



ECONOMIC FORECAST

Calendar Year Summary Tables

Final
March 13, 2019

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Table A1.1
U.S. Economic Forecast Summary
Forecast 2019 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Real National Income Accounts (Billions of Chained 2012 Dollars)								
Real Gross Domestic Product	17,659.2	18,050.7	18,571.3	19,018.4	19,370.5	19,699.8	20,074.0	20,475.5
% Ch	1.6	2.2	2.9	2.4	1.9	1.7	1.9	2.0
Real Consumption	12,248.2	12,558.7	12,890.6	13,219.1	13,487.3	13,743.6	14,018.5	14,298.8
% Ch	2.7	2.5	2.6	2.5	2.0	1.9	2.0	2.0
Real Nonresidential Fixed Investment	2,411.2	2,538.1	2,714.8	2,823.8	2,914.6	3,017.5	3,138.7	3,260.1
% Ch	0.5	5.3	7.0	4.0	3.2	3.5	4.0	3.9
Real Residential Fixed Investment	591.3	611.1	609.6	596.2	606.7	619.1	638.8	649.1
% Ch	6.5	3.3	-0.2	-2.2	1.8	2.0	3.2	1.6
Real Personal Income	15,469.7	15,866.8	16,244.0	16,647.9	17,004.1	17,359.7	17,743.5	18,143.9
% Ch	1.5	2.6	2.4	2.5	2.1	2.1	2.2	2.3
Real Per Capita Income (\$/Person)	47,752	48,630	49,435	50,297	51,012	51,716	52,496	53,317
% Ch	0.8	1.8	1.7	1.7	1.4	1.4	1.5	1.6
Price and Wage Indexes								
PCE Price Index (2012=100)	104.2	106.1	108.2	110.1	112.4	114.7	117.0	119.3
% Ch	1.1	1.8	2.0	1.8	2.1	2.1	2.0	1.9
U.S. Consumer Price Index (1982-84=1.0)	2.400	2.451	2.511	2.558	2.614	2.672	2.730	2.788
% Ch	1.3	2.1	2.4	1.9	2.2	2.2	2.2	2.1
Employment Cost Index (Dec. 2005=1.0)	1.262	1.295	1.334	1.370	1.416	1.464	1.516	1.568
% Ch	2.4	2.6	3.0	2.8	3.3	3.4	3.5	3.5
Current Dollar National Income (Billions of Dollars)								
Gross Domestic Product	18,707.2	19,485.4	20,500.6	21,411.0	22,307.5	23,214.0	24,188.0	25,199.9
% Ch	2.7	4.2	5.2	4.4	4.2	4.1	4.2	4.2
Personal Income	16,125.1	16,830.9	17,581.4	18,336.8	19,114.7	19,920.5	20,766.3	21,643.7
% Ch	2.6	4.4	4.5	4.3	4.2	4.2	4.2	4.2
Employment (Millions)								
U.S. Civilian Labor Force	159.2	160.3	162.1	163.8	165.3	166.3	167.3	168.3
Total U.S. Employment	151.4	153.3	155.8	157.9	159.2	159.8	160.6	161.4
Unemployment Rate (%)	4.87	4.35	3.89	3.59	3.68	3.93	4.02	4.06
Nonfarm Payroll Employment	144.35	146.61	149.06	151.59	152.98	153.53	154.38	155.34
% Ch	1.8	1.6	1.7	1.7	0.9	0.4	0.6	0.6
Manufacturing	12.35	12.44	12.69	12.88	12.76	12.51	12.46	12.48
% Ch	0.1	0.7	2.0	1.5	-0.9	-1.9	-0.5	0.2
Durable Manufacturing	7.71	7.74	7.95	8.10	8.01	7.80	7.76	7.80
% Ch	-0.7	0.3	2.7	2.0	-1.2	-2.5	-0.5	0.5
Nondurable Manufacturing	4.64	4.70	4.74	4.78	4.75	4.71	4.69	4.68
% Ch	1.5	1.3	0.9	0.7	-0.5	-0.9	-0.4	-0.4
Construction	6.73	6.97	7.29	7.50	7.60	7.83	8.12	8.41
% Ch	4.1	3.6	4.7	2.9	1.2	3.1	3.7	3.6
Service-Providing	124.60	126.53	128.35	130.46	131.87	132.42	133.03	133.67
% Ch	1.9	1.5	1.4	1.6	1.1	0.4	0.5	0.5
Miscellaneous Indicators								
Oil-WTI (\$ per barrel)	43.2	51.0	64.9	56.6	57.6	55.9	54.6	54.0
Personal Saving/Disposable Income (%)	6.7	6.7	6.8	6.5	6.6	6.8	6.9	6.9
Auto Sales (Millions)	6.9	6.1	5.3	4.9	4.8	4.8	4.9	5.0
% Ch	-8.6	-11.5	-12.8	-6.7	-2.2	-0.6	0.9	2.3
Housing Starts (Millions)	1.177	1.208	1.245	1.233	1.272	1.307	1.352	1.359
% Ch	6.4	2.6	3.0	-0.9	3.1	2.8	3.4	0.5
Federal Budget Surplus (Billions)	-665.1	-695.4	-981.8	-1,094.5	-1,159.6	-1,236.2	-1,278.4	-1,289.6
Net Exports (Billions)	-520.6	-578.4	-625.6	-667.3	-675.5	-688.2	-697.7	-667.5
3-Month Treasury Bill Rate (%)	0.32	0.93	1.94	2.53	2.68	2.68	2.66	2.54
10-Year Treasury Note Yield (%)	1.84	2.33	2.91	2.83	3.09	3.23	3.26	3.25
Bond Index of 20 G.O. Munis. (%)	3.27	3.67	3.96	4.21	4.39	4.56	4.65	4.66
30-Year Fixed Mortgage Rate (%)	3.65	3.99	4.54	4.55	4.79	4.91	4.92	4.89

Table A1.2
U.S. Economic Forecast Summary
 Forecast 2019 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Real National Income Accounts (Billions of Chained 2012 Dollars)								
Real Gross Domestic Product	18,324.0	18,511.6	18,665.0	18,784.6	18,852.0	18,971.4	19,078.2	19,172.1
% Ch , Annual Rate	2.2	4.2	3.4	2.6	1.4	2.6	2.3	2.0
Real Consumption	12,722.8	12,842.0	12,953.3	13,044.2	13,100.5	13,183.0	13,259.5	13,333.3
% Ch , Annual Rate	0.5	3.8	3.5	2.8	1.7	2.5	2.3	2.2
Real Nonresidential Fixed Investment	2,654.0	2,710.1	2,727.0	2,768.0	2,788.1	2,812.6	2,836.1	2,858.2
% Ch , Annual Rate	11.5	8.7	2.5	6.2	2.9	3.6	3.4	3.2
Real Residential Fixed Investment	615.3	613.2	607.7	602.3	590.0	594.2	597.9	602.5
% Ch , Annual Rate	-3.4	-1.3	-3.6	-3.5	-7.9	2.9	2.5	3.1
Real Personal Income	16,107.2	16,165.1	16,277.9	16,425.6	16,519.9	16,597.5	16,690.9	16,783.4
% Ch , Annual Rate	2.6	1.4	2.8	3.7	2.3	1.9	2.3	2.2
Real Per Capita Income (\$/Person)	49,157	49,246	49,488	49,848	50,044	50,190	50,383	50,572
% Ch , Annual Rate	2.0	0.7	2.0	2.9	1.6	1.2	1.5	1.5
Price and Wage Indexes								
PCE Price Index (2012=100)	107.5	108.1	108.5	108.9	109.3	109.9	110.4	111.0
% Ch , Annual Rate	2.5	2.0	1.6	1.5	1.4	2.2	2.1	2.0
U.S. Consumer Price Index (1982-84=1.0)	2.493	2.506	2.518	2.528	2.534	2.551	2.567	2.581
% Ch , Annual Rate	3.2	2.1	2.0	1.5	0.9	2.8	2.5	2.2
Employment Cost Index (Dec. 2005=1.0)	1.320	1.328	1.339	1.348	1.356	1.365	1.375	1.386
% Ch , Annual Rate	4.0	2.4	3.4	2.7	2.4	2.6	2.9	3.3
Current Dollar National Income (Billions of Dollars)								
Gross Domestic Product	20,041.0	20,411.9	20,658.2	20,891.4	21,065.8	21,299.2	21,526.4	21,752.6
% Ch , Annual Rate	4.3	7.6	4.9	4.6	3.4	4.5	4.3	4.3
Personal Income	17,319.2	17,466.7	17,657.3	17,882.4	18,049.8	18,234.6	18,433.6	18,629.2
% Ch , Annual Rate	5.2	3.5	4.4	5.2	3.8	4.2	4.4	4.3
Employment (Millions)								
U.S. Civilian Labor Force	161.6	161.8	162.0	162.9	163.2	163.5	163.9	164.4
Total U.S. Employment	155.0	155.4	155.9	156.8	157.0	157.7	158.2	158.6
Unemployment Rate (%)	4.09	3.91	3.79	3.77	3.77	3.55	3.50	3.53
Nonfarm Payroll Employment	148.05	148.74	149.41	150.06	150.78	151.35	151.90	152.33
% Ch , Annual Rate	1.8	1.9	1.8	1.7	1.9	1.5	1.4	1.1
Manufacturing	12.59	12.66	12.72	12.79	12.84	12.87	12.88	12.92
% Ch , Annual Rate	2.3	2.3	1.9	2.2	1.7	1.0	0.2	1.2
Durable Manufacturing	7.86	7.92	7.97	8.02	8.07	8.10	8.10	8.13
% Ch , Annual Rate	3.4	3.0	2.7	2.5	2.6	1.3	0.2	1.6
Nondurable Manufacturing	4.73	4.74	4.74	4.76	4.77	4.77	4.78	4.78
% Ch , Annual Rate	0.5	1.0	0.6	1.7	0.2	0.7	0.1	0.6
Construction	7.18	7.26	7.33	7.39	7.48	7.50	7.51	7.52
% Ch , Annual Rate	6.7	4.8	4.0	3.3	4.7	1.3	0.5	0.7
Service-Providing	127.58	128.09	128.62	129.13	129.70	130.24	130.77	131.15
% Ch , Annual Rate	1.4	1.6	1.6	1.6	1.8	1.7	1.6	1.2
Miscellaneous Indicators								
Oil-WTI (\$ per barrel)	62.9	68.0	69.8	58.9	54.1	56.5	57.6	58.2
Personal Saving/Disposable Income (%)	7.2	6.7	6.4	6.7	6.7	6.5	6.5	6.4
Auto Sales (Millions)	5.4	5.3	5.1	5.3	5.0	4.9	4.9	4.9
% Ch , Annual Rate	-32.1	-8.8	-13.4	16.4	-20.0	-7.6	-2.9	0.6
Housing Starts (Millions)	1.317	1.261	1.234	1.167	1.201	1.235	1.238	1.259
% Ch , Annual Rate	19.6	-16.0	-8.3	-19.9	12.2	11.7	1.1	7.0
Federal Budget Surplus (Billions)	-969.9	-993.7	-960.6	-1,003.0	-1,080.4	-1,097.7	-1,097.6	-1,102.3
Net Exports (Billions)	-639.2	-549.8	-653.5	-659.8	-646.7	-663.9	-676.7	-681.7
3-Month Treasury Bill Rate (%)	1.56	1.84	2.04	2.32	2.44	2.50	2.57	2.59
10-Year Treasury Note Yield (%)	2.76	2.92	2.93	3.03	2.71	2.79	2.88	2.94
Bond Index of 20 G.O. Munis. (%)	3.73	3.89	3.97	4.25	4.21	4.17	4.20	4.25
30-Year Fixed Mortgage Rate (%)	4.27	4.54	4.57	4.78	4.40	4.55	4.60	4.65

Table A1.2 (continued)
U.S. Economic Forecast Summary
 Forecast 2019 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Real National Income Accounts (Billions of Chained 2012 Dollars)								
Real Gross Domestic Product	19,253.0	19,333.3	19,408.2	19,487.3	19,573.1	19,654.8	19,739.5	19,831.7
% Ch , Annual Rate	1.7	1.7	1.6	1.6	1.8	1.7	1.7	1.9
Real Consumption	13,401.0	13,462.0	13,516.2	13,570.2	13,640.9	13,709.2	13,777.4	13,847.0
% Ch , Annual Rate	2.0	1.8	1.6	1.6	2.1	2.0	2.0	2.0
Real Nonresidential Fixed Investment	2,877.7	2,896.9	2,927.5	2,956.2	2,979.1	3,002.8	3,029.2	3,058.9
% Ch , Annual Rate	2.8	2.7	4.3	4.0	3.1	3.2	3.6	4.0
Real Residential Fixed Investment	604.2	604.5	606.6	611.7	614.1	615.6	619.8	626.9
% Ch , Annual Rate	1.1	0.2	1.4	3.4	1.6	1.0	2.8	4.7
Real Personal Income	16,878.1	16,968.6	17,045.5	17,124.1	17,230.6	17,315.2	17,400.5	17,492.4
% Ch , Annual Rate	2.3	2.2	1.8	1.9	2.5	2.0	2.0	2.1
Real Per Capita Income (\$/Person)	50,768	50,950	51,091	51,237	51,465	51,628	51,793	51,976
% Ch , Annual Rate	1.6	1.4	1.1	1.1	1.8	1.3	1.3	1.4
Price and Wage Indexes								
PCE Price Index (2012=100)	111.6	112.1	112.7	113.3	113.9	114.5	115.0	115.6
% Ch , Annual Rate	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.0
U.S. Consumer Price Index (1982-84=1.0)	2.595	2.608	2.621	2.634	2.649	2.665	2.680	2.695
% Ch , Annual Rate	2.2	2.0	2.1	1.9	2.4	2.4	2.3	2.2
Employment Cost Index (Dec. 2005=1.0)	1.397	1.410	1.421	1.433	1.446	1.458	1.470	1.483
% Ch , Annual Rate	3.4	3.6	3.3	3.4	3.5	3.4	3.5	3.5
Current Dollar National Income (Billions of Dollars)								
Gross Domestic Product	21,974.7	22,197.2	22,414.3	22,643.8	22,870.1	23,091.6	23,325.4	23,569.0
% Ch , Annual Rate	4.1	4.1	4.0	4.2	4.1	3.9	4.1	4.2
Personal Income	18,829.9	19,025.2	19,208.9	19,395.0	19,618.4	19,817.7	20,019.0	20,226.9
% Ch , Annual Rate	4.4	4.2	3.9	3.9	4.7	4.1	4.1	4.2
Employment (Millions)								
U.S. Civilian Labor Force	164.8	165.4	165.4	165.6	165.9	166.2	166.5	166.7
Total U.S. Employment	158.9	159.4	159.3	159.4	159.5	159.7	159.9	160.0
Unemployment Rate (%)	3.58	3.62	3.72	3.79	3.84	3.91	3.96	3.99
Nonfarm Payroll Employment	152.64	153.10	153.05	153.11	153.28	153.44	153.61	153.81
% Ch , Annual Rate	0.8	1.2	-0.1	0.2	0.4	0.4	0.5	0.5
Manufacturing	12.88	12.80	12.71	12.65	12.58	12.52	12.49	12.47
% Ch , Annual Rate	-1.2	-2.4	-2.8	-2.1	-2.1	-1.8	-1.1	-0.7
Durable Manufacturing	8.11	8.04	7.97	7.92	7.86	7.81	7.78	7.76
% Ch , Annual Rate	-1.4	-3.4	-3.4	-2.4	-2.8	-2.6	-1.5	-0.9
Nondurable Manufacturing	4.77	4.77	4.75	4.73	4.72	4.71	4.71	4.70
% Ch , Annual Rate	-0.9	-0.6	-1.6	-1.4	-0.9	-0.6	-0.4	-0.4
Construction	7.54	7.56	7.61	7.68	7.74	7.80	7.86	7.93
% Ch , Annual Rate	0.7	1.3	2.5	3.5	3.3	3.0	3.3	3.8
Service-Providing	131.48	131.99	131.98	132.04	132.20	132.36	132.50	132.64
% Ch , Annual Rate	1.0	1.6	0.0	0.2	0.5	0.5	0.4	0.4
Miscellaneous Indicators								
Oil-WTI (\$ per barrel)	58.1	57.8	57.4	57.0	56.5	56.1	55.7	55.4
Personal Saving/Disposable Income (%)	6.5	6.6	6.6	6.7	6.8	6.8	6.8	6.8
Auto Sales (Millions)	4.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8
% Ch , Annual Rate	-3.8	-2.0	-0.5	-1.5	-0.7	-0.1	0.6	0.4
Housing Starts (Millions)	1.256	1.271	1.276	1.283	1.281	1.293	1.316	1.339
% Ch , Annual Rate	-0.8	4.8	1.4	2.3	-0.5	3.8	7.0	7.3
Federal Budget Surplus (Billions)	-1,129.4	-1,158.3	-1,168.6	-1,182.0	-1,220.1	-1,231.3	-1,241.1	-1,252.3
Net Exports (Billions)	-684.2	-682.5	-673.4	-661.9	-672.9	-686.6	-694.6	-698.9
3-Month Treasury Bill Rate (%)	2.57	2.74	2.71	2.70	2.69	2.68	2.67	2.67
10-Year Treasury Note Yield (%)	2.99	3.07	3.12	3.17	3.20	3.22	3.24	3.25
Bond Index of 20 G.O. Munis. (%)	4.29	4.35	4.42	4.47	4.51	4.55	4.58	4.60
30-Year Fixed Mortgage Rate (%)	4.70	4.77	4.82	4.86	4.89	4.90	4.91	4.92

Table A1.2 (continued)
U.S. Economic Forecast Summary
 Forecast 2019 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Real National Income Accounts (Billions of Chained 2012 Dollars)								
Real Gross Domestic Product	19,924.0	20,022.7	20,125.2	20,224.3	20,324.3	20,424.4	20,524.6	20,628.8
% Ch , Annual Rate	1.9	2.0	2.1	2.0	2.0	2.0	2.0	2.0
Real Consumption	13,913.3	13,982.8	14,053.0	14,124.7	14,193.5	14,263.1	14,333.4	14,405.3
% Ch , Annual Rate	1.9	2.0	2.0	2.1	2.0	2.0	2.0	2.0
Real Nonresidential Fixed Investment	3,090.4	3,122.4	3,155.3	3,186.8	3,217.8	3,246.9	3,274.5	3,301.1
% Ch , Annual Rate	4.2	4.2	4.3	4.1	3.9	3.7	3.4	3.3
Real Residential Fixed Investment	633.0	637.3	641.4	643.6	645.4	648.1	650.3	652.6
% Ch , Annual Rate	4.0	2.8	2.5	1.4	1.1	1.7	1.3	1.5
Real Personal Income	17,602.2	17,697.8	17,790.0	17,884.2	17,998.9	18,094.7	18,191.7	18,290.3
% Ch , Annual Rate	2.5	2.2	2.1	2.1	2.6	2.1	2.2	2.2
Real Per Capita Income (\$/Person)	52,212	52,406	52,589	52,777	53,026	53,218	53,413	53,613
% Ch , Annual Rate	1.8	1.5	1.4	1.4	1.9	1.5	1.5	1.5
Price and Wage Indexes								
PCE Price Index (2012=100)	116.2	116.7	117.3	117.9	118.4	119.0	119.6	120.1
% Ch , Annual Rate	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9
U.S. Consumer Price Index (1982-84=1.0)	2.709	2.722	2.738	2.752	2.767	2.781	2.795	2.810
% Ch , Annual Rate	2.1	2.0	2.3	2.1	2.1	2.0	2.1	2.1
Employment Cost Index (Dec. 2005=1.0)	1.496	1.509	1.522	1.535	1.548	1.562	1.575	1.589
% Ch , Annual Rate	3.6	3.5	3.4	3.5	3.5	3.5	3.5	3.5
Current Dollar National Income (Billions of Dollars)								
Gross Domestic Product	23,811.0	24,059.0	24,315.6	24,566.5	24,817.5	25,070.5	25,325.3	25,586.4
% Ch , Annual Rate	4.2	4.2	4.3	4.2	4.1	4.1	4.1	4.2
Personal Income	20,452.1	20,659.4	20,870.8	21,082.9	21,318.9	21,532.8	21,750.6	21,972.7
% Ch , Annual Rate	4.5	4.1	4.2	4.1	4.6	4.1	4.1	4.1
Employment (Millions)								
U.S. Civilian Labor Force	166.9	167.2	167.4	167.7	167.9	168.1	168.4	168.6
Total U.S. Employment	160.3	160.5	160.7	160.9	161.1	161.3	161.5	161.7
Unemployment Rate (%)	4.01	4.02	4.03	4.03	4.04	4.05	4.07	4.08
Nonfarm Payroll Employment	154.03	154.26	154.50	154.75	155.00	155.23	155.45	155.67
% Ch, Annual Rate	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Manufacturing	12.46	12.45	12.45	12.46	12.47	12.48	12.48	12.49
% Ch, Annual Rate	-0.2	-0.3	0.1	0.3	0.2	0.2	0.3	0.3
Durable Manufacturing	7.76	7.75	7.76	7.78	7.79	7.80	7.81	7.82
% Ch, Annual Rate	-0.1	-0.3	0.4	0.7	0.6	0.6	0.7	0.6
Nondurable Manufacturing	4.70	4.70	4.69	4.69	4.68	4.68	4.67	4.67
% Ch, Annual Rate	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3
Construction	8.01	8.08	8.16	8.23	8.31	8.38	8.45	8.52
% Ch, Annual Rate	3.9	3.7	3.7	3.7	3.6	3.6	3.5	3.3
Service-Providing	132.79	132.95	133.12	133.28	133.45	133.60	133.74	133.88
% Ch, Annual Rate	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.4
Miscellaneous Indicators								
Oil-WTI (\$ per barrel)	55.0	54.7	54.4	54.3	54.1	54.0	54.0	54.0
Personal Saving/Disposable Income (%)	6.9	6.9	6.9	6.8	6.9	6.9	6.9	6.9
Auto Sales (Millions)	4.8	4.8	4.9	4.9	4.9	4.9	5.0	5.0
% Ch, Annual Rate	1.0	0.6	1.4	3.0	2.2	2.0	3.4	2.4
Housing Starts (Millions)	1.347	1.352	1.354	1.355	1.357	1.359	1.360	1.360
% Ch, Annual Rate	2.3	1.7	0.4	0.5	0.5	0.5	0.2	0.1
Federal Budget Surplus (Billions)	-1,275.4	-1,279.1	-1,280.4	-1,278.6	-1,292.2	-1,290.6	-1,287.7	-1,288.0
Net Exports (Billions)	-700.9	-699.5	-697.5	-693.1	-683.5	-672.5	-661.6	-652.4
3-Month Treasury Bill Rate (%)	2.67	2.66	2.66	2.66	2.66	2.64	2.42	2.42
10-Year Treasury Note Yield (%)	3.25	3.26	3.27	3.27	3.27	3.26	3.24	3.23
Bond Index of 20 G.O. Munis. (%)	4.62	4.64	4.66	4.67	4.67	4.67	4.66	4.65
30-Year Fixed Mortgage Rate (%)	4.92	4.92	4.93	4.93	4.92	4.91	4.88	4.86

Table A1.3
Washington Economic Forecast Summary
Forecast 2019 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Real Income (Billions of Chained 2012 Dollars)								
Real Personal Income	387.805	404.211	423.665	435.308	447.015	458.840	471.267	484.217
% Ch	4.0	4.2	4.8	2.7	2.7	2.6	2.7	2.7
Real Wage and Salary Disb.	195.037	205.585	219.215	225.333	231.226	236.851	243.479	250.981
% Ch	5.0	5.4	6.6	2.8	2.6	2.4	2.8	3.1
Real Nonwage Income	192.768	198.625	204.450	209.974	215.790	221.990	227.788	233.236
% Ch	3.0	3.0	2.9	2.7	2.8	2.9	2.6	2.4
Real Per Capita Income (\$/Person)	53,259	54,572	56,249	56,900	57,597	58,331	59,148	60,043
% Ch	2.2	2.5	3.1	1.2	1.2	1.3	1.4	1.5
Price and Wage Indexes								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.042	1.061	1.082	1.101	1.124	1.147	1.170	1.193
% Ch	1.1	1.8	2.0	1.8	2.1	2.1	2.0	1.9
Seattle Cons. Price Index (1982-84=1.0)	2.550	2.628	2.711	2.788	2.851	2.914	2.978	3.041
% Ch	2.3	3.0	3.2	2.8	2.3	2.2	2.2	2.1
Average Nonfarm Annual Wage	60,530	63,583	67,561	69,199	71,406	73,960	76,756	79,855
% Ch	3.0	5.0	6.3	2.4	3.2	3.6	3.8	4.0
Avg. Hourly Earnings-Mfg. (\$/Hour)	26.42	27.37	28.44	29.41	30.32	31.31	32.36	33.44
% Ch	3.5	3.6	3.9	3.4	3.1	3.3	3.3	3.3
Current Dollar Income (Billions of Dollars)								
Personal Income	404.232	428.765	458.532	479.470	502.506	526.530	551.555	577.623
% Ch	5.1	6.1	6.9	4.6	4.8	4.8	4.8	4.7
Disposable Personal Income	355.241	376.933	405.058	423.929	444.469	465.995	487.630	509.755
% Ch	5.3	6.1	7.5	4.7	4.8	4.8	4.6	4.5
Per Capita Income (\$/Person)	55,513	57,886	60,876	62,671	64,745	66,935	69,223	71,624
% Ch	3.3	4.3	5.2	2.9	3.3	3.4	3.4	3.5
Employment (Thousands)								
Washington Civilian Labor Force	3,643.9	3,719.3	3,790.5	3,870.2	3,933.6	3,984.5	4,033.2	4,078.6
Total Washington Employment	3,451.3	3,543.9	3,620.3	3,700.2	3,756.7	3,796.1	3,838.3	3,879.0
Unemployment Rate (%)	5.29	4.72	4.49	4.39	4.50	4.73	4.83	4.89
Nonfarm Payroll Employment	3,242.8	3,321.2	3,404.7	3,477.9	3,530.8	3,565.3	3,602.8	3,639.6
% Ch	3.1	2.4	2.5	2.2	1.5	1.0	1.1	1.0
Manufacturing	290.4	284.2	287.4	293.3	293.1	291.7	293.4	296.3
% Ch	-0.7	-2.1	1.1	2.1	-0.1	-0.5	0.6	1.0
Durable Manufacturing	207.7	200.3	202.2	207.2	206.9	205.5	206.6	209.1
% Ch	-1.7	-3.5	0.9	2.5	-0.1	-0.7	0.5	1.2
Aerospace	91.0	84.2	83.9	86.3	86.3	86.3	86.3	86.3
% Ch	-3.2	-7.5	-0.3	2.8	0.0	0.0	0.0	0.0
Nondurable Manufacturing	82.7	83.9	85.3	86.2	86.2	86.2	86.7	87.3
% Ch	2.0	1.4	1.6	1.0	0.1	-0.1	0.7	0.6
Construction	186.6	199.8	213.0	216.5	214.7	214.0	215.0	216.6
% Ch	7.7	7.0	6.6	1.6	-0.8	-0.3	0.5	0.8
Service-Providing	2,759.5	2,831.0	2,897.9	2,961.7	3,016.7	3,053.3	3,088.1	3,120.3
% Ch	3.2	2.6	2.4	2.2	1.9	1.2	1.1	1.0
Software Publishers	58.9	61.4	65.3	67.6	68.1	69.0	70.1	71.4
% Ch	5.3	4.2	6.3	3.6	0.7	1.3	1.6	1.8
Electronic Shopping and Mail-Order	38.2	49.7	54.8	59.6	62.7	65.0	67.0	68.7
% Ch	26.6	30.1	10.2	8.8	5.2	3.8	3.0	2.5
Housing Indicators (Thousands)								
Housing Units Authorized by Bldg. Permit	44.077	45.794	47.356	42.613	42.154	42.125	42.606	42.115
% Ch	9.2	3.9	3.4	-10.0	-1.1	-0.1	1.1	-1.2
Single-Family	22.463	23.115	23.356	23.846	24.467	25.045	25.639	25.636
% Ch	13.5	2.9	1.0	2.1	2.6	2.4	2.4	0.0
Multi-Family	21.614	22.679	24.000	18.767	17.686	17.080	16.968	16.479
% Ch	5.0	4.9	5.8	-21.8	-5.8	-3.4	-0.7	-2.9
30-Year Fixed Mortgage Rate (%)	3.65	3.99	4.54	4.55	4.79	4.91	4.92	4.89

Table A1.4
Washington Economic Forecast Summary
Forecast 2019 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Real Income (Billions of Chained 2012 Dollars)								
Real Personal Income	419.938	421.181	424.553	428.989	431.635	433.485	436.516	439.594
% Ch, Annual Rate	9.5	1.2	3.2	4.2	2.5	1.7	2.8	2.9
Real Wage and Salary Disb.	217.877	217.657	219.651	221.676	223.347	224.454	226.000	227.533
% Ch, Annual Rate	17.8	-0.4	3.7	3.7	3.0	2.0	2.8	2.7
Real Nonwage Income	202.061	203.525	204.902	207.313	208.288	209.031	210.516	212.062
% Ch, Annual Rate	1.5	2.9	2.7	4.8	1.9	1.4	2.9	3.0
Real Per Capita Income (\$/Person)	56,103	56,040	56,242	56,609	56,740	56,767	56,951	57,143
% Ch, Annual Rate	7.8	-0.4	1.4	2.6	0.9	0.2	1.3	1.4
Price and Wage Indexes								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.075	1.080	1.085	1.089	1.093	1.099	1.104	1.110
% Ch, Annual Rate	2.5	2.0	1.6	1.5	1.5	2.2	2.1	2.0
Seattle Cons. Price Index (1982-84=1.0)	2.687	2.703	2.715	2.740	2.758	2.780	2.798	2.815
% Ch, Annual Rate	3.8	2.4	1.9	3.6	2.8	3.1	2.7	2.4
Average Nonfarm Annual Wage	67,182	67,169	67,713	68,181	68,507	68,921	69,422	69,945
% Ch, Annual Rate	16.8	-0.1	3.3	2.8	1.9	2.4	2.9	3.0
Avg. Hourly Earnings-Mfg. (\$/Hour)	27.95	28.36	28.52	28.93	29.12	29.30	29.49	29.72
% Ch, Annual Rate	1.8	5.9	2.3	5.9	2.6	2.4	2.7	3.1
Current Dollar Income (Billions of Dollars)								
Personal Income	451.517	455.080	460.513	467.020	471.608	476.242	482.092	487.939
% Ch, Annual Rate	12.2	3.2	4.9	5.8	4.0	4.0	5.0	4.9
Disposable Personal Income	398.594	402.053	406.660	412.926	416.949	421.091	426.269	431.405
% Ch, Annual Rate	14.2	3.5	4.7	6.3	4.0	4.0	5.0	4.9
Per Capita Income (\$/Person)	60,322	60,551	61,006	61,627	61,994	62,366	62,897	63,427
% Ch, Annual Rate	10.4	1.5	3.0	4.1	2.4	2.4	3.4	3.4
Employment (Thousands)								
Washington Civilian Labor Force	3,759.0	3,777.4	3,802.5	3,823.0	3,846.3	3,860.6	3,878.0	3,895.9
Total Washington Employment	3,585.7	3,607.7	3,634.8	3,652.9	3,672.2	3,692.4	3,710.3	3,726.1
Unemployment Rate (%)	4.61	4.49	4.41	4.45	4.53	4.36	4.32	4.36
Nonfarm Payroll Employment	3,381.6	3,394.3	3,411.1	3,431.8	3,453.7	3,469.3	3,486.6	3,502.1
% Ch, Annual Rate	3.8	1.5	2.0	2.4	2.6	1.8	2.0	1.8
Manufacturing	284.8	285.9	288.0	291.0	292.6	293.0	293.5	294.3
% Ch, Annual Rate	3.2	1.5	3.0	4.3	2.1	0.5	0.7	1.2
Durable Manufacturing	199.6	200.9	202.8	205.4	206.7	206.9	207.3	207.9
% Ch, Annual Rate	2.8	2.5	3.8	5.2	2.6	0.4	0.7	1.2
Aerospace	82.3	83.0	84.6	85.9	86.3	86.3	86.3	86.3
% Ch, Annual Rate	2.3	3.6	8.0	6.1	2.1	0.0	0.0	0.0
Nondurable Manufacturing	85.2	85.0	85.2	85.7	85.9	86.1	86.2	86.5
% Ch, Annual Rate	4.0	-0.8	1.2	2.0	0.9	0.9	0.6	1.2
Construction	209.7	211.9	213.7	216.9	217.7	216.8	215.8	215.6
% Ch, Annual Rate	10.5	4.4	3.5	6.1	1.6	-1.6	-1.9	-0.3
Service-Providing	2,880.8	2,890.2	2,903.0	2,917.5	2,937.0	2,953.2	2,971.0	2,985.8
% Ch, Annual Rate	3.4	1.3	1.8	2.0	2.7	2.2	2.4	2.0
Software Publishers	63.5	64.7	66.0	66.8	67.3	67.6	67.7	67.8
% Ch, Annual Rate	7.0	7.9	8.0	4.9	3.3	1.7	0.7	0.2
Electronic Shopping and Mail-Order	54.3	54.3	54.2	56.2	58.2	59.2	60.1	60.9
% Ch, Annual Rate	6.8	0.1	-0.8	14.9	15.2	6.9	6.2	5.6
Housing Indicators (Thousands)								
Housing Units Authorized by Bldg. Permit	52.763	45.589	42.426	48.646	42.940	42.654	42.411	42.448
% Ch, Annual Rate	16.7	-44.3	-25.0	72.9	-39.3	-2.6	-2.3	0.3
Single-Family	24.680	23.029	23.288	22.427	23.772	23.723	23.790	24.101
% Ch, Annual Rate	1.9	-24.2	4.6	-14.0	26.2	-0.8	1.1	5.3
Multi-Family	28.083	22.560	19.137	26.219	19.168	18.932	18.622	18.347
% Ch, Annual Rate	32.0	-58.4	-48.2	252.3	-71.4	-4.8	-6.4	-5.8
30-Year Fixed Mortgage Rate (%)	4.27	4.54	4.57	4.78	4.40	4.55	4.60	4.65

Table A1.4 (continued)
Washington Economic Forecast Summary
Forecast 2019 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Real Income (Billions of Chained 2012 Dollars)								
Real Personal Income	442.675	445.845	448.341	451.201	454.668	457.406	460.150	463.136
% Ch, Annual Rate	2.8	2.9	2.3	2.6	3.1	2.4	2.4	2.6
Real Wage and Salary Disb.	229.031	230.814	231.796	233.262	234.780	236.098	237.482	239.043
% Ch, Annual Rate	2.7	3.1	1.7	2.6	2.6	2.3	2.4	2.7
Real Nonwage Income	213.644	215.031	216.545	217.939	219.889	221.309	222.669	224.093
% Ch, Annual Rate	3.0	2.6	2.8	2.6	3.6	2.6	2.5	2.6
Real Per Capita Income (\$/Person)	57,337	57,544	57,667	57,838	58,088	58,245	58,402	58,590
% Ch, Annual Rate	1.4	1.5	0.9	1.2	1.7	1.1	1.1	1.3
Price and Wage Indexes								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.116	1.121	1.127	1.133	1.139	1.145	1.150	1.156
% Ch, Annual Rate	2.1	2.0	2.1	2.0	2.1	2.1	2.1	2.0
Seattle Cons. Price Index (1982-84=1.0)	2.830	2.844	2.859	2.872	2.889	2.906	2.923	2.939
% Ch, Annual Rate	2.2	2.0	2.1	1.9	2.4	2.4	2.3	2.2
Average Nonfarm Annual Wage	70,529	71,086	71,675	72,335	73,001	73,625	74,267	74,946
% Ch, Annual Rate	3.4	3.2	3.4	3.7	3.7	3.5	3.5	3.7
Avg. Hourly Earnings-Mfg. (\$/Hour)	29.95	30.21	30.44	30.68	30.94	31.18	31.44	31.70
% Ch, Annual Rate	3.2	3.4	3.1	3.2	3.3	3.2	3.3	3.3
Current Dollar Income (Billions of Dollars)								
Personal Income	493.865	499.881	505.243	511.036	517.676	523.513	529.394	535.537
% Ch, Annual Rate	4.9	5.0	4.4	4.7	5.3	4.6	4.6	4.7
Disposable Personal Income	436.660	442.093	446.948	452.176	458.253	463.356	468.504	473.868
% Ch, Annual Rate	5.0	5.1	4.5	4.8	5.5	4.5	4.5	4.7
Per Capita Income (\$/Person)	63,967	64,519	64,986	65,508	66,137	66,662	67,190	67,749
% Ch, Annual Rate	3.5	3.5	2.9	3.3	3.9	3.2	3.2	3.4
Employment (Thousands)								
Washington Civilian Labor Force	3,911.4	3,931.0	3,939.8	3,952.2	3,965.5	3,978.3	3,990.8	4,003.3
Total Washington Employment	3,738.7	3,756.1	3,761.0	3,770.7	3,781.3	3,790.9	3,800.8	3,811.4
Unemployment Rate (%)	4.41	4.45	4.54	4.59	4.65	4.71	4.76	4.79
Nonfarm Payroll Employment	3,513.8	3,531.2	3,535.1	3,543.2	3,552.3	3,560.7	3,569.3	3,578.7
% Ch, Annual Rate	1.3	2.0	0.4	0.9	1.0	1.0	1.0	1.1
Manufacturing	294.1	293.5	292.7	292.3	291.9	291.6	291.6	291.8
% Ch, Annual Rate	-0.3	-0.9	-1.0	-0.7	-0.5	-0.4	0.0	0.3
Durable Manufacturing	207.8	207.1	206.6	206.2	205.9	205.5	205.4	205.4
% Ch, Annual Rate	-0.2	-1.3	-1.0	-0.6	-0.7	-0.7	-0.3	0.2
Aerospace	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nondurable Manufacturing	86.4	86.4	86.2	86.0	86.0	86.1	86.2	86.4
% Ch, Annual Rate	-0.4	0.1	-1.0	-0.7	0.0	0.3	0.7	0.6
Construction	214.8	214.8	214.6	214.5	214.1	213.8	213.8	214.3
% Ch, Annual Rate	-1.6	0.1	-0.3	-0.3	-0.7	-0.6	0.2	0.8
Service-Providing	2,998.6	3,016.6	3,021.5	3,030.3	3,040.1	3,049.2	3,057.6	3,066.4
% Ch, Annual Rate	1.7	2.4	0.7	1.2	1.3	1.2	1.1	1.1
Software Publishers	67.9	68.0	68.2	68.4	68.6	68.9	69.1	69.4
% Ch, Annual Rate	0.6	0.8	1.2	1.2	1.4	1.4	1.5	1.5
Electronic Shopping and Mail-Order	61.7	62.4	63.0	63.7	64.2	64.8	65.3	65.8
% Ch, Annual Rate	5.1	4.7	4.3	4.0	3.7	3.5	3.3	3.1
Housing Indicators (Thousands)								
Housing Units Authorized by Bldg. Permit	42.215	42.394	42.115	41.892	41.725	41.906	42.208	42.659
% Ch, Annual Rate	-2.2	1.7	-2.6	-2.1	-1.6	1.7	2.9	4.3
Single-Family	24.129	24.432	24.588	24.721	24.704	24.848	25.142	25.485
% Ch, Annual Rate	0.5	5.1	2.6	2.2	-0.3	2.3	4.8	5.6
Multi-Family	18.086	17.962	17.527	17.171	17.021	17.058	17.067	17.174
% Ch, Annual Rate	-5.6	-2.7	-9.3	-7.9	-3.4	0.9	0.2	2.5
30-Year Fixed Mortgage Rate (%)	4.70	4.77	4.82	4.86	4.89	4.90	4.91	4.92

Table A1.4 (continued)
Washington Economic Forecast Summary
Forecast 2019 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Real Income (Billions of Chained 2012 Dollars)								
Real Personal Income	466.632	469.760	472.784	475.891	479.559	482.662	485.773	488.874
% Ch, Annual Rate	3.1	2.7	2.6	2.7	3.1	2.6	2.6	2.6
Real Wage and Salary Disb.	240.805	242.576	244.347	246.188	248.179	250.061	251.927	253.757
% Ch, Annual Rate	3.0	3.0	3.0	3.0	3.3	3.1	3.0	2.9
Real Nonwage Income	225.828	227.184	228.437	229.703	231.380	232.601	233.846	235.117
% Ch, Annual Rate	3.1	2.4	2.2	2.2	3.0	2.1	2.2	2.2
Real Per Capita Income (\$/Person)	58,843	59,050	59,245	59,451	59,728	59,937	60,148	60,359
% Ch, Annual Rate	1.7	1.4	1.3	1.4	1.9	1.4	1.4	1.4
Price and Wage Indexes								
U.S. Implicit Price Deflator, PCE (2012=1.0)	1.162	1.167	1.173	1.179	1.184	1.190	1.196	1.201
% Ch, Annual Rate	1.9	1.9	2.0	2.0	1.9	1.9	1.9	1.9
Seattle Cons. Price Index (1982-84=1.0)	2.954	2.969	2.986	3.002	3.017	3.033	3.049	3.065
% Ch, Annual Rate	2.1	2.0	2.3	2.1	2.1	2.1	2.1	2.1
Average Nonfarm Annual Wage	75,662	76,375	77,114	77,873	78,669	79,450	80,249	81,052
% Ch, Annual Rate	3.9	3.8	3.9	4.0	4.2	4.0	4.1	4.1
Avg. Hourly Earnings-Mfg. (\$/Hour)	31.96	32.23	32.49	32.76	33.03	33.30	33.57	33.85
% Ch, Annual Rate	3.4	3.4	3.2	3.4	3.3	3.3	3.4	3.4
Current Dollar Income (Billions of Dollars)								
Personal Income	542.183	548.373	554.659	561.007	568.017	574.369	580.808	587.297
% Ch, Annual Rate	5.1	4.6	4.7	4.7	5.1	4.5	4.6	4.5
Disposable Personal Income	479.631	484.927	490.284	495.678	501.670	507.017	512.444	517.890
% Ch, Annual Rate	5.0	4.5	4.5	4.5	4.9	4.3	4.4	4.3
Per Capita Income (\$/Person)	68,371	68,932	69,505	70,084	70,746	71,325	71,915	72,511
% Ch, Annual Rate	3.7	3.3	3.4	3.4	3.8	3.3	3.4	3.4
Employment (Thousands)								
Washington Civilian Labor Force	4,015.4	4,027.4	4,039.2	4,050.8	4,062.3	4,073.4	4,084.1	4,094.5
Total Washington Employment	3,822.1	3,832.9	3,843.7	3,854.3	3,864.7	3,874.6	3,883.8	3,892.9
Unemployment Rate (%)	4.81	4.83	4.84	4.85	4.86	4.88	4.90	4.92
Nonfarm Payroll Employment	3,588.2	3,598.0	3,607.7	3,617.4	3,626.9	3,635.8	3,643.9	3,651.8
% Ch, Annual Rate	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.9
Manufacturing	292.4	293.0	293.7	294.5	295.3	296.0	296.7	297.3
% Ch, Annual Rate	0.8	0.8	1.0	1.1	1.1	1.0	0.9	0.9
Durable Manufacturing	205.9	206.3	206.9	207.6	208.2	208.8	209.4	209.9
% Ch, Annual Rate	0.8	0.8	1.2	1.3	1.3	1.2	1.0	1.0
Aerospace	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nondurable Manufacturing	86.5	86.7	86.8	86.9	87.1	87.2	87.3	87.5
% Ch, Annual Rate	0.8	0.7	0.7	0.6	0.5	0.6	0.6	0.6
Construction	214.4	214.8	215.2	215.6	216.1	216.5	216.8	217.2
% Ch, Annual Rate	0.2	0.8	0.8	0.8	0.8	0.8	0.7	0.6
Service-Providing	3,075.2	3,083.9	3,092.5	3,100.9	3,109.3	3,117.0	3,124.0	3,130.9
% Ch, Annual Rate	1.2	1.1	1.1	1.1	1.1	1.0	0.9	0.9
Software Publishers	69.7	70.0	70.3	70.6	70.9	71.3	71.6	71.9
% Ch, Annual Rate	1.7	1.7	1.7	1.8	1.9	1.8	1.8	1.8
Electronic Shopping and Mail-Order	66.3	66.8	67.2	67.6	68.1	68.5	68.9	69.3
% Ch, Annual Rate	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3
Housing Indicators (Thousands)								
Housing Units Authorized by Bldg. Permit	42.688	42.672	42.581	42.483	42.364	42.223	42.043	41.828
% Ch, Annual Rate	0.3	-0.1	-0.9	-0.9	-1.1	-1.3	-1.7	-2.0
Single-Family	25.572	25.659	25.662	25.661	25.655	25.646	25.631	25.611
% Ch, Annual Rate	1.4	1.4	0.1	0.0	-0.1	-0.1	-0.2	-0.3
Multi-Family	17.116	17.014	16.919	16.822	16.710	16.577	16.412	16.217
% Ch, Annual Rate	-1.4	-2.4	-2.2	-2.3	-2.6	-3.1	-3.9	-4.7
30-Year Fixed Mortgage Rate (%)	4.92	4.92	4.93	4.93	4.92	4.91	4.88	4.86

Table A2.1

U.S. Nonagricultural Employment by Industry (Millions)

Forecast 2019 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Nonfarm Payroll Employment	144.35	146.61	149.06	151.59	152.98	153.53	154.38	155.34
% Ch	1.8	1.6	1.7	1.7	0.9	0.4	0.6	0.6
Manufacturing	12.35	12.44	12.69	12.88	12.76	12.51	12.46	12.48
% Ch	0.1	0.7	2.0	1.5	-0.9	-1.9	-0.5	0.2
Durable Manufacturing	7.71	7.74	7.95	8.10	8.01	7.80	7.76	7.80
% Ch	-0.7	0.3	2.7	2.0	-1.2	-2.5	-0.5	0.5
Wood Products	0.39	0.40	0.41	0.41	0.41	0.41	0.43	0.45
% Ch	2.7	1.1	2.4	0.7	0.0	1.2	4.0	3.9
Primary and Fabricated Metals	1.80	1.80	1.84	1.89	1.88	1.80	1.79	1.82
% Ch	-3.0	0.0	2.7	2.3	-0.6	-4.1	-0.8	2.2
Computer and Electronic Products	1.05	1.04	1.06	1.07	1.07	1.07	1.08	1.09
% Ch	-0.5	-0.9	1.6	1.6	-0.7	0.4	1.1	1.0
Machinery and Electrical Equipment	1.46	1.47	1.52	1.55	1.55	1.53	1.54	1.56
% Ch	-3.0	0.4	3.7	2.3	0.0	-1.4	0.6	1.5
Transportation Equipment	1.63	1.64	1.70	1.74	1.67	1.60	1.54	1.48
% Ch	1.6	0.8	3.6	2.1	-3.8	-4.5	-3.5	-4.0
Other Durables	1.39	1.40	1.42	1.44	1.43	1.39	1.39	1.40
% Ch	1.3	0.9	1.3	1.8	-0.8	-2.7	-0.5	1.0
Nondurable Manufacturing	4.64	4.70	4.74	4.78	4.75	4.71	4.69	4.68
% Ch	1.5	1.3	0.9	0.7	-0.5	-0.9	-0.4	-0.4
Food Manufacturing	1.56	1.60	1.62	1.64	1.66	1.67	1.69	1.70
% Ch	3.0	2.7	1.3	1.2	1.2	0.6	1.2	0.8
Paper and Paper Products	0.37	0.37	0.37	0.36	0.36	0.35	0.35	0.34
% Ch	-0.5	-1.2	0.2	-0.8	-1.8	-2.0	-1.1	-0.7
Other Nondurables	2.71	2.73	2.76	2.77	2.74	2.69	2.66	2.63
% Ch	1.0	0.9	0.8	0.6	-1.3	-1.7	-1.2	-1.1
Natural Resources and Mining	0.67	0.68	0.73	0.75	0.75	0.77	0.77	0.77
% Ch	-17.8	1.1	8.3	1.9	0.9	1.8	0.9	0.3
Construction	6.73	6.97	7.29	7.50	7.60	7.83	8.12	8.41
% Ch	4.1	3.6	4.7	2.9	1.2	3.1	3.7	3.6
Trade, Transportation, and Utilities	27.20	27.40	27.65	27.97	27.92	27.76	27.50	27.29
% Ch	1.4	0.7	0.9	1.1	-0.2	-0.6	-0.9	-0.8
Wholesale Trade	5.79	5.81	5.85	5.95	5.99	6.01	6.01	6.01
% Ch	0.1	0.5	0.7	1.7	0.5	0.4	0.0	0.0
Retail Trade	15.84	15.84	15.82	15.87	15.81	15.65	15.43	15.27
% Ch	1.4	0.0	-0.1	0.3	-0.4	-1.0	-1.4	-1.1
Trans., Warehousing, and Utilities	5.57	5.75	5.97	6.14	6.12	6.10	6.05	6.00
% Ch	2.6	3.1	3.9	2.7	-0.3	-0.4	-0.8	-0.7
Information	2.79	2.81	2.83	2.81	2.78	2.81	2.83	2.86
% Ch	1.6	0.7	0.5	-0.6	-1.0	1.2	0.7	1.0
Publishing Industries	0.73	0.73	0.73	0.72	0.68	0.66	0.64	0.64
% Ch	0.5	-0.2	0.5	-1.9	-5.3	-3.3	-2.0	-1.1
Other Information	2.06	2.08	2.09	2.09	2.10	2.16	2.19	2.22
% Ch	1.9	1.0	0.4	-0.1	0.4	2.7	1.5	1.6
Financial Activities	8.29	8.45	8.57	8.71	8.87	8.92	8.92	8.89
% Ch	2.0	2.0	1.4	1.7	1.7	0.7	0.0	-0.3
Professional and Business Services	20.11	20.51	21.00	21.59	22.30	22.77	23.29	23.88
% Ch	2.1	2.0	2.4	2.8	3.3	2.1	2.3	2.5
Education and Health Services	22.64	23.19	23.67	24.15	24.25	24.42	24.46	24.50
% Ch	2.8	2.4	2.1	2.0	0.4	0.7	0.2	0.1
Leisure and Hospitality	15.66	16.05	16.35	16.80	17.12	17.10	17.29	17.40
% Ch	3.3	2.5	1.9	2.7	1.9	-0.1	1.1	0.6
Other Services	5.69	5.77	5.84	5.90	5.82	5.78	5.72	5.66
% Ch	1.2	1.4	1.3	0.9	-1.3	-0.7	-1.1	-1.1
Federal Government	2.79	2.80	2.80	2.80	2.93	2.80	2.80	2.80
% Ch	1.4	0.4	-0.3	0.2	4.5	-4.3	0.0	0.0
State and Local Government	19.44	19.55	19.65	19.74	19.89	20.05	20.22	20.38
% Ch	0.9	0.6	0.5	0.4	0.8	0.8	0.8	0.8

Table A2.2

U.S. Nonagricultural Employment by Industry (Millions)

Forecast 2019 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Nonfarm Payroll Employment	148.05	148.74	149.41	150.06	150.78	151.35	151.90	152.33
% Ch, Annual Rate	1.8	1.9	1.8	1.7	1.9	1.5	1.4	1.1
Manufacturing	12.59	12.66	12.72	12.79	12.84	12.87	12.88	12.92
% Ch, Annual Rate	2.3	2.3	1.9	2.2	1.7	1.0	0.2	1.2
Durable Manufacturing	7.86	7.92	7.97	8.02	8.07	8.10	8.10	8.13
% Ch, Annual Rate	3.4	3.0	2.7	2.5	2.6	1.3	0.2	1.6
Wood Products	0.40	0.41	0.41	0.41	0.41	0.41	0.41	0.41
% Ch, Annual Rate	6.1	2.4	1.6	0.2	4.1	-3.8	-1.5	3.4
Primary and Fabricated Metals	1.83	1.84	1.85	1.86	1.87	1.88	1.89	1.90
% Ch, Annual Rate	3.5	3.1	2.7	1.3	2.6	2.5	1.6	3.3
Computer and Electronic Products	1.05	1.05	1.06	1.06	1.07	1.08	1.07	1.07
% Ch, Annual Rate	1.2	1.9	1.9	2.2	3.2	2.2	-2.3	-1.1
Machinery and Electrical Equipment	1.49	1.51	1.53	1.54	1.55	1.55	1.55	1.57
% Ch, Annual Rate	3.8	5.3	3.6	3.0	3.2	-1.3	1.6	3.9
Transportation Equipment	1.68	1.69	1.71	1.73	1.74	1.74	1.74	1.73
% Ch, Annual Rate	4.9	3.3	4.0	4.5	1.6	2.2	-1.8	-0.6
Other Durables	1.41	1.41	1.42	1.43	1.43	1.44	1.45	1.45
% Ch, Annual Rate	2.2	1.1	1.0	1.9	2.3	2.1	1.8	1.0
Nondurable Manufacturing	4.73	4.74	4.74	4.76	4.77	4.77	4.78	4.78
% Ch, Annual Rate	0.5	1.0	0.6	1.7	0.2	0.7	0.1	0.6
Food Manufacturing	1.61	1.62	1.62	1.63	1.63	1.63	1.64	1.65
% Ch, Annual Rate	1.1	1.5	0.6	2.4	-0.1	0.7	2.4	2.9
Paper and Paper Products	0.36	0.37	0.37	0.37	0.37	0.36	0.36	0.36
% Ch, Annual Rate	-0.1	1.8	2.5	1.8	-3.1	-2.9	-2.0	-0.3
Other Nondurables	2.75	2.75	2.76	2.76	2.77	2.78	2.77	2.77
% Ch, Annual Rate	0.3	0.7	0.3	1.2	0.8	1.2	-1.0	-0.6
Natural Resources and Mining	0.71	0.73	0.74	0.75	0.76	0.74	0.74	0.74
% Ch, Annual Rate	9.6	13.3	6.6	5.7	5.4	-10.2	-0.2	0.4
Construction	7.18	7.26	7.33	7.39	7.48	7.50	7.51	7.52
% Ch, Annual Rate	6.7	4.8	4.0	3.3	4.7	1.3	0.5	0.7
Trade, Transportation, and Utilities	27.55	27.61	27.68	27.76	27.85	27.97	28.03	28.02
% Ch, Annual Rate	1.2	0.9	0.9	1.2	1.4	1.6	0.8	-0.1
Wholesale Trade	5.83	5.83	5.86	5.89	5.91	5.95	5.98	5.98
% Ch, Annual Rate	0.5	-0.1	2.4	1.8	1.5	2.6	1.9	0.4
Retail Trade	15.83	15.84	15.82	15.81	15.84	15.87	15.89	15.89
% Ch, Annual Rate	0.2	0.3	-0.5	-0.2	0.8	0.7	0.6	-0.2
Trans., Warehousing, and Utilities	5.90	5.95	5.99	6.06	6.10	6.15	6.15	6.15
% Ch, Annual Rate	4.4	3.5	3.2	4.3	2.9	3.1	0.5	-0.5
Information	2.82	2.83	2.83	2.83	2.81	2.79	2.82	2.81
% Ch, Annual Rate	-0.1	2.1	-0.5	0.3	-2.7	-2.1	3.6	-1.4
Publishing Industries	0.73	0.73	0.73	0.73	0.73	0.73	0.72	0.70
% Ch, Annual Rate	0.8	0.4	0.6	0.1	-2.3	-1.8	-5.3	-7.3
Other Information	2.08	2.10	2.09	2.10	2.08	2.07	2.10	2.11
% Ch, Annual Rate	-0.4	2.6	-0.9	0.4	-2.8	-2.2	6.9	0.7
Financial Activities	8.52	8.55	8.58	8.61	8.65	8.69	8.73	8.79
% Ch, Annual Rate	1.4	1.5	1.4	1.4	1.6	1.9	2.1	2.5
Professional and Business Services	20.77	20.93	21.07	21.22	21.31	21.42	21.69	21.93
% Ch, Annual Rate	2.2	3.0	2.8	2.7	1.8	2.1	5.1	4.6
Education and Health Services	23.48	23.59	23.74	23.86	24.02	24.16	24.21	24.21
% Ch, Annual Rate	2.3	1.9	2.6	2.0	2.8	2.3	0.8	0.0
Leisure and Hospitality	16.23	16.30	16.38	16.49	16.66	16.77	16.84	16.93
% Ch, Annual Rate	1.5	1.8	2.0	2.8	4.1	2.6	1.7	2.2
Other Services	5.81	5.84	5.85	5.87	5.89	5.92	5.91	5.87
% Ch, Annual Rate	0.8	2.2	0.8	1.2	1.3	2.3	-1.0	-2.5
Federal Government	2.79	2.79	2.80	2.80	2.80	2.80	2.80	2.80
% Ch, Annual Rate	-0.8	0.1	0.4	0.6	0.1	0.0	0.0	0.0
State and Local Government	19.60	19.64	19.69	19.69	19.71	19.71	19.74	19.78
% Ch, Annual Rate	0.4	0.8	0.9	0.1	0.4	0.1	0.5	0.9

Table A2.3

Washington Nonagricultural Employment by Industry (Thousands)

Forecast 2019 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Nonfarm Payroll Employment	3,242.8	3,321.2	3,404.7	3,477.9	3,530.8	3,565.3	3,602.8	3,639.6
% Ch	3.1	2.4	2.5	2.2	1.5	1.0	1.1	1.0
Manufacturing	290.4	284.2	287.4	293.3	293.1	291.7	293.4	296.3
% Ch	-0.7	-2.1	1.1	2.1	-0.1	-0.5	0.6	1.0
Durable Manufacturing	207.7	200.3	202.2	207.2	206.9	205.5	206.6	209.1
% Ch	-1.7	-3.5	0.9	2.5	-0.1	-0.7	0.5	1.2
Wood Products	13.1	12.9	13.0	12.9	12.6	12.5	12.6	12.8
% Ch	-1.6	-1.7	1.0	-1.1	-2.1	-1.1	1.3	1.2
Primary and Fabricated Metals	25.2	25.1	26.1	27.2	27.0	25.9	25.6	26.2
% Ch	-2.0	-0.6	4.3	4.1	-0.6	-4.3	-0.9	2.3
Computer and Electronic Products	20.1	19.6	19.8	20.1	20.1	20.5	21.0	21.6
% Ch	0.7	-2.3	0.7	1.6	0.0	1.8	2.9	2.7
Machinery and Electrical Equipment	20.5	20.7	21.3	22.1	22.6	22.8	23.6	24.7
% Ch	-1.2	1.0	2.7	3.7	2.6	0.7	3.5	4.8
Aerospace	91.0	84.2	83.9	86.3	86.3	86.3	86.3	86.3
% Ch	-3.2	-7.5	-0.3	2.8	0.0	0.0	0.0	0.0
Other Transportation Equip.	10.2	10.2	9.8	9.7	9.2	8.8	8.6	8.4
% Ch	-0.9	0.1	-3.4	-0.9	-5.9	-3.6	-2.5	-2.9
Other Durables	27.6	27.7	28.2	28.9	29.1	28.8	28.8	29.1
% Ch	1.2	0.2	2.1	2.5	0.6	-0.9	0.0	1.0
Nondurable Manufacturing	82.7	83.9	85.3	86.2	86.2	86.2	86.7	87.3
% Ch	2.0	1.4	1.6	1.0	0.1	-0.1	0.7	0.6
Food Manufacturing	37.6	38.0	38.8	39.6	39.8	39.7	39.8	39.8
% Ch	1.9	1.3	2.1	2.1	0.4	-0.2	0.3	0.0
Paper and Paper Products	7.8	7.7	7.6	7.3	7.1	6.9	6.7	6.6
% Ch	-3.5	-0.2	-2.1	-3.3	-2.9	-3.2	-2.2	-1.8
Other Nondurables	37.4	38.1	38.9	39.2	39.3	39.6	40.2	40.8
% Ch	3.4	1.9	2.0	0.8	0.3	0.7	1.5	1.6
Natural Resources and Mining	6.3	6.2	6.3	6.3	6.3	6.2	6.3	6.3
% Ch	-0.8	-1.0	1.7	0.2	-1.1	-0.2	0.7	0.8
Construction	186.6	199.8	213.0	216.5	214.7	214.0	215.0	216.6
% Ch	7.7	7.0	6.6	1.6	-0.8	-0.3	0.5	0.8
Trade, Transportation, and Utilities	605.7	624.6	638.1	651.8	657.5	659.3	658.4	657.8
% Ch	3.1	3.1	2.2	2.1	0.9	0.3	-0.1	-0.1
Wholesale Trade	132.1	133.3	136.3	139.2	140.7	141.5	141.9	142.2
% Ch	0.6	0.9	2.3	2.1	1.0	0.6	0.3	0.2
Retail Trade	365.2	378.7	386.6	394.8	399.0	399.9	399.0	398.7
% Ch	3.2	3.7	2.1	2.1	1.0	0.2	-0.2	-0.1
Electronic Shopping and Mail-Order	38.2	49.7	54.8	59.6	62.7	65.0	67.0	68.7
% Ch	26.6	30.1	10.2	8.8	5.2	3.8	3.0	2.5
Other Retail Trade	327.0	329.0	331.9	335.3	336.3	334.9	332.1	330.1
% Ch	1.0	0.6	0.9	1.0	0.3	-0.4	-0.8	-0.6
Trans., Warehousing, and Utilities	108.4	112.6	115.2	117.8	117.9	117.9	117.4	116.8
% Ch	6.0	3.8	2.3	2.3	0.1	0.0	-0.4	-0.5
Information	121.4	126.3	133.6	138.0	138.6	140.6	142.2	144.3
% Ch	6.2	4.1	5.8	3.3	0.5	1.4	1.1	1.5
Software Publishers	58.9	61.4	65.3	67.6	68.1	69.0	70.1	71.4
% Ch	5.3	4.2	6.3	3.6	0.7	1.3	1.6	1.8
Other Publishing Industries	5.9	5.5	5.1	4.4	3.7	3.2	2.8	2.5
% Ch	-4.0	-6.8	-8.1	-12.4	-16.2	-13.8	-12.3	-11.4
Other Information	56.5	59.4	63.3	66.0	66.8	68.4	69.2	70.4
% Ch	8.4	5.0	6.5	4.2	1.3	2.4	1.2	1.6
Financial Activities	151.0	154.0	157.5	159.1	161.6	161.8	160.6	159.1
% Ch	2.1	2.0	2.3	1.0	1.6	0.1	-0.7	-1.0
Professional and Business Services	401.5	413.4	425.8	438.1	455.0	467.4	480.4	494.3
% Ch	3.5	3.0	3.0	2.9	3.8	2.7	2.8	2.9
Education and Health Services	463.5	475.6	491.6	507.7	514.7	522.5	527.7	532.4
% Ch	3.4	2.6	3.4	3.3	1.4	1.5	1.0	0.9
Leisure and Hospitality	323.3	331.5	342.0	351.5	359.6	361.8	367.1	370.5
% Ch	4.3	2.6	3.2	2.8	2.3	0.6	1.5	0.9
Other Services	117.6	119.7	121.9	124.9	126.8	128.6	130.1	131.5
% Ch	2.3	1.8	1.9	2.4	1.5	1.4	1.2	1.1
Federal Government	74.5	74.8	74.5	74.5	77.3	75.3	75.6	75.9
% Ch	1.9	0.4	-0.4	0.0	3.8	-2.6	0.5	0.4
State and Local Government	501.1	511.0	512.8	516.1	525.7	536.1	546.0	554.5
% Ch	2.5	2.0	0.3	0.6	1.9	2.0	1.9	1.5

Table A2.4

Washington Nonagricultural Employment by Industry (Thousands)
 Forecast 2019 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Nonfarm Payroll Employment	3,381.6	3,394.3	3,411.1	3,431.8	3,453.7	3,469.3	3,486.6	3,502.1
% Ch, Annual Rate	3.8	1.5	2.0	2.4	2.6	1.8	2.0	1.8
Manufacturing	284.8	285.9	288.0	291.0	292.6	293.0	293.5	294.3
% Ch, Annual Rate	3.2	1.5	3.0	4.3	2.1	0.5	0.7	1.2
Durable Manufacturing	199.6	200.9	202.8	205.4	206.7	206.9	207.3	207.9
% Ch, Annual Rate	2.8	2.5	3.8	5.2	2.6	0.4	0.7	1.2
Wood Products	13.1	13.0	12.9	13.0	13.1	12.9	12.8	12.8
% Ch, Annual Rate	4.0	-1.5	-3.1	3.9	0.4	-5.3	-3.4	0.8
Primary and Fabricated Metals	25.7	26.1	26.2	26.6	27.0	27.1	27.2	27.5
% Ch, Annual Rate	9.7	5.4	1.8	6.2	6.0	2.5	1.5	3.5
Computer and Electronic Products	19.7	19.7	19.9	19.7	20.0	20.2	20.1	20.1
% Ch, Annual Rate	1.7	0.0	2.5	-2.3	5.0	4.6	-2.5	-0.6
Machinery and Electrical Equipment	21.1	21.2	21.3	21.5	21.8	21.8	22.1	22.5
% Ch, Annual Rate	1.3	2.3	1.5	3.2	6.3	0.5	4.9	8.0
Aerospace	82.3	83.0	84.6	85.9	86.3	86.3	86.3	86.3
% Ch, Annual Rate	2.3	3.6	8.0	6.1	2.1	0.0	0.0	0.0
Other Transportation Equip.	9.8	9.8	9.9	9.9	9.8	9.8	9.7	9.6
% Ch, Annual Rate	-6.5	0.2	2.7	0.8	-1.4	-1.9	-2.2	-5.7
Other Durables	28.0	28.1	28.1	28.8	28.8	28.8	29.1	29.2
% Ch, Annual Rate	3.0	1.6	-0.2	10.8	-0.6	0.1	4.0	1.5
Nondurable Manufacturing	85.2	85.0	85.2	85.7	85.9	86.1	86.2	86.5
% Ch, Annual Rate	4.0	-0.8	1.2	2.0	0.9	0.9	0.6	1.2
Food Manufacturing	39.0	38.6	38.7	39.1	39.5	39.5	39.7	39.8
% Ch, Annual Rate	8.3	-4.4	1.0	4.4	4.6	-0.2	1.5	2.0
Paper and Paper Products	7.6	7.6	7.6	7.5	7.4	7.3	7.3	7.3
% Ch, Annual Rate	-1.9	0.4	-2.8	-4.4	-3.7	-4.1	-3.1	-1.2
Other Nondurables	38.5	38.8	39.0	39.1	38.9	39.2	39.3	39.3
% Ch, Annual Rate	1.1	2.6	2.3	0.9	-1.7	3.1	0.3	0.9
Natural Resources and Mining	6.3	6.3	6.3	6.3	6.4	6.3	6.3	6.3
% Ch, Annual Rate	5.8	0.5	0.5	-1.9	4.8	-3.2	0.4	-2.6
Construction	209.7	211.9	213.7	216.9	217.7	216.8	215.8	215.6
% Ch, Annual Rate	10.5	4.4	3.5	6.1	1.6	-1.6	-1.9	-0.3
Trade, Transportation, and Utilities	636.8	636.2	637.8	641.7	647.1	650.9	653.9	655.5
% Ch, Annual Rate	4.0	-0.4	1.0	2.5	3.4	2.4	1.8	1.0
Wholesale Trade	135.6	136.2	136.7	136.9	138.1	139.0	139.7	140.1
% Ch, Annual Rate	5.0	1.8	1.5	0.7	3.4	2.6	2.2	1.1
Retail Trade	386.8	385.4	386.4	387.9	391.8	394.1	396.1	397.4
% Ch, Annual Rate	5.0	-1.4	1.0	1.5	4.2	2.3	2.1	1.3
Electronic Shopping and Mail-Order	54.3	54.3	54.2	56.2	58.2	59.2	60.1	60.9
% Ch	6.8	0.1	-0.8	14.9	15.2	6.9	6.2	5.6
Other Retail Trade	332.5	331.1	332.2	331.7	333.7	334.9	336.0	336.5
% Ch	4.8	-1.6	1.3	-0.6	2.4	1.5	1.3	0.6
Trans., Warehousing, and Utilities	114.4	114.5	114.7	117.0	117.2	117.9	118.1	118.1
% Ch, Annual Rate	-0.3	0.3	0.6	8.1	0.7	2.5	0.7	-0.1
Information	129.9	132.4	135.0	137.0	137.4	137.3	138.7	138.8
% Ch, Annual Rate	5.5	8.1	8.2	6.1	0.9	-0.2	4.1	0.4
Software Publishers	63.5	64.7	66.0	66.8	67.3	67.6	67.7	67.8
% Ch, Annual Rate	7.0	7.9	8.0	4.9	3.3	1.7	0.7	0.2
Other Publishing Industries	5.2	5.2	5.1	4.9	4.7	4.6	4.4	4.2
% Ch, Annual Rate	-7.9	-4.7	-6.0	-16.2	-14.5	-8.3	-15.1	-19.3
Other Information	61.2	62.5	64.0	65.4	65.3	65.1	66.5	66.9
% Ch, Annual Rate	5.2	9.4	9.5	9.2	-0.4	-1.6	9.2	2.0
Financial Activities	156.8	157.8	157.9	157.6	157.9	158.6	159.4	160.4
% Ch, Annual Rate	4.5	2.5	0.1	-0.8	1.0	1.7	2.0	2.6
Professional and Business Services	422.1	424.1	427.4	429.6	431.6	434.7	440.4	445.7
% Ch, Annual Rate	5.5	2.0	3.2	2.1	1.8	2.9	5.4	4.9
Education and Health Services	486.5	489.2	492.8	497.7	503.5	507.1	509.4	510.8
% Ch, Annual Rate	3.3	2.2	3.0	4.0	4.7	2.9	1.8	1.1
Leisure and Hospitality	339.7	341.1	342.5	344.7	348.1	350.6	352.5	354.8
% Ch, Annual Rate	6.0	1.7	1.5	2.7	4.0	2.9	2.2	2.6
Other Services	120.8	121.3	122.3	123.3	123.9	124.7	125.2	125.6
% Ch, Annual Rate	1.4	1.8	3.1	3.5	2.0	2.5	1.7	1.3
Federal Government	74.7	74.7	74.4	74.2	74.3	74.5	74.6	74.7
% Ch, Annual Rate	-0.7	-0.2	-1.2	-1.3	0.7	0.6	0.6	0.6
State and Local Government	513.5	513.4	512.9	511.6	513.2	514.9	516.9	519.4
% Ch, Annual Rate	-0.4	-0.1	-0.4	-1.0	1.3	1.3	1.6	1.9

Table A2.4 (continued)

Washington Nonagricultural Employment by Industry (Thousands)

Forecast 2019 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Nonfarm Payroll Employment	3,513.8	3,531.2	3,535.1	3,543.2	3,552.3	3,560.7	3,569.3	3,578.7
% Ch, Annual Rate	1.3	2.0	0.4	0.9	1.0	1.0	1.0	1.1
Manufacturing	294.1	293.5	292.7	292.3	291.9	291.6	291.6	291.8
% Ch, Annual Rate	-0.3	-0.9	-1.0	-0.7	-0.5	-0.4	0.0	0.3
Durable Manufacturing	207.8	207.1	206.6	206.2	205.9	205.5	205.4	205.4
% Ch, Annual Rate	-0.2	-1.3	-1.0	-0.6	-0.7	-0.7	-0.3	0.2
Wood Products	12.7	12.6	12.5	12.5	12.5	12.5	12.4	12.4
% Ch, Annual Rate	-2.4	-2.8	-2.3	-0.8	-0.4	-1.3	-1.0	0.2
Primary and Fabricated Metals	27.4	27.2	26.9	26.6	26.2	25.9	25.7	25.6
% Ch, Annual Rate	-0.4	-3.2	-4.7	-4.7	-4.7	-5.0	-3.4	-1.9
Computer and Electronic Products	20.0	20.0	20.1	20.2	20.3	20.4	20.5	20.6
% Ch, Annual Rate	-0.3	-0.2	1.1	2.1	2.1	1.9	2.1	2.5
Machinery and Electrical Equipment	22.7	22.6	22.6	22.7	22.7	22.7	22.8	23.0
% Ch, Annual Rate	3.0	-1.7	0.3	1.4	0.5	0.2	1.8	2.8
Aerospace	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Transportation Equip.	9.4	9.2	9.1	9.0	8.9	8.9	8.8	8.8
% Ch, Annual Rate	-7.7	-8.0	-6.0	-4.0	-4.9	0.0	-1.1	-2.6
Other Durables	29.2	29.1	29.1	29.0	28.9	28.8	28.8	28.8
% Ch, Annual Rate	0.3	-0.6	-0.9	-0.9	-1.0	-1.2	-1.0	-0.2
Nondurable Manufacturing	86.4	86.4	86.2	86.0	86.0	86.1	86.2	86.4
% Ch, Annual Rate	-0.4	0.1	-1.0	-0.7	0.0	0.3	0.7	0.6
Food Manufacturing	39.9	39.9	39.8	39.6	39.6	39.7	39.7	39.8
% Ch, Annual Rate	0.1	0.7	-1.7	-1.5	0.0	0.4	0.8	0.4
Paper and Paper Products	7.2	7.2	7.1	7.0	7.0	6.9	6.9	6.8
% Ch, Annual Rate	-3.4	-2.9	-3.6	-3.3	-3.5	-2.9	-2.7	-2.4
Other Nondurables	39.3	39.3	39.3	39.4	39.4	39.5	39.6	39.8
% Ch, Annual Rate	-0.4	0.0	0.2	0.6	0.6	0.8	1.1	1.4
Natural Resources and Mining	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.3
% Ch, Annual Rate	-1.4	0.5	-1.7	-0.4	-0.1	-0.1	0.2	0.8
Construction	214.8	214.8	214.6	214.5	214.1	213.8	213.8	214.3
% Ch, Annual Rate	-1.6	0.1	-0.3	-0.3	-0.7	-0.6	0.2	0.8
Trade, Transportation, and Utilities	656.1	657.1	658.2	658.6	659.4	659.8	659.4	658.8
% Ch, Annual Rate	0.3	0.6	0.7	0.3	0.5	0.2	-0.3	-0.3
Wholesale Trade	140.3	140.5	140.8	141.1	141.3	141.5	141.6	141.7
% Ch, Annual Rate	0.4	0.7	1.0	0.6	0.6	0.5	0.5	0.3
Retail Trade	397.9	398.7	399.5	399.7	400.2	400.4	399.9	399.4
% Ch, Annual Rate	0.5	0.8	0.8	0.2	0.5	0.2	-0.5	-0.5
Electronic Shopping and Mail-Order	61.7	62.4	63.0	63.7	64.2	64.8	65.3	65.8
% Ch	5.1	4.7	4.3	4.0	3.7	3.5	3.3	3.1
Other Retail Trade	336.3	336.4	336.5	336.0	335.9	335.6	334.6	333.6
% Ch	-0.3	0.1	0.1	-0.5	-0.1	-0.4	-1.2	-1.2
Trans., Warehousing, and Utilities	117.9	117.8	117.8	117.9	117.9	117.9	117.9	117.7
% Ch, Annual Rate	-0.5	-0.2	0.0	0.1	0.2	0.0	-0.3	-0.5
Information	138.8	138.1	138.1	139.5	140.5	140.6	140.5	140.9
% Ch, Annual Rate	0.1	-2.0	-0.1	4.2	2.8	0.3	-0.2	1.2
Software Publishers	67.9	68.0	68.2	68.4	68.6	68.9	69.1	69.4
% Ch, Annual Rate	0.6	0.8	1.2	1.2	1.4	1.4	1.5	1.5
Other Publishing Industries	4.0	3.8	3.6	3.5	3.4	3.3	3.1	3.0
% Ch, Annual Rate	-17.4	-16.6	-13.9	-14.9	-13.2	-13.2	-13.1	-13.0
Other Information	67.0	66.4	66.2	67.6	68.5	68.4	68.2	68.5
% Ch, Annual Rate	0.8	-3.8	-0.7	8.6	5.1	-0.2	-1.2	1.6
Financial Activities	161.2	161.6	161.8	161.8	161.9	161.8	161.8	161.6
% Ch, Annual Rate	2.1	1.0	0.5	0.0	0.2	-0.2	-0.2	-0.4
Professional and Business Services	450.3	453.4	456.3	459.7	463.3	466.0	468.7	471.6
% Ch, Annual Rate	4.2	2.8	2.5	3.1	3.1	2.4	2.3	2.5
Education and Health Services	511.9	513.8	515.7	517.4	519.8	521.8	523.5	524.7
% Ch, Annual Rate	0.8	1.5	1.5	1.3	1.9	1.6	1.3	1.0
Leisure and Hospitality	357.0	359.1	361.0	361.1	359.9	360.7	362.3	364.2
% Ch, Annual Rate	2.6	2.4	2.1	0.0	-1.2	0.9	1.8	2.1
Other Services	126.1	126.5	127.0	127.4	127.9	128.4	128.8	129.2
% Ch, Annual Rate	1.4	1.4	1.5	1.4	1.5	1.4	1.3	1.2
Federal Government	75.3	82.5	76.4	75.1	75.2	75.3	75.3	75.4
% Ch, Annual Rate	3.3	44.5	-26.4	-7.0	0.5	0.5	0.5	0.5
State and Local Government	521.8	524.3	527.0	529.6	532.2	534.8	537.4	539.9
% Ch, Annual Rate	1.9	1.9	2.0	2.0	2.0	2.0	2.0	1.9

Table A2.4 (continued)

Washington Nonagricultural Employment by Industry (Thousands)

Forecast 2019 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Nonfarm Payroll Employment	3,588.2	3,598.0	3,607.7	3,617.4	3,626.9	3,635.8	3,643.9	3,651.8
% Ch, Annual Rate	1.1	1.1	1.1	1.1	1.1	1.0	0.9	0.9
Manufacturing	292.4	293.0	293.7	294.5	295.3	296.0	296.7	297.3
% Ch, Annual Rate	0.8	0.8	1.0	1.1	1.1	1.0	0.9	0.9
Durable Manufacturing	205.9	206.3	206.9	207.6	208.2	208.8	209.4	209.9
% Ch, Annual Rate	0.8	0.8	1.2	1.3	1.3	1.2	1.0	1.0
Wood Products	12.5	12.6	12.7	12.7	12.8	12.8	12.8	12.8
% Ch, Annual Rate	2.4	2.3	2.5	2.3	0.7	0.4	0.1	0.3
Primary and Fabricated Metals	25.5	25.6	25.6	25.8	26.0	26.1	26.3	26.4
% Ch, Annual Rate	-0.4	0.2	1.4	2.3	2.7	2.9	2.5	2.1
Computer and Electronic Products	20.8	20.9	21.1	21.3	21.4	21.6	21.7	21.8
% Ch, Annual Rate	3.4	2.9	3.3	3.2	2.9	2.3	2.0	1.8
Machinery and Electrical Equipment	23.2	23.4	23.7	24.0	24.3	24.6	24.9	25.1
% Ch, Annual Rate	4.3	4.1	4.8	5.2	5.1	4.8	4.1	3.9
Aerospace	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
% Ch, Annual Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Transportation Equip.	8.7	8.6	8.6	8.5	8.5	8.4	8.3	8.3
% Ch, Annual Rate	-3.2	-3.1	-2.8	-2.8	-3.0	-3.0	-2.9	-2.8
Other Durables	28.8	28.8	28.8	28.9	29.0	29.1	29.2	29.2
% Ch, Annual Rate	0.2	0.2	0.7	1.0	1.1	1.2	1.1	1.1
Nondurable Manufacturing	86.5	86.7	86.8	86.9	87.1	87.2	87.3	87.5
% Ch, Annual Rate	0.8	0.7	0.7	0.6	0.5	0.6	0.6	0.6
Food Manufacturing	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
% Ch, Annual Rate	0.4	0.3	-0.1	-0.2	-0.1	0.0	0.1	0.1
Paper and Paper Products	6.8	6.8	6.7	6.7	6.7	6.6	6.6	6.6
% Ch, Annual Rate	-1.9	-1.9	-1.8	-1.9	-1.8	-1.8	-1.7	-1.6
Other Nondurables	39.9	40.1	40.3	40.4	40.6	40.7	40.9	41.0
% Ch, Annual Rate	1.6	1.6	1.8	1.7	1.6	1.5	1.5	1.5
Natural Resources and Mining	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4
% Ch, Annual Rate	1.0	0.9	0.7	0.7	0.8	1.0	0.7	0.8
Construction	214.4	214.8	215.2	215.6	216.1	216.5	216.8	217.2
% Ch, Annual Rate	0.2	0.8	0.8	0.8	0.8	0.8	0.7	0.6
Trade, Transportation, and Utilities	658.4	658.4	658.4	658.3	657.9	657.9	657.8	657.7
% Ch, Annual Rate	-0.3	0.0	0.0	0.0	-0.2	0.0	-0.1	0.0
Wholesale Trade	141.8	141.9	142.0	142.0	142.2	142.2	142.3	142.3
% Ch, Annual Rate	0.3	0.2	0.3	0.1	0.3	0.1	0.2	0.2
Retail Trade	399.0	399.0	399.1	399.1	398.7	398.7	398.7	398.8
% Ch, Annual Rate	-0.4	0.1	0.0	0.0	-0.4	0.1	0.0	0.0
Electronic Shopping and Mail-Order	66.3	66.8	67.2	67.6	68.1	68.5	68.9	69.3
% Ch	2.9	2.8	2.7	2.6	2.5	2.4	2.4	2.3
Other Retail Trade	332.7	332.3	331.9	331.5	330.6	330.3	329.9	329.5
% Ch	-1.1	-0.5	-0.5	-0.5	-1.0	-0.4	-0.5	-0.5
Trans., Warehousing, and Utilities	117.6	117.5	117.3	117.2	117.1	116.9	116.8	116.6
% Ch, Annual Rate	-0.4	-0.5	-0.5	-0.5	-0.3	-0.5	-0.5	-0.5
Information	141.7	142.1	142.3	142.7	143.4	144.0	144.6	145.1
% Ch, Annual Rate	2.1	1.1	0.8	1.1	2.1	1.5	1.8	1.2
Software Publishers	69.7	70.0	70.3	70.6	70.9	71.3	71.6	71.9
% Ch, Annual Rate	1.7	1.7	1.7	1.8	1.9	1.8	1.8	1.8
Other Publishing Industries	2.9	2.9	2.8	2.7	2.6	2.5	2.5	2.4
% Ch, Annual Rate	-11.9	-11.9	-12.0	-11.6	-10.7	-11.5	-11.7	-11.9
Other Information	69.0	69.2	69.3	69.4	69.9	70.2	70.6	70.8
% Ch, Annual Rate	3.1	1.1	0.4	0.8	2.8	1.6	2.2	1.1
Financial Activities	161.3	160.9	160.4	160.0	159.7	159.3	158.8	158.5
% Ch, Annual Rate	-0.8	-1.1	-1.1	-0.9	-0.8	-1.2	-1.0	-0.9
Professional and Business Services	475.0	478.5	482.2	485.8	489.8	493.0	495.8	498.6
% Ch, Annual Rate	3.0	3.0	3.1	3.1	3.3	2.6	2.3	2.3
Education and Health Services	526.0	527.1	528.3	529.4	530.8	531.9	533.0	534.1
% Ch, Annual Rate	0.9	0.8	0.9	0.9	1.0	0.9	0.8	0.8
Leisure and Hospitality	365.2	366.6	367.7	368.7	369.1	370.1	371.0	371.9
% Ch, Annual Rate	1.1	1.5	1.2	1.1	0.4	1.1	1.0	0.9
Other Services	129.6	129.9	130.3	130.6	131.0	131.3	131.6	131.9
% Ch, Annual Rate	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.9
Federal Government	75.5	75.6	75.7	75.8	75.8	75.9	76.0	76.1
% Ch, Annual Rate	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
State and Local Government	542.5	544.9	547.2	549.5	551.7	553.6	555.4	557.1
% Ch, Annual Rate	1.9	1.8	1.7	1.7	1.6	1.4	1.3	1.2

Table A3.1

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

Forecast 2019 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Personal Income	16,125.1	16,830.9	17,581.4	18,336.8	19,114.7	19,920.5	20,766.3	21,643.7
% Ch	2.6	4.4	4.5	4.3	4.2	4.2	4.2	4.2
Total Wage and Salary Disbursements	8,080.7	8,453.8	8,834.7	9,227.4	9,618.1	10,007.8	10,453.7	10,936.9
% Ch	2.9	4.6	4.5	4.4	4.2	4.1	4.5	4.6
Nonwage Personal Income	8,044.5	8,377.1	8,746.6	9,109.4	9,496.7	9,912.6	10,312.6	10,706.9
% Ch	2.3	4.1	4.4	4.1	4.3	4.4	4.0	3.8
Supplements to Wages and Salaries	1,875.6	1,953.4	2,021.0	2,086.9	2,174.0	2,264.4	2,362.8	2,461.8
% Ch	1.8	4.1	3.5	3.3	4.2	4.2	4.3	4.2
Proprietor's Income	1,419.3	1,500.9	1,579.8	1,633.7	1,636.5	1,655.3	1,666.3	1,682.2
% Ch	-0.2	5.8	5.3	3.4	0.2	1.1	0.7	1.0
Farm	37.5	38.9	37.5	50.8	57.9	70.1	74.8	74.5
% Ch	...	...	...	...	...	...	...	...
Nonfarm	1,381.8	1,462.0	1,542.2	1,582.9	1,578.6	1,585.2	1,591.5	1,607.7
% Ch	1.2	5.8	5.5	2.6	-0.3	0.4	0.4	1.0
Less: Contribution For Govt. Soc. Ins.	1,239.9	1,298.6	1,361.1	1,414.6	1,468.8	1,525.0	1,590.5	1,662.2
% Ch	2.9	4.7	4.8	3.9	3.8	3.8	4.3	4.5
Dividends/Int./Rent	3,211.4	3,361.8	3,526.1	3,629.6	3,824.4	4,020.5	4,209.4	4,378.9
% Ch	2.8	4.7	4.9	2.9	5.4	5.1	4.7	4.0
Transfer Payments	2,778.1	2,859.7	2,980.9	3,173.8	3,330.6	3,497.4	3,664.6	3,846.1
% Ch	3.5	2.9	4.2	6.5	4.9	5.0	4.8	5.0

Table A3.2

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

Forecast 2019 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Personal Income	17,319.2	17,466.7	17,657.3	17,882.4	18,049.8	18,234.6	18,433.6	18,629.2
% Ch, Annual Rate	5.2	3.5	4.4	5.2	3.8	4.2	4.4	4.3
Total Wage and Salary Disbursements	8,710.6	8,770.8	8,879.2	8,978.3	9,073.1	9,176.8	9,280.2	9,379.4
% Ch, Annual Rate	5.8	2.8	5.0	4.5	4.3	4.7	4.6	4.3
Nonwage Personal Income	8,608.5	8,695.9	8,778.1	8,904.1	8,976.7	9,057.8	9,153.3	9,249.8
% Ch, Annual Rate	4.5	4.1	3.8	5.9	3.3	3.7	4.3	4.3
Supplements to Wages and Salaries	1,999.4	2,012.0	2,028.7	2,043.8	2,059.6	2,074.2	2,096.1	2,117.6
% Ch, Annual Rate	3.9	2.5	3.3	3.0	3.1	2.9	4.3	4.2
Proprietor's Income	1,549.9	1,568.5	1,580.0	1,620.7	1,626.8	1,644.4	1,633.9	1,629.8
% Ch, Annual Rate	6.4	4.9	3.0	10.7	1.5	4.4	-2.5	-1.0
Farm	35.2	37.0	27.9	50.0	49.2	50.6	51.2	52.3
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,514.7	1,531.5	1,552.0	1,570.7	1,577.7	1,593.8	1,582.6	1,577.5
% Ch, Annual Rate	6.6	4.5	5.5	4.9	1.8	4.1	-2.8	-1.3
Less: Contribution For Govt. Soc. Ins.	1,343.6	1,352.4	1,367.4	1,381.1	1,395.7	1,408.4	1,421.0	1,433.1
% Ch, Annual Rate	8.2	2.7	4.5	4.1	4.3	3.7	3.6	3.4
Dividends/Int./Rent	3,468.8	3,502.0	3,539.6	3,594.0	3,563.0	3,588.9	3,654.0	3,712.5
% Ch, Annual Rate	3.6	3.9	4.4	6.3	-3.4	2.9	7.5	6.6
Transfer Payments	2,933.9	2,965.8	2,997.2	3,026.7	3,123.0	3,158.8	3,190.5	3,223.0
% Ch, Annual Rate	6.6	4.4	4.3	4.0	13.3	4.7	4.1	4.1

Table A3.2 (continued)

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

Forecast 2019 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Personal Income	18,829.9	19,025.2	19,208.9	19,395.0	19,618.4	19,817.7	20,019.0	20,226.9
% Ch, Annual Rate	4.4	4.2	3.9	3.9	4.7	4.1	4.1	4.2
Total Wage and Salary Disbursements	9,476.1	9,579.2	9,663.0	9,753.9	9,853.0	9,953.5	10,058.0	10,166.9
% Ch, Annual Rate	4.2	4.4	3.5	3.8	4.1	4.1	4.3	4.4
Nonwage Personal Income	9,353.8	9,445.9	9,545.9	9,641.1	9,765.4	9,864.2	9,961.0	10,060.0
% Ch, Annual Rate	4.6	4.0	4.3	4.0	5.3	4.1	4.0	4.0
Supplements to Wages and Salaries	2,142.1	2,165.3	2,184.2	2,204.6	2,230.1	2,252.5	2,275.6	2,299.4
% Ch, Annual Rate	4.7	4.4	3.5	3.8	4.7	4.1	4.2	4.3
Proprietor's Income	1,630.8	1,632.2	1,638.7	1,644.3	1,650.7	1,653.8	1,656.3	1,660.3
% Ch, Annual Rate	0.2	0.3	1.6	1.4	1.6	0.8	0.6	1.0
Farm	53.9	56.5	59.4	61.9	65.9	69.3	71.8	73.4
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,576.9	1,575.7	1,579.3	1,582.4	1,584.8	1,584.5	1,584.6	1,586.9
% Ch, Annual Rate	-0.2	-0.3	0.9	0.8	0.6	-0.1	0.0	0.6
Less: Contribution For Govt. Soc. Ins.	1,451.2	1,463.9	1,474.3	1,485.8	1,505.0	1,517.9	1,531.4	1,545.6
% Ch, Annual Rate	5.2	3.5	2.9	3.1	5.3	3.5	3.6	3.8
Dividends/Int./Rent	3,754.6	3,800.2	3,849.3	3,893.4	3,945.9	3,996.7	4,045.2	4,094.4
% Ch, Annual Rate	4.6	4.9	5.3	4.7	5.5	5.3	4.9	5.0
Transfer Payments	3,277.5	3,312.3	3,348.0	3,384.5	3,443.8	3,479.1	3,515.3	3,551.4
% Ch, Annual Rate	6.9	4.3	4.4	4.4	7.2	4.2	4.2	4.2

Table A3.2 (continued)

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

Forecast 2019 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Personal Income	20,452.1	20,659.4	20,870.8	21,082.9	21,318.9	21,532.8	21,750.6	21,972.7
% Ch, Annual Rate	4.5	4.1	4.2	4.1	4.6	4.1	4.1	4.1
Total Wage and Salary Disbursements	10,278.8	10,392.9	10,511.4	10,631.6	10,753.0	10,874.8	10,997.6	11,122.1
% Ch, Annual Rate	4.5	4.5	4.6	4.7	4.6	4.6	4.6	4.6
Nonwage Personal Income	10,173.3	10,266.5	10,359.3	10,451.3	10,565.9	10,658.0	10,753.0	10,850.6
% Ch, Annual Rate	4.6	3.7	3.7	3.6	4.5	3.5	3.6	3.7
Supplements to Wages and Salaries	2,326.6	2,350.6	2,374.9	2,399.0	2,426.3	2,449.9	2,473.6	2,497.5
% Ch, Annual Rate	4.8	4.2	4.2	4.1	4.6	4.0	3.9	3.9
Proprietor's Income	1,660.6	1,663.8	1,668.8	1,672.0	1,673.5	1,678.0	1,684.3	1,693.0
% Ch, Annual Rate	0.1	0.8	1.2	0.8	0.4	1.1	1.5	2.1
Farm	74.4	74.9	75.0	74.9	74.6	74.5	74.5	74.6
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	1,586.2	1,588.9	1,593.8	1,597.2	1,598.9	1,603.5	1,609.8	1,618.4
% Ch, Annual Rate	-0.2	0.7	1.3	0.8	0.4	1.2	1.6	2.1
Less: Contribution For Govt. Soc. Ins.	1,567.3	1,582.4	1,598.1	1,614.1	1,637.5	1,653.9	1,670.3	1,687.0
% Ch, Annual Rate	5.7	3.9	4.0	4.1	5.9	4.0	4.0	4.1
Dividends/Int./Rent	4,140.7	4,187.3	4,231.9	4,277.8	4,319.2	4,358.5	4,398.8	4,439.1
% Ch, Annual Rate	4.6	4.6	4.3	4.4	3.9	3.7	3.7	3.7
Transfer Payments	3,612.7	3,647.3	3,681.8	3,716.5	3,784.4	3,825.4	3,866.6	3,908.1
% Ch, Annual Rate	7.1	3.9	3.8	3.8	7.5	4.4	4.4	4.4

Table A3.3

Washington Personal Income by Component (Billions of Dollars)

Forecast 2019 to 2023

	2016	2017	2018	2019	2020	2021	2022	2023
Personal Income	404.232	428.765	458.532	479.470	502.506	526.530	551.555	577.623
% Ch	5.1	6.1	6.9	4.6	4.8	4.8	4.8	4.7
Total Wage and Salary Disbursements	203.300	218.077	237.255	248.194	259.929	271.791	284.961	299.397
% Ch	6.1	7.3	8.8	4.6	4.7	4.6	4.8	5.1
Manufacturing	21.729	21.691	22.746	23.792	24.559	25.326	26.413	27.679
% Ch	-0.3	-0.2	4.9	4.6	3.2	3.1	4.3	4.8
Durable Manufacturing	17.316	17.080	17.901	18.766	19.363	19.950	20.794	21.804
% Ch	-1.6	-1.4	4.8	4.8	3.2	3.0	4.2	4.9
Nondurable Manufacturing	4.413	4.611	4.845	5.026	5.196	5.376	5.619	5.875
% Ch	4.8	4.5	5.1	3.7	3.4	3.5	4.5	4.6
Nonmanufacturing	174.575	189.496	207.287	216.886	227.572	238.367	250.132	262.970
% Ch	7.1	8.5	9.4	4.6	4.9	4.7	4.9	5.1
Other Private Wages	1.193	1.232	1.387	1.451	1.509	1.567	1.630	1.698
% Ch	4.1	3.3	12.5	4.6	4.0	3.8	4.0	4.1
Farm Wages	1.700	1.467	1.508	1.604	1.706	1.808	1.921	2.042
% Ch	11.5	-13.7	2.8	6.3	6.4	6.0	6.2	6.3
Military Wages	4.103	4.190	4.327	4.462	4.583	4.723	4.865	5.009
% Ch	0.1	2.1	3.3	3.1	2.7	3.1	3.0	3.0
Nonwage Personal Income	200.932	210.688	221.278	231.276	242.577	254.739	266.594	278.226
% Ch	4.1	4.9	5.0	4.5	4.9	5.0	4.7	4.4
Supplements to Wages and Salaries	46.393	48.687	51.744	53.825	56.258	58.793	61.526	64.346
% Ch	5.6	4.9	6.3	4.0	4.5	4.5	4.6	4.6
Proprietor's Income	32.419	35.590	37.347	38.277	38.074	38.415	38.615	38.944
% Ch	-0.2	9.8	4.9	2.5	-0.5	0.9	0.5	0.9
Farm	2.016	1.922	1.657	1.533	1.455	1.652	1.731	1.727
% Ch	...	...	...	...	...	...	...	...
Nonfarm	30.403	33.667	35.689	36.744	36.619	36.763	36.885	37.217
% Ch	3.1	10.7	6.0	3.0	-0.3	0.4	0.3	0.9
Less: Contribution For Govt. Soc. Ins.	33.509	36.007	39.162	40.927	42.569	44.274	46.216	48.371
% Ch	4.4	7.5	8.8	4.5	4.0	4.0	4.4	4.7
Plus: Residence Adjustment	4.190	4.301	4.395	4.599	4.828	5.056	5.317	5.600
% Ch	7.8	2.7	2.2	4.6	5.0	4.7	5.2	5.3
Dividends/Int./Rent	91.551	96.125	101.849	105.710	112.200	118.724	125.049	130.784
% Ch	3.8	5.0	6.0	3.8	6.1	5.8	5.3	4.6
Transfer Payments	59.888	61.992	65.104	69.792	73.787	78.025	82.304	86.923
% Ch	5.8	3.5	5.0	7.2	5.7	5.7	5.5	5.6
State U.I. Benefits	0.982	0.975	0.963	0.793	0.925	1.200	1.360	1.481
% Ch	1.2	-0.7	-1.3	-17.7	16.7	29.7	13.3	8.9
Other Transfers	58.906	61.016	64.142	68.999	72.862	76.825	80.944	85.442
% Ch	5.9	3.6	5.1	7.6	5.6	5.4	5.4	5.6

Table A3.4

Washington Personal Income by Component (Billions of Dollars)

Forecast 2019 to 2023

	2018:1	2018:2	2018:3	2018:4	2019:1	2019:2	2019:3	2019:4
Personal Income	451.517	455.080	460.513	467.020	471.608	476.242	482.092	487.939
% Ch, Annual Rate	12.2	3.2	4.9	5.8	4.0	4.0	5.0	4.9
Total Wage and Salary Disbursements	234.262	235.175	238.256	241.328	244.030	246.593	249.596	252.556
% Ch, Annual Rate	20.7	1.6	5.3	5.3	4.6	4.3	5.0	4.8
Manufacturing	23.403	22.058	22.316	23.205	23.468	23.675	23.890	24.136
% Ch, Annual Rate	32.0	-21.1	4.8	16.9	4.6	3.6	3.7	4.2
Durable Manufacturing	18.596	17.253	17.461	18.294	18.516	18.673	18.842	19.033
% Ch, Annual Rate	37.5	-25.9	4.9	20.5	5.0	3.4	3.7	4.1
Nondurable Manufacturing	4.807	4.805	4.855	4.911	4.952	5.002	5.048	5.103
% Ch, Annual Rate	13.2	-0.2	4.2	4.7	3.4	4.1	3.7	4.5
Nonmanufacturing	203.779	205.935	208.658	210.776	213.136	215.434	218.155	220.817
% Ch, Annual Rate	20.0	4.3	5.4	4.1	4.6	4.4	5.1	5.0
Other Private Wages	1.331	1.408	1.395	1.414	1.429	1.443	1.459	1.474
% Ch, Annual Rate	14.9	25.1	-3.6	5.6	4.2	4.0	4.6	4.2
Farm Wages	1.487	1.497	1.508	1.540	1.565	1.589	1.617	1.643
% Ch, Annual Rate	3.4	3.0	2.9	8.6	6.7	6.4	7.1	6.6
Military Wages	4.261	4.277	4.379	4.393	4.432	4.452	4.476	4.486
% Ch, Annual Rate	3.4	1.5	9.9	1.3	3.7	1.8	2.1	0.9
Nonwage Personal Income	217.256	219.905	222.258	225.692	227.578	229.649	232.495	235.383
% Ch, Annual Rate	3.9	5.0	4.3	6.3	3.4	3.7	5.1	5.1
Supplements to Wages and Salaries	50.883	51.394	52.105	52.597	53.104	53.470	54.065	54.659
% Ch, Annual Rate	11.1	4.1	5.6	3.8	3.9	2.8	4.5	4.5
Proprietor's Income	36.539	37.101	37.474	38.273	38.422	38.527	38.158	38.000
% Ch, Annual Rate	3.4	6.3	4.1	8.8	1.6	1.1	-3.8	-1.6
Farm	1.565	1.656	1.559	1.849	1.763	1.539	1.434	1.397
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	34.975	35.445	35.915	36.424	36.660	36.988	36.725	36.603
% Ch, Annual Rate	6.4	5.5	5.4	5.8	2.6	3.6	-2.8	-1.3
Less: Contribution For Govt. Soc. Ins.	38.442	38.809	39.465	39.931	40.416	40.724	41.100	41.467
% Ch, Annual Rate	17.7	3.9	6.9	4.8	5.0	3.1	3.7	3.6
Plus: Residence Adjustment	4.355	4.376	4.396	4.453	4.509	4.570	4.630	4.688
% Ch, Annual Rate	-2.7	1.9	1.8	5.4	5.1	5.5	5.4	5.1
Dividends/Int./Rent	99.822	101.074	102.352	104.147	103.459	104.422	106.524	108.436
% Ch, Annual Rate	4.7	5.1	5.2	7.2	-2.6	3.8	8.3	7.4
Transfer Payments	64.099	64.770	65.396	66.153	68.499	69.384	70.218	71.066
% Ch, Annual Rate	5.7	4.3	3.9	4.7	15.0	5.3	4.9	4.9
State U.I. Benefits	1.022	0.979	0.932	0.917	0.917	0.756	0.728	0.769
% Ch, Annual Rate	22.0	-15.7	-17.9	-6.3	0.0	-53.7	-14.1	24.2
Other Transfers	63.077	63.790	64.464	65.236	67.582	68.627	69.490	70.298
% Ch, Annual Rate	5.5	4.6	4.3	4.9	15.2	6.3	5.1	4.7

Table A3.4 (continued)

Washington Personal Income by Component (Billions of Dollars)

Forecast 2019 to 2023

	2020:1	2020:2	2020:3	2020:4	2021:1	2021:2	2021:3	2021:4
Personal Income	493.865	499.881	505.243	511.036	517.676	523.513	529.394	535.537
% Ch, Annual Rate	4.9	5.0	4.4	4.7	5.3	4.6	4.6	4.7
Total Wage and Salary Disbursements	255.516	258.788	261.214	264.196	267.315	270.220	273.218	276.412
% Ch, Annual Rate	4.8	5.2	3.8	4.6	4.8	4.4	4.5	4.8
Manufacturing	24.319	24.484	24.627	24.804	24.996	25.198	25.428	25.682
% Ch, Annual Rate	3.1	2.7	2.4	2.9	3.1	3.3	3.7	4.1
Durable Manufacturing	19.180	19.300	19.415	19.557	19.703	19.853	20.025	20.219
% Ch, Annual Rate	3.1	2.5	2.4	3.0	3.0	3.1	3.5	3.9
Nondurable Manufacturing	5.139	5.185	5.212	5.247	5.294	5.346	5.403	5.463
% Ch, Annual Rate	2.9	3.6	2.2	2.7	3.6	4.0	4.4	4.4
Nonmanufacturing	223.502	226.535	228.753	231.497	234.327	236.959	239.653	242.529
% Ch, Annual Rate	5.0	5.5	4.0	4.9	5.0	4.6	4.6	4.9
Other Private Wages	1.488	1.504	1.515	1.530	1.545	1.559	1.574	1.589
% Ch, Annual Rate	4.0	4.4	2.9	3.9	4.1	3.7	3.8	4.0
Farm Wages	1.668	1.696	1.716	1.742	1.769	1.794	1.820	1.848
% Ch, Annual Rate	6.3	6.8	4.9	6.1	6.4	5.9	5.9	6.2
Military Wages	4.539	4.569	4.603	4.624	4.677	4.709	4.743	4.764
% Ch, Annual Rate	4.8	2.7	3.0	1.8	4.7	2.7	3.0	1.8
Nonwage Personal Income	238.349	241.093	244.028	246.840	250.361	253.294	256.176	259.125
% Ch, Annual Rate	5.1	4.7	5.0	4.7	5.8	4.8	4.6	4.7
Supplements to Wages and Salaries	55.355	56.021	56.526	57.129	57.869	58.471	59.090	59.742
% Ch, Annual Rate	5.2	4.9	3.7	4.3	5.3	4.2	4.3	4.5
Proprietor's Income	37.978	37.987	38.108	38.223	38.342	38.388	38.425	38.504
% Ch, Annual Rate	-0.2	0.1	1.3	1.2	1.2	0.5	0.4	0.8
Farm	1.399	1.431	1.476	1.515	1.581	1.639	1.680	1.708
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	36.578	36.556	36.632	36.709	36.760	36.749	36.745	36.796
% Ch, Annual Rate	-0.3	-0.2	0.8	0.8	0.6	-0.1	0.0	0.6
Less: Contribution For Govt. Soc. Ins.	42.019	42.434	42.723	43.101	43.700	44.069	44.455	44.872
% Ch, Annual Rate	5.4	4.0	2.7	3.6	5.7	3.4	3.5	3.8
Plus: Residence Adjustment	4.745	4.805	4.854	4.907	4.965	5.024	5.085	5.149
% Ch, Annual Rate	4.9	5.2	4.1	4.5	4.8	4.8	5.0	5.1
Dividends/Int./Rent	109.866	111.395	113.028	114.511	116.244	117.926	119.544	121.184
% Ch, Annual Rate	5.4	5.7	6.0	5.4	6.2	5.9	5.6	5.6
Transfer Payments	72.425	73.318	74.234	75.170	76.641	77.554	78.486	79.419
% Ch, Annual Rate	7.9	5.0	5.1	5.1	8.1	4.8	4.9	4.8
State U.I. Benefits	0.828	0.870	0.968	1.032	1.097	1.176	1.240	1.286
% Ch, Annual Rate	34.7	22.0	53.3	29.0	27.6	32.0	23.7	15.9
Other Transfers	71.596	72.448	73.266	74.138	75.544	76.378	77.246	78.132
% Ch, Annual Rate	7.6	4.8	4.6	4.8	7.8	4.5	4.6	4.7

Table A3.4 (continued)

Washington Personal Income by Component (Billions of Dollars)

Forecast 2019 to 2023

	2022:1	2022:2	2022:3	2022:4	2023:1	2023:2	2023:3	2023:4
Personal Income	542.183	548.373	554.659	561.007	568.017	574.369	580.808	587.297
% Ch, Annual Rate	5.1	4.6	4.7	4.7	5.1	4.5	4.6	4.5
Total Wage and Salary Disbursements	279.792	283.171	286.662	290.221	293.957	297.573	301.213	304.845
% Ch, Annual Rate	5.0	4.9	5.0	5.1	5.3	5.0	5.0	4.9
Manufacturing	25.965	26.251	26.559	26.877	27.197	27.518	27.839	28.160
% Ch, Annual Rate	4.5	4.5	4.8	4.9	4.8	4.8	4.7	4.7
Durable Manufacturing	20.440	20.664	20.909	21.164	21.420	21.677	21.932	22.186
% Ch, Annual Rate	4.4	4.4	4.8	5.0	4.9	4.9	4.8	4.7
Nondurable Manufacturing	5.525	5.587	5.650	5.713	5.777	5.841	5.907	5.974
% Ch, Annual Rate	4.6	4.6	4.6	4.5	4.5	4.5	4.6	4.6
Nonmanufacturing	245.526	248.542	251.645	254.816	258.130	261.345	264.582	267.823
% Ch, Annual Rate	5.0	5.0	5.1	5.1	5.3	5.1	5.0	5.0
Other Private Wages	1.606	1.622	1.638	1.655	1.673	1.689	1.706	1.723
% Ch, Annual Rate	4.2	4.1	4.1	4.1	4.3	4.1	4.0	4.0
Farm Wages	1.877	1.906	1.935	1.965	1.996	2.027	2.057	2.087
% Ch, Annual Rate	6.4	6.3	6.3	6.3	6.5	6.2	6.1	6.0
Military Wages	4.818	4.850	4.885	4.907	4.961	4.994	5.029	5.052
% Ch, Annual Rate	4.6	2.7	2.9	1.8	4.5	2.6	2.9	1.8
Nonwage Personal Income	262.391	265.203	267.997	270.786	274.060	276.795	279.595	282.452
% Ch, Annual Rate	5.1	4.4	4.3	4.2	4.9	4.1	4.1	4.2
Supplements to Wages and Salaries	60.519	61.185	61.861	62.539	63.342	64.012	64.681	65.349
% Ch, Annual Rate	5.3	4.5	4.5	4.5	5.2	4.3	4.2	4.2
Proprietor's Income	38.498	38.562	38.667	38.733	38.762	38.855	38.987	39.171
% Ch, Annual Rate	-0.1	0.7	1.1	0.7	0.3	1.0	1.4	1.9
Farm	1.724	1.732	1.734	1.732	1.728	1.725	1.725	1.727
% Ch, Annual Rate	...	...	...	...	...	...	...	...
Nonfarm	36.774	36.830	36.933	37.001	37.033	37.130	37.262	37.444
% Ch, Annual Rate	-0.2	0.6	1.1	0.7	0.4	1.0	1.4	2.0
Less: Contribution For Govt. Soc. Ins.	45.526	45.975	46.443	46.920	47.640	48.127	48.615	49.102
% Ch, Annual Rate	6.0	4.0	4.1	4.2	6.3	4.1	4.1	4.1
Plus: Residence Adjustment	5.214	5.281	5.351	5.421	5.492	5.563	5.635	5.708
% Ch, Annual Rate	5.2	5.2	5.4	5.4	5.3	5.3	5.3	5.3
Dividends/Int./Rent	122.738	124.301	125.807	127.349	128.755	130.096	131.462	132.824
% Ch, Annual Rate	5.2	5.2	4.9	5.0	4.5	4.2	4.3	4.2
Transfer Payments	80.947	81.849	82.754	83.665	85.349	86.395	87.445	88.502
% Ch, Annual Rate	7.9	4.5	4.5	4.5	8.3	5.0	4.9	4.9
State U.I. Benefits	1.321	1.349	1.372	1.397	1.426	1.461	1.501	1.536
% Ch, Annual Rate	11.1	8.7	7.2	7.4	8.6	10.1	11.4	9.7
Other Transfers	79.626	80.501	81.382	82.268	83.923	84.935	85.944	86.966
% Ch, Annual Rate	7.9	4.5	4.5	4.4	8.3	4.9	4.8	4.8