

APPENDIX A: ECONOMIC FORECAST DETAIL

Table A.1	Employment Forecast Tracking	41
Table A.2	Short-term Oregon Economic Summary	42
Table A.3	Oregon Economic Forecast Change	43
Table A.4	Annual Economic Forecast	44

Table A.1 – Employment Forecast Tracking

Total Nonfarm Employment, 4th quarter 2017

(Employment in thousands, Annualized Percent Change)

	Preliminary Estimate		Forecast		Forecast Error		Y/Y Change
	level	% ch	level	% ch	level	%	% ch
Total Nonfarm	1,884.9	1.4	1,894.2	2.8	(9.3)	(0.5)	2.0
Total Private	1,573.5	2.4	1,579.1	3.0	(5.6)	(0.4)	2.3
Mining and Logging	7.0	7.5	7.1	5.3	(0.1)	(0.7)	(2.4)
Construction	98.9	2.9	100.1	3.7	(1.2)	(1.2)	6.6
Manufacturing	190.9	2.9	191.2	1.5	(0.3)	(0.1)	1.5
Durable Goods	132.4	2.5	132.7	1.5	(0.3)	(0.2)	1.1
Wood Product	23.0	2.8	23.0	2.3	0.0	0.1	1.1
Metals and Machinery	37.6	5.1	37.4	1.7	0.2	0.6	2.7
Computer and Electronic Product	37.4	4.8	37.4	1.5	0.0	0.0	0.2
Transportation Equipment	11.7	(9.4)	12.0	1.7	(0.3)	(2.8)	(2.4)
Other Durable Goods	22.7	0.7	22.9	0.4	(0.2)	(0.9)	2.0
Nondurable Goods	58.5	4.0	58.5	1.6	0.0	0.0	2.4
Food	30.1	8.0	30.1	1.3	0.0	0.1	2.6
Other Nondurable Goods	28.4	(0.1)	28.4	1.9	0.0	0.0	2.1
Trade, Transportation & Utilities	349.7	(0.3)	352.8	1.7	(3.1)	(0.9)	1.4
Retail Trade	210.0	0.5	210.7	0.3	(0.7)	(0.4)	1.5
Wholesale Trade	75.9	(3.9)	77.5	3.1	(1.5)	(2.0)	(0.0)
Transportation, Warehousing & Utilities	63.7	1.6	64.6	4.4	(0.8)	(1.3)	2.6
Information	34.2	2.1	34.6	0.3	(0.4)	(1.0)	1.9
Financial Activities	99.2	2.2	99.8	5.0	(0.6)	(0.6)	1.8
Professional & Business Services	245.0	2.9	244.4	3.7	0.6	0.3	2.3
Educational & Health Services	274.7	1.4	277.5	5.0	(2.8)	(1.0)	2.2
Educational Services	36.4	(5.3)	36.3	(1.7)	0.2	0.5	2.5
Health Services	238.3	2.4	241.3	6.1	(3.0)	(1.2)	2.2
Leisure and Hospitality	210.0	7.5	208.2	2.9	1.7	0.8	3.9
Other Services	63.9	1.8	63.5	2.0	0.4	0.6	(0.7)
Government	311.4	(3.4)	315.1	1.7	(3.7)	(1.2)	0.9
Federal	28.1	(1.5)	28.2	0.5	(0.1)	(0.4)	(1.1)
State	57.3	(12.4)	56.8	(17.2)	0.5	0.9	0.5
State Education	0.9	(28.4)	0.8	(52.6)	0.1	8.8	(7.6)
Local	226.0	(1.2)	230.1	7.3	(4.1)	(1.8)	1.3
Local Education	132.0	(3.4)	137.8	17.7	(5.8)	(4.2)	0.9

Table A.2 – Short-Term Oregon Economic Summary

	Quarterly					Annual					
	2017:4	2018:1	2018:2	2018:3	2018:4	2016	2017	2018	2019	2020	2021
Personal Income (\$ billions)											
Nominal Personal Income	196.2	198.8	201.8	204.8	207.6	185.8	192.6	203.2	214.9	226.3	237.3
% change	6.4	5.4	6.1	6.0	5.7	4.2	3.7	5.5	5.7	5.3	4.9
Real Personal Income (base year=2017:4)	173.0	174.8	177.0	179.0	180.8	167.7	171.0	177.9	185.0	190.7	195.8
% change	3.7	4.2	5.2	4.4	4.1	2.9	1.9	4.0	4.0	3.1	2.7
Nominal Wages and Salaries	102.5	103.9	105.7	107.4	109.0	96.0	100.2	106.5	113.1	118.8	124.3
% change	7.1	5.6	6.8	6.5	6.5	5.4	4.3	6.3	6.2	5.1	4.6
Other Indicators											
Per Capita Income (\$1,000)	47.0	47.5	48.0	48.5	49.0	45.5	46.4	48.3	50.3	52.3	54.1
% change	4.9	4.1	4.6	4.2	4.3	2.6	2.1	4.0	4.3	3.9	3.6
Average Wage rate (\$1,000)	53.7	54.3	54.9	55.5	56.0	51.9	53.0	55.2	57.4	59.7	62.1
% change	4.4	4.6	4.4	4.1	4.0	2.3	2.1	4.2	4.1	4.0	4.0
Population (Millions)	4.2	4.2	4.2	4.2	4.2	4.09	4.15	4.21	4.27	4.33	4.38
% change	1.4	1.3	1.5	1.7	1.3	1.5	1.6	1.5	1.4	1.3	1.3
Housing Starts (Thousands)	19.5	19.6	20.4	21.0	21.1	19.1	19.0	20.5	22.1	23.7	24.6
% change	(25.4)	2.2	17.2	11.1	3.4	19.8	(0.3)	8.1	7.7	7.2	3.7
Unemployment Rate	4.2	4.3	4.4	4.5	4.5	4.9	4.0	4.4	4.5	4.7	4.8
Point Change	0.2	0.0	0.2	0.1	0.0	(0.7)	(0.9)	0.4	0.1	0.1	0.1
Employment (Thousands)											
Total Nonfarm	1,884.9	1,895.3	1,906.5	1,917.6	1,928.9	1,833.5	1,872.8	1,912.1	1,952.2	1,972.9	1,983.9
% change	1.4	2.2	2.4	2.3	2.4	2.9	2.1	2.1	2.1	1.1	0.6
Private Nonfarm	1,573.5	1,583.0	1,592.8	1,602.7	1,612.8	1,526.3	1,562.0	1,597.8	1,633.1	1,648.9	1,657.8
% change	2.4	2.4	2.5	2.5	2.5	3.1	2.3	2.3	2.2	1.0	0.5
Construction	98.9	99.5	99.9	100.1	100.6	90.3	97.1	100.0	100.9	101.2	101.5
% change	2.9	2.3	1.5	0.9	2.1	8.5	7.5	3.0	0.9	0.3	0.3
Manufacturing	190.9	191.9	192.6	193.2	193.9	188.1	189.6	192.9	195.4	196.8	197.5
% change	2.9	2.1	1.4	1.4	1.3	1.0	0.8	1.8	1.3	0.7	0.4
Durable Manufacturing	132.4	133.1	133.6	134.0	134.5	131.2	131.5	133.8	135.5	136.4	136.6
% change	2.5	2.0	1.6	1.3	1.4	0.6	0.2	1.8	1.3	0.6	0.2
Wood Product Manufacturing	23.0	23.1	23.1	23.1	23.2	22.7	22.9	23.1	23.2	23.5	23.7
% change	2.8	1.4	0.1	(0.1)	1.3	1.0	0.9	0.8	0.5	1.2	0.7
High Tech Manufacturing	37.4	37.5	37.6	37.7	37.8	37.9	36.9	37.6	38.1	38.3	38.0
% change	4.8	0.9	1.1	1.1	1.5	0.4	(2.7)	2.0	1.4	0.3	(0.8)
Transportation Equipment	11.7	11.8	11.9	12.0	12.0	12.2	11.8	11.9	12.0	12.0	12.0
% change	(9.4)	5.1	2.2	1.8	1.5	(2.6)	(2.8)	0.9	1.0	(0.2)	(0.4)
Nondurable Manufacturing	58.5	58.9	59.0	59.2	59.4	56.9	58.1	59.1	59.9	60.4	60.9
% change	4.0	2.2	0.7	1.4	1.2	2.0	2.1	1.7	1.3	0.8	0.8
Private nonmanufacturing	1,382.6	1,391.0	1,400.2	1,409.4	1,418.9	1,338.2	1,372.4	1,404.9	1,437.8	1,452.2	1,460.4
% change	2.4	2.5	2.7	2.7	2.7	3.4	2.6	2.4	2.3	1.0	0.6
Retail Trade	210.0	210.7	211.4	211.9	212.5	205.9	210.2	211.6	213.9	215.2	215.7
% change	0.5	1.4	1.2	1.1	1.1	1.8	2.1	0.7	1.1	0.6	0.3
Wholesale Trade	75.9	76.5	76.9	77.4	77.7	75.6	76.5	77.1	78.2	78.7	79.0
% change	(3.9)	2.8	2.5	2.3	1.7	2.1	1.2	0.8	1.4	0.6	0.4
Information	34.2	34.4	34.6	34.7	34.9	33.5	34.2	34.6	35.1	35.4	35.5
% change	2.1	2.2	2.4	1.8	1.6	1.6	2.3	1.3	1.3	0.7	0.4
Professional and Business Services	245.0	248.2	251.7	255.4	259.5	238.2	243.3	253.7	268.9	277.2	281.8
% change	2.9	5.4	5.8	5.9	6.6	3.9	2.1	4.3	6.0	3.1	1.7
Health Services	238.3	240.0	241.7	243.4	245.1	230.4	236.4	242.6	248.9	251.7	254.4
% change	2.4	2.9	2.9	2.9	2.8	3.5	2.6	2.6	2.6	1.1	1.1
Leisure and Hospitality	210.0	210.4	211.4	212.6	213.3	199.8	206.3	211.9	214.7	214.5	213.3
% change	7.5	0.8	2.0	2.2	1.4	4.3	3.3	2.7	1.3	(0.1)	(0.5)
Government	311.4	312.4	313.7	314.9	316.1	307.2	310.8	314.3	319.0	324.0	326.1
% change	(3.4)	1.3	1.6	1.6	1.5	2.0	1.2	1.1	1.5	1.6	0.6

Table A.3 – Oregon Economic Forecast Change

	Quarterly					Annual					
	2017:4	2018:1	2018:2	2018:3	2018:4	2016	2017	2018	2019	2020	2021
Personal Income (\$ billions)											
Nominal Personal Income	196.2	198.8	201.8	204.8	207.6	185.8	192.6	203.2	214.9	226.3	237.3
% change	(0.2)	(0.3)	(0.1)	0.1	0.2	0.0	(0.1)	(0.0)	0.3	0.1	0.1
Real Personal Income (base year=2017)	173.0	174.8	177.0	179.0	180.8	167.7	171.0	177.9	185.0	190.7	195.8
% change	(0.5)	(0.5)	(0.2)	0.1	0.2	0.0	(0.2)	(0.1)	0.3	0.1	(0.1)
Nominal Wages and Salaries	102.5	103.9	105.7	107.4	109.0	96.0	100.2	106.5	113.1	118.8	124.3
% change	(0.6)	(0.8)	(0.7)	(0.5)	(0.4)	0.0	(0.1)	(0.6)	(0.2)	(0.4)	(0.7)
Other Indicators											
Per Capita Income (\$1,000)	47.0	47.5	48.0	48.5	49.0	45.5	46.4	48.3	50.3	52.3	54.1
% change	(0.2)	(0.3)	(0.1)	0.1	0.2	0.0	(0.1)	(0.0)	0.3	0.1	0.1
Average Wage rate (\$1,000)	53.7	54.3	54.9	55.5	56.0	51.9	53.0	55.2	57.4	59.7	62.1
% change	(0.4)	(0.4)	(0.3)	(0.3)	(0.3)	0.0	(0.1)	(0.3)	(0.4)	(0.6)	(0.7)
Population (Millions)	4.17	4.19	4.20	4.2	4.2	4.09	4.15	4.21	4.27	4.33	4.38
% change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Housing Starts (Thousands)	19.5	19.6	20.4	21.0	21.1	19.1	19.0	20.5	22.1	23.7	24.6
% change	(3.1)	(9.5)	(9.0)	(8.7)	(6.9)	(0.0)	(0.9)	(8.5)	(4.0)	(1.0)	0.1
Unemployment Rate	4.2	4.3	4.4	4.5	4.5	4.9	4.0	4.4	4.5	4.7	4.8
Point Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Employment (Thousands)											
Total Nonfarm	1,884.9	1,895.3	1,906.5	1,917.6	1,928.9	1,833.5	1,872.8	1,912.1	1,952.2	1,972.9	1,983.9
% change	(0.5)	(0.4)	(0.3)	(0.3)	(0.1)	(0.0)	(0.2)	(0.3)	0.2	0.2	0.0
Private Nonfarm	1,573.5	1,583.0	1,592.8	1,602.7	1,612.8	1,526.3	1,562.0	1,597.8	1,633.1	1,648.9	1,657.8
% change	(0.4)	(0.3)	(0.1)	(0.1)	0.1	0.0	(0.1)	(0.1)	0.5	0.5	0.3
Construction	98.9	99.5	99.9	100.1	100.6	90.3	97.1	100.0	100.9	101.2	101.5
% change	(1.2)	(0.3)	0.3	0.3	0.7	(0.0)	(0.6)	0.2	0.7	0.6	0.6
Manufacturing	190.9	191.9	192.6	193.2	193.9	188.1	189.6	192.9	195.4	196.8	197.5
% change	(0.1)	0.0	(0.1)	(0.0)	0.1	(0.0)	(0.2)	0.0	0.4	0.6	0.4
Durable Manufacturing	132.4	133.1	133.6	134.0	134.5	131.2	131.5	133.8	135.5	136.4	136.6
% change	(0.2)	(0.0)	0.1	0.1	0.3	0.0	(0.2)	0.1	0.7	1.1	0.9
Wood Product Manufacturing	23.0	23.1	23.1	23.1	23.2	22.7	22.9	23.1	23.2	23.5	23.7
% change	0.1	0.4	0.2	0.2	0.5	0.0	(0.0)	0.3	0.3	0.7	0.7
High Tech Manufacturing	37.4	37.5	37.6	37.7	37.8	37.9	36.9	37.6	38.1	38.3	38.0
% change	0.0	(0.1)	(0.3)	(0.4)	(0.4)	(0.0)	(0.2)	(0.3)	0.7	1.4	1.1
Transportation Equipment	11.7	11.8	11.9	12.0	12.0	12.2	11.8	11.9	12.0	12.0	12.0
% change	(2.8)	(1.8)	(1.6)	(1.7)	(1.7)	0.0	(0.7)	(1.7)	(1.6)	(2.0)	(2.9)
Nondurable Manufacturing	58.5	58.9	59.0	59.2	59.4	56.9	58.1	59.1	59.9	60.4	60.9
% change	0.0	0.1	(0.3)	(0.3)	(0.4)	(0.0)	(0.2)	(0.2)	(0.3)	(0.4)	(0.7)
Private nonmanufacturing	1,382.6	1,391.0	1,400.2	1,409.4	1,418.9	1,338.2	1,372.4	1,404.9	1,437.8	1,452.2	1,460.4
% change	(0.4)	(0.3)	(0.2)	(0.1)	0.1	0.0	(0.1)	(0.1)	0.5	0.5	0.3
Retail Trade	210.0	210.7	211.4	211.9	212.5	205.9	210.2	211.6	213.9	215.2	215.7
% change	(0.4)	(0.1)	0.1	0.2	0.4	0.0	(0.2)	0.1	0.6	0.5	0.4
Wholesale Trade	75.9	76.5	76.9	77.4	77.7	75.6	76.5	77.1	78.2	78.7	79.0
% change	(2.0)	(1.6)	(1.3)	(0.9)	(0.7)	0.0	(0.6)	(1.1)	(0.2)	(0.0)	0.0
Information	34.2	34.4	34.6	34.7	34.9	33.5	34.2	34.6	35.1	35.4	35.5
% change	(1.0)	(0.5)	(0.0)	0.2	0.4	0.0	(0.7)	(0.0)	0.7	0.6	0.5
Professional and Business Services	245.0	248.2	251.7	255.4	259.5	238.2	243.3	253.7	268.9	277.2	281.8
% change	0.3	0.4	0.5	0.8	1.0	0.0	0.2	0.7	1.2	1.2	0.7
Health Services	238.3	240.0	241.7	243.4	245.1	230.4	236.4	242.6	248.9	251.7	254.4
% change	(1.2)	(1.1)	(1.1)	(1.2)	(0.9)	0.0	(0.4)	(1.1)	0.1	0.3	0.0
Leisure and Hospitality	210.0	210.4	211.4	212.6	213.3	199.8	206.3	211.9	214.7	214.5	213.3
% change	0.8	0.3	0.4	0.4	0.4	(0.0)	0.1	0.4	0.6	0.6	0.5
Government	311.4	312.4	313.7	314.9	316.1	307.2	310.8	314.3	319.0	324.0	326.1
% change	(1.2)	(1.3)	(1.4)	(1.4)	(1.4)	(0.0)	(0.3)	(1.4)	(1.3)	(1.2)	(1.3)

Table A.4 – Annual Economic Forecast

Mar 2018 - Personal Income**(Billions of Current Dollars)**

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Total Personal Income*												
Oregon	185.8	192.6	203.2	214.9	226.3	237.3	248.9	260.6	273.3	286.5	300.6	315.2
% Ch	4.2	3.7	5.5	5.7	5.3	4.9	4.9	4.7	4.9	4.8	4.9	4.9
U.S.	15,928.7	16,415.9	17,132.9	18,031.3	18,933.8	19,795.8	20,663.3	21,582.5	22,521.1	23,490.3	24,504.6	25,561.6
% Ch	2.4	3.1	4.4	5.2	5.0	4.6	4.4	4.4	4.3	4.3	4.3	4.3
Wage and Salary												
Oregon	96.0	100.2	106.5	113.1	118.8	124.3	129.9	135.9	142.5	149.5	156.9	164.5
% Ch	5.4	4.3	6.3	6.2	5.1	4.6	4.6	4.6	4.9	4.9	4.9	4.9
U.S.	8,085.2	8,338.6	8,709.2	9,184.0	9,630.7	10,051.4	10,494.5	10,968.2	11,475.8	12,002.4	12,556.4	13,140.7
% Ch	2.9	3.1	4.4	5.5	4.9	4.4	4.4	4.5	4.6	4.6	4.6	4.7
Other Labor Income												
Oregon	22.2	23.2	24.1	25.0	26.0	27.1	28.3	29.4	30.7	32.0	33.4	34.7
% Ch	5.0	4.6	3.9	3.7	4.2	4.3	4.2	4.1	4.2	4.3	4.2	4.0
U.S.	1,309.8	1,345.9	1,383.2	1,426.9	1,475.7	1,524.3	1,575.1	1,629.3	1,686.0	1,744.5	1,804.3	1,866.1
% Ch	2.5	2.8	2.8	3.2	3.4	3.3	3.3	3.4	3.5	3.5	3.4	3.4
Nonfarm Proprietor's Income												
Oregon	14.3	15.0	15.7	16.4	16.9	17.4	18.1	18.8	19.5	20.2	21.1	22.0
% Ch	9.5	4.8	4.5	4.3	3.4	2.6	3.9	3.9	3.7	3.9	4.2	4.2
U.S.	1,298.7	1,349.7	1,403.4	1,456.9	1,498.6	1,533.0	1,575.5	1,622.5	1,666.2	1,714.3	1,760.2	1,817.1
% Ch	2.7	3.9	4.0	3.8	2.9	2.3	2.8	3.0	2.7	2.9	2.7	3.2
Dividend, Interest and Rent												
Oregon	36.8	38.1	40.3	42.6	45.1	47.7	50.2	52.5	54.7	56.9	59.3	61.7
% Ch	1.8	3.5	5.9	5.6	6.0	5.7	5.1	4.6	4.2	4.0	4.2	4.0
U.S.	3,085.1	3,185.7	3,343.7	3,513.6	3,716.2	3,924.1	4,116.3	4,296.9	4,471.2	4,648.2	4,847.8	5,048.1
% Ch	1.2	3.3	5.0	5.1	5.8	5.6	4.9	4.4	4.1	4.0	4.3	4.1
Transfer Payments												
Oregon	36.6	37.2	38.8	41.1	43.6	46.2	48.9	51.8	55.0	58.3	61.8	65.6
% Ch	2.4	1.6	4.2	5.9	6.2	5.9	5.9	5.9	6.2	6.1	6.0	6.1
U.S.	2,722.1	2,819.5	2,961.1	3,121.3	3,301.1	3,497.4	3,714.1	3,946.3	4,197.8	4,464.3	4,739.3	5,023.8
% Ch	3.6	3.6	5.0	5.4	5.8	5.9	6.2	6.3	6.4	6.3	6.2	6.0
Contributions for Social Security												
Oregon	16.7	17.6	18.5	19.4	20.4	21.3	22.3	23.4	24.7	25.9	27.2	28.4
% Ch	4.6	5.3	4.9	5.1	5.0	4.8	4.5	5.1	5.2	5.1	4.8	4.7
U.S.	661.7	691.3	718.1	749.5	783.2	815.7	850.5	888.1	928.6	970.8	1,015.2	1,062.3
% Ch	3.9	4.5	3.9	4.4	4.5	4.1	4.3	4.4	4.6	4.5	4.6	4.6
Residence Adjustment												
Oregon	(3.9)	(4.1)	(4.2)	(4.3)	(4.4)	(4.5)	(4.6)	(4.7)	(4.8)	(5.0)	(5.1)	(5.3)
% Ch	5.6	3.4	2.8	2.6	2.4	2.3	2.0	2.2	2.9	3.0	2.7	3.2
Farm Proprietor's Income												
Oregon	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
% Ch	(40.9)	11.9	(18.9)	5.1	1.9	(7.3)	(10.6)	0.8	2.9	1.6	1.4	1.6
Per Capita Income (Thousands of \$)												
Oregon	45.5	46.4	48.3	50.3	52.3	54.1	56.1	58.1	60.2	62.5	64.8	67.3
% Ch	2.6	2.1	4.0	4.3	3.9	3.6	3.6	3.5	3.7	3.7	3.8	3.8
U.S.	49.2	50.4	52.2	54.5	56.7	58.9	61.0	63.2	65.5	67.8	70.2	72.7
% Ch	1.7	2.3	3.5	4.4	4.2	3.7	3.6	3.7	3.6	3.5	3.6	3.6

* Personal Income includes all classes of income minus Contributions for Social Security

**Mar 2018 - Employment By Industry
(Oregon - Thousands, U.S. - Millions)**

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Total Nonfarm												
Oregon	1,833.5	1,872.8	1,912.1	1,952.2	1,972.9	1,983.9	1,994.6	2,004.9	2,017.6	2,031.8	2,045.5	2,058.1
% Ch	2.9	2.1	2.1	2.1	1.1	0.6	0.5	0.5	0.6	0.7	0.7	0.6
U.S.	144.3	146.5	148.8	151.0	152.1	152.4	153.1	153.8	154.4	155.0	155.6	156.2
% Ch	1.8	1.5	1.6	1.5	0.7	0.3	0.4	0.5	0.4	0.4	0.4	0.4
Private Nonfarm												
Oregon	1,526.3	1,562.0	1,597.8	1,633.1	1,648.9	1,657.8	1,665.2	1,672.6	1,682.4	1,693.3	1,703.3	1,711.9
% Ch	3.1	2.3	2.3	2.2	1.0	0.5	0.4	0.4	0.6	0.7	0.6	0.5
U.S.	122.1	124.1	126.3	128.4	129.1	129.4	129.9	130.4	130.9	131.3	131.8	132.2
% Ch	1.9	1.7	1.8	1.6	0.6	0.3	0.4	0.4	0.4	0.3	0.3	0.3
Mining and Logging												
Oregon	7.5	7.0	7.2	7.3	7.4	7.5	7.6	7.6	7.7	7.7	7.8	7.8
% Ch	(2.9)	(7.7)	3.2	2.2	1.3	1.0	0.9	0.7	0.6	0.8	0.6	0.5
U.S.	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
% Ch	(16.6)	4.6	4.8	2.9	3.3	2.2	1.5	1.2	1.0	0.0	(1.0)	(0.8)
Construction												
Oregon	90.3	97.1	100.0	100.9	101.2	101.5	101.8	102.2	102.4	103.0	103.9	105.0
% Ch	8.5	7.5	3.0	0.9	0.3	0.3	0.3	0.4	0.2	0.6	0.8	1.1
U.S.	6.7	6.9	7.0	7.3	7.6	7.8	7.9	8.1	8.2	8.4	8.5	8.6
% Ch	3.9	2.8	1.8	3.6	3.9	2.6	2.4	2.0	1.8	1.7	1.4	1.4
Manufacturing												
Oregon	188.1	189.6	192.9	195.4	196.8	197.5	198.1	198.6	199.5	200.6	201.8	203.0
% Ch	1.0	0.8	1.8	1.3	0.7	0.4	0.3	0.3	0.4	0.6	0.6	0.6
U.S.	12.3	12.4	12.7	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.1
% Ch	0.1	0.7	2.1	1.6	0.9	(0.0)	(0.2)	(0.1)	(0.0)	0.2	0.4	0.2
Durable Manufacturing												
Oregon	131.2	131.5	133.8	135.5	136.4	136.6	136.7	136.8	137.1	137.6	138.2	138.7
% Ch	0.6	0.2	1.8	1.3	0.6	0.2	0.1	0.1	0.2	0.4	0.4	0.4
U.S.	7.7	7.8	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3
% Ch	(0.6)	0.5	2.6	2.0	1.2	0.1	(0.2)	(0.1)	(0.0)	0.3	0.7	0.5
Wood Products												
Oregon	22.7	22.9	23.1	23.2	23.5	23.7	23.7	23.8	24.0	24.0	24.1	24.2
% Ch	1.0	0.9	0.8	0.5	1.2	0.7	0.3	0.4	0.5	0.4	0.2	0.2
U.S.	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
% Ch	2.5	0.7	3.2	6.0	4.1	2.8	2.7	3.0	2.7	2.0	2.0	1.6
Metal and Machinery												
Oregon	36.7	37.2	38.2	38.9	39.3	39.4	39.4	39.6	39.8	40.2	40.5	40.8
% Ch	(0.5)	1.4	2.8	1.8	0.9	0.4	0.1	0.4	0.7	0.9	0.8	0.6
U.S.	2.9	2.9	3.0	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3
% Ch	(3.0)	1.2	3.6	2.6	1.7	0.4	0.6	1.0	1.0	0.8	0.8	0.2
Computer and Electronic Products												
Oregon	37.9	36.9	37.6	38.1	38.3	38.0	37.8	37.5	37.3	37.2	37.1	37.1
% Ch	0.4	(2.7)	2.0	1.4	0.3	(0.8)	(0.5)	(0.7)	(0.5)	(0.3)	(0.1)	(0.1)
U.S.	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
% Ch	(0.5)	(0.6)	3.7	2.7	0.8	0.1	0.5	0.2	0.3	0.2	(0.2)	(0.6)
Transportation Equipment												
Oregon	12.2	11.8	11.9	12.0	12.0	12.0	11.9	11.9	11.9	11.9	11.9	11.9
% Ch	(2.6)	(2.8)	0.9	1.0	(0.2)	(0.4)	(0.3)	(0.2)	(0.3)	(0.1)	0.0	0.4
U.S.	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.4	1.5	1.5
% Ch	1.3	(0.6)	0.9	0.2	0.4	(1.6)	(3.4)	(3.6)	(3.4)	(1.0)	0.9	1.7
Other Durables												
Oregon	21.8	22.7	22.9	23.2	23.3	23.6	23.8	24.0	24.1	24.3	24.6	24.8
% Ch	4.3	4.0	1.1	1.1	0.6	1.1	1.0	0.7	0.7	0.9	0.9	1.0
U.S.	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4
% Ch	1.3	1.0	2.2	1.9	1.3	0.6	0.7	0.7	0.6	0.6	0.8	0.6
Nondurable Manufacturing												
Oregon	56.9	58.1	59.1	59.9	60.4	60.9	61.4	61.8	62.3	63.0	63.7	64.2
% Ch	2.0	2.1	1.7	1.3	0.8	0.8	0.9	0.7	0.8	1.1	1.0	0.9
U.S.	4.6	4.7	4.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
% Ch	1.3	0.9	1.3	0.9	0.4	(0.2)	(0.2)	(0.0)	(0.0)	(0.1)	(0.1)	(0.1)
Food Manufacturing												
Oregon	29.1	29.8	30.3	30.9	31.1	31.4	31.7	31.8	32.0	32.4	32.7	33.1
% Ch	3.1	2.5	1.7	1.9	0.7	1.0	0.8	0.4	0.7	1.0	1.1	1.1
U.S.	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.9
% Ch	2.8	2.7	2.3	2.7	1.5	1.1	1.2	1.6	1.5	1.3	1.2	1.0
Other Nondurable												
Oregon	27.8	28.3	28.8	29.0	29.3	29.4	29.7	30.0	30.3	30.6	30.9	31.2
% Ch	0.8	1.8	1.7	0.7	1.0	0.6	0.9	1.0	1.0	1.1	1.0	0.8
U.S.	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0	2.9	2.9	2.9
% Ch	0.5	0.0	0.8	(0.1)	(0.3)	(0.9)	(1.0)	(0.9)	(1.0)	(0.9)	(0.9)	(0.9)
Trade, Transportation, and Utilities												
Oregon	342.3	349.8	353.3	357.9	360.0	361.1	361.7	361.9	361.6	361.4	361.6	361.8
% Ch	2.1	2.2	1.0	1.3	0.6	0.3	0.2	0.1	(0.1)	(0.1)	0.1	0.1
U.S.	27.2	27.4	27.6	27.7	27.6	27.4	27.2	27.0	26.8	26.7	26.6	26.6
% Ch	1.3	0.6	0.8	0.4	(0.5)	(0.8)	(0.8)	(0.8)	(0.7)	(0.4)	(0.1)	(0.1)

**Mar 2018 - Employment By Industry
(Oregon - Thousands, U.S. - Millions)**

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Retail Trade												
Oregon	205.9	210.2	211.6	213.9	215.2	215.7	216.1	216.5	216.2	215.9	216.0	216.1
% Ch	1.8	2.1	0.7	1.1	0.6	0.3	0.2	0.1	(0.1)	(0.1)	0.1	0.0
U.S.	15.8	15.8	15.8	15.9	15.7	15.5	15.4	15.2	15.1	15.0	15.0	15.0
% Ch	1.4	0.1	0.0	0.0	(0.7)	(1.2)	(1.1)	(1.0)	(0.9)	(0.5)	(0.3)	0.0
Wholesale Trade												
Oregon	75.6	76.5	77.1	78.2	78.7	79.0	79.2	79.2	79.1	79.2	79.2	79.1
% Ch	2.1	1.2	0.8	1.4	0.6	0.4	0.2	0.0	(0.1)	0.1	0.0	(0.0)
U.S.	5.9	5.9	6.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.0	6.0
% Ch	0.2	1.0	1.5	1.1	0.1	0.1	(0.1)	(0.1)	(0.1)	(0.2)	(0.3)	(0.3)
Transportation and Warehousing, and Utilities												
Oregon	60.8	63.1	64.6	65.8	66.2	66.3	66.4	66.3	66.3	66.3	66.4	66.6
% Ch	3.0	3.9	2.4	1.9	0.5	0.2	0.1	(0.1)	(0.1)	0.1	0.2	0.2
U.S.	5.5	5.6	5.7	5.8	5.8	5.7	5.7	5.6	5.6	5.6	5.6	5.6
% Ch	2.2	1.6	2.0	0.7	(0.4)	(0.6)	(0.7)	(0.7)	(0.7)	(0.1)	0.3	(0.2)
Information												
Oregon	33.5	34.2	34.6	35.1	35.4	35.5	35.6	35.7	35.7	35.8	35.9	35.9
% Ch	1.6	2.3	1.3	1.3	0.7	0.4	0.3	0.1	0.1	0.3	0.2	0.1
U.S.	2.8	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
% Ch	0.8	(1.8)	(1.4)	1.8	1.4	1.2	0.7	0.0	(0.0)	(0.2)	(0.6)	(0.9)
Financial Activities												
Oregon	96.7	98.8	100.9	102.7	103.1	103.2	103.3	103.4	103.3	103.2	103.0	102.9
% Ch	2.0	2.2	2.1	1.8	0.4	0.2	0.1	0.1	(0.0)	(0.1)	(0.2)	(0.1)
U.S.	8.3	8.4	8.6	8.7	8.7	8.7	8.7	8.7	8.7	8.6	8.6	8.6
% Ch	2.0	1.9	1.3	1.2	0.5	0.2	(0.2)	(0.2)	(0.3)	(0.4)	(0.4)	(0.5)
Professional and Business Services												
Oregon	238.2	243.3	253.7	268.9	277.2	281.8	285.1	288.9	293.8	298.0	300.7	302.1
% Ch	3.9	2.1	4.3	6.0	3.1	1.7	1.2	1.3	1.7	1.4	0.9	0.5
U.S.	20.1	20.7	21.5	22.5	22.9	23.2	23.7	24.3	24.7	25.1	25.4	25.6
% Ch	2.6	2.9	3.6	4.9	1.9	1.2	2.2	2.3	1.9	1.5	1.3	0.8
Education and Health Services												
Oregon	266.1	272.6	279.0	285.5	288.6	291.6	294.5	297.4	301.0	305.1	309.2	312.6
% Ch	3.2	2.4	2.4	2.3	1.1	1.0	1.0	1.0	1.2	1.4	1.3	1.1
U.S.	22.6	23.1	23.5	23.8	23.8	23.8	23.9	23.9	24.1	24.2	24.4	24.6
% Ch	2.7	2.2	1.9	1.0	(0.1)	0.1	0.3	0.3	0.4	0.6	0.7	0.9
Educational Services												
Oregon	35.7	36.2	36.5	36.6	36.9	37.1	37.3	37.4	37.5	37.7	37.7	37.8
% Ch	1.2	1.3	0.8	0.5	0.7	0.6	0.5	0.2	0.3	0.4	0.1	0.2
U.S.	3.6	3.6	3.7	3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.1	3.0
% Ch	2.6	2.3	1.2	(0.7)	(1.8)	(2.2)	(2.5)	(2.8)	(2.9)	(2.8)	(2.7)	(2.4)
Health Care and Social Assistance												
Oregon	230.4	236.4	242.6	248.9	251.7	254.4	257.2	260.0	263.4	267.5	271.5	274.8
% Ch	3.5	2.6	2.6	2.6	1.1	1.1	1.1	1.1	1.3	1.5	1.5	1.2
U.S.	19.1	19.5	19.9	20.1	20.2	20.3	20.4	20.6	20.8	21.1	21.3	21.6
% Ch	2.7	2.2	2.0	1.3	0.3	0.6	0.8	0.9	1.0	1.1	1.2	1.4
Leisure and Hospitality												
Oregon	199.8	206.3	211.9	214.7	214.5	213.3	212.3	211.5	211.7	212.2	212.7	213.7
% Ch	4.3	3.3	2.7	1.3	(0.1)	(0.5)	(0.5)	(0.4)	0.1	0.3	0.2	0.5
U.S.	15.6	15.9	16.2	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.2	16.1
% Ch	3.0	1.9	1.6	0.6	0.0	0.2	0.1	(0.0)	0.0	(0.4)	(0.6)	(0.3)
Other Services												
Oregon	63.8	63.4	64.2	64.7	64.8	64.9	65.3	65.4	65.8	66.3	66.8	67.2
% Ch	4.7	(0.6)	1.2	0.9	0.1	0.2	0.6	0.2	0.6	0.8	0.8	0.6
U.S.	5.7	5.8	5.8	5.8	5.7	5.7	5.6	5.5	5.5	5.4	5.4	5.4
% Ch	1.1	1.3	0.8	(0.6)	(1.1)	(0.8)	(1.0)	(1.1)	(1.2)	(0.9)	(0.6)	(0.4)
Government												
Oregon	307.2	310.8	314.3	319.0	324.0	326.1	329.4	332.3	335.2	338.5	342.1	346.2
% Ch	2.0	1.2	1.1	1.5	1.6	0.6	1.0	0.9	0.9	1.0	1.1	1.2
U.S.	22.2	22.3	22.5	22.6	22.9	23.0	23.2	23.4	23.5	23.7	23.9	24.0
% Ch	0.9	0.5	0.6	0.8	1.4	0.2	0.8	0.8	0.8	0.7	0.7	0.7
Federal Government												
Oregon	28.3	28.2	28.1	28.1	29.6	28.4	28.4	28.4	28.4	28.4	28.4	28.4
% Ch	1.9	(0.3)	(0.4)	0.2	5.1	(4.1)	0.1	0.1	(0.0)	0.1	(0.0)	0.1
U.S.	2.8	2.8	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8
% Ch	1.5	0.5	(0.0)	0.0	4.4	(4.3)	0.0	0.0	0.0	0.0	0.0	0.0
State Government, Oregon												
State Total	55.9	56.7	57.6	58.4	58.9	59.4	60.1	60.7	61.2	61.9	62.7	63.6
% Ch	(3.6)	1.3	1.6	1.5	0.7	0.9	1.2	1.0	0.9	1.0	1.3	1.5
State Education	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
% Ch	(77.0)	(1.2)	14.7	2.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Local Government, Oregon												
Local Total	223.0	226.0	228.6	232.5	235.6	238.3	241.0	243.2	245.6	248.3	251.0	254.2
% Ch	3.5	1.3	1.2	1.7	1.3	1.2	1.1	0.9	1.0	1.1	1.1	1.2
Local Education	131.6	132.9	132.8	133.8	134.7	135.6	136.4	137.1	137.6	138.1	138.9	139.6
% Ch	4.5	1.0	(0.1)	0.8	0.7	0.7	0.6	0.5	0.4	0.3	0.5	0.6

TABLE A.4**Mar 2018 - Other Economic Indicators**

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
GDP (Bil of 2009 \$),												
Chain Weight (in billions of \$)	16,716.2	17,091.6	17,546.7	17,995.1	18,363.4	18,698.3	19,066.3	19,435.8	19,806.1	20,169.7	20,534.2	20,902.9
% Ch	1.5	2.2	2.7	2.6	2.0	1.8	2.0	1.9	1.9	1.8	1.8	1.8
Price and Wage Indicators												
GDP Implicit Price Deflator,												
Chain Weight U.S., 2009=100	111.4	113.4	115.7	118.3	121.1	123.9	126.6	129.5	132.4	135.3	138.3	141.3
% Ch	1.3	1.8	2.0	2.3	2.4	2.3	2.2	2.2	2.2	2.2	2.2	2.2
Personal Consumption Deflator,												
Chain Weight U.S., 2009=100	110.8	112.6	114.2	116.2	118.7	121.2	123.7	126.4	129.1	131.8	134.6	137.4
% Ch	1.2	1.7	1.4	1.7	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
CPI, Urban Consumers, 1982-84=100												
West Region, Urban Size A	254.3	262.0	267.6	273.5	281.9	289.8	297.3	305.2	313.5	321.9	330.6	339.5
% Ch	2.2	3.0	2.1	2.2	3.1	2.8	2.6	2.6	2.7	2.7	2.7	2.7
U.S.	240.0	245.1	249.2	254.1	261.3	268.1	274.5	281.2	288.1	295.3	302.6	310.2
% Ch	1.3	2.1	1.7	1.9	2.8	2.6	2.4	2.4	2.5	2.5	2.5	2.5
Oregon Average Wage												
Rate (Thous \$)	51.9	53.0	55.2	57.4	59.7	62.1	64.7	67.3	70.1	73.1	76.2	79.5
% Ch	2.3	2.1	4.2	4.1	4.0	4.0	4.0	4.1	4.3	4.2	4.3	4.3
U.S. Average Wage												
Wage Rate (Thous \$)	56.0	56.9	58.5	60.8	63.3	65.9	68.5	71.3	74.3	77.4	80.7	84.1
% Ch	1.1	1.6	2.8	3.9	4.1	4.1	3.9	4.0	4.2	4.2	4.2	4.3
Housing Indicators												
FHFA Oregon Housing Price Index												
1991 Q1=100	368.1	399.6	428.3	451.6	471.2	489.3	508.3	530.2	552.3	574.3	597.5	621.2
% Ch	11.4	8.5	7.2	5.4	4.3	3.8	3.9	4.3	4.2	4.0	4.0	4.0
FHFA National Housing Price Index												
1991 Q1=100	232.8	247.9	260.7	269.2	278.2	287.5	296.3	306.5	317.7	329.3	341.5	354.4
% Ch	6.1	6.5	5.2	3.3	3.3	3.4	3.1	3.4	3.6	3.7	3.7	3.8
Housing Starts												
Oregon (Thous)	19.1	19.0	20.5	22.1	23.7	24.6	24.8	24.7	24.3	24.0	24.1	24.4
% Ch	19.8	(0.3)	8.1	7.7	7.2	3.7	1.1	(0.4)	(1.9)	(1.2)	0.6	1.0
U.S. (Millions)	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
% Ch	6.3	2.9	6.4	8.7	3.4	1.6	1.6	0.3	0.6	(0.5)	(0.5)	(0.6)
Other Indicators												
Unemployment Rate (%)												
Oregon	4.9	4.0	4.4	4.5	4.7	4.8	4.9	5.0	5.1	5.1	5.1	5.1
Point Change	(0.7)	(0.9)	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
U.S.	4.9	4.4	3.9	3.7	3.8	4.1	4.3	4.4	4.5	4.6	4.7	4.7
Point Change	(0.4)	(0.5)	(0.5)	(0.2)	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.1
Industrial Production Index												
U.S., 2002 = 100	103.1	105.0	108.5	111.8	114.2	116.3	118.7	121.1	123.4	125.6	127.8	130.0
% Ch	(1.2)	1.9	3.3	3.0	2.2	1.8	2.1	2.1	1.9	1.8	1.8	1.7
Prime Rate (Percent)												
	3.5	4.1	4.9	5.6	6.1	6.5	6.5	6.4	6.1	6.0	5.9	5.7
% Ch	7.7	16.7	19.5	14.2	10.0	5.7	0.0	(2.1)	(3.9)	(1.8)	(2.3)	(1.9)
Population (Millions)												
Oregon	4.09	4.15	4.21	4.27	4.33	4.38	4.44	4.49	4.54	4.59	4.64	4.68
% Ch	1.5	1.6	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.0
U.S.	323.7	325.9	328.5	331.1	333.8	336.4	339.0	341.5	344.1	346.6	349.1	351.5
% Ch	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7
Timber Harvest (Mil Bd Ft)												
Oregon	3,888.3	3,978.2	4,028.1	4,077.1	4,121.7	4,170.0	4,227.4	4,174.1	4,170.1	4,217.3	4,211.2	4,207.9
% Ch	2.6	2.3	1.3	1.2	1.1	1.2	1.4	(1.3)	(0.1)	1.1	(0.1)	(0.1)