



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

Pulaski County, Virginia

Prepared by: Virginia Tech Office of Economic Development

Part A: Economic and Demographic Data

Table I: Population, Employment, and Educational Attainment Trendsⁱ

Population Data		
Population	34,900	
Population between the Ages of 25 and 64	19,416	
Population Change (2002-2012)	-285	
Employment and Income Data		
Population Participating in the Labor Force	17,051 (48.9%)	
Unemployment Rate	10.0%	
Per Capita Income	\$32,947	
Education Attainment (Population Est.)		
Less than 9 th Grade	1,883	
9 th -12 th Grade, No Diploma	3,098	
High School Graduate	8,462	
Some College, no degree	5,373	
Associate's Degree	2,968	
Bachelor's Degree	2,519	
Graduate or Professional Degree	1,221	
Employment by Educational Attainment (25-64 Years Old)		
	<i>Estimated Number in Labor Force</i>	<i>Percentage Employed</i>
Less than High School Graduate	1,353	83.1%
High School Graduate	4,743	88.2%
Some College or Associate's Degree	5,399	94.6%
Bachelor's Degree or Higher	2,589	95.3%

Part B: Industry Data

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

LQ: >1= Above National Average Concentration of Employment

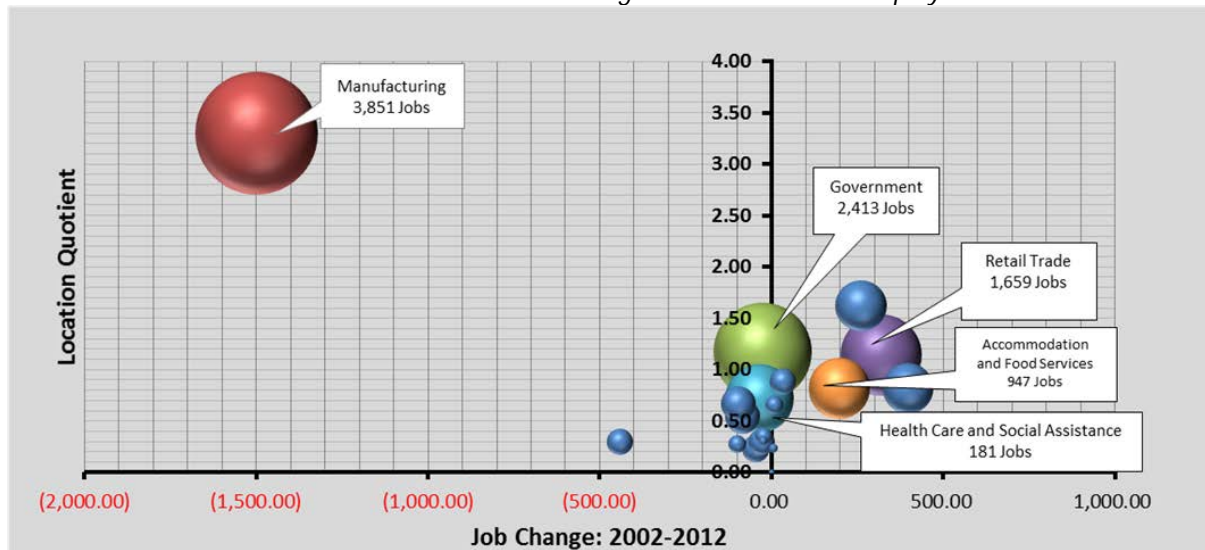


Table II: Top Ten Industries for Employment, by NAICS 3-Digitⁱⁱⁱ

	2002 Jobs	2012 Jobs	Change Jobs (2002-2012)	% of Change (2002-2012)	Average Wages, Salaries, & Proprietor Earnings
Transportation Equipment Mfg.	2,244	2,563	319	14%	\$55,993
Local Government	1,794	1,840	46	3%	\$31,346
Food Services and Drinking Places	684	859	175	26%	\$13,082
General Merchandise Stores	469	639	170	36%	\$20,392
Administrative and Support Services	242	636	394	163%	\$18,728
State Government	578	534	(-44)	(-8%)	\$31,154
Ambulatory Health Care Services	336	382	46	14%	\$43,313
Nursing and Residential Care Facilities	287	361	74	26%	\$25,699
Truck Transportation	252	339	87	35%	\$37,478
Machinery Manufacturing	353	321	(-32)	(-9%)	\$35,574

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	<10	.0%	19	1.5%
19-21 Years	38	1.0%	66	5.2%
22-24 Years	55	1.4%	84	6.6%
25-34 Years	448	11.4%	250	19.7%
35-44 Years	1,117	28.4%	279	22.0%
45-54 Years	1,283	32.7%	292	23.1%
55-64 Years	900	22.9%	219	17.3%
65+ Years	87	2.2%	59	4.7%

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.	Assemblers and Fabricators, All Other	704	206	5.46%	\$26.41	Moderate-term on-the-job training
2.	Cashiers	515	74	4.00%	\$9.03	Short-term on-the-job training
3.	Combined Food Preparation and Serving Workers, Including Fast Food	483	101	3.75%	\$8.48	Short-term on-the-job training
4.	Team Assemblers	432	(-75)	3.35%	\$14.18	Moderate-term on-the-job training
5.	Retail Salespersons	291	35	2.26%	\$11.15	Short-term on-the-job training
6.	Heavy and Tractor-Trailer Truck Drivers	276	54	2.14%	\$15.16	Short-term on-the-job training
7.	Stock Clerks and Order Fillers	262	(-21)	2.03%	\$9.88	Short-term on-the-job training
8.	Machinists	231	26	1.79%	\$16.53	Long-term on-the-job training
9.	Laborers and Freight, Stock, and Material Movers, Hand	210	(-40)	1.63%	\$9.54	Short-term on-the-job training
10.	Nursing Assistants	203	54	1.58%	\$9.90	Postsecondary non-degree award
	Total for Top 10 Jobs	3,607	414	27.99%	**	**
	Total for County (All Jobs)	12,887	(-1,180)	**	\$17.04	**

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.	Assemblers and Fabricators, All Other	704	Transportation Equipment Manufacturing	93.3%	25.4%
			Administrative and Support Services	3.2%	3.4%
			Machinery Manufacturing	0.9%	2.0%
2.	Cashiers	515	General Merchandise Stores	34.2%	26.4%
			Food and Beverage Stores	23.0%	38.0%
			Gasoline Stations	21.8%	68.8%
3.	Combined Food Preparation and Serving Workers, Including Fast Food	483	Food Services and Drinking Places	80.5%	44.8%
			Local Government	6.6%	1.8%
			Food and Beverage Stores	5.5%	8.3%
4.	Team Assemblers	432	Transportation Equipment Manufacturing	88.2%	14.9%
			Machinery Manufacturing	3.7%	5.4%
			Administrative and Support Services	3.0%	1.9%
5.	Retail Salespersons	291	General Merchandise Stores.	49.2%	22.1%
			Transportation Equipment Mfg.	18.5%	34.9%
			Computer and Electronic Product Mfg.	8.5%	16.9%
6.	Heavy and Tractor-Trailer Truck Drivers	276	Truck Transportation	62.7%	50.5%
			Nonmetallic Mineral Product Manufacturing	20.5%	25.6%
			Merchant Wholesalers, Nondurable Goods	2.5%	6.0%
7.	Stock Clerks and Order Fillers	262	General Merchandise Stores	45.2%	17.8%
			Food and Beverage Stores	21.0%	17.7%
			Warehousing and Storage	5.0%	11.5%
8.	Machinists	231	Transportation Equipment Manufacturing	52.3%	4.7%
			Machinery Manufacturing	19.0%	14.7%
			Fabricated Metal Product Manufacturing	18.6%	16.0%
9.	Laborers and Freight, Stock, and Material Movers, Hand	210	Administrative and Support Services	20.9%	6.9%
			Transportation Equipment Manufacturing	12.4%	1.1%
			Warehousing and Storage	11.1%	20.3%
10.	Nursing Assistants	203	Nursing and Residential Care Facilities	66.5%	37.9%
			Hospitals (Private)	14.2%	9.2%
			Ambulatory Health Care Services	8.9%	4.3%

Part D: Education Data

Section I: Primary and Secondary School Data

Table VI: SOL Pass/Fail Rates for Elementary and Middle School – Pulaski 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	71	29	N/A	N/A	61	39	88	12	85	15
<i>Virginia Average</i>	72	28	N/A	N/A	65	35	84	16	87	13
Grade 5	78	22	69	31	75	25	72	28	--	--
<i>Virginia Average</i>	73	27	71	29	69	31	75	25	82	18
Grade 8	60	40	52	48	51	49	69	31	27	73
<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		Pulaski County (Pulaski Senior High School)	
	Pass	Fail	Pass	Fail
English Reading	89	11	81	19
English Writing	87	13	76	24
Algebra I	76	24	31	69
Geometry I	76	24	68	32
Algebra II	76	24	72	28
Biology	83	17	80	20
Chemistry	86	14	81	19
Earth Science	83	17	74	26

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	374	138	150	<	32	0	87.4
<i>Economically Disadvantaged anytime</i>	200	41	89	<	26	0	80.5
<i>Homeless anytime</i>	11	0	<	<	<	0	72.7
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	125 / 33.16%	133 / 40.43%	138 / 40%
GED/ISAEP	11 / 2.92%	14 / 4.26%	13 / 3.77%	2.02%
Modified Standard Diploma	<	<	<	2.01%
Special Diploma	39 / 10.34%	36 / 10.94%	32 / 9.28%	2.56%
Standard Diploma	190/50.4%	139/42.25%	153/44.35%	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	88 / 5.91%	81 / 5.74%	203 / 14.75%	20.38%
Dual Enrollment Courses Taken	-	133 / 9.43%	219 / 15.92%	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	Pulaski County	0	0	0
	State	4,664	4,250	4,577
State Licensures	Pulaski County	13	5	10
	State	880	707	673
Industry Certification	Pulaski County	43	61	21
	State	28,586	32,582	39,658
Workplace Readiness	Pulaski County	99	141	163
	State	2,589	13,653	21,312
Total Credentials Earned	Pulaski County	155	207	194
	State	36,719	51,192	66,220
Students Earning One or More Credentials	Pulaski County	149	202	190
	State	30,613	42,218	56,247
CTE Completers	Pulaski County	270	237	229
	State	41,329	41,677	40,761

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

	2010-2011	2011-2012	2012-2013
Pulaski County			
Bachelor's Degree	51%	52%	52%
Master's Degree	46%	45%	45%
Doctoral Degree	2%	2%	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 (Pulaski County)^{xiv}

Type of Credential	# of Completions for Students of Pulaski County Origin			
	New River Community College	Wytheville Community College	Virginia Highlands College	All Public 2-Year in Virginia
Less than 1 Year	28	8	0	<i>Data Update Forthcoming</i>
1-2 Years	15	5	0	
Associate's (Bachelor's Credit)	31	2	1	
Associate's (Technical Credit)	51	5	0	
# 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 (Pulaski 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	1	N/A	N/A	N/A	<i>Data Update Forthcoming</i>	
Bachelor's 4-Year	20	44	2	0	85	15
Bachelor's 5-Year	0	N/A	N/A	N/A	0	N/A
Master's Degree	1	7	0	N/A	<i>Data Update Forthcoming</i>	
Doctoral Degree	0	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.