	25.4	26.2
% Ch	-1.2	0.7	3.7	5.9	4.9	3.8	3.0	2.9
Aerospace	91.0	84.1	81.9	82.0	82.0	82.0	82.0	82.0
% Ch	-3.2	-7.6	-2.6	0.1	0.0	0.0	0.0	0.0
Other Transportation Equip.	10.1	10.2	9.7	9.4	9.0	8.7	8.4	8.2
% Ch	-0.9	0.2	-4.5	-3.2	-3.9	-3.5	-3.4	-2.5
Other Durables	27.6	27.7	28.8	29.5	29.8	30.0	30.3	30.4
% Ch	1.2	0.6	3.9	2.4	0.9	0.9	0.8	0.6
Nondurable Manufacturing	82.4	83.7	86.1	87.3	87.7	88.2	88.4	88.7
% Ch	2.1	1.5	2.9	1.4	0.4	0.6	0.2	0.3
Food Manufacturing	37.5	38.0	39.8	40.5	40.5	40.5	40.3	40.3
% Ch	1.9	1.3	4.5	1.9	0.0	0.0	-0.4	-0.1
Paper and Paper Products	7.8	7.7	7.7	7.6	7.4	7.4	7.2	7.1
% Ch	-3.4	-0.3	-0.5	-1.4	-1.9	-1.2	-1.6	-1.6
Other Nondurables	37.1	37.9	38.6	39.2	39.8	40.4	40.8	41.3
% Ch	3.4	2.1	1.9	1.5	1.4	1.5	1.1	1.1
Natural Resources and Mining	6.3	6.2	6.5	6.7	6.8	6.9	7.0	7.0
% Ch	-0.8	-1.5	5.6	2.6	2.3	1.4	0.8	0.3
Construction	186.6	199.7	210.8	213.9	215.0	214.8	214.1	212.2
% Ch	7.7	7.0	5.6	1.4	0.5	-0.1	-0.3	-0.9
Trade, Transportation, and Utilities	606.3	626.1	641.7	651.8	655.7	655.9	654.5	653.5
% Ch	3.1	3.3	2.5	1.6	0.6	0.0	-0.2	-0.2
Wholesale Trade	132.8	134.4	137.3	139.4	140.4	140.9	141.3	141.6
% Ch	0.6	1.2	2.1	1.5	0.7	0.3	0.3	0.2
Retail Trade	369.1	384.7	397.1	404.5	407.3	407.4	405.8	404.8
% Ch	4.0	4.2	3.2	1.8	0.7	0.0	-0.4	-0.2
Electronic Shopping and Mail-Order	38.2	49.7	57.8	62.4	65.7	68.2	70.2	72.0
% Ch	26.6	30.0	16.3	8.0	5.2	3.8	3.0	2.5
Other Retail Trade	330.9	335.0	339.3	342.0	341.6	339.2	335.6	332.9
% Ch	1.9	1.2	1.3	0.8	-0.1	-0.7	-1.0	-0.8
Trans., Warehousing, and Utilities	104.4	106.9	107.3	107.9	107.9	107.7	107.4	107.1
% Ch	3.4	2.4	0.4	0.5	0.1	-0.2	-0.3	-0.3
Information	121.6	126.3	130.0	132.2	135.5	139.5	141.8	143.2
% Ch	6.2	3.9	2.9	1.6	2.5	3.0	1.6	1.0
Software Publishers	58.9	61.3	64.3	65.4	66.4	67.5	68.7	70.0
% Ch	5.3	4.1	4.9	1.6	1.5	1.7	1.8	1.9
Other Publishing Industries	5.9	5.5	4.5	3.9	3.4	3.0	2.7	2.3
% Ch	-4.0	-7.1	-18.4	-13.8	-12.1	-11.6	-11.4	-12.1
Other Information	56.7	59.5	61.2	62.9	65.7	69.0	70.4	70.9
% Ch	8.4	4.9	2.9	2.8	4.4	5.0	2.0	0.7
Financial Activities	150.3	153.1	156.1	157.6	157.3	156.0	154.4	152.8
% Ch	1.8	1.9	2.0	0.9	-0.2	-0.8	-1.0	-1.0
Professional and Business Services	403.5	414.1	425.7	447.1	465.3	478.5	489.5	500.2
% Ch	3.5	2.6	2.8	5.0	4.1	2.8	2.3	2.2
Education and Health Services	463.5	476.1	491.5	499.1	503.3	508.0	512.7	517.3
% Ch	3.4	2.7	3.2	1.6	0.8	0.9	0.9	0.9
Leisure and Hospitality	323.3	331.6	340.9	345.5	347.7	350.7	353.1	354.2
% Ch	4.3	2.6	2.8	1.3	0.6	0.9	0.7	0.3
Other Services	117.6	119.9	122.8	124.8	126.4	127.8	129.0	130.1
% Ch	2.3	2.0	2.4	1.6	1.3	1.1	1.0	0.8
Federal Government	74.5	74.9	75.3	75.9	78.7	76.6	76.8	77.1
% Ch	1.9	0.4	0.6	0.8	3.7	-2.7	0.3	0.3
State and Local Government	501.0	511.1	516.6	523.9	532.0	540.4	548.2	555.1
% Ch	2.5	2.0	1.1	1.4	1.5	1.6	1.5	1.3

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	3,376.8	3,395.5	3,414.2	3,432.0	3,447.9	3,463.5	3,476.7	3,489.0
% Ch, Annual Rate	3.1	2.2	2.2	2.1	1.9	1.8	1.5	1.4
Manufacturing	284.9	285.9	287.1	288.7	289.8	290.4	291.2	292.0
% Ch, Annual Rate	3.6	1.4	1.7	2.2	1.5	0.9	1.1	1.1
Durable Manufacturing	199.4	200.1	200.8	201.9	202.7	203.1	203.8	204.4
% Ch, Annual Rate	2.7	1.4	1.4	2.2	1.5	1.0	1.3	1.3
Wood Products	13.4	13.6	13.3	13.4	13.4	13.3	13.3	13.4
% Ch, Annual Rate	11.1	5.4	-8.5	2.7	0.9	-1.9	0.4	1.9
Primary and Fabricated Metals	25.2	24.9	25.0	25.2	25.4	25.5	25.6	25.7
% Ch, Annual Rate	2.3	-4.9	1.8	2.8	2.9	1.8	1.5	1.8
Computer and Electronic Products	20.1	20.0	20.3	20.7	20.8	21.0	21.1	21.3
% Ch, Annual Rate	9.7	-1.6	4.7	8.2	3.5	3.1	2.5	2.8
Machinery and Electrical Equipment	21.0	21.1	21.6	21.9	22.2	22.5	22.8	23.2
% Ch, Annual Rate	3.0	2.4	8.6	5.3	5.4	5.6	7.1	6.7
Aerospace	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0
% Ch, Annual Rate	0.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
Other Transportation Equip.	9.9	9.7	9.6	9.6	9.5	9.4	9.3	9.3
% Ch, Annual Rate	-3.6	-6.1	-3.0	-0.6	-3.7	-4.8	-2.3	-3.6
Other Durables	28.2	28.8	29.1	29.2	29.4	29.5	29.5	29.6
% Ch, Annual Rate	3.6	7.6	4.1	2.4	2.2	1.2	0.9	0.7
Nondurable Manufacturing	85.5	85.8	86.3	86.8	87.1	87.2	87.4	87.5
% Ch, Annual Rate	5.9	1.5	2.5	2.2	1.5	0.6	0.7	0.7
Food Manufacturing	39.4	39.5	39.9	40.2	40.4	40.5	40.6	40.6
% Ch, Annual Rate	12.6	1.0	3.5	3.1	2.3	0.8	0.7	0.1
Paper and Paper Products	7.6	7.7	7.7	7.7	7.7	7.6	7.6	7.5
% Ch, Annual Rate	-1.9	7.6	0.3	-1.2	-3.0	-2.7	-2.4	-1.6
Other Nondurables	38.4	38.5	38.7	38.9	39.0	39.2	39.3	39.4
% Ch, Annual Rate	1.1	0.9	1.9	2.1	1.5	1.1	1.2	1.7
Natural Resources and Mining	6.4	6.5	6.6	6.6	6.6	6.7	6.7	6.8
% Ch, Annual Rate	12.2	8.4	2.5	1.8	2.5	1.8	2.3	2.9
Construction	208.2	210.7	211.9	212.4	213.1	213.7	214.0	214.7
% Ch, Annual Rate	7.8	4.8	2.3	1.0	1.1	1.3	0.5	1.3
Trade, Transportation, and Utilities	637.3	639.4	643.4	646.8	649.3	650.9	652.8	654.0
% Ch, Annual Rate	3.6	1.3	2.5	2.1	1.6	1.0	1.2	0.8
Wholesale Trade	136.5	137.0	137.5	138.2	138.6	139.2	139.7	140.2
% Ch, Annual Rate	4.1	1.4	1.4	2.2	1.2	1.6	1.6	1.3
Retail Trade	393.0	395.8	398.7	401.0	403.0	403.9	405.2	405.8
% Ch, Annual Rate	4.0	2.9	2.9	2.4	2.0	0.9	1.2	0.6
Electronic Shopping and Mail-Order	55.5	57.3	58.6	59.9	61.0	62.0	62.9	63.8
% Ch	15.8	13.5	9.7	8.6	7.7	6.9	6.2	5.6
Other Retail Trade	337.5	338.6	340.0	341.2	342.1	341.9	342.2	342.0
% Ch	2.2	1.2	1.8	1.3	1.1	-0.1	0.3	-0.3
Trans., Warehousing, and Utilities	107.7	106.6	107.3	107.6	107.7	107.8	107.9	108.1
% Ch, Annual Rate	1.3	-4.1	2.7	1.0	0.3	0.4	0.6	0.6
Information	128.4	130.1	130.7	130.9	131.3	132.4	132.4	132.7
% Ch, Annual Rate	1.0	5.3	1.9	0.5	1.1	3.5	0.1	0.8
Software Publishers	63.2	64.3	64.8	65.0	65.1	65.3	65.5	65.7
% Ch, Annual Rate	6.2	7.5	2.8	1.3	0.4	1.2	1.2	1.5
Other Publishing Industries	4.8	4.4	4.4	4.3	4.1	3.9	3.8	3.7
% Ch, Annual Rate	-31.8	-25.7	-1.6	-11.8	-18.6	-13.1	-13.8	-11.6
Other Information	60.5	61.3	61.5	61.6	62.1	63.2	63.2	63.3
% Ch, Annual Rate	-1.0	5.9	1.3	0.5	3.4	7.1	-0.2	0.9
Financial Activities	155.0	156.0	156.5	157.1	157.5	157.6	157.7	157.6
% Ch, Annual Rate	1.7	2.7	1.4	1.3	1.2	0.2	0.1	-0.2
Professional and Business Services	420.2	423.8	426.6	432.3	438.2	444.4	450.3	455.7
% Ch, Annual Rate	3.1	3.4	2.7	5.4	5.6	5.8	5.4	4.9
Education and Health Services	487.2	489.7	493.5	495.5	496.6	498.9	500.0	501.0
% Ch, Annual Rate	3.1	2.0	3.1	1.7	0.8	1.9	0.9	0.8
Leisure and Hospitality	338.1	339.8	342.0	343.5	344.8	345.2	345.7	346.2
% Ch, Annual Rate	3.4	2.1	2.6	1.8	1.4	0.5	0.5	0.6
Other Services	122.0	122.4	123.2	123.7	124.2	124.6	125.0	125.4
% Ch, Annual Rate	1.7	1.4	2.5	1.8	1.5	1.4	1.4	1.3
Federal Government	74.7	75.4	75.5	75.6	75.7	75.8	75.9	76.0
% Ch, Annual Rate	-0.8	3.8	0.6	0.6	0.6	0.6	0.5	0.5
State and Local Government	514.5	515.9	517.2	518.9	520.9	523.0	525.0	526.9
% Ch, Annual Rate	1.7	1.0	1.0	1.3	1.6	1.6	1.5	1.5





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	3,568.2	3,574.8	3,581.3	3,587.6	3,593.4	3,598.6	3,603.2	3,607.5
% Ch, Annual Rate	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5
Manufacturing	296.2	296.5	296.9	297.3	297.6	297.9	298.0	298.1
% Ch, Annual Rate	0.4	0.4	0.5	0.6	0.4	0.4	0.2	0.1
Durable Manufacturing	207.9	208.2	208.5	208.8	209.1	209.3	209.3	209.3
% Ch, Annual Rate	0.5	0.5	0.7	0.7	0.4	0.3	0.1	0.1
Wood Products	14.0	14.0	14.0	14.1	14.1	14.1	14.0	14.0
% Ch, Annual Rate	1.2	0.9	1.0	1.3	0.5	-0.1	-1.4	-1.5
Primary and Fabricated Metals	26.2	26.2	26.3	26.4	26.4	26.5	26.5	26.5
% Ch, Annual Rate	0.6	0.8	1.1	1.2	0.8	0.7	0.3	0.1
Computer and Electronic Products	21.9	22.0	22.0	22.0	22.0	22.0	21.9	21.9
% Ch, Annual Rate	1.0	0.6	0.8	0.2	-0.5	-0.8	-0.6	-0.6
Machinery and Electrical Equipment	25.1	25.3	25.5	25.7	25.9	26.1	26.2	26.4
% Ch, Annual Rate	2.4	3.1	3.4	3.5	3.0	2.8	2.1	2.1
Aerospace	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Transportation Equip.	8.5	8.4	8.4	8.3	8.3	8.2	8.2	8.1
% Ch, Annual Rate	-3.8	-4.4	-3.6	-2.7	-2.0	-1.7	-2.6	-2.5
Other Durables	30.2	30.2	30.3	30.4	30.4	30.4	30.5	30.5
% Ch, Annual Rate	0.8	0.8	0.8	0.7	0.5	0.5	0.4	0.4
Nondurable Manufacturing	88.3	88.3	88.4	88.5	88.6	88.6	88.7	88.8
% Ch, Annual Rate	0.1	0.1	0.2	0.4	0.4	0.4	0.3	0.2
Food Manufacturing	40.4	40.3	40.3	40.3	40.3	40.3	40.3	40.3
% Ch, Annual Rate	-0.6	-0.6	-0.4	-0.1	0.0	0.1	0.0	-0.1
Paper and Paper Products	7.3	7.3	7.2	7.2	7.2	7.1	7.1	7.1
% Ch, Annual Rate	-1.8	-1.8	-1.7	-1.5	-1.5	-1.6	-1.9	-2.1
Other Nondurables	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4
% Ch, Annual Rate	1.1	1.1	1.1	1.2	1.1	1.1	1.0	0.9
Natural Resources and Mining	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
% Ch, Annual Rate	0.9	0.6	0.7	0.7	0.4	0.0	-0.3	-0.1
Construction	214.5	214.3	214.0	213.6	213.2	212.6	211.9	211.1
% Ch, Annual Rate	-0.3	-0.4	-0.5	-0.7	-0.9	-1.1	-1.3	-1.5
Trade, Transportation, and Utilities	655.0	654.6	654.3	654.2	653.8	653.6	653.4	653.2
% Ch, Annual Rate	-0.4	-0.3	-0.2	-0.1	-0.2	-0.1	-0.1	-0.1
Wholesale Trade	141.1	141.2	141.3	141.4	141.5	141.6	141.6	141.7
% Ch, Annual Rate	0.4	0.2	0.3	0.2	0.4	0.1	0.1	0.1
Retail Trade	406.3	405.9	405.6	405.5	405.0	404.9	404.8	404.7
% Ch, Annual Rate	-0.7	-0.4	-0.3	-0.1	-0.5	-0.1	-0.1	-0.1
Electronic Shopping and Mail-Order	69.5	70.0	70.4	70.9	71.3	71.8	72.2	72.6
% Ch	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3
Other Retail Trade	336.9	336.0	335.2	334.6	333.7	333.1	332.6	332.1
% Ch	-1.5	-1.1	-0.9	-0.7	-1.1	-0.7	-0.6	-0.6
Trans., Warehousing, and Utilities	107.5	107.5	107.4	107.3	107.3	107.2	107.0	106.9
% Ch, Annual Rate	-0.1	-0.3	-0.3	-0.3	-0.2	-0.4	-0.5	-0.5
Information	141.1	141.6	142.0	142.4	142.9	143.1	143.4	143.5
% Ch, Annual Rate	1.7	1.2	1.3	1.2	1.2	0.8	0.6	0.4
Software Publishers	68.3	68.6	68.9	69.2	69.5	69.9	70.2	70.5
% Ch, Annual Rate	1.9	1.8	1.9	1.9	1.9	1.8	1.8	1.8
Other Publishing Industries	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.2
% Ch, Annual Rate	-10.7	-11.6	-11.6	-11.7	-11.5	-12.6	-13.1	-13.5
Other Information	70.1	70.3	70.5	70.7	70.8	70.9	70.9	70.8
% Ch, Annual Rate	2.1	1.2	1.2	1.1	0.9	0.3	-0.1	-0.4
Financial Activities	155.0	154.6	154.2	153.7	153.5	153.0	152.6	152.2
% Ch, Annual Rate	-0.7	-1.0	-1.1	-1.1	-0.7	-1.3	-1.1	-1.1
Professional and Business Services	485.3	488.2	491.0	493.6	496.6	499.1	501.4	503.7
% Ch, Annual Rate	2.5	2.3	2.3	2.2	2.4	2.0	1.8	1.8
Education and Health Services	511.0	512.2	513.3	514.4	515.7	516.8	517.9	519.0
% Ch, Annual Rate	1.1	0.9	0.9	0.8	1.0	0.8	0.9	0.9
Leisure and Hospitality	352.2	352.8	353.4	353.9	353.8	354.1	354.4	354.7
% Ch, Annual Rate	0.2	0.7	0.6	0.6	-0.1	0.3	0.4	0.4
Other Services	128.6	128.9	129.2	129.5	129.7	130.0	130.2	130.4
% Ch, Annual Rate	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.7
Federal Government	76.8	76.8	76.9	76.9	77.0	77.0	77.1	77.1
% Ch, Annual Rate	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
State and Local Government	545.4	547.4	549.2	551.0	552.7	554.4	556.0	557.5
% Ch, Annual Rate	1.5	1.4	1.3	1.3	1.3	1.2	1.1	1.1

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	15,928.7	16,429.1	17,104.5	17,932.3	18,765.3	19,617.6	20,518.4	21,468.1
% Ch	2.4	3.1	4.1	4.8	4.6	4.5	4.6	4.6
Total Wage and Salary Disbursements	8,085.2	8,353.2	8,752.4	9,160.4	9,596.1	10,046.3	10,523.2	11,020.6
% Ch	2.9	3.3	4.8	4.7	4.8	4.7	4.7	4.7
Nonwage Personal Income	7,843.5	8,075.9	8,352.0	8,771.9	9,169.2	9,571.3	9,995.2	10,447.5
% Ch	1.9	3.0	3.4	5.0	4.5	4.4	4.4	4.5
Supplements to Wages and Salaries	1,893.4	1,956.1	2,016.0	2,104.5	2,204.3	2,296.6	2,388.2	2,488.3
% Ch	2.4	3.3	3.1	4.4	4.7	4.2	4.0	4.2
Proprietor's Income	1,341.9	1,386.0	1,445.8	1,568.8	1,647.1	1,686.2	1,720.5	1,752.7
% Ch	1.8	3.3	4.3	8.5	5.0	2.4	2.0	1.9
Farm	43.2	35.1	34.1	53.5	72.1	71.0	68.3	70.7
% Ch	...	...	...	...	...	...	...	...
Nonfarm	1,298.7	1,350.9	1,411.7	1,515.4	1,575.0	1,615.2	1,652.2	1,682.0
% Ch	2.7	4.0	4.5	7.3	3.9	2.6	2.3	1.8
Less: Contribution For Govt. Soc. Ins.	1,245.3	1,302.6	1,357.9	1,407.8	1,469.7	1,535.4	1,606.0	1,680.4
% Ch	3.1	4.6	4.2	3.7	4.4	4.5	4.6	4.6
Dividends/Int./Rent	3,085.1	3,186.3	3,310.6	3,408.8	3,537.4	3,721.4	3,933.4	4,151.4
% Ch	1.2	3.3	3.9	3.0	3.8	5.2	5.7	5.5
Transfer Payments	2,768.4	2,850.1	2,937.5	3,097.6	3,250.0	3,402.5	3,559.1	3,735.5
% Ch	3.1	3.0	3.1	5.4	4.9	4.7	4.6	5.0

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	16,839.8	17,004.2	17,178.0	17,395.8	17,632.0	17,828.6	18,030.7	18,238.0
% Ch, Annual Rate	4.3	4.0	4.2	5.2	5.5	4.5	4.6	4.7
Total Wage and Salary Disbursements	8,612.4	8,697.9	8,797.7	8,901.6	9,009.9	9,107.6	9,209.5	9,314.7
% Ch, Annual Rate	5.7	4.0	4.7	4.8	5.0	4.4	4.5	4.6
Nonwage Personal Income	8,227.4	8,306.3	8,380.3	8,494.2	8,622.1	8,720.9	8,821.2	8,923.2
% Ch, Annual Rate	2.9	3.9	3.6	5.5	6.2	4.7	4.7	4.7
Supplements to Wages and Salaries	1,995.5	2,006.4	2,019.4	2,042.5	2,070.3	2,092.6	2,115.6	2,139.4
% Ch, Annual Rate	3.4	2.2	2.6	4.7	5.5	4.4	4.5	4.6
Proprietor's Income	1,420.0	1,433.1	1,448.7	1,481.4	1,519.0	1,555.4	1,587.2	1,613.5
% Ch, Annual Rate	4.9	3.7	4.4	9.3	10.6	9.9	8.4	6.8
Farm	29.8	32.9	35.4	38.4	43.1	49.8	57.0	64.0
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,390.2	1,400.2	1,413.3	1,443.0	1,476.0	1,505.7	1,530.3	1,549.6
% Ch, Annual Rate	4.9	2.9	3.8	8.7	9.4	8.3	6.7	5.1
Less: Contribution For Govt. Soc. Ins.	1,355.9	1,347.1	1,358.2	1,370.3	1,389.2	1,401.1	1,413.9	1,427.2
% Ch, Annual Rate	10.0	-2.6	3.3	3.6	5.7	3.5	3.7	3.8
Dividends/Int./Rent	3,259.1	3,289.3	3,329.9	3,364.2	3,374.5	3,393.8	3,418.0	3,449.1
% Ch, Annual Rate	2.6	3.8	5.0	4.2	1.2	2.3	2.9	3.7
Transfer Payments	2,908.7	2,924.5	2,940.5	2,976.3	3,047.6	3,080.3	3,114.2	3,148.4
% Ch, Annual Rate	5.0	2.2	2.2	5.0	9.9	4.4	4.5	4.5

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	18,459.4	18,673.7	18,862.5	19,065.5	19,295.0	19,508.8	19,724.4	19,942.1
% Ch, Annual Rate	4.9	4.7	4.1	4.4	4.9	4.5	4.5	4.5
Total Wage and Salary Disbursements	9,430.2	9,553.7	9,647.4	9,753.2	9,877.0	9,989.3	10,102.3	10,216.5
% Ch, Annual Rate	5.1	5.3	4.0	4.5	5.2	4.6	4.6	4.6
Nonwage Personal Income	9,029.2	9,120.0	9,215.1	9,312.3	9,418.0	9,519.4	9,622.1	9,725.6
% Ch, Annual Rate	4.8	4.1	4.2	4.3	4.6	4.4	4.4	4.4
Supplements to Wages and Salaries	2,168.3	2,195.7	2,215.8	2,237.5	2,265.0	2,286.2	2,307.2	2,328.0
% Ch, Annual Rate	5.5	5.1	3.7	4.0	5.0	3.8	3.7	3.7
Proprietor's Income	1,629.3	1,639.5	1,654.1	1,665.4	1,672.6	1,681.6	1,690.5	1,699.9
% Ch, Annual Rate	4.0	2.5	3.6	2.8	1.8	2.2	2.1	2.3
Farm	68.9	72.1	73.6	73.7	72.9	71.6	70.3	69.2
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,560.4	1,567.5	1,580.4	1,591.6	1,599.7	1,610.0	1,620.2	1,630.7
% Ch, Annual Rate	2.8	1.8	3.3	2.9	2.0	2.6	2.6	2.6
Less: Contribution For Govt. Soc. Ins.	1,448.1	1,464.1	1,476.3	1,490.1	1,512.9	1,527.8	1,542.8	1,558.0
% Ch, Annual Rate	6.0	4.5	3.4	3.8	6.3	4.0	4.0	4.0
Dividends/Int./Rent	3,482.9	3,517.0	3,553.6	3,596.3	3,644.1	3,694.8	3,747.0	3,799.8
% Ch, Annual Rate	4.0	4.0	4.2	4.9	5.4	5.7	5.8	5.8
Transfer Payments	3,196.8	3,231.9	3,267.9	3,303.3	3,349.3	3,384.6	3,420.3	3,455.9
% Ch, Annual Rate	6.3	4.5	4.5	4.4	5.7	4.3	4.3	4.2

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	20,184.9	20,406.0	20,629.7	20,853.1	21,111.5	21,348.8	21,586.1	21,825.9
% Ch, Annual Rate	5.0	4.5	4.5	4.4	5.0	4.6	4.5	4.5
Total Wage and Salary Disbursements	10,344.3	10,462.3	10,582.7	10,703.5	10,837.4	10,959.0	11,081.3	11,204.5
% Ch, Annual Rate	5.1	4.6	4.7	4.6	5.1	4.6	4.5	4.5
Nonwage Personal Income	9,840.5	9,943.7	10,047.0	10,149.6	10,274.0	10,389.7	10,504.8	10,621.4
% Ch, Annual Rate	4.8	4.3	4.2	4.1	5.0	4.6	4.5	4.5
Supplements to Wages and Salaries	2,355.0	2,376.8	2,399.2	2,422.0	2,451.5	2,475.4	2,500.2	2,525.9
% Ch, Annual Rate	4.7	3.7	3.8	3.9	5.0	4.0	4.1	4.2
Proprietor's Income	1,706.7	1,716.4	1,725.6	1,733.5	1,739.2	1,747.8	1,756.7	1,767.1
% Ch, Annual Rate	1.6	2.3	2.2	1.8	1.3	2.0	2.1	2.4
Farm	68.4	68.1	68.1	68.6	69.3	70.2	71.2	72.2
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,638.3	1,648.4	1,657.5	1,664.9	1,669.9	1,677.6	1,685.5	1,694.9
% Ch, Annual Rate	1.9	2.5	2.2	1.8	1.2	1.9	1.9	2.2
Less: Contribution For Govt. Soc. Ins.	1,581.9	1,597.8	1,614.0	1,630.3	1,655.6	1,672.1	1,688.7	1,705.4
% Ch, Annual Rate	6.3	4.1	4.1	4.1	6.4	4.0	4.0	4.0
Dividends/Int./Rent	3,852.3	3,906.1	3,960.4	4,014.8	4,064.5	4,123.4	4,180.8	4,237.1
% Ch, Annual Rate	5.6	5.7	5.7	5.6	5.0	5.9	5.7	5.5
Transfer Payments	3,508.5	3,542.2	3,575.9	3,609.7	3,674.5	3,715.2	3,755.7	3,796.7
% Ch, Annual Rate	6.2	3.9	3.9	3.8	7.4	4.5	4.4	4.4

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	397.772	420.120	444.554	467.693	491.377	516.019	541.969	569.146
% Ch	4.7	5.6	5.8	5.2	5.1	5.0	5.0	5.0
Total Wage and Salary Disbursements	203.613	218.795	234.123	246.252	259.196	272.278	285.942	300.217
% Ch	6.1	7.5	7.0	5.2	5.3	5.0	5.0	5.0
Manufacturing	21.735	21.719	23.063	23.873	24.929	26.057	27.248	28.491
% Ch	-0.3	-0.1	6.2	3.5	4.4	4.5	4.6	4.6
Durable Manufacturing	17.318	17.097	18.182	18.762	19.605	20.492	21.440	22.418
% Ch	-1.6	-1.3	6.3	3.2	4.5	4.5	4.6	4.6
Nondurable Manufacturing	4.417	4.622	4.882	5.111	5.325	5.565	5.808	6.073
% Ch	4.9	4.6	5.6	4.7	4.2	4.5	4.4	4.6
Nonmanufacturing	174.750	189.729	203.381	214.401	225.924	237.571	249.700	262.379
% Ch	7.1	8.6	7.2	5.4	5.4	5.2	5.1	5.1
Other Private Wages	1.197	1.289	1.409	1.462	1.516	1.570	1.624	1.678
% Ch	4.0	7.7	9.3	3.7	3.7	3.5	3.4	3.3
Farm Wages	1.813	1.880	1.976	2.082	2.195	2.308	2.425	2.545
% Ch	13.2	3.6	5.1	5.4	5.4	5.2	5.1	4.9
Military Wages	4.118	4.179	4.294	4.435	4.630	4.772	4.946	5.124
% Ch	0.2	1.5	2.8	3.3	4.4	3.1	3.6	3.6
Nonwage Personal Income	194.159	201.325	210.432	221.441	232.181	243.740	256.027	268.929
% Ch	3.2	3.7	4.5	5.2	4.9	5.0	5.0	5.0
Supplements to Wages and Salaries	46.494	49.182	51.162	53.699	56.488	59.043	61.551	64.231
% Ch	6.0	5.8	4.0	5.0	5.2	4.5	4.2	4.4
Proprietor's Income	29.803	30.441	31.494	33.541	34.763	35.509	36.212	36.806
% Ch	0.9	2.1	3.5	6.5	3.6	2.1	2.0	1.6
Farm	2.496	1.784	1.383	1.281	1.288	1.225	1.181	1.182
% Ch	...	...	...	...	...	...	...	...
Nonfarm	27.307	28.657	30.111	32.259	33.475	34.284	35.031	35.624
% Ch	1.9	4.9	5.1	7.1	3.8	2.4	2.2	1.7
Less: Contribution For Govt. Soc. Ins.	33.536	35.761	37.569	39.123	40.982	42.911	44.952	47.098
% Ch	4.2	6.6	5.1	4.1	4.8	4.7	4.8	4.8
Plus: Residence Adjustment	3.717	3.795	3.946	4.136	4.340	4.554	4.785	5.028
% Ch	5.1	2.1	4.0	4.8	4.9	4.9	5.1	5.1
Dividends/Int./Rent	88.021	91.879	96.047	99.666	104.123	110.151	116.961	123.908
% Ch	1.4	4.4	4.5	3.8	4.5	5.8	6.2	5.9
Transfer Payments	59.662	61.789	65.351	69.523	73.450	77.393	81.470	86.055
% Ch	5.6	3.6	5.8	6.4	5.6	5.4	5.3	5.6
State U.I. Benefits	0.982	0.964	0.866	0.585	0.648	0.762	0.921	1.093
% Ch	1.2	-1.8	-10.2	-32.4	10.8	17.6	20.8	18.7
Other Transfers	58.679	60.825	64.485	68.938	72.801	76.631	80.548	84.962
% Ch	5.7	3.7	6.0	6.9	5.6	5.3	5.1	5.5



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	436.867	441.608	446.840	452.902	459.365	464.865	470.389	476.154
% Ch, Annual Rate	7.9	4.4	4.8	5.5	5.8	4.9	4.8	5.0
Total Wage and Salary Disbursements	230.042	232.418	235.487	238.544	241.801	244.759	247.689	250.759
% Ch, Annual Rate	12.1	4.2	5.4	5.3	5.6	5.0	4.9	5.1
Manufacturing	23.314	22.719	22.967	23.253	23.510	23.734	23.987	24.259
% Ch, Annual Rate	23.8	-9.8	4.4	5.1	4.5	3.9	4.3	4.6
Durable Manufacturing	18.522	17.874	18.056	18.275	18.474	18.651	18.853	19.070
% Ch, Annual Rate	27.8	-13.3	4.1	4.9	4.4	3.9	4.4	4.7
Nondurable Manufacturing	4.793	4.844	4.911	4.978	5.036	5.083	5.135	5.190
% Ch, Annual Rate	9.9	4.4	5.6	5.6	4.8	3.8	4.1	4.4
Nonmanufacturing	199.091	202.041	204.825	207.568	210.374	213.065	215.696	218.467
% Ch, Annual Rate	10.9	6.1	5.6	5.5	5.5	5.2	5.0	5.2
Other Private Wages	1.394	1.402	1.414	1.427	1.442	1.456	1.468	1.481
% Ch, Annual Rate	7.5	2.2	3.6	3.8	4.2	3.7	3.5	3.6
Farm Wages	1.943	1.961	1.986	2.013	2.042	2.069	2.095	2.122
% Ch, Annual Rate	9.6	3.7	5.3	5.5	6.0	5.4	5.2	5.2
Military Wages	4.300	4.295	4.296	4.284	4.432	4.436	4.441	4.429
% Ch, Annual Rate	9.5	-0.5	0.0	-1.1	14.6	0.4	0.5	-1.1
Nonwage Personal Income	206.825	209.191	211.353	214.358	217.565	220.106	222.700	225.395
% Ch, Annual Rate	3.4	4.7	4.2	5.8	6.1	4.8	4.8	4.9
Supplements to Wages and Salaries	50.529	50.895	51.295	51.930	52.734	53.382	54.015	54.666
% Ch, Annual Rate	5.0	2.9	3.2	5.0	6.3	5.0	4.8	4.9
Proprietor's Income	31.097	31.300	31.507	32.071	32.726	33.336	33.847	34.254
% Ch, Annual Rate	4.1	2.6	2.7	7.4	8.4	7.7	6.3	4.9
Farm	1.478	1.407	1.346	1.300	1.277	1.274	1.281	1.294
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	29.619	29.893	30.161	30.771	31.449	32.062	32.566	32.960
% Ch, Annual Rate	5.8	3.8	3.6	8.3	9.1	8.0	6.4	4.9
Less: Contribution For Govt. Soc. Ins.	37.404	37.266	37.619	37.985	38.557	38.929	39.304	39.701
% Ch, Annual Rate	11.1	-1.5	3.8	4.0	6.2	3.9	3.9	4.1
Plus: Residence Adjustment	3.877	3.922	3.969	4.017	4.066	4.110	4.158	4.208
% Ch, Annual Rate	4.2	4.7	4.9	5.0	5.0	4.4	4.7	4.9
Dividends/Int./Rent	94.257	95.330	96.704	97.898	98.388	99.137	100.027	101.114
% Ch, Annual Rate	3.4	4.6	5.9	5.0	2.0	3.1	3.6	4.4
Transfer Payments	64.470	65.010	65.497	66.426	68.208	69.070	69.958	70.855
% Ch, Annual Rate	6.1	3.4	3.0	5.8	11.2	5.2	5.2	5.2
State U.I. Benefits	0.956	0.956	0.847	0.704	0.617	0.577	0.568	0.578
% Ch, Annual Rate	-5.2	0.0	-38.5	-52.3	-40.8	-23.7	-6.1	7.8
Other Transfers	63.514	64.054	64.651	65.723	67.591	68.493	69.390	70.276
% Ch, Annual Rate	6.3	3.4	3.8	6.8	11.9	5.4	5.3	5.2

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	482.498	488.737	494.168	500.104	506.745	512.903	519.096	525.331
% Ch, Annual Rate	5.4	5.3	4.5	4.9	5.4	5.0	4.9	4.9
Total Wage and Salary Disbursements	254.268	257.948	260.714	263.852	267.486	270.678	273.868	277.082
% Ch, Annual Rate	5.7	5.9	4.4	4.9	5.6	4.9	4.8	4.8
Manufacturing	24.529	24.814	25.049	25.326	25.618	25.913	26.205	26.493
% Ch, Annual Rate	4.5	4.7	3.8	4.5	4.7	4.7	4.6	4.5
Durable Manufacturing	19.287	19.516	19.700	19.915	20.145	20.378	20.608	20.838
% Ch, Annual Rate	4.6	4.8	3.8	4.4	4.7	4.7	4.6	4.5
Nondurable Manufacturing	5.241	5.298	5.350	5.411	5.473	5.535	5.597	5.655
% Ch, Annual Rate	4.0	4.4	4.0	4.7	4.7	4.6	4.5	4.2
Nonmanufacturing	221.475	224.760	227.303	230.160	233.281	236.134	238.986	241.884
% Ch, Annual Rate	5.6	6.1	4.6	5.1	5.5	5.0	4.9	4.9
Other Private Wages	1.496	1.512	1.522	1.535	1.551	1.563	1.576	1.589
% Ch, Annual Rate	4.1	4.3	2.8	3.4	4.1	3.3	3.3	3.2
Farm Wages	2.153	2.184	2.208	2.235	2.266	2.294	2.322	2.349
% Ch, Annual Rate	5.8	6.0	4.4	5.0	5.8	5.0	4.9	4.9
Military Wages	4.615	4.678	4.632	4.597	4.770	4.774	4.779	4.767
% Ch, Annual Rate	17.9	5.5	-3.9	-3.0	15.9	0.3	0.4	-1.0
Nonwage Personal Income	228.230	230.789	233.454	236.251	239.259	242.226	245.228	248.249
% Ch, Annual Rate	5.1	4.6	4.7	4.9	5.2	5.1	5.1	5.0
Supplements to Wages and Salaries	55.492	56.253	56.800	57.407	58.189	58.765	59.330	59.889
% Ch, Annual Rate	6.2	5.6	3.9	4.3	5.6	4.0	3.9	3.8
Proprietor's Income	34.476	34.620	34.871	35.085	35.226	35.413	35.600	35.799
% Ch, Annual Rate	2.6	1.7	2.9	2.5	1.6	2.1	2.1	2.3
Farm	1.298	1.296	1.287	1.272	1.253	1.233	1.215	1.200
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	33.178	33.324	33.584	33.813	33.974	34.179	34.384	34.598
% Ch, Annual Rate	2.7	1.8	3.2	2.8	1.9	2.4	2.4	2.5
Less: Contribution For Govt. Soc. Ins.	40.331	40.817	41.181	41.598	42.268	42.696	43.124	43.556
% Ch, Annual Rate	6.5	4.9	3.6	4.1	6.6	4.1	4.1	4.1
Plus: Residence Adjustment	4.261	4.319	4.364	4.414	4.472	4.527	4.581	4.637
% Ch, Annual Rate	5.2	5.6	4.2	4.7	5.4	4.9	4.9	4.9
Dividends/Int./Rent	102.276	103.443	104.681	106.092	107.652	109.296	110.978	112.678
% Ch, Annual Rate	4.7	4.6	4.9	5.5	6.0	6.3	6.3	6.3
Transfer Payments	72.057	72.970	73.920	74.853	75.987	76.921	77.863	78.802
% Ch, Annual Rate	7.0	5.2	5.3	5.1	6.2	5.0	5.0	4.9
State U.I. Benefits	0.629	0.639	0.657	0.669	0.696	0.739	0.785	0.829
% Ch, Annual Rate	39.7	6.7	11.3	7.7	17.2	26.8	27.8	24.2
Other Transfers	71.428	72.331	73.263	74.184	75.290	76.182	77.078	77.973
% Ch, Annual Rate	6.7	5.2	5.3	5.1	6.1	4.8	4.8	4.7

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	532.354	538.735	545.184	551.603	559.011	565.790	572.529	579.253
% Ch, Annual Rate	5.5	4.9	4.9	4.8	5.5	4.9	4.8	4.8
Total Wage and Salary Disbursements	280.832	284.207	287.650	291.082	295.021	298.495	301.960	305.391
% Ch, Annual Rate	5.5	4.9	4.9	4.9	5.5	4.8	4.7	4.6
Manufacturing	26.789	27.088	27.400	27.716	28.031	28.342	28.645	28.946
% Ch, Annual Rate	4.5	4.5	4.7	4.7	4.6	4.5	4.4	4.3
Durable Manufacturing	21.074	21.313	21.561	21.812	22.059	22.302	22.537	22.773
% Ch, Annual Rate	4.6	4.6	4.7	4.7	4.6	4.5	4.3	4.2
Nondurable Manufacturing	5.715	5.775	5.838	5.904	5.972	6.040	6.108	6.174
% Ch, Annual Rate	4.3	4.3	4.5	4.6	4.7	4.6	4.6	4.4
Nonmanufacturing	245.114	248.144	251.228	254.313	257.708	260.825	263.940	267.041
% Ch, Annual Rate	5.4	5.0	5.1	5.0	5.4	4.9	4.9	4.8
Other Private Wages	1.604	1.617	1.630	1.643	1.659	1.671	1.684	1.696
% Ch, Annual Rate	3.9	3.3	3.3	3.2	3.8	3.1	3.0	2.9
Farm Wages	2.382	2.410	2.440	2.469	2.502	2.531	2.560	2.588
% Ch, Annual Rate	5.6	4.9	4.9	4.8	5.5	4.7	4.6	4.5
Military Wages	4.944	4.948	4.953	4.941	5.121	5.126	5.131	5.119
% Ch, Annual Rate	15.7	0.3	0.4	-1.0	15.4	0.3	0.4	-0.9
Nonwage Personal Income	251.523	254.528	257.535	260.521	263.990	267.296	270.569	273.862
% Ch, Annual Rate	5.4	4.9	4.8	4.7	5.4	5.1	5.0	5.0
Supplements to Wages and Salaries	60.659	61.247	61.849	62.451	63.274	63.904	64.547	65.198
% Ch, Annual Rate	5.2	3.9	4.0	4.0	5.4	4.0	4.1	4.1
Proprietor's Income	35.939	36.135	36.313	36.461	36.561	36.717	36.878	37.067
% Ch, Annual Rate	1.6	2.2	2.0	1.6	1.1	1.7	1.8	2.1
Farm	1.189	1.181	1.177	1.176	1.177	1.180	1.184	1.188
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	34.750	34.954	35.136	35.286	35.384	35.538	35.694	35.879
% Ch, Annual Rate	1.8	2.4	2.1	1.7	1.1	1.7	1.8	2.1
Less: Contribution For Govt. Soc. Ins.	44.257	44.716	45.184	45.650	46.390	46.864	47.336	47.801
% Ch, Annual Rate	6.6	4.2	4.3	4.2	6.6	4.1	4.1	4.0
Plus: Residence Adjustment	4.698	4.755	4.814	4.873	4.937	4.997	5.057	5.119
% Ch, Annual Rate	5.3	5.0	5.0	5.0	5.4	4.9	4.9	5.0
Dividends/Int./Rent	114.366	116.090	117.825	119.563	121.155	123.022	124.837	126.617
% Ch, Annual Rate	6.1	6.2	6.1	6.0	5.4	6.3	6.0	5.8
Transfer Payments	80.120	81.018	81.918	82.823	84.453	85.520	86.586	87.662
% Ch, Annual Rate	6.9	4.6	4.5	4.5	8.1	5.2	5.1	5.1
State U.I. Benefits	0.867	0.903	0.938	0.977	1.021	1.070	1.120	1.163
% Ch, Annual Rate	19.5	17.8	16.4	17.9	18.9	20.6	20.4	16.2
Other Transfers	79.253	80.115	80.980	81.846	83.432	84.450	85.465	86.499
% Ch, Annual Rate	6.7	4.4	4.4	4.3	8.0	5.0	4.9	4.9