



New River/Mount Rogers Skills Gap Analysis: County Data Profiles

Washington County, Virginia

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Part A: Economic and Demographic Data

Table I: Population, Employment, and Educational Attainment Trendsⁱ

Population Data		
Population	54,628	
Population between the Ages of 25 and 64	29,802	
Population Change (2002-2012)	3,390	
Employment and Income Data		
Population Participating in the Labor Force	26,256 (48.1%)	
Unemployment Rate	6.1%	
Per Capita Income	\$33,851	
Education Attainment (Population Est.)		
Less than 9 th Grade	3,110	
9 th -12 th Grade, No Diploma	4,016	
High School Graduate	12,822	
Some College, no degree	8,068	
Associate's Degree	3,115	
Bachelor's Degree	5,203	
Graduate or Professional Degree	3,094	
Employment by Educational Attainment (25-64 Years Old)		
	<i>Estimated Number in Labor Force</i>	<i>Percentage Employed</i>
Less than High School Graduate	1,676	88.1%
High School Graduate	6,681	93.0%
Some College or Associate's Degree	7,191	94.9%
Bachelor's Degree or Higher	5,870	96.5%

Part B: Industry Data

Figure I: Industry Employment Trends (NAICS 2-Digit)ⁱⁱ

LQ: >1= Above National Average Concentration of Employment

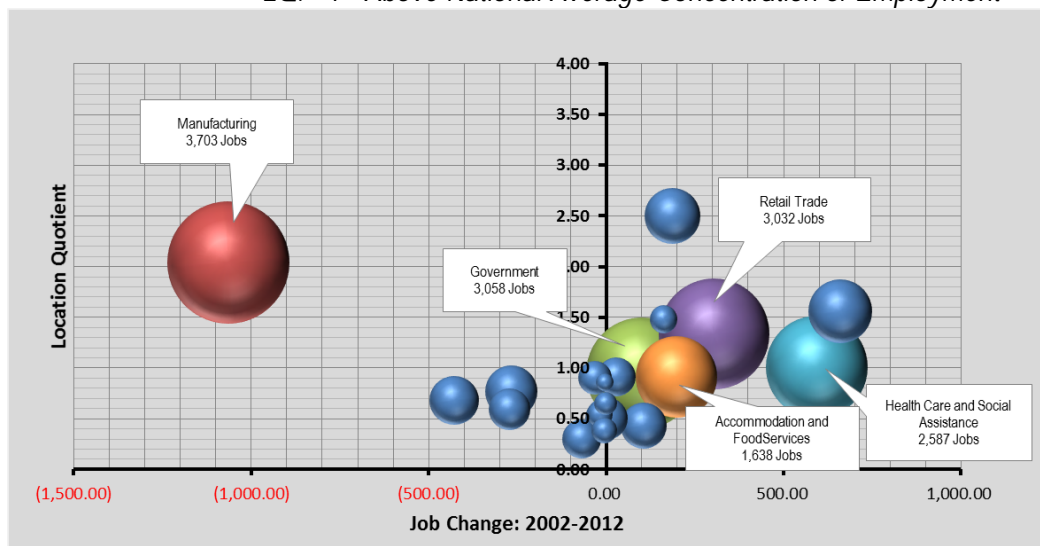


Table II: Top Ten Industries for Employment, by NAICS 3-Digitⁱⁱⁱ

	2002 Jobs	2012 Jobs	Change Jobs (2002-2012)	% of Change (2002-2012)	Average Wages, Salaries, & Proprietor Earnings
Local Government	1,967	2,122	155	8%	\$31,921
Food Services and Drinking Places	1,241	1,378	137	11%	\$13,312
Machinery Manufacturing	3,188	1,300	(-1,888)	(-59%)	\$46,935
Ambulatory Health Care Services	839	886	47	6%	\$62,562
Hospitals (Private)	670	852	182	27%	\$43,918
State Government	829	820	(-9)	(-1%)	\$38,275
General Merchandise Stores	761	805	44	6%	\$19,181
Transportation Equipment Manufacturing	220	776	556	253%	\$35,752
Management of Companies and Enterprises	578	764	186	32%	\$94,400
Warehousing and Storage	47	668	621	1321%	\$32,955

Table III: Worker Age Demographics (Manufacturing and Health Care and Social Assistance)^{iv}

	Manufacturing		Health Care & Social Assistance	
	Jobs (2013)	% of Total	Jobs (2013)	% of Total
14-18 Years	15	.4%	<10	.3%
19-21 Years	135	3.7%	60	2.3%
22-24 Years	168	4.6%	116	4.3%
25-34 Years	620	16.8%	523	19.6%
35-44 Years	1,005	27.3%	690	25.9%
45-54 Years	977	26.5%	710	26.6%
55-64 Years	678	18.4%	436	16.4%
65+ Years	90	2.4%	122	4.6%

Part C: Occupation Data

Table IV: Top Ten Occupations (SOC 5-Digit)^v

Occupation		Jobs (2012)	Job Change (2002-2012)	% of All Jobs in County	Median Hourly Earnings (Region)	Educational Attainment (National)
1.	Retail Salespersons	833	187	4.15%	\$14.01	Short-term on-the-job training
2.	Cashiers	761	44	3.79%	\$14.48	Short-term on-the-job training
3.	Combined Food Preparation and Serving Workers, Including Fast Food	746	94	3.72%	\$8.61	Short-term on-the-job training
4.	Office Clerks, General	562	28	2.80%	\$13.07	Short-term on-the-job training
5.	Stock Clerks and Order Fillers	420	57	2.09%	\$12.69	Short-term on-the-job training
6.	Customer Service Representatives	348	35	1.73%	\$30.99	Short-term on-the-job training
7.	Heavy and Tractor-Trailer Truck Drivers	337	51	1.68%	\$12.41	Short-term on-the-job training
8.	Registered Nurses	336	64	1.67%	\$27.72	Associate's degree
9.	Maintenance and Repair Workers, General	332	46	1.65%	\$18.77	Moderate-term on-the-job training
10.	Team Assemblers	305	(-256)	1.52%	\$29.96	Moderate-term on-the-job training
	Total for Top 10 Jobs	4,980	350	24.82%	**	**
	Total for County (All Jobs)	20,062	177	**	\$22.31	**

Table V: Industry Staffing Patterns for County's Top Ten Occupations for Employment (2012)^{vi}

Occupation		Jobs (2012)	Top Regional Subsectors for Occupation Employment		
			Sector (NAICS 3-Digit)	% of Occupation Employed in this Industry Subsector	% of Jobs in Industry Sector
1.	Retail Salespersons	833	General Merchandise Stores	30.0%	30.0%
			Building Material and Garden Equipment and Supplies Dealers	23.1%	42.4%
			Sporting Good, Hobby, Book, and Music Stores	11.0%	60.9%
2.	Cashiers	761	Gasoline Stations	29.2%	61.3%
			Food and Beverage Stores	22.1%	34.1%
			General Merchandise Stores	19.4%	17.7%
3.	Combined Food Preparation and Serving Workers, Including Fast Food	746	Food Services and Drinking Places	84.6%	46.1%
			Local Government	4.3%	1.5%
			Food and Beverage Stores	4.3%	6.6%
4.	Office Clerk, General	562	Local Government	9.0%	2.3%
			State Government	8.8%	6.3%
			Ambulatory Health Care Services	8.0%	4.9%
5.	Stock Clerks and Order Fillers	420	General Merchandise Stores	31.1%	16.0%
			Food and Beverage Stores	20.8%	18.1%
			Warehousing and Storage	17.3%	10.6%
6.	Customer Service Representatives	348	Management of Companies and Enterprises	12.4%	5.4%
			Insurance Carriers and Related Activities	7.0%	15.0%
			Warehousing and Storage	6.3%	3.2%
7.	Heavy and Tractor-Trailer Truck Drivers	337	Truck Transportation	49.8%	56.6%
			Warehousing and Storage	13.4%	6.8%
			Merchant Wholesalers, Nondurable Goods	10.0%	10.2%
8.	Registered Nurses	336	Hospital (Private)	71.8%	28.9%
			Ambulatory Health Care Services	14.9%	5.5%
			Nursing and Residential Care Facilities	4.2%	4.8%
9.	Maintenance and Repair Workers, General	332	Local Government	9.4%	1.4%
			Machinery Manufacturing	8.7%	2.4%
			Accommodation	8.3%	10.6%
10.	Team Assemblers	305	Machinery Manufacturing	42.2%	10.6%
			Transportation Equipment Manufacturing	34.8%	13.3%
			Fabricated Metal Product Manufacturing	6.5%	3.7%

Part D: Education Data

Section I: Primary and Secondary School Data

Table VI: SOL Pass/Fail Rates for Elementary and Middle School – Washington County (AY: 2012-2013) (All)^{vii}

Grade	English: Reading		English: Writing		Mathematics		Science		History and Social Science	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
Grade 3	79	21	N/A	N/A	72	28	88	13	89	11
<i>Virginia Average</i>	72	28	N/A	N/A	65	35	84	16	87	13
Grade 5	78	22	68	32	78	22	86	14	<	<
<i>Virginia Average</i>	73	27	71	29	69	31	75	25	82	18
Grade 8	70	30	67	33	58	42	88	12	<	<
<i>Virginia Average</i>	71	29	70	30	61	39	76	24	81	19

Table VII: SOL Pass/Fail Rates, by High School (AY: 2012-2013)^{viii}

	Virginia		Washington County		Abingdon High School		Holston High School		John S. Battle High School		Patrick Henry High School	
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
English Reading	89	11	94	6	93	7	93	7	96	4	95	5
English Writing	87	13	83	17	80	20	86	14	88	12	80	20
Algebra I	76	24	82	18	77	23	59	41	67	33	85	15
Geometry I	76	24	74	26	76	24	73	27	72	28	73	27
Algebra II	76	24	77	23	78	22	95	5	64	36	87	13
Biology	83	17	84	16	82	18	85	15	90	10	83	17
Chemistry	86	14	76	24	80	20	98	2	58	42	72	28
Earth Science	83	17	90	10	88	12	85	15	95	5	93	7

Table VIII: Four-Year Virginia On-Time Graduation Rate (AY: 2012-2013)^{ix}

	Cohort Size	Advanced Studies Diploma	Standard Diploma	Modified Standard Diploma	Special Diploma	General Achievement Diploma	Virginia On-Time Graduation Rate
All Students	558	284	227	<	17	0	95.2
<i>Economically Disadvantaged anytime</i>	248	69	138	<	16	0	91.1
<i>Homeless anytime</i>	<	<	<	<	<	0	<
Virginia On-Time Graduation Rate (All Students)							89.1%

Table IX: Trends for Program Completion (AY: 2010-2011 to AY: 2012-2013)^x

Count/ Percentage	2010-2011	2011-2012	2012-2013	Virginia (%) for 2011-2012*
Advanced Diploma	231 / 39.15%	218 / 41.44%	283 / 51.27%	52.3%
GED/ISAEP	23 / 3.9%	18 / 3.42%	14 / 2.54%	2.02%
Modified Standard Diploma	14 / 2.37%	<	<	2.01%
Special Diploma	21 / 3.56%	24 / 4.56%	20 / 3.62%	2.56%
Standard Diploma	293/ 49.66%	254/ 48.29%	230/ 41.67%	39.77%

Table X: Advanced Program Information (AY: 2010-2011 to AY: 2012-2013)^{xi}

Program type	2010-2011	2011-2012	2012-2013	Virginia (%) for 2011-2012
Advanced Placement Course Enrollment	210 / 9.11%	173 / 7.84%	261 / 11.92%	20.38%
Dual Enrollment Courses Taken	-	524 / 23.73%	318 / 14.52%	6.73%

Table XI: Career and Technical Education Trends (AY 2010-2011 to AY: 2012-2013)^{xii}

Count		2010-2011	2011-2012	2012-2013
NOCTI Assessments	Washington County	76	120	138
	State	4,664	4,250	4,577
State Licensures	Washington County	12	13	8
	State	880	707	673
Industry Certification	Washington County	333	387	930
	State	28,586	32,582	39,658
Workplace Readiness	Washington County	43	409	173
	State	2,589	13,653	21,312
Total Credentials Earned	Washington County	464	929	1,249
	State	36,719	51,192	66,220
Students Earning One or More Credentials	Washington County	401	771	967
	State	30,613	42,218	56,247
CTE Completers	Washington County	294	240	354
	State	41,329	41,677	40,761

Table XII: Trends for Teacher Education Attainment, by %^{xiii}

	2010-2011	2011-2012	2012-2013
Washington County			
Bachelor's Degree	49%	50%	51%
Master's Degree	46%	45%	44%
Doctoral Degree	1%	1%	1%
Virginia			
Bachelor's Degree	41%	42%	42%
Master's Degree	56%	55%	55%
Doctoral Degree	1%	1%	1%

Section II: Postsecondary Education Completion Data

Table XIII: Completions at Regional Community College Institutions During AY: 2012-2013, by Student County/City of Origin (Washington County)^{xiv}

Type of Credential	# of Completions for Students of Washington County Origin			
	New River Community College	Wytheville Community College	Virginia Highlands College	All Public 2-Year in Virginia
Less than 1 Year	0	4	50	<i>Data Update Forthcoming</i>
1-2 Years	0	0	120	
Associate's (Bachelor's Credit)	0	0	56	
Associate's (Technical Credit)	0	4	77	
# of County/City Students Transferring from Institution to a Public/Private Non-Profit Institution in Virginia	<i>Data Update Forthcoming</i>			

Table XIV: Completions at Regional 4-Year Public and Non-Profit Institutions During AY: 2012-2013, by Student County/City of Origin (Washington County)^{xv}

Type of Credential	Virginia Tech	Radford University	Emory and Henry College (2011-2012 Only)	Virginia Intermont College	All Virginia Public 4+ Year Institutions	All Virginia Private Non-Profit 4+ Year Institutions
Associate's Degree	0	N/A	N/A	N/A	<i>Data Update Forthcoming</i>	
Bachelor's 4-Year	22	14	32	8	74	24
Bachelor's 5-Year	0	N/A	N/A	N/A	0	N/A
Master's Degree	3	7	4	N/A	<i>Data Update Forthcoming</i>	
Doctoral Degree	1	N/A	N/A	N/A		

ⁱ Source: U.S. Census Bureau. American Community Survey. 5-Year Estimates (2007-2011).

ⁱⁱ Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

ⁱⁱⁱ Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^{iv} Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^v Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^{vi} Source: emsiAnalyst. 2013.4 Class of Worker Data. QCEW.

^{vii} Source: Virginia Department of Education School Report Cards.

^{viii} Source: Virginia Department of Education School Report Cards.

^{ix} Source: Virginia Department of Education School Report Cards.

^x Source: Virginia Department of Education School Report Cards. Data not available for AY: 2012-2013.

^{xi} Source: Virginia Department of Education School Report Cards. Data not available for AY: 2012-2013.

^{xii} Source: Virginia Department of Education School Report Cards.

^{xiii} Source: Virginia Department of Education School Report Cards.

^{xiv} Source: State Council of Higher Education for Virginia. Virginia College Navigator. Data for Localities and College to University.

^{xv} Source: State Council of Higher Education for Virginia. Virginia College Navigator. Data for Localities and College to University.