

Mark McMullen

Oregon Office of Economic Analysis



Oregon's Regional Economic Outlook



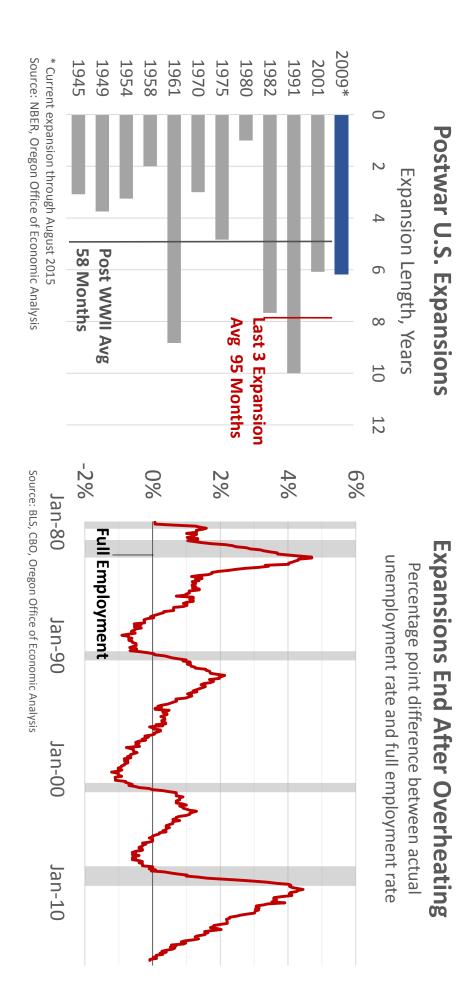
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Macroeconomic Outlook



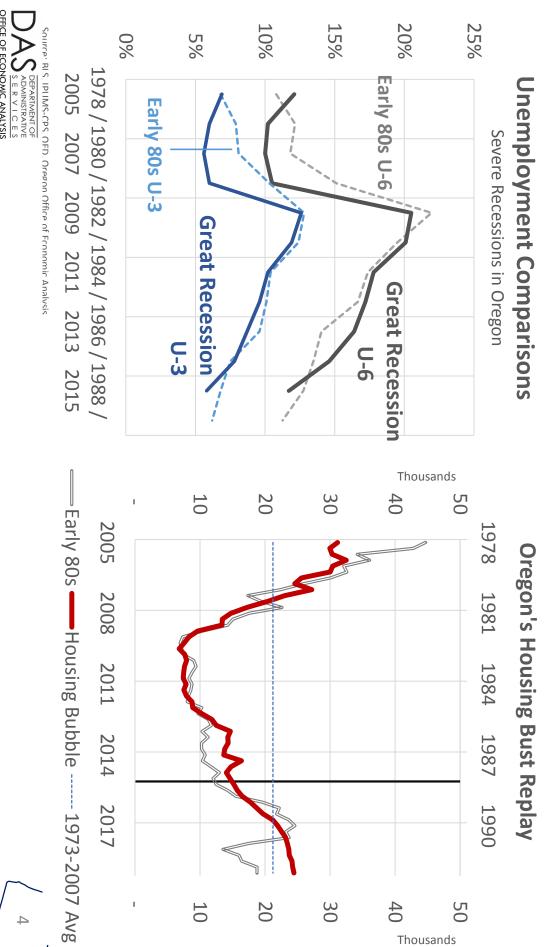
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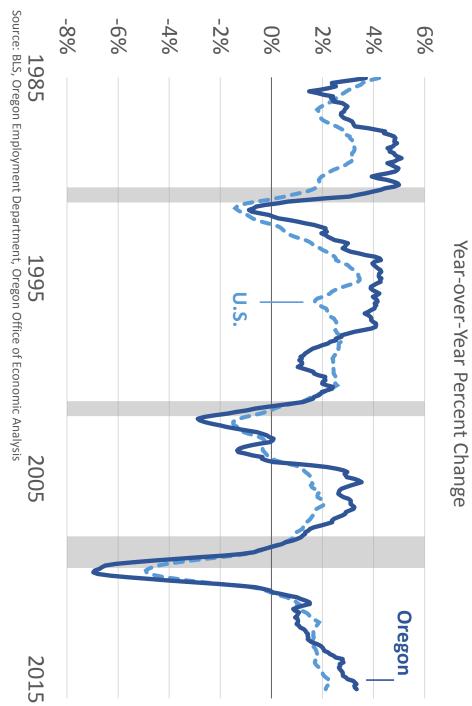
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> 1980's Revisited

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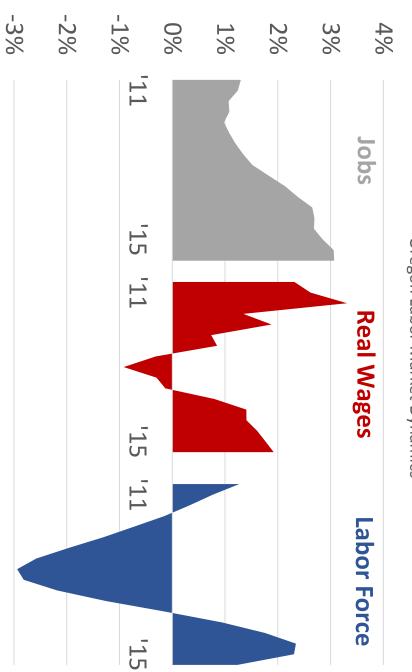


Total Nonfarm Employment



Returning to Normal

Oregon Labor Market Dynamics



AS ADMINI S ER VICES S ER VICES Year-over-Year change, 6 month average. Wages are inflation-adjusted average QCEW wages.

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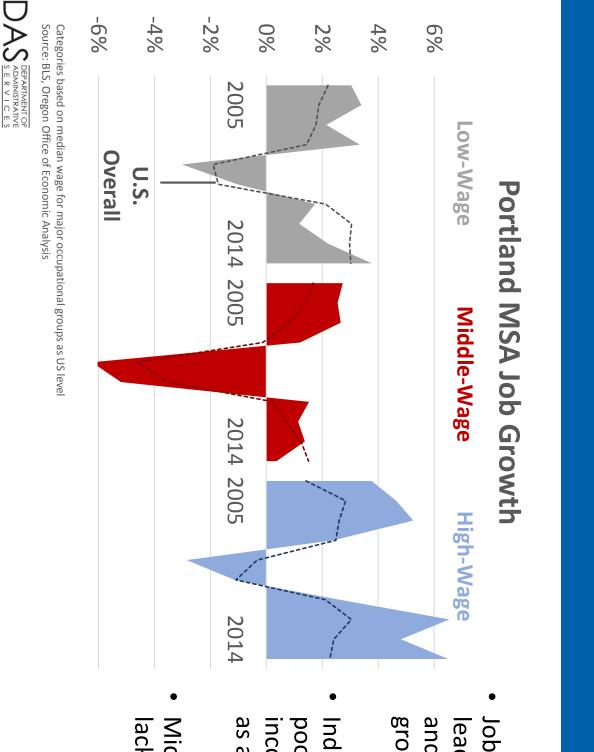
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Incomes Rising as a Result

Oregon Personal Income

100% 105% 110%%06 %08 85% 95% 1960 Per Capita Personal Income 1970 Share of U.S., 4 Quarter Moving Average 1980 1990 2000 Average Wage 2010 2015

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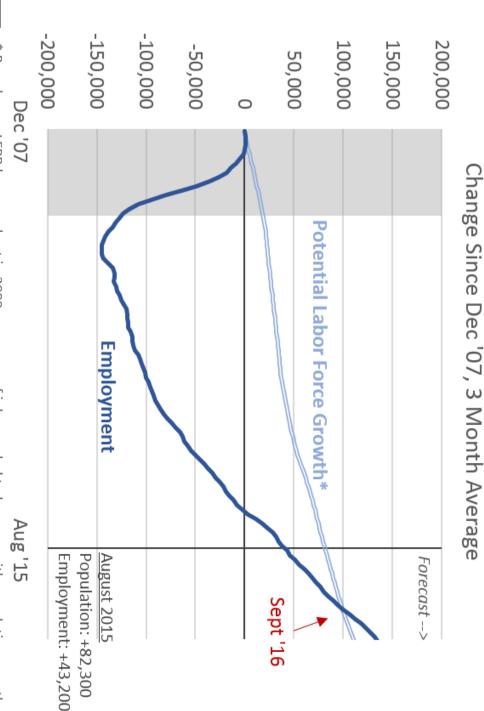
Job polarization leads to lots of lowand high-wage job growth Economy Creating High-Wage Jobs

- Indicating larger pool of higher income households as a result
- Middle-wage jobs lacking everywhere

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* Based upon LFPR by age cohort in 2000 , measure of jobs needed to keep up with population growth for economy at full employmet | Source: BLS, Census, OED, Oregon Office of Economic Analysis

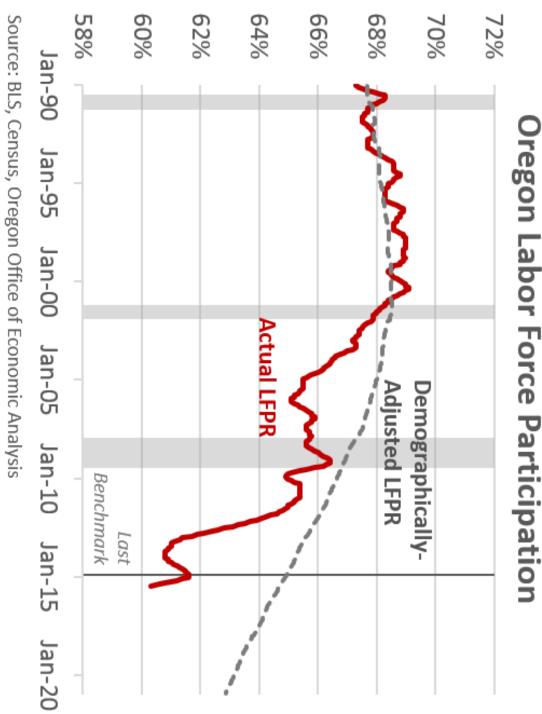




More Jobs but More Workers

Oregon Jobs and Population

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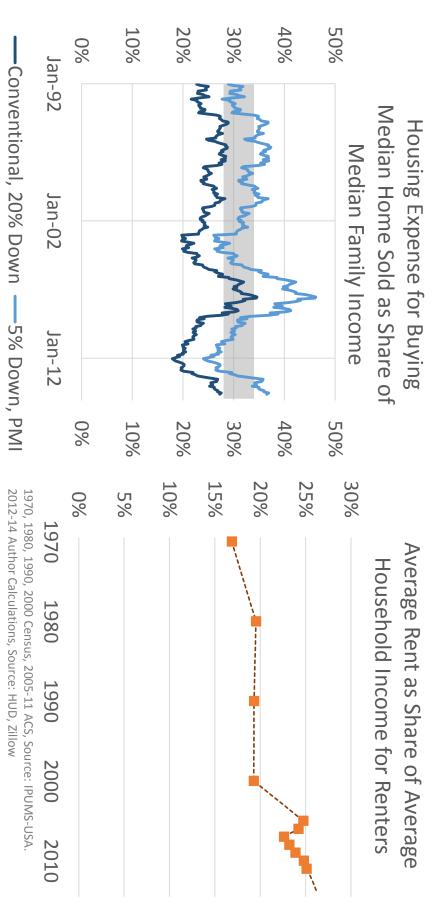


Participation Remains Weaker than Expected



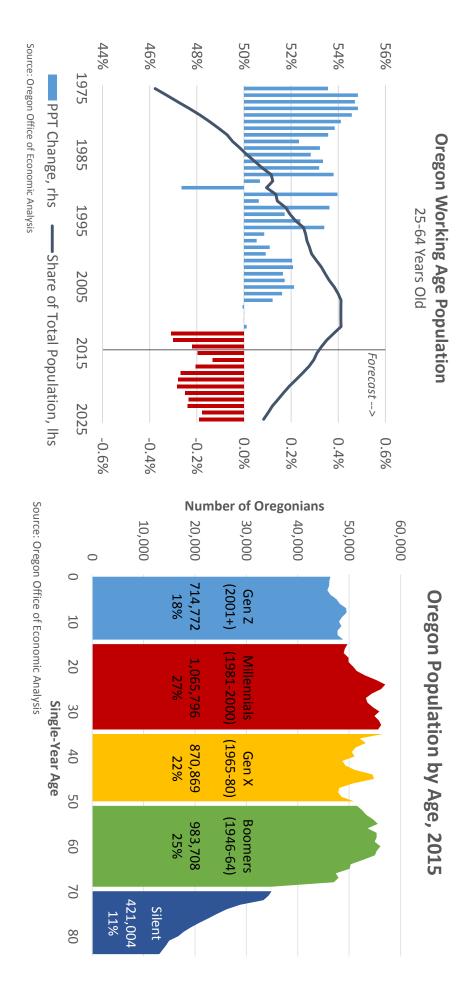
Portland Ownership

Portland Rental



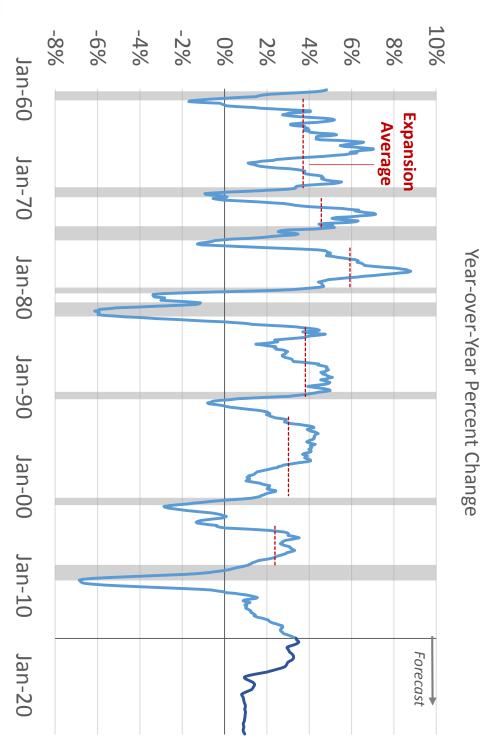
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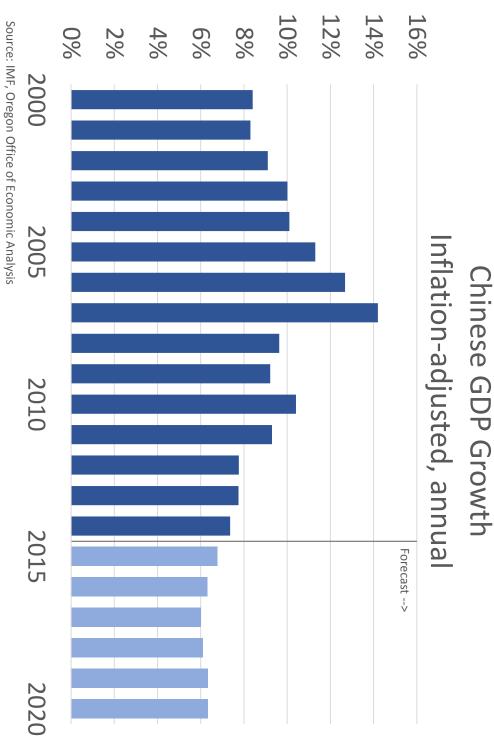
Outlook: Near-Term Strong, Long-Term Weak

Oregon Nonfarm Employment Growth





Slower Chinese Growth, At Best (Global growth slowing as well, not just China)

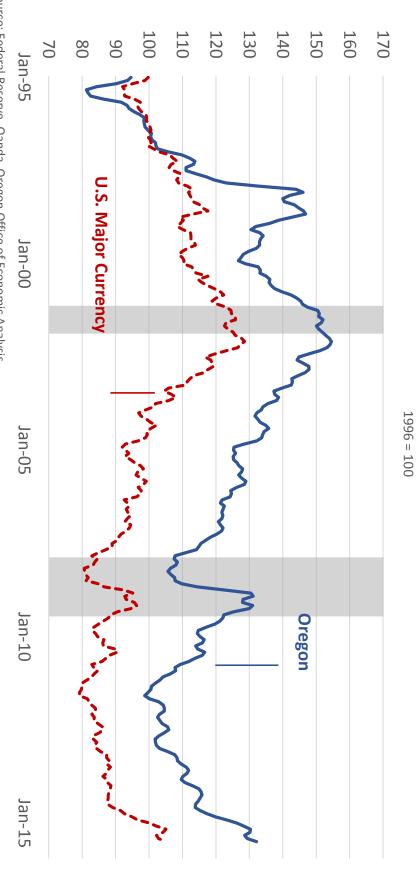






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Source: Federal Reserve, Oanda, Oregon Office of Economic Analysis

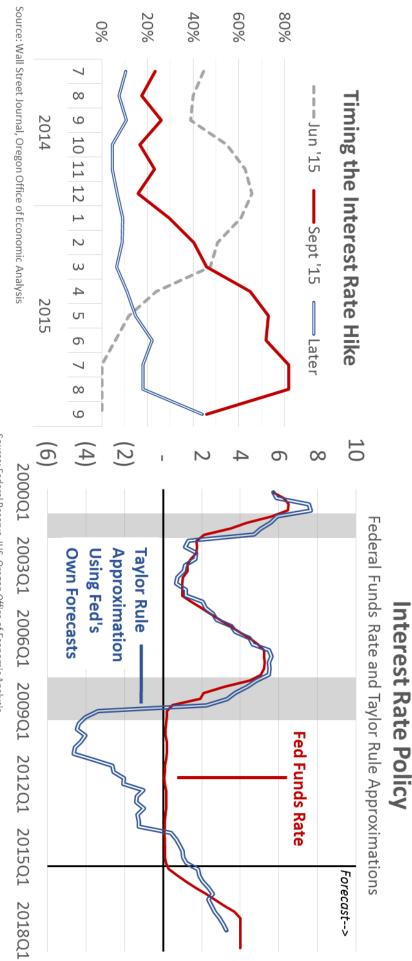


Terms of Trade Make Oregon/US Products More Expensive

Trade-Weighted Dollar Indexes







Source: Federal Reserve, IHS, Oregon Office of Economic Analysis

Industry Trends



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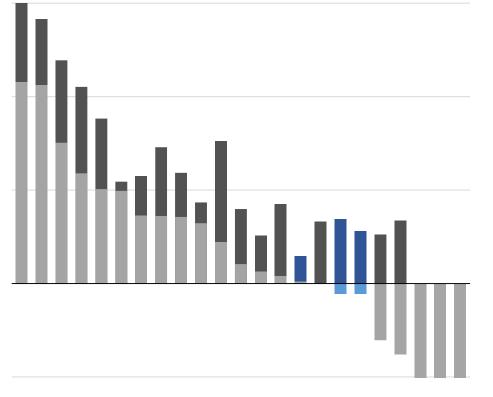


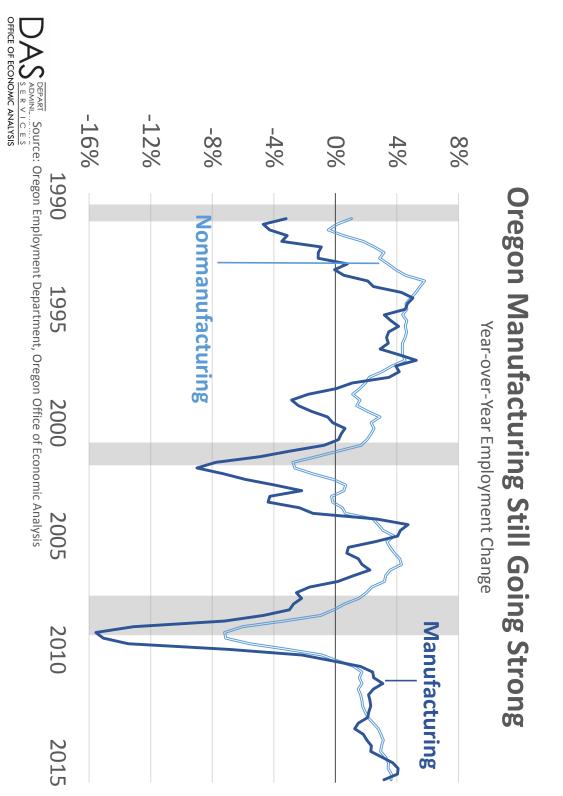
Business Cycle How Industries Fared Over the

Oregon Employment by Industry Great Recession Losses 2015q2 Relative to Peak

Great Recession Losses -45% -30% -15% 0% 15%

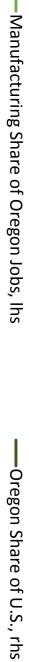
Food Health Education Prof, Biz Serv Total Nonfarm Private Retail Other Services Wholesale Other Nondurables Manufacturing Comp & Elec Financial Services Mining & Logging Construction Wood Products Transp Equip

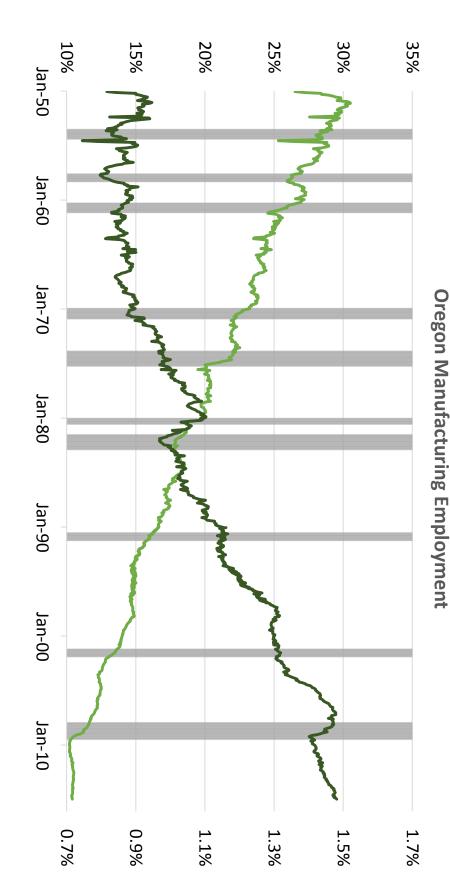




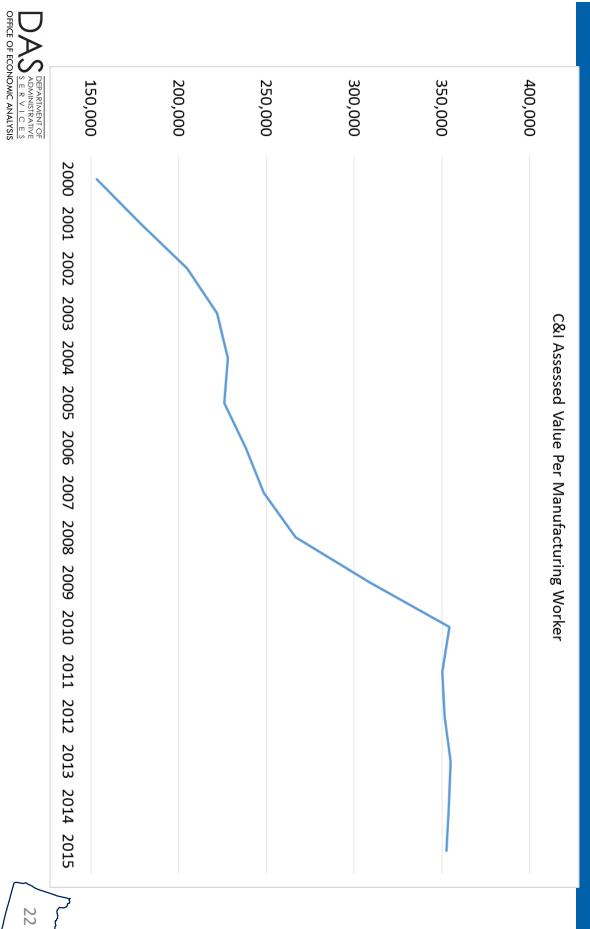
As Good As It Gets





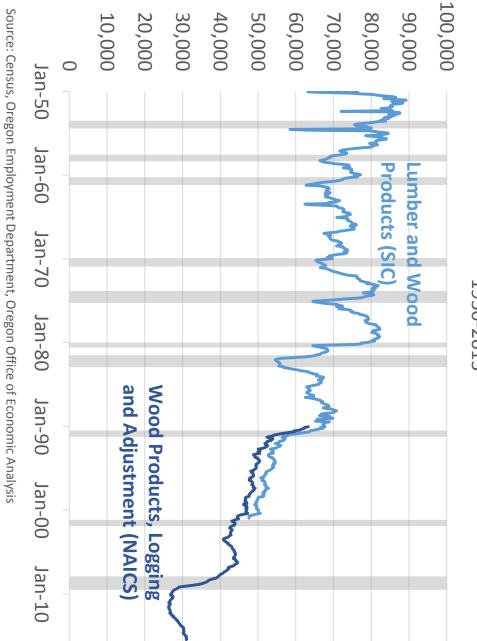


🗼 Oregon's Comparative Advantage



Not Only Robots.....





Oregon Wood Products Employment 1950-2015

Wood Products



Source: Oregon Employment Department, Oregon Office of Economic Analysis



10,000

20,000



30,000

40,000

50,000

Hardware

60,000

2015 Est

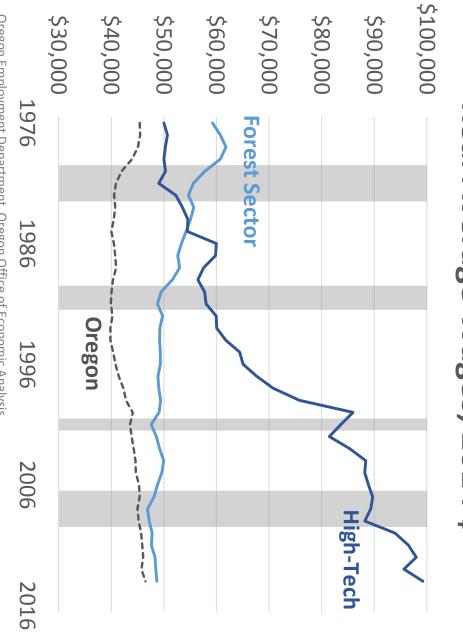


Oregon High-Tech Employment





Real Average Wages, 2014 \$



Oregon Employment Department, Oregon Office of Economic Analysis

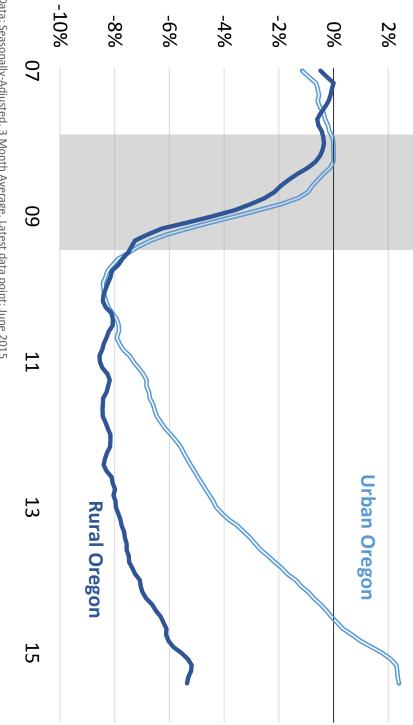
Rural Oregon



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Source: Oregon Employment Department, Oregon Office of Economic Analysis Data: Seasonally-Adjusted, 3 Month Average, Latest data point: June 2015



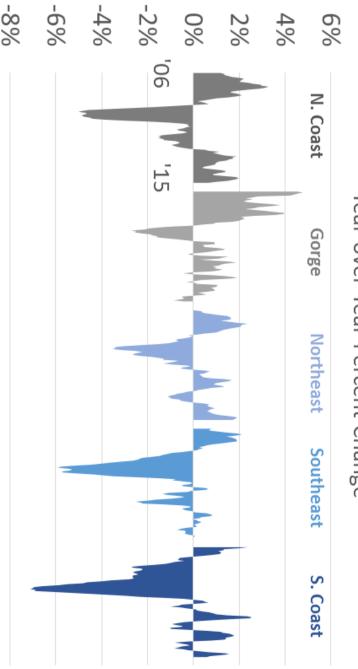
Rural Oregon is Finally Adding Jobs...

Oregon and the Great Recession

Employment Change From Pre-Recession Peak



Rural Oregon Job Growth Year-over-Year Percent Change



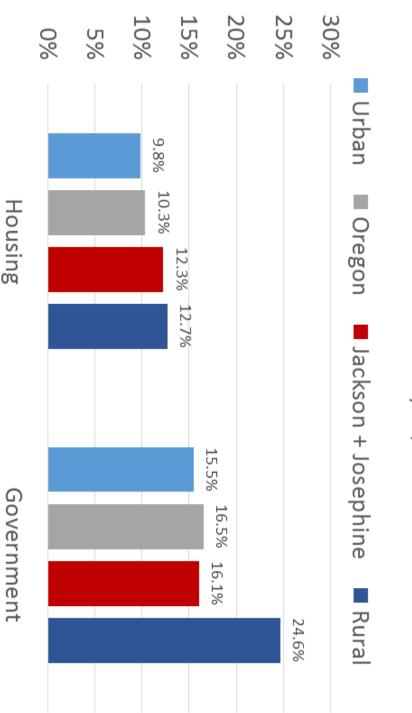
S. Coast: Coos, Curry | Source: Oregon Employment Department, Oregon Office of Economic Analysis Northeast: Baker, Grant, Morrow, Umatilla, Union, Wallowa | Southeast: Harney, Klamath, Lake, Malheur N. Coast: Clatsop, Lincoln, Tillamook | Gorge: Gilliam, Hood River, Sherman, Wasco, Wheeler





Real Estate | Data: 2007 QCEW | Source: Oregon Employment Department, Oregon Office of Economic Analysis Housing = Construction, Wood Product Manufacturing, Furniture Stores, Building Material and Garden Supply Store,

Government



Exposure to Housing

Housing and Government in Oregon

Share of Local Payroll, 2007



- On the coast, dairy, fishing and tourism are strong
- In the gorge, beer, drones and fruit are doing well
- Out east, manufacturing expanding, wheat harvests have been good and Morrow is booming
- Down south, timber industry is adding some jobs and migration flows are returning



(D	e e live, ors	; =
Sources: Ore		
Sources: Oregon Historical Society, OPB/Mike Sherk	WELCOME TO OREGON we hope you will enjoy your visit	
31	"I just got really irritated <u>I'm trying to</u> <u>build the economic diversification of</u> <u>the state</u> , and I keep hearing this: "Aren't you the guys that want us to visit but don't stay"?" Atiyeh: "I want to go down there and blow up that damn sign" Cabinet: "Yeah, yeah, okay, governor." Atiyeh: "No! I want to put dynamite under that thing and blow it up." Cabinet: "You can't do that, governor." Atiyeh: "Yes, I can. I want to blow that thing up."	

Governor Tom McCal

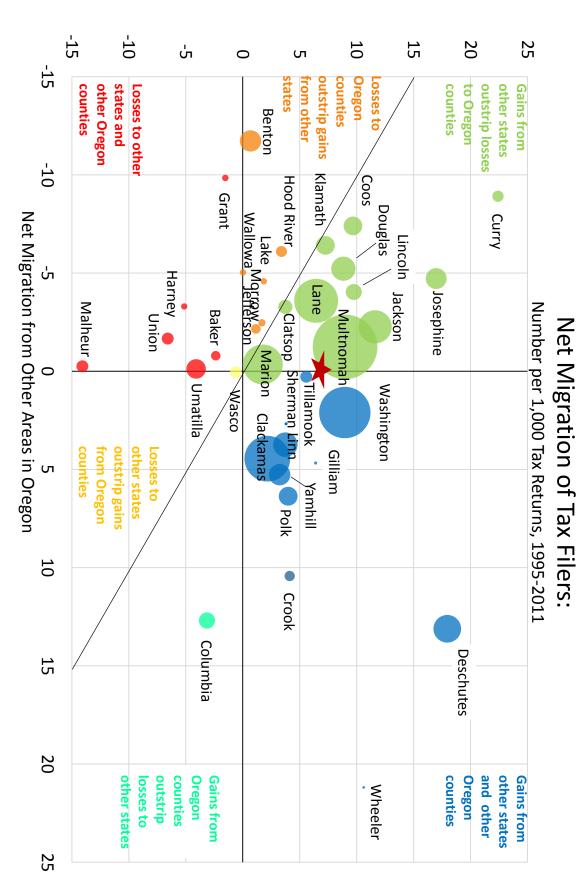
Migration to Oregon: Friend or Foe?

"We want you to visit... Come again and again. <u>But for heaven's</u> <u>sake, don't move here to live</u>. Or if you do have to move in to live, don't tell any of your neighbors where you are going."

"The interests of Oregon for today and in the future must be protected from grasping wastrels of the land... <u>unlimited and unregulated</u> <u>growth leads inexorably to a</u> <u>lowered quality of life</u>."

"Oregon, queen bee though she is, is not yet ready for the swarm".



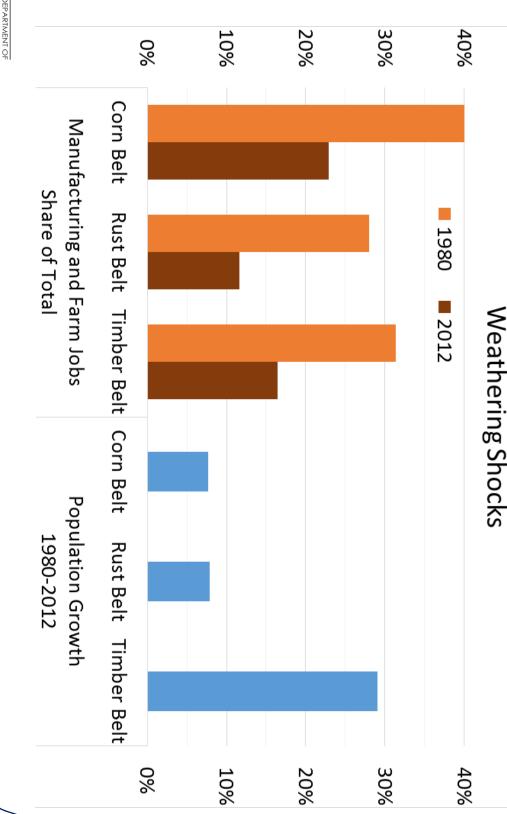


Most of Oregon is Attractive to Out-

of-Staters

Net Migration from Other States

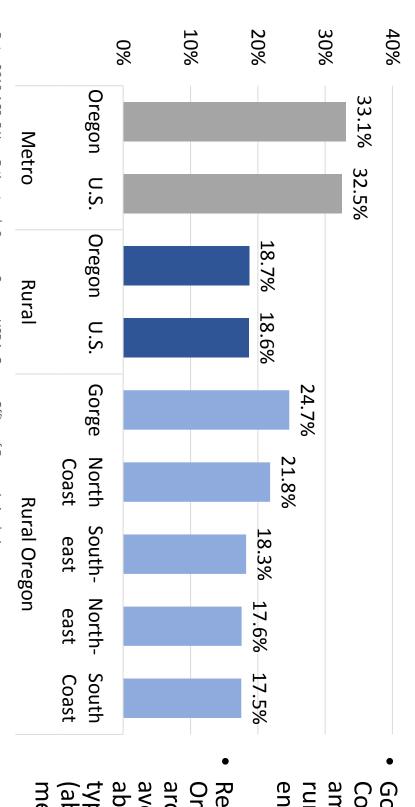
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This is Unique: Timber Belt Population



Share with Bachelor's Degree or Higher, 25-64 Year Olds



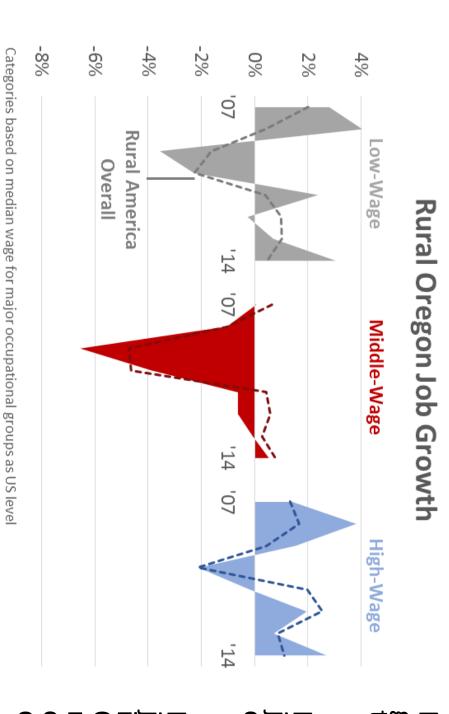
- Gorge and N. Coast rank among best rural areas in entire country
- Rest of Rural Oregon right around the average yet above the typical area (above the median)



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Rural job growth slower than metros

Middle-wage jobs lacking everywhere

High-wage jobs stronger in rural Oregon than rural America over past decade

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Source: BLS, Oregon Office of Economic Analysis

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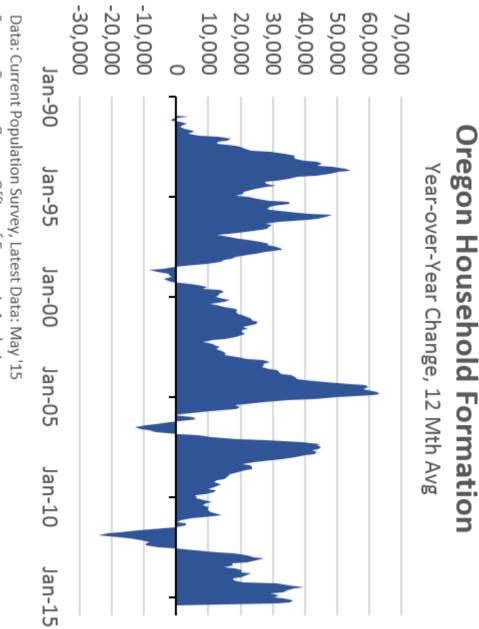


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Housing



Housing Demand Has Returned



Source: Census, Oregon Office of Economic Analysis

Yet Building Recovery Incomplete

New Construction Uneven Jan 2002 - July 2015, 12 Month Sum

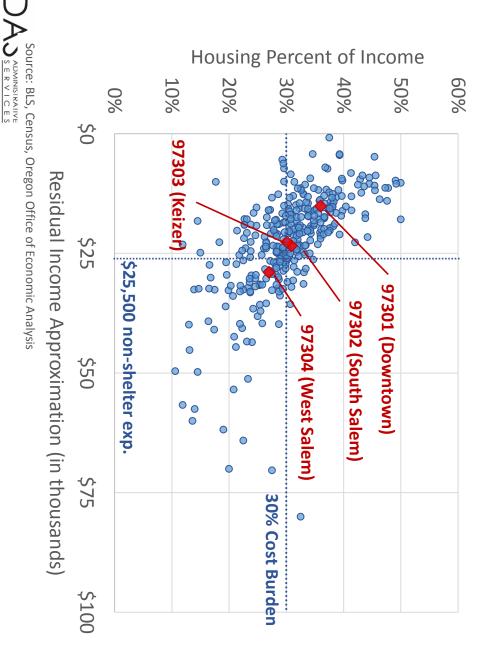


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Oregon Renter Affordability

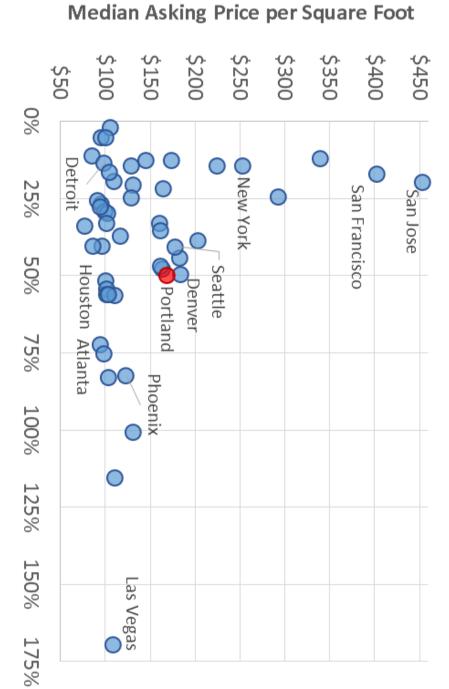


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- The typical renter in 54% of zip codes are cost burdened
- 70% of zip codes face residual income issues

Portland's Challenge

Expensive Markets Do Not Build Much



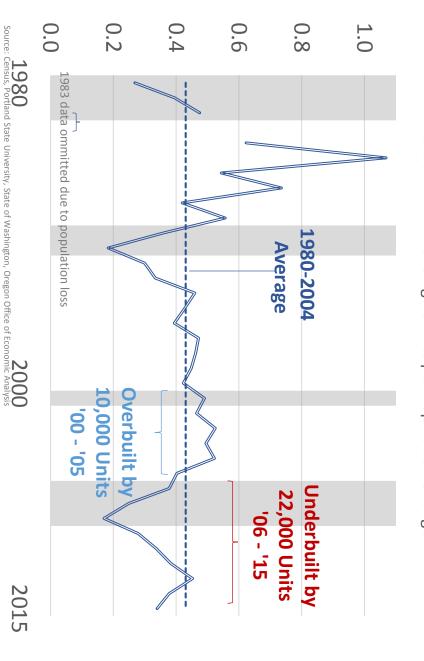
Housing Unit Growth, 1990-2013

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New Construction and Population Growth

Portland MSA Housing Permits per Population Change

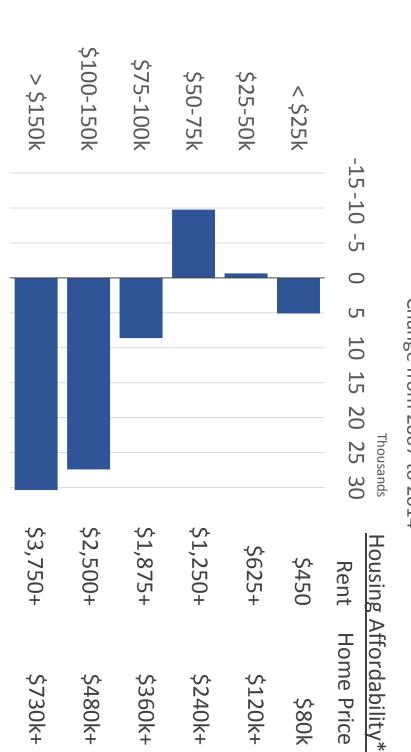


- Challenge is maintaining supply to keep pace
- Current market is supply constrained • "Shortage of cities"
- Sub-markets and niches can be overbuilt however

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property taxes and homeowners insurance. | Source: Census, Oregon Office of Economic Analysis *Monthly housing costs equal to 30% of income. Home price assumes 20% down payment, 4% 30 year fixed mortgage, average



More High Income Households Today

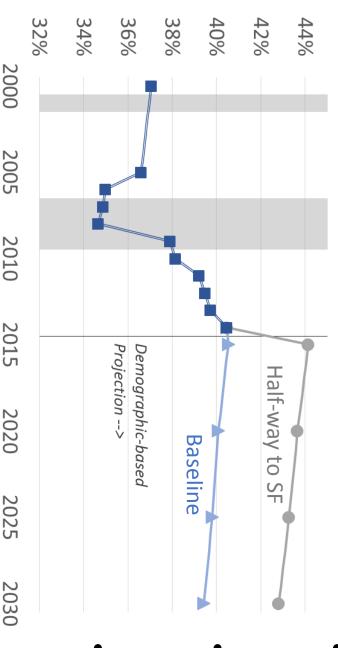
Portland MSA Households by Income

Change from 2007 to 2014



Portland Metro Renters

Share of All Households that are Renters



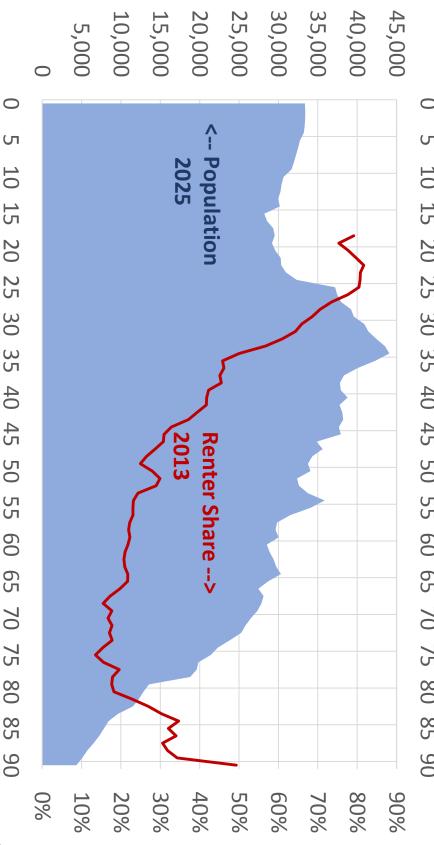
Projection fixes headship rates by age cohort at 2015\4 figures based on ACS data. Then adjusts for age/demographic forecast. | Source: Census, IHS, Oregon Office of Economic Analysis

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Main Renter Factors

- Demographics
- Millennials will age
- Boomers downsize?
- Finances
- Improving for HH
- Lending will loosen
- Preferences
- Harder to gauge
- Some of shift is permanent



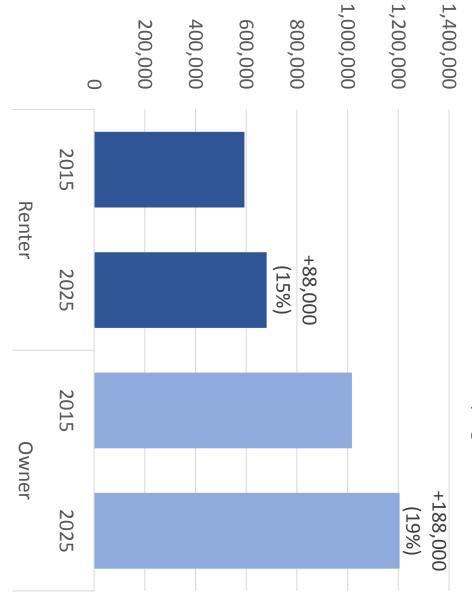




Raw Numbers: More of Everybody

Portland MSA Population

Uses 2013 Owner/Renter Shares by Age, 25+





Tax Revenues



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\$124	\$30-35,000	Median
\$244	\$53,900	Average
\$4,614	> \$336,400	Top 1%
\$1,073	\$157,100 - \$336,400	Next 4%
\$469	\$79,900 - \$157,100	Next 15%
\$235	\$43,800 - \$79,900	Fourth 20%
\$125	\$23,800 - \$43,800	Middle 20%
\$55	\$10,200 - \$23,800	Second 20%
\$10	< \$10,200	Bottom 20%
Rough Estimate of Kicker Size**	Adjusted Gross Income*	Income Group

* Based on 2013 actual tax returns

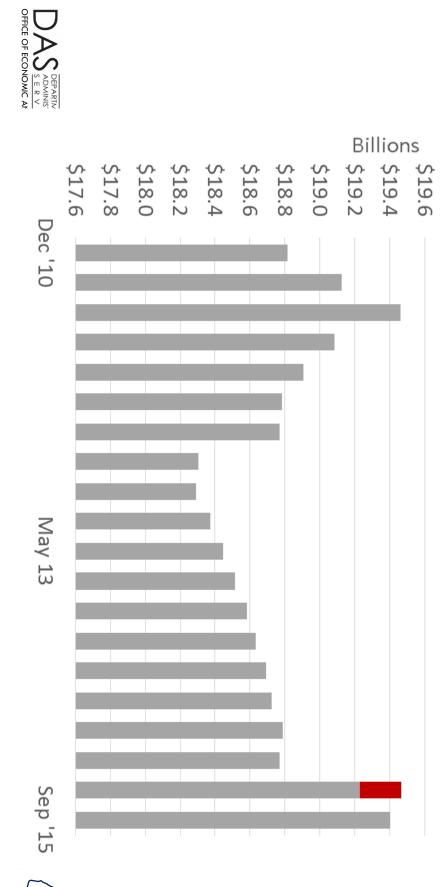
Oregon Office of Economic Analysis' forecast for tax liability ** Based on 2013 actual tax returns, PIT kicker amount (\$402 million) and the





General and Lottery Fund Revenues 2015-17





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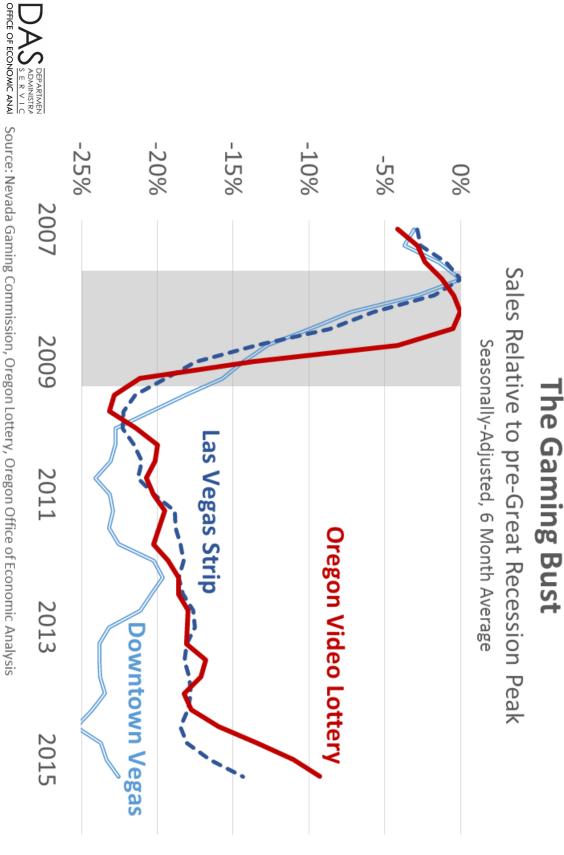
----September 2015 Forecast ---- May 2015 Forecast



Stocks and Capital Gains

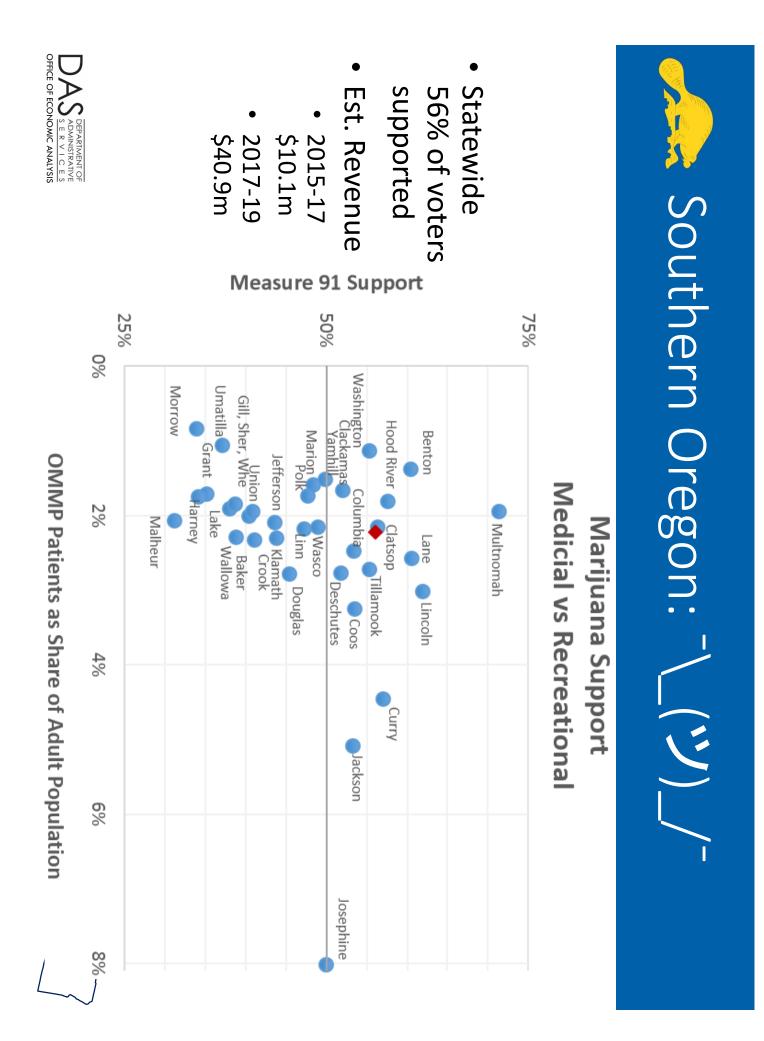
Oregon Realizations of Capital Gains, \$ billions

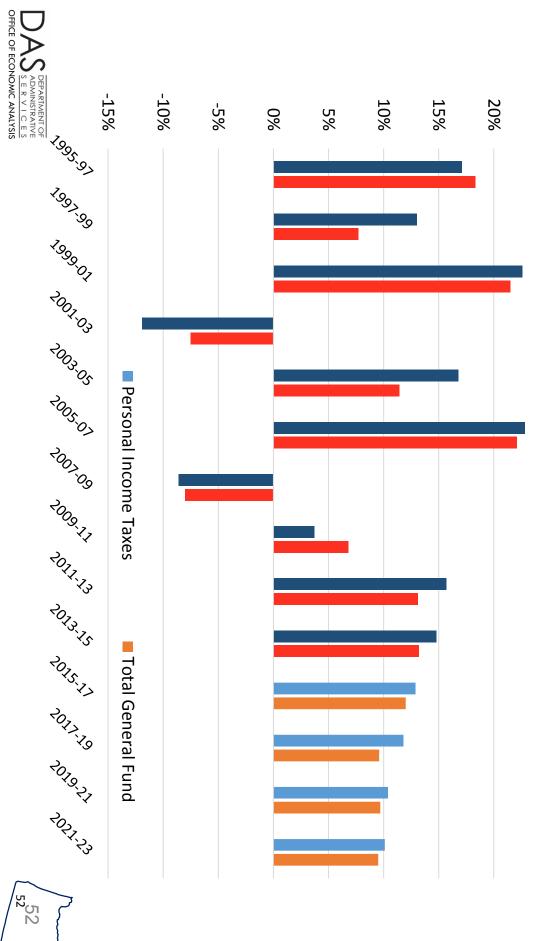
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Gaming Increasing

50







25%



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