

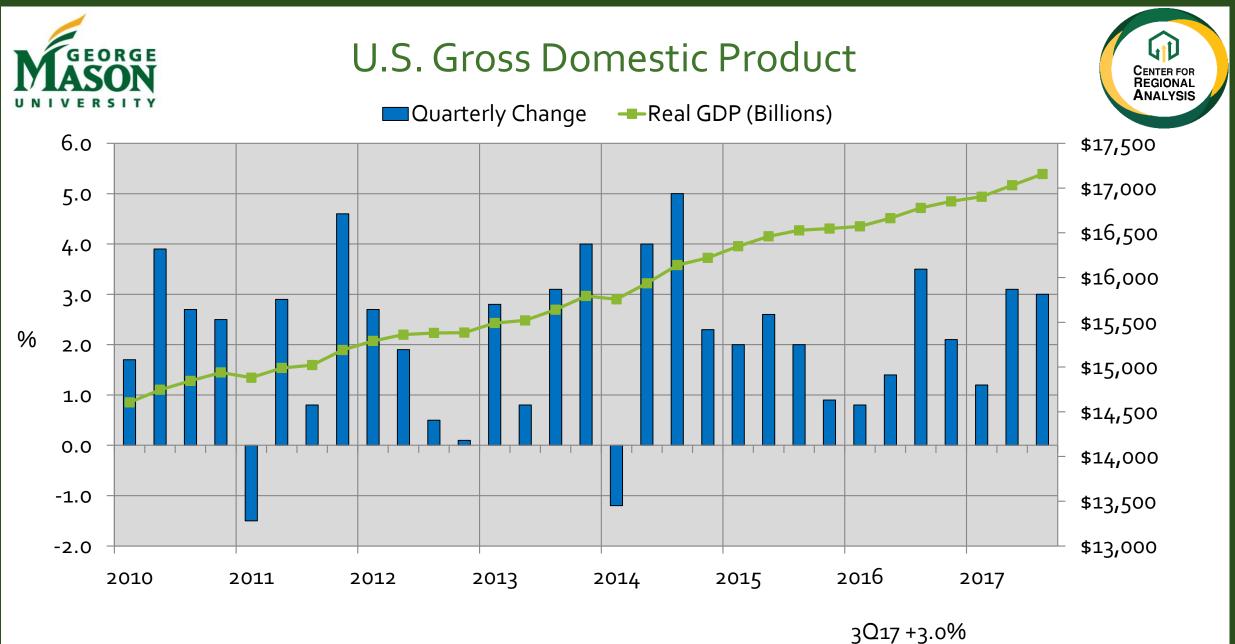


Economic Update

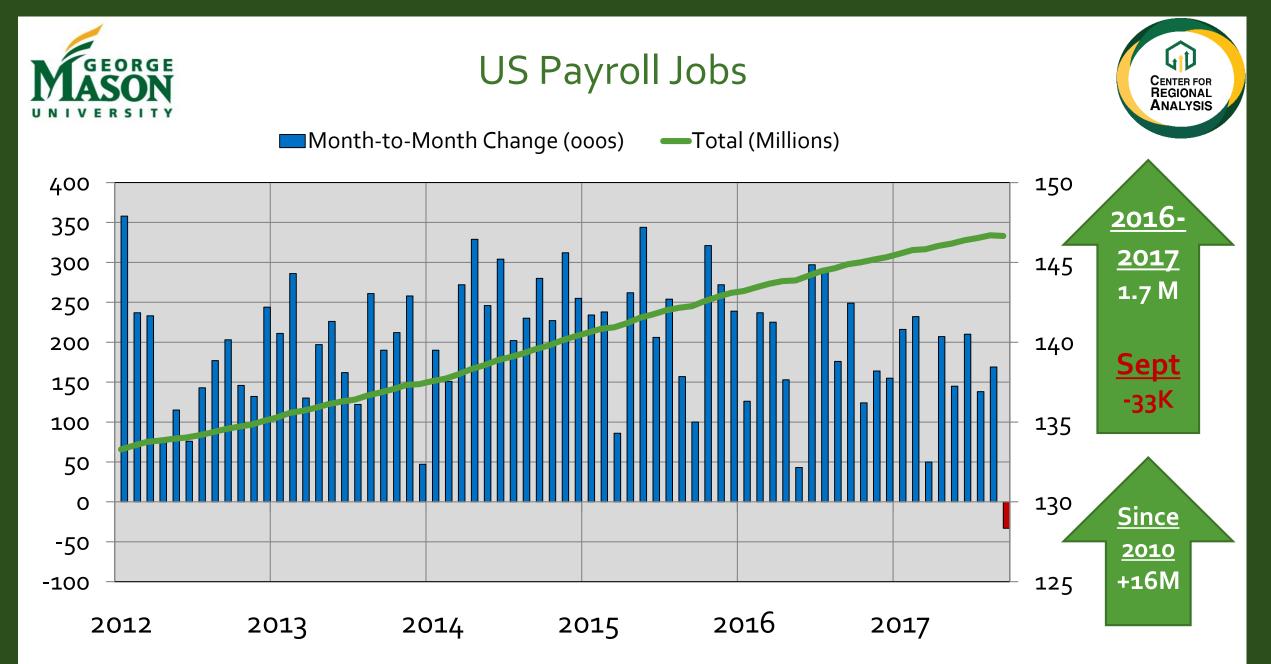
Presentation to: Virginia Bankers Association Lending & Credit Conference

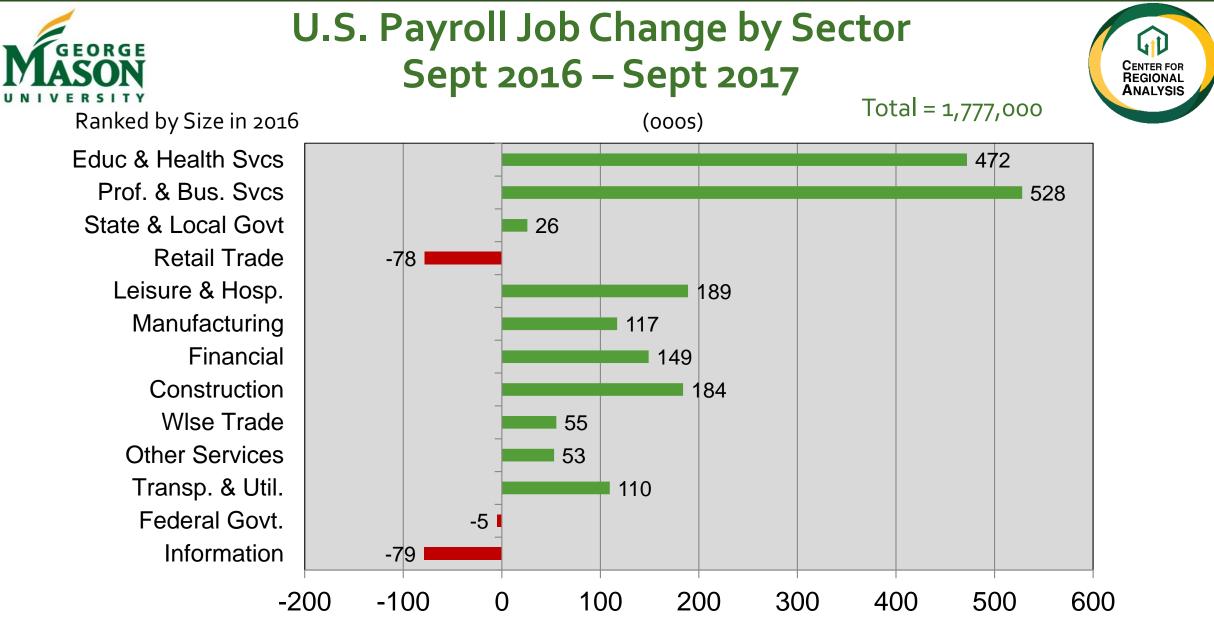
Terry L. Clower, Ph.D. Director, Center for Regional Analysis Schar School of Policy and Government George Mason University

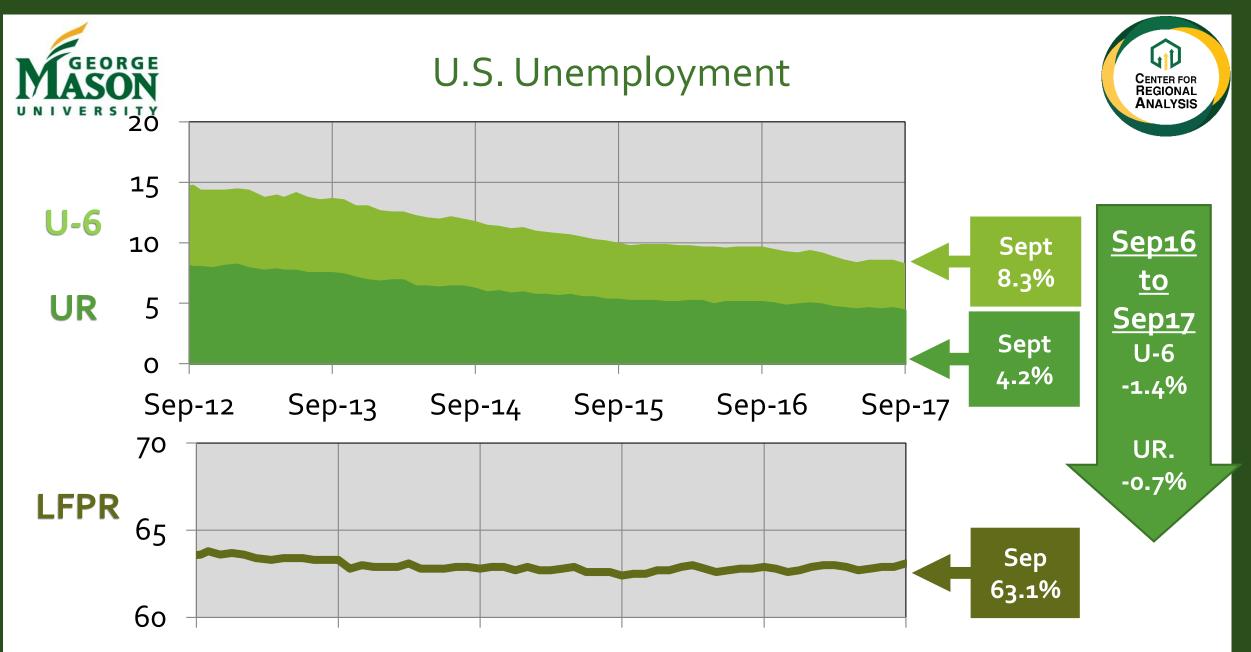
Oct 31, 2017



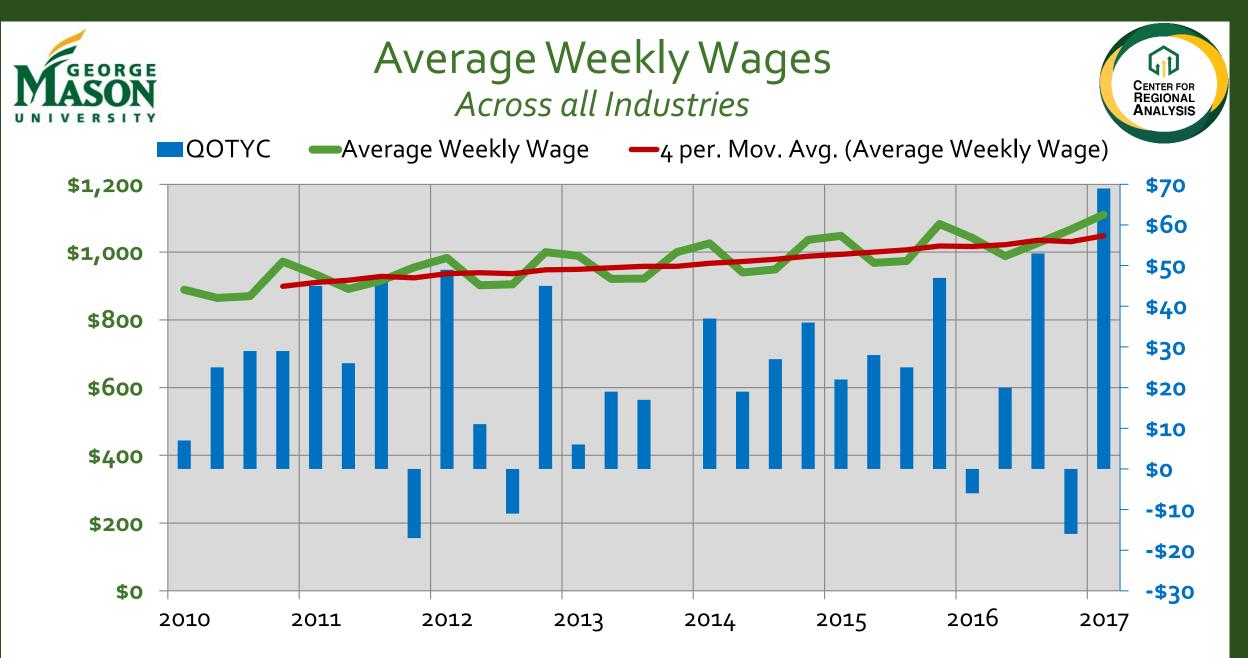
Source: Bureau of Economic Analysis (Seasonally Adjusted, Chained 2009 Dollars)



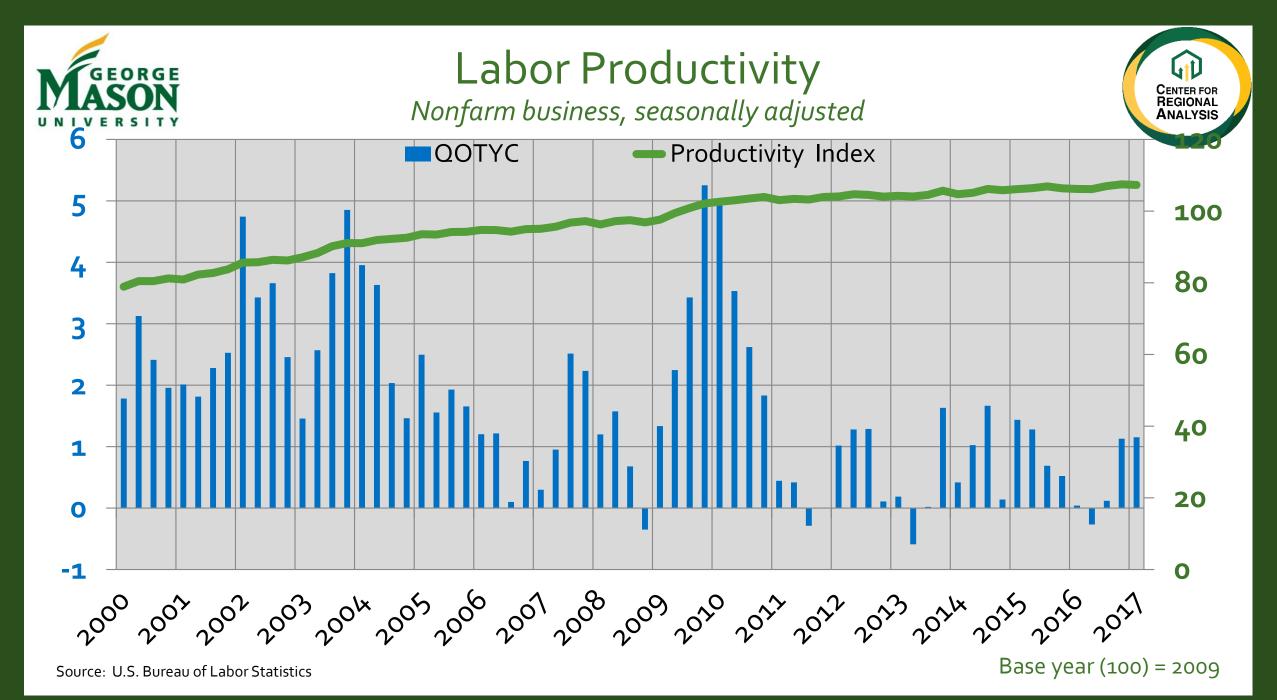


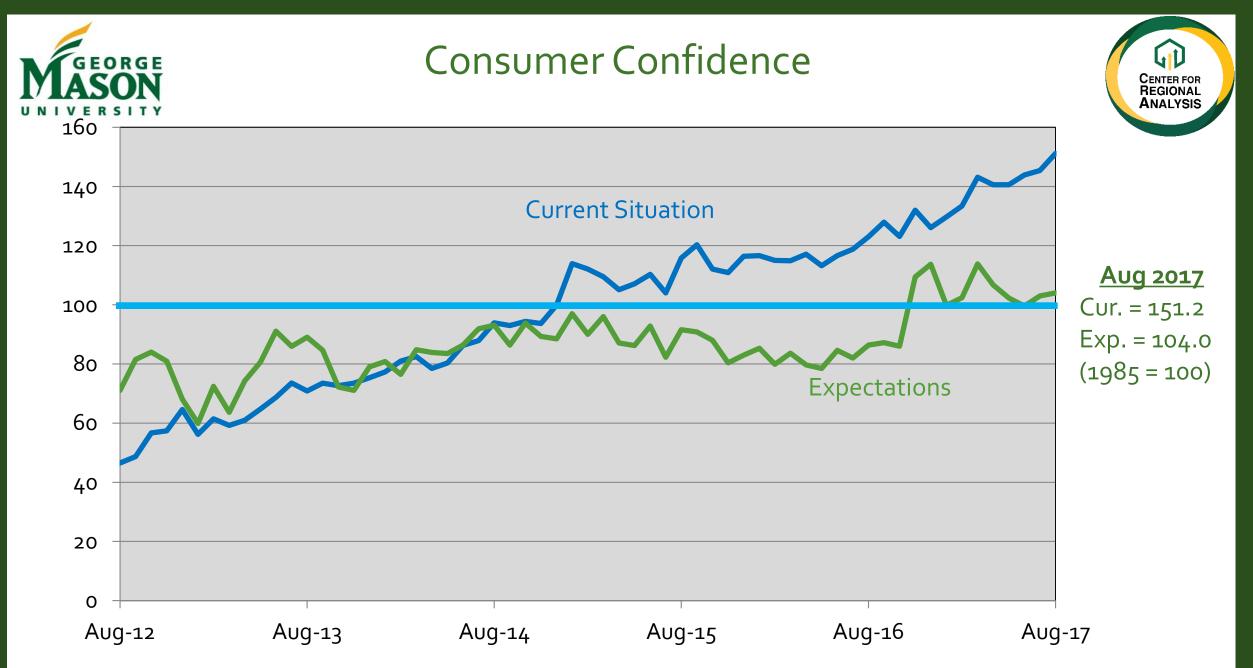


Source: Bureau of Labor Statistics (Seasonally Adjusted)

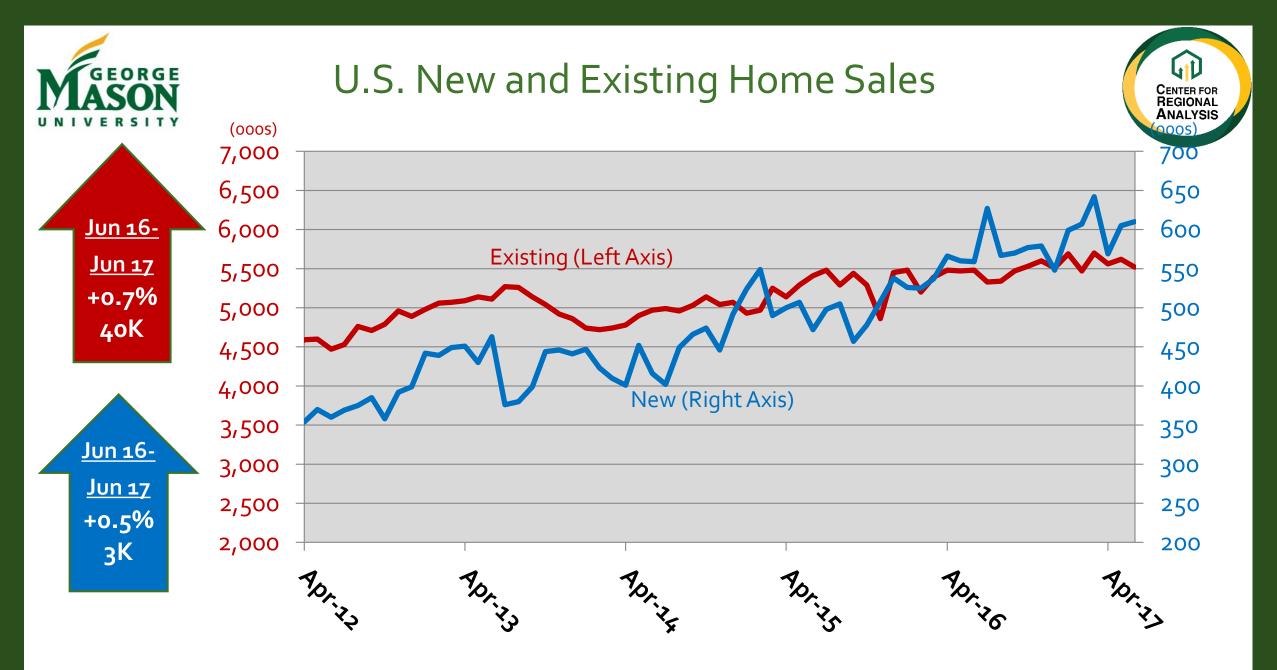


Source: Bureau of Labor Statistics, GMU Center for Regional Analysis

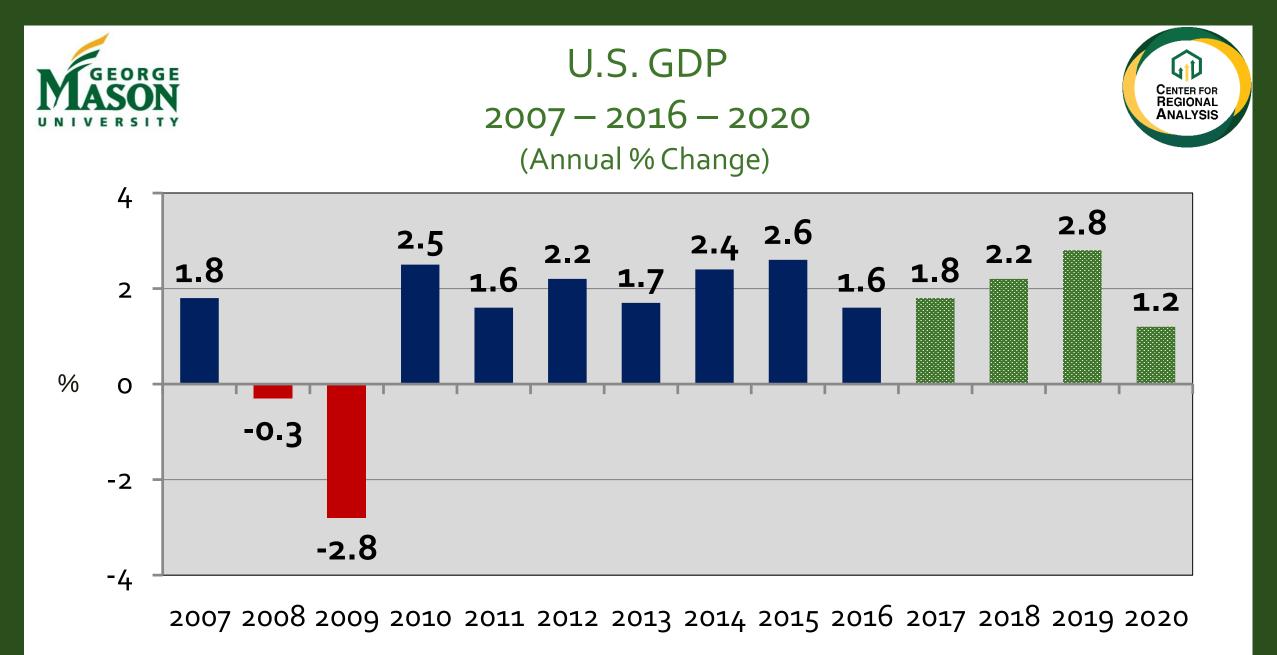




Source: The Conference Board, GMU Center for Regional Analysis



Source: U.S. Census (New)(Seasonally Adjusted Annual Rate), National Association of Realtors (Existing)

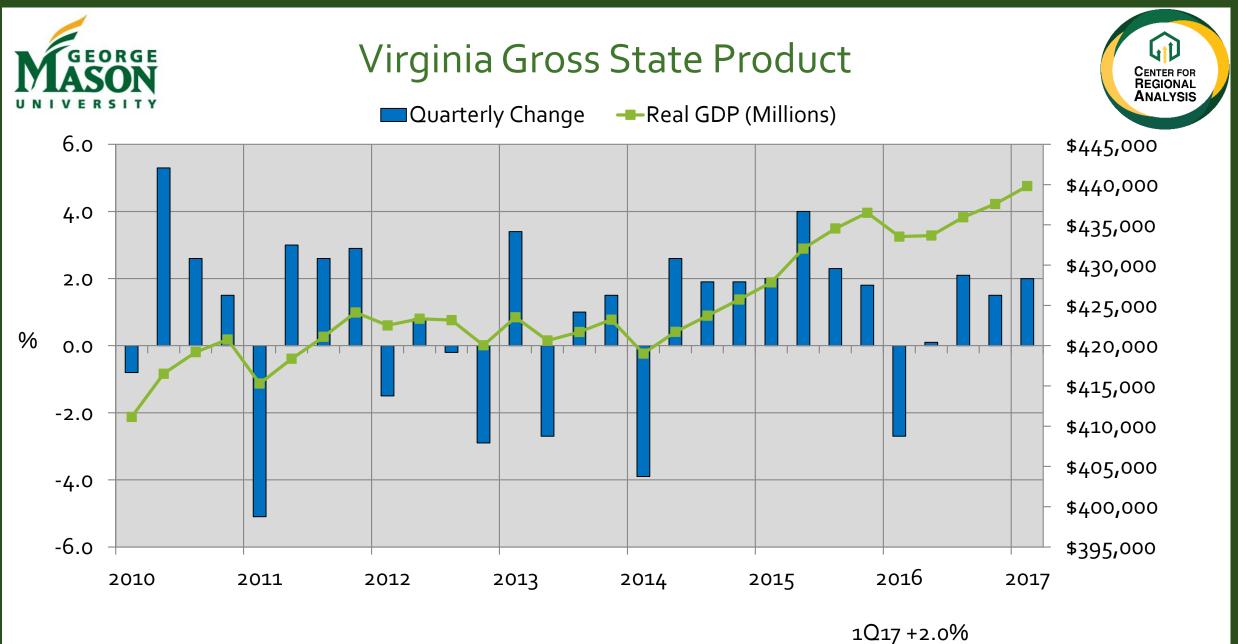


Source: Bureau of Economic Analysis, GMU Center for Regional Analysis, Forecast: January, 2017

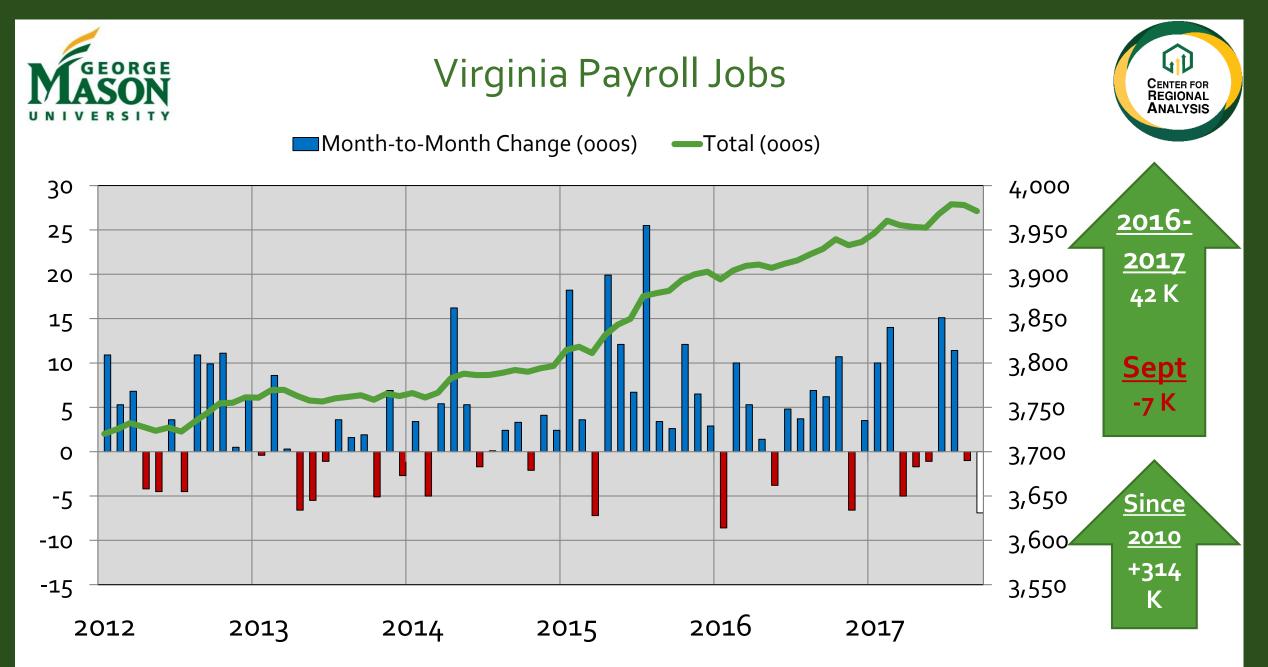




The Virginia Economy



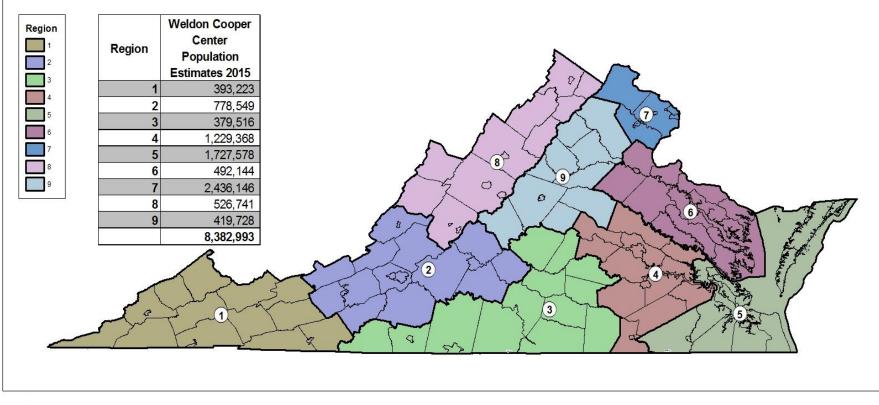
Source: Bureau of Economic Analysis (Seasonally Adjusted, Chained 2009 Dollars)

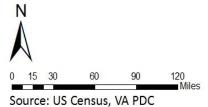




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GO Virginia Regional Boundaries













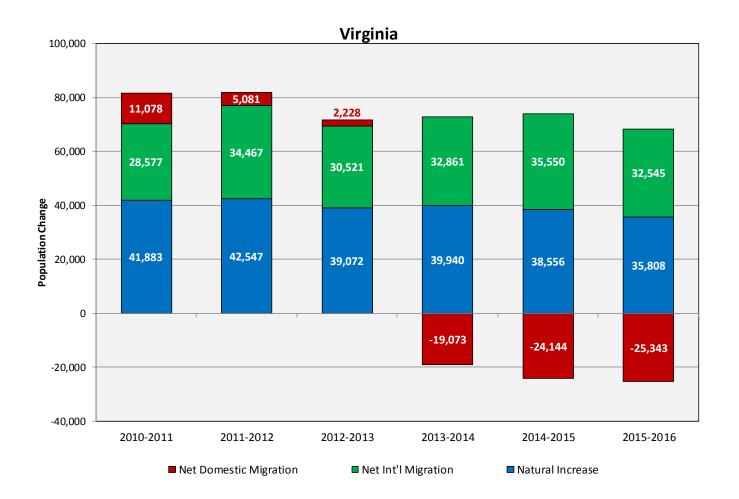
Population Trends: Virginia

	1995	2000	2010	2016	Annual Growth (95-00)	Annual Growth (00-10)	Annual Growth (10-16)
United States	265,471,847	281,424,600	308,745,538	323,127,513	1.2%	0.9%	0.8%
Virginia	6,696,100	7,105,817	8,025,773	8,411,808	1.2%	1.2%	0.8%
Region 1	401,200	398,740	401,712	385,045	-0.1%	0.1%	-0.7%
Region 2	674,500	700,085	762,386	777,919	0.7%	0.9%	0.3%
Region 3	380,000	387,778	383,660	371,277	0.4%	-0.1%	-0.5%
Region 4	973,900	1,036,200	1,178,106	1,245,838	1.2%	1.3%	0.9%
Region 5	1,541,500	1,589,071	1,671,025	1,715,073	0.6%	0.5%	0.4%
Region 6	336,700	376,459	470,955	501,780	2.3%	2.3%	1.1%
Region 7	1,649,300	1,829,631	2,246,802	2,461,243	2.1%	2.1%	1.5%
Region 8	419,700	445,222	509,185	528,945	1.2%	1.4%	0.6%
Region 9	308,400	336,206	401,942	424,688	1.7%	1.8%	0.9%

Source: US Census Bureau, Population Estimates Programs









Total Employment



Employment Trends: Virginia

	1996	2000	2010	2016	Annual Growth (96-00)	Annual Growth (00-10)	Annual Growth (10-16)
United States	126,707,500	136,891,000	139,064,000	151,436,000	2.0%	0.2%	1.4%
Virginia	3,268,553	3,522,865	3,860,386	4,070,260	1.9%	0.9%	0.9%
Region 1	164,915	165,380	157,649	149,694	0.1%	-0.5%	-0.9%
Region 2	336,240	345,475	354,578	362,604	0.7%	0.3%	0.4%
Region 3	169,377	170,177	152,273	153,265	0.1%	-1.1%	0.1%
Region 4	492,295	522,673	561,551	622,715	1.5%	0.7%	1.7%
Region 5	685,330	707,954	765,498	786,346	0.8%	0.8%	0.4%
Region 6	163,564	185,676	220,127	231,258	3.2%	1.7%	0.8%
Region 7	901,240	1,031,194	1,214,760	1,301,155	3.4%	1.7%	1.2%
Region 8	208,344	226,064	239,612	248,553	2.1%	0.6%	0.6%
Region 9	147,252	168,280	194,342	208,404	3.4%	1.5%	1.2%

Source: US BLS Local Area Unemployment Statistics (2016 preliminary)



Mason Employment Trends by Industry Sector

Commonwealth of Virginia: Industry Sectors

	Employment#		LQ		2015 Virginia	2015 US Avg
Sector	2005			2015	Avg Wage	Wage
Professional and business services	652,663	697,794	0.94	1.33	\$81,959	\$69,270
Trade, transportation, and utilities	607,392	647,248	1.32	0.91	\$40,584	\$44,321
Education and health services	365,336	478,617	0.82	0.85	\$46,630	\$47,383
Leisure and hospitality	355,375	384,750	0.95	0.95	\$19,148	\$21,807
Local government	329,587	369,883	0.95	1.00	\$43,400	\$47,573
Manufacturing	295,712	232,652	0.77	0.71	\$57,778	\$64,305
Financial activities	243,964	184,987	1.23	0.88	\$77,424	\$87,915
Construction	191,122	184,358	0.87	1.07	\$51,560	\$57,009
Federal government	151,945	176,757	2.04	2.39	\$89,056	\$77,900
State government	140,069	145,291	1.14	1.19	\$48,705	\$55,878
Other services	124,937	134,593	1.06	1.17	\$41,114	\$35,116
Information	93,292	69,505	1.12	0.94	\$95,307	\$95,098
Natural resources and mining	21,837	19,684	0.47	0.37	\$44,329	\$58,461

Source: US Bureau of Labor Statistics, Quarterly Census of Employment and Wages

*2015 is the most recently available complete year

#Does not include suppressed employment

*Additional data available in accompanying spreadsheet for the years: 1996,2000,2005,2010,2015



Per Capita Income



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	1996	2000	2010	2015	Annual Growth (96-00)	Annual Growth (00-10)	Annual Growth (10-15)
United States	\$37,340	\$42,231	\$43,902	\$48,112	1.2%	0.4%	1.5%
Virginia	\$39,203	\$45,144	\$49,421	\$52,052	1.4%	0.9%	0.9%
Region 1	\$25,980	\$28,453	\$32,637	\$33,475	0.9%	1.4%	0.4%
Region 2	\$31,843	\$34,930	\$36,863	\$39,012	0.9%	0.5%	0.9%
Region 3	\$26,835	\$29,000	\$30,990	\$33,480	0.8%	0.7%	1.3%
Region 4	\$39,601	\$44,363	\$46,492	\$50,623	1.1%	0.5%	1.4%
Region 5	\$34,462	\$38,351	\$44,036	\$46,192	1.1%	1.4%	0.8%
Region 6	\$33,993	\$38,639	\$44,997	\$46,109	1.3%	1.5%	0.4%
Region 7	\$55,779	\$66,533	\$69,164	\$70,571	1.8%	0.4%	0.3%
Region 8	\$31,058	\$34,680	\$37,757	\$40,199	1.1%	0.9%	1.0%
Region 9	\$38,795	\$44,284	\$48,173	\$52,038	1.3%	0.8%	1.3%

Source: US Bureau of Economic Analysis, PCI adjusted for 2015 dollars







Poverty Trends: Virginia

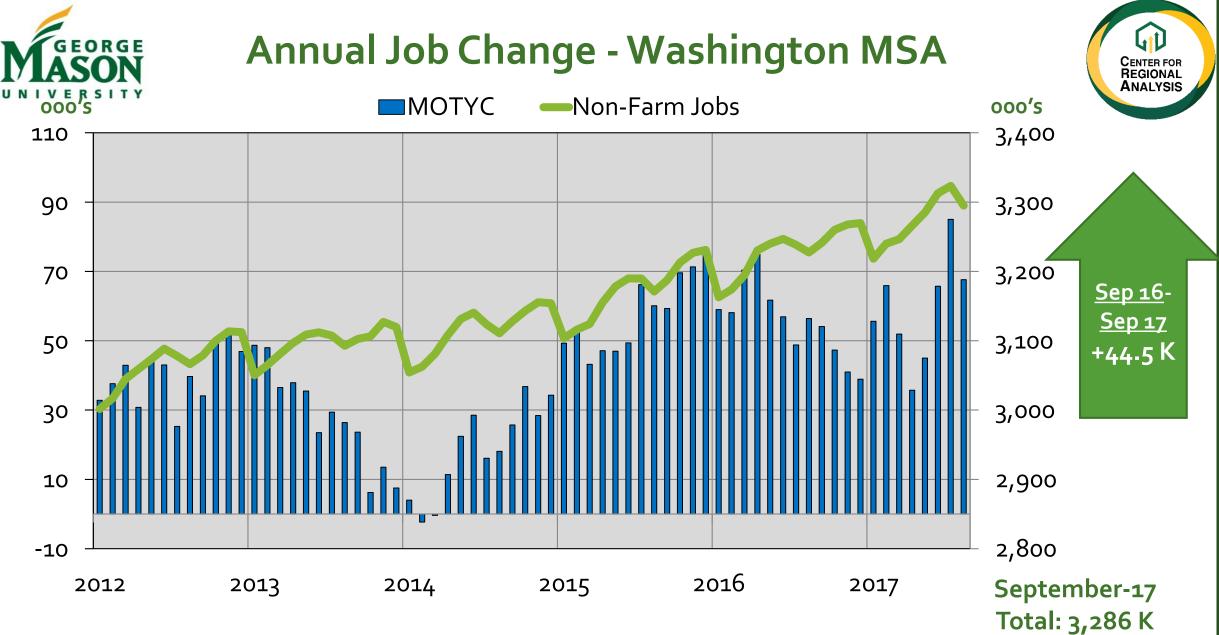
	1998 2006		2011	2015
	Poverty	Poverty	Poverty	Poverty
	Rate	Rate	Rate	Rate
United States	12.7%	13.3%	15.9%	14.7%
Virginia	10.2%	9.6%	11.6%	11.2%
Region 1	17.8%	17.2%	19.7%	19.6%
Region 2	11.5%	12.7%	15.2%	15.1%
Region 3	15.4%	16.6%	20.2%	19.6%
Region 4	10.5%	9.8%	12.7%	12.0%
Region 5	12.5%	10.5%	12.7%	12.9%
Region 6	8.8%	7.7%	9.5%	8.9%
Region 7	5.2%	5.2%	6.6%	6.2%
Region 8	10.4%	11.0%	13.2%	13.2%
Region 9	9.5%	9.3%	11.1%	10.6%

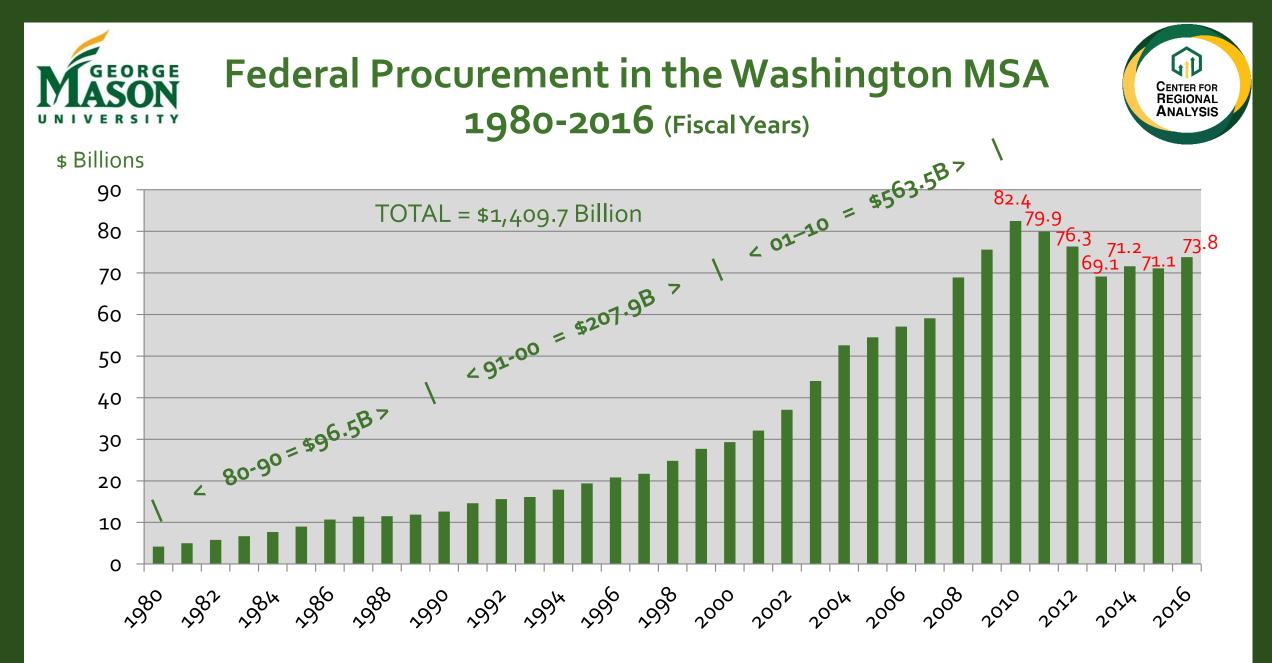
Source: US Census Bureau, Small Area Income and Poverty Estimates



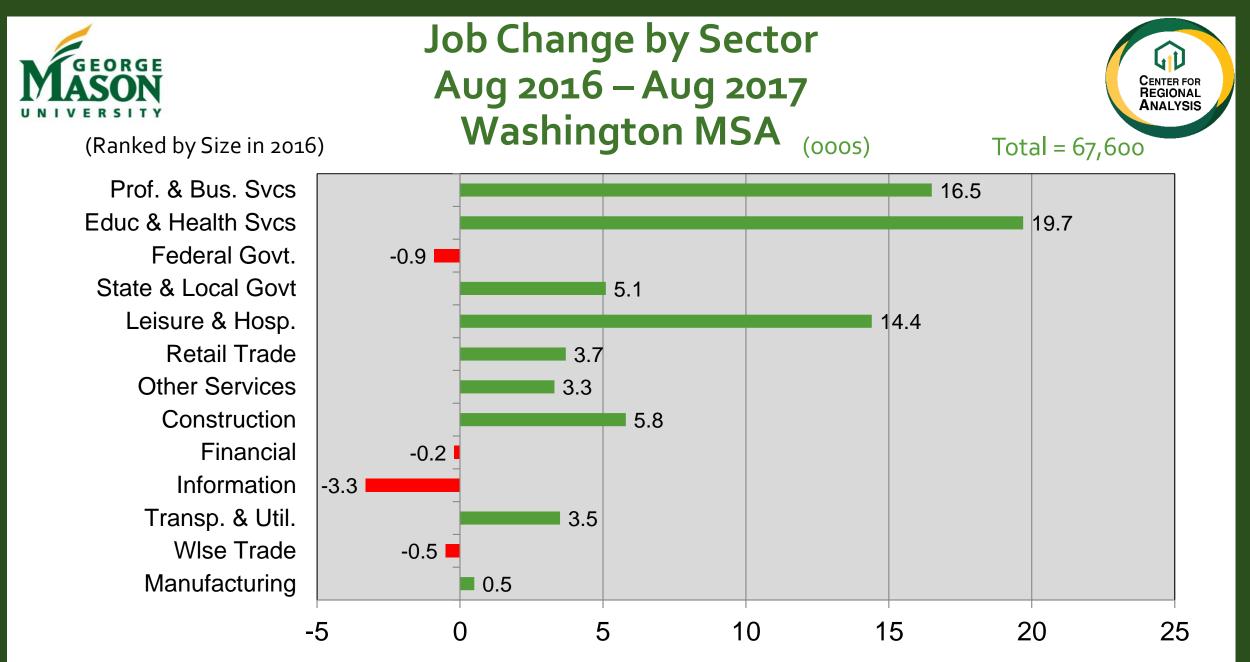


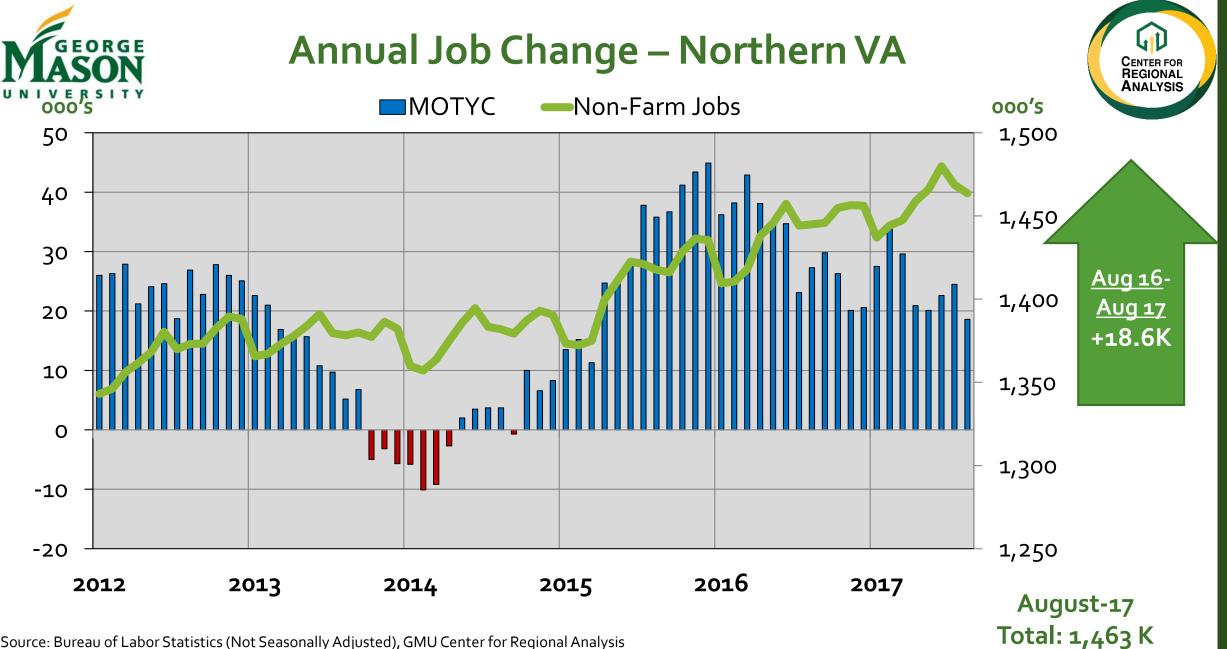
The Washington Economy





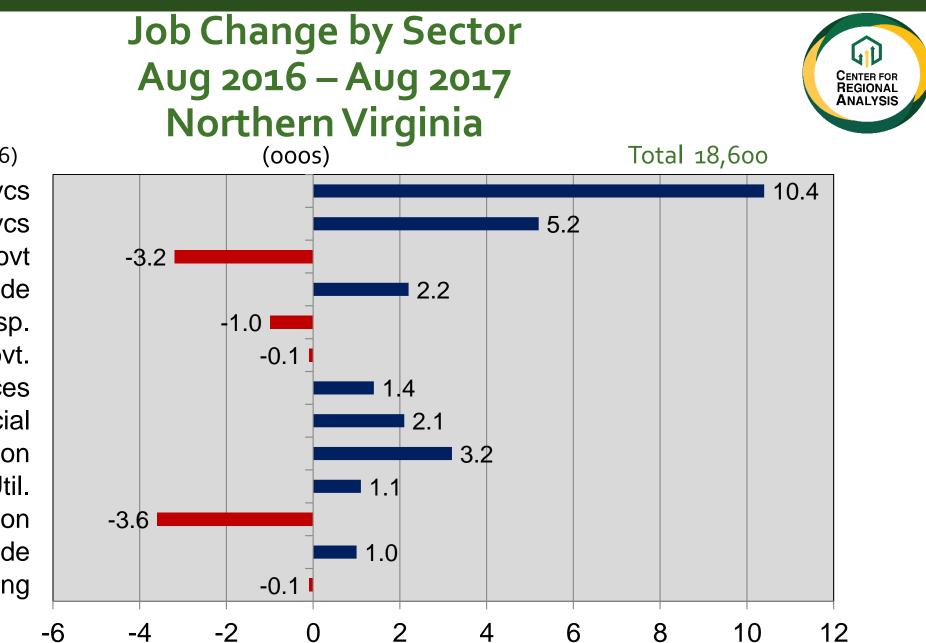
Source: US Census, Consolidated Federal Funds Report and USAspending.gov







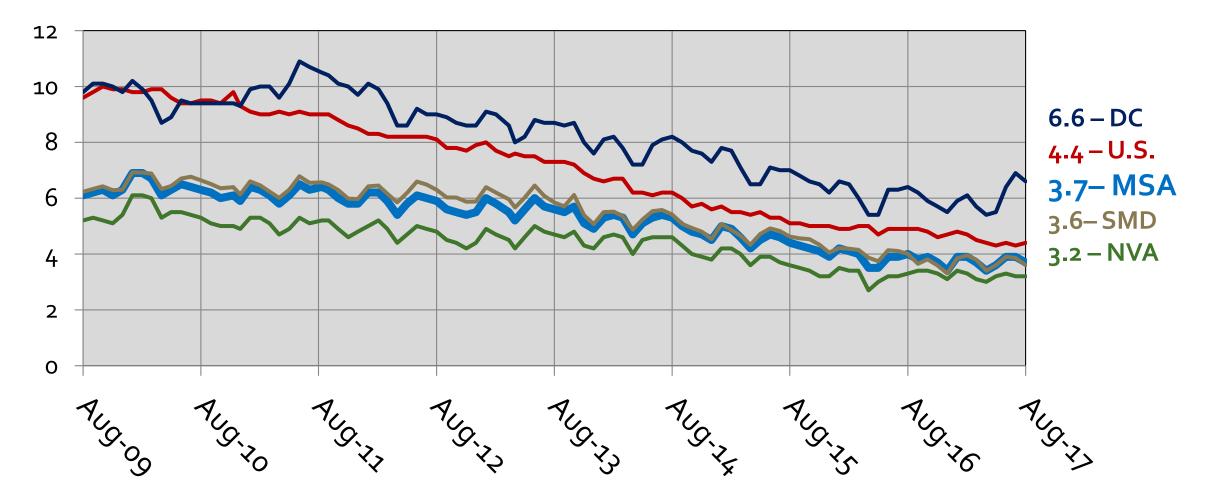
(Ranked by Size in 2016) Prof. & Bus. Svcs Educ & Health Svcs State & Local Govt Retail Trade Leisure & Hosp. Federal Govt. Other Services Financial Construction Transp. & Util. Information Wlse Trade Manufacturing



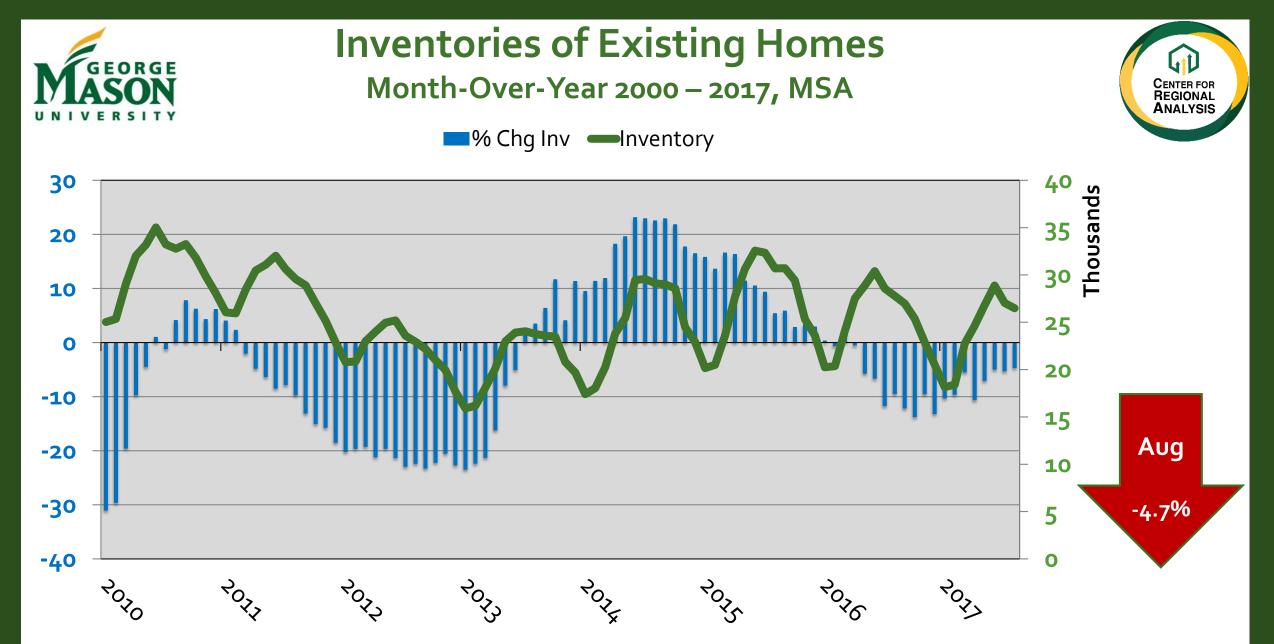


Unemployment Rates in the WMSA By Sub-State Area

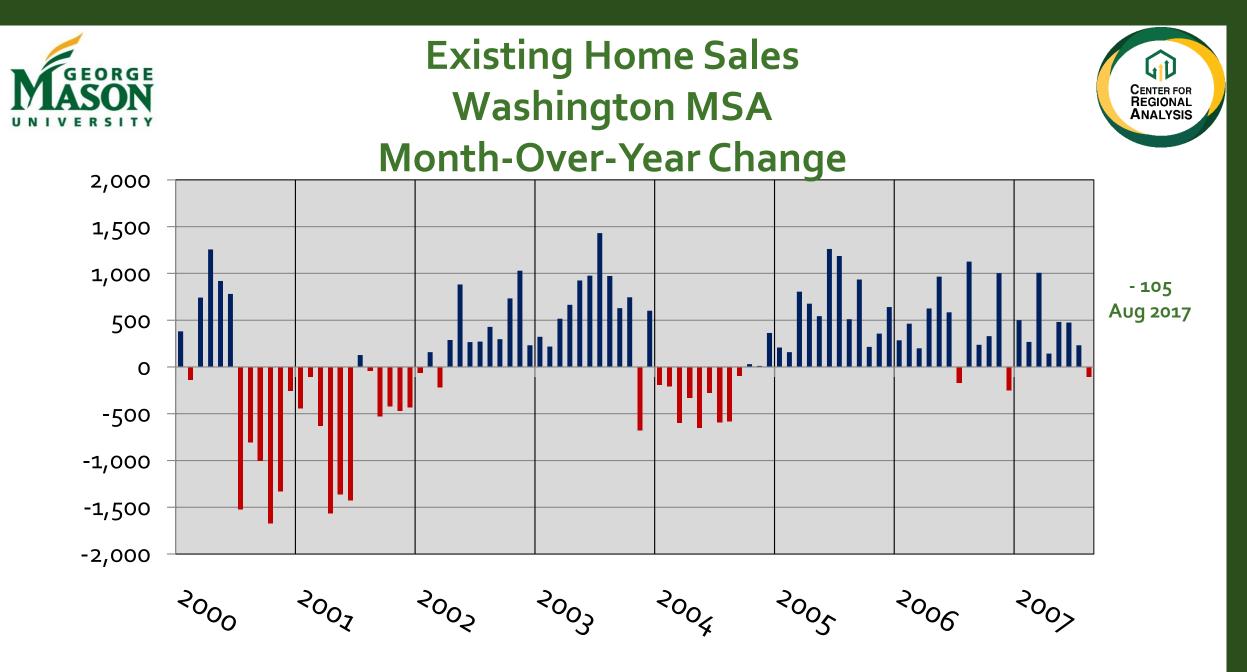
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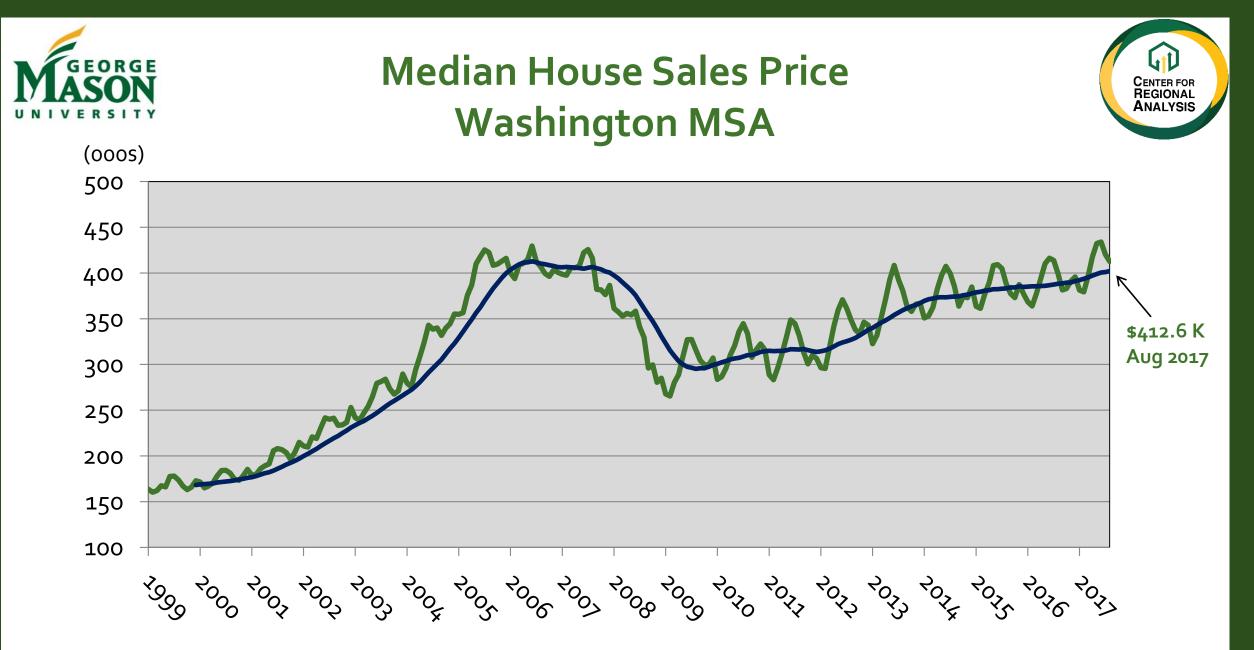
Source: Bureau of Labor Statistics (Region - Not Seasonally Adjusted, US – Seasonally Adjusted)



Source: Metropolitan Regional Information Systems (MRIS), GMU Center for Regional Analysis. Total monthly inventory includes listings active at the end of the month plus sales during the month.



Source: Metropolitan Regional Information Systems (MRIS), GMU Center for Regional Analysis

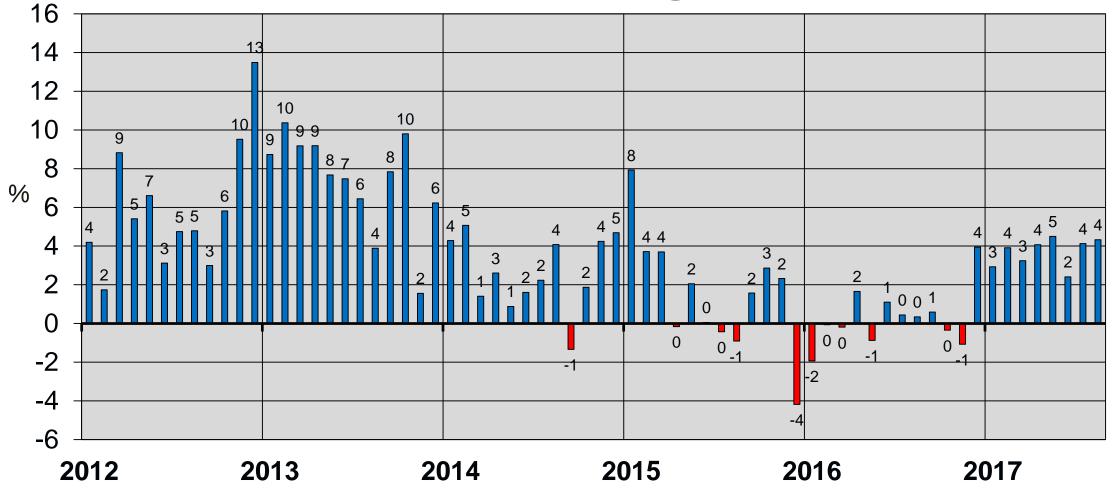


Source: Metropolitan Regional Information Systems (MRIS), GMU Center for Regional Analysis



Average Home Sales Price Percent Change (MOTYC) Northern Virginia





Source: Metropolitan Regional Information Systems (MRIS), GMU Center for Regional Analysis

Aug = \$486K





Outlook



Where are headed?



• We are growing:

- Still trailing national average,
- NOVA is driving with support from Richmond & Charlottesville
- Job growth is inconsistent
- Growth will continue in 2017, but at a moderating pace

- Advantages
 - Competitive tax structure regionally
 - Connectivity to the World
 - Access to capital
 - Higher Education
 - Educated Work Force
 - Advanced Occupational Specializations

Challenges

- Federal Budget
- Further market shifts needed
- Mobility
- Access to capital
- Regional branding / cooperation
- Globally competitive?
- Understanding changing nature of jobs





Thank You Questions

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