



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

Carroll 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	30,002	
Population between the Ages of 25 and 64	16,334	
Population Change (2002-2012)	591	
Employment and Income Data		
Population Participating in the Labor Force	14,131 (47.1%)	
Unemployment Rate	8.5%	
Per Capita Income	\$29,698	
Education Attainment (Population Est.)		
Less than 9 th Grade	2,573 (15.8%)	
9 th -12 th Grade, No Diploma	3,100 (19.0%)	
High School Graduate	7,788 (47.7%)	
Some College, no degree	3,956 (24.2%)	
Associate's Degree	1,934 (11.8%)	
Bachelor's Degree	1,845 (11.3%)	
Graduate or Professional Degree	936 (5.7%)	
Employment by Educational Attainment (25-64 Years Old)		
	<i>Estimated Number in Labor Force</i>	<i>Percentage Employed</i>
Less than High School Graduate	1,760	84.1%
High School Graduate	6,090	92.7%
Some College or Associate's Degree	3,865	92.5%
Bachelor's Degree or Higher	1,572	99.5%

Part B: Industry Data

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

LQ: >1= Above National Average Concentration of Employment

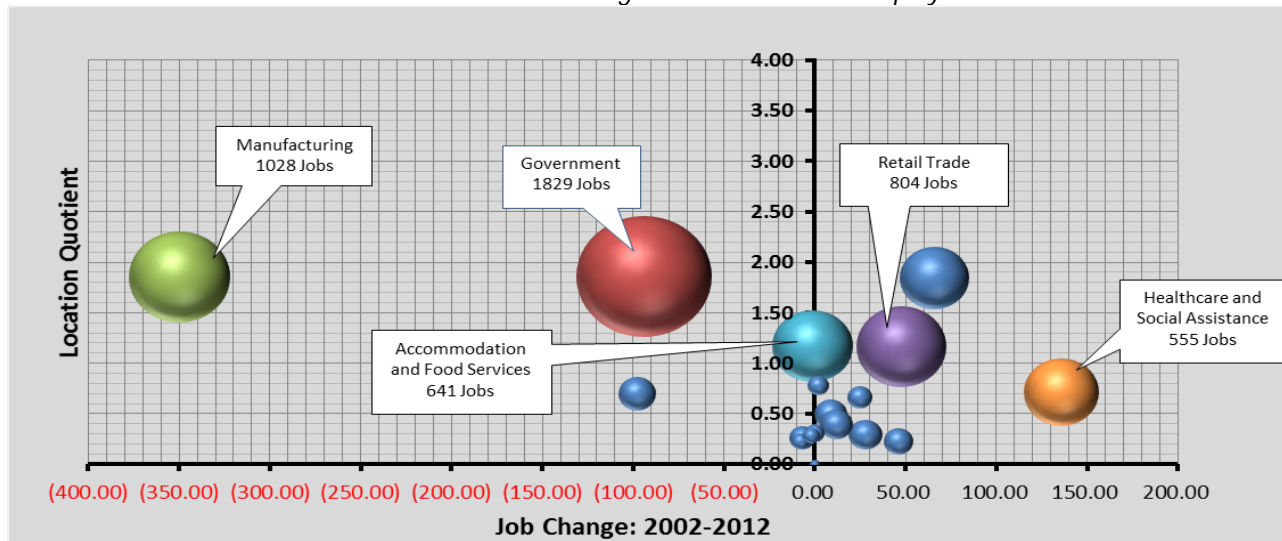


Table II: Top Ten Industries for Employment, by NAICS 3-Digitⁱⁱⁱ

	2002 Jobs	2012 Jobs	Change Jobs (2002-2012)	% of Change (2002-2012)	Average Wages, Salaries, & Proprietor Earnings
Local Government	1,232	1,170	(-62)	(-5%)	\$29,714
State Government	638	612	(-26)	(-4%)	\$31,914
Textile Mills	662	603	(-59)	(-9%)	\$25,686
Food Services and Drinking Places	476	487	11	2%	\$12,533
Heavy and Civil Engineering Construction	164	293	129	79%	\$45,305
Gasoline Stations	235	243	8	3%	\$15,155
Ambulatory Health Care Services	205	217	12	6%	\$45,297
Nursing and Residential Care Facilities	209	186	(-23)	(-11%)	\$24,714
Accommodation	166	154	(-12)	(-7%)	\$13,903
Social Assistance	<10	153	--	--	\$13,441

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	.1%	<10	1.6%
19-21 Years	24	2.4%	34	5.8%
22-24 Years	36	3.6%	24	4.1%
25-34 Years	153	15.2%	107	18.4%
35-44 Years	249	24.8%	143	24.7%
45-54 Years	278	27.7%	127	21.8%
55-64 Years	201	20.0%	89	15.4%
65+ Years	62	6.2%	48	8.2%

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.	Cashiers	291	21	4.74%	\$8.14	Short-term on-the-job training
2.	Combined Food Preparation and Serving Workers, Including Fast Food	270	20	4.40%	\$8.18	Short-term on-the-job training
3.	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	202	(-46)	3.29%	\$11.92	Moderate-term on-the-job training
4.	Retail Salespersons	175	49	2.85%	\$8.76	Short-term on-the-job training
5.	Correctional Officers and Jailers	165	3	2.69%	\$14.37	Moderate-term on-the-job training
6.	Office Clerks, General	142	2	2.31%	\$9.82	Short-term on-the-job training
7.	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	133	(-27)	2.17%	\$11.21	Moderate-term on-the-job training
8.	Construction Laborers	130	30	2.12%	\$11.08	Short-term on-the-job training
9.	Personal Care Aides	125	91	2.04%	\$8.05	Short-term on-the-job training
10.	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	125	34	2.04%	\$8.54	Short-term on-the-job training
	Total for Top 10 Jobs	1,758	177	28.65%	**	**
	Total for County (All Jobs)	6,136	(-185)	**	\$13.63	**

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. Cashiers	291	Gasoline Stations	57.7%	69.7%
		Food and Beverage Store	13.4%	34.9%
		Food Service and Drinking Places	6.1%	3.6%
2. Combined Food Preparation and Serving Workers, Including Fast Food	270	Food Service and Drinking Places	80.9%	44.9%
		Local Government	9.2%	2.1%
		Gasoline Stations	4.1%	4.6%
3. Textile Winding, Twisting, and Drawing Out Machine Setter, Operators, and Tenders	202	Textile Mills	100.0%	33.2%
4. Retail Salespersons	175	Building Material and Garden Equipment and Supplies Dealers	26.7%	39.2%
		Clothing and Clothing Accessories Stores	21.5%	71.4%
		Motor Vehicle and Parts Dealers	12.4%	22.0%
5. Correctional Officers and Jailers	165	State Government	85.3%	22.3%
		Local Government	14.5%	1.9%
6. Office Clerks, General	142	Local Government	21.2%	2.6%
		State Government	15.1%	3.6%
		Ambulatory Health Care Services	7.2%	4.2%
7. Textile Knitting and Weaving Machine Setters, Operators, and Tenders	133	Textile Mills	99.8%	22.1%
		Apparel Manufacturing	0.2%	38.6%
8. Construction Laborers	130	Heavy and Civil Engineering Construction	69.6%	30.5%
		Specialty Trade Contractors	17.8%	16.0%
		Construction of Buildings	8.0%	22.3%
9. Personal Care Aides	125	Social Assistance	71.4%	55.3%
		Ambulatory Health Care Services	15.3%	8.5%
		State Government	6.6%	1.5%
10. Janitors and Cleaners, Except Maids and Housekeeping Cleaners	121	Local Government	37.8%	4.2%
		Administrative and Support Services	36.4%	41.6%
		Accommodation	3.1%	2.7%

Part D: Education Data

Section I: Primary and Secondary School Data

Table VI: SOL Pass/Fail Rates for Elementary and Middle School – Carroll 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	64	36	N/A	N/A	59	41	81	19	85	15
<i>Virginia Average</i>	72	28	N/A	N/A	65	35	84	16	87	13
Grade 5	77	23	73	27	70	30	77	23	<	<
<i>Virginia Average</i>	73	27	71	29	69	31	75	25	82	18
Grade 8	73	27	73	27	34	66	80	20	--	--
<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		Carroll County (Carroll County High School)	
	Pass	Fail	Pass	Fail
English Reading	89	11	87	13
English Writing	87	13	88	12
Algebra I	76	24	49	51
Geometry I	76	24	71	29
Algebra II	76	24	68	32
Biology	83	17	84	16
Chemistry	86	14	71	29
Earth Science	83	17	<	<

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	311	134	137	<	<	0	91
<i>Economically Disadvantaged anytime</i>	180	49	97	<	<	0	86.7
<i>Homeless anytime</i>	<	<	<	0	<	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	137/51.89%	140/47.46%	132/46.32%
GED/ISAEP	<	<	<	2.02%
Modified Standard Diploma	<	<	<	2.01%
Special Diploma	<	<	<	2.56%
Standard Diploma	105/39.77%	138/46.78%	132/46.32%	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	32 / 2.66%	32 / 2.63%	57 / 4.78%	20.38%
Dual Enrollment Courses Taken	-	496 / 40.79%	474 / 39.73%	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	Carroll County	54	51	18
	State	4,664	4,250	4,577
State Licensures	Carroll County	12	6	10
	State	880	707	673
Industry Certification	Carroll County	237	252	220
	State	28,586	32,582	39,658
Workplace Readiness	Carroll County	23	56	154
	State	2,589	13,653	21,312
Total Credentials Earned	Carroll County	326	365	402
	State	36,719	51,192	66,220
Students Earning One or More Credentials	Carroll County	228	288	289
	State	30,613	42,218	56,247
CTE Completers	Carroll County	192	201	195
	State	41,329	41,677	40,761

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

	2010-2011	2011-2012	2012-2013
Carroll County			
Bachelor's Degree	51%	51%	51%
Master's Degree	47%	44%	46%
Doctoral Degree	1%	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 (Carroll County)^{xiv}

Type of Credential	# of Completions for Students of Carroll County Origin			
	New River Community College	Wytheville Community College	Virginia Highlands College	All Public 2-Year in Virginia
Less than 1 Year	2	72	0	<i>Data Update Forthcoming</i>
1-2 Years	4	99	0	
Associate's (Bachelor's Credit)	1	35	0	
Associate's (Technical Credit)	5	35	1	
# 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 (Carroll County)^{xv}

Type of Credential	Virginia Tech	Radford University	Emory and Henry College (Data for 2011-2012 Only)	Virginia Intermont	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	10	19	0	0	41	17
Bachelor's 5-Year	0	N/A	N/A	N/A	0	N/A
Master's Degree	0	12	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.