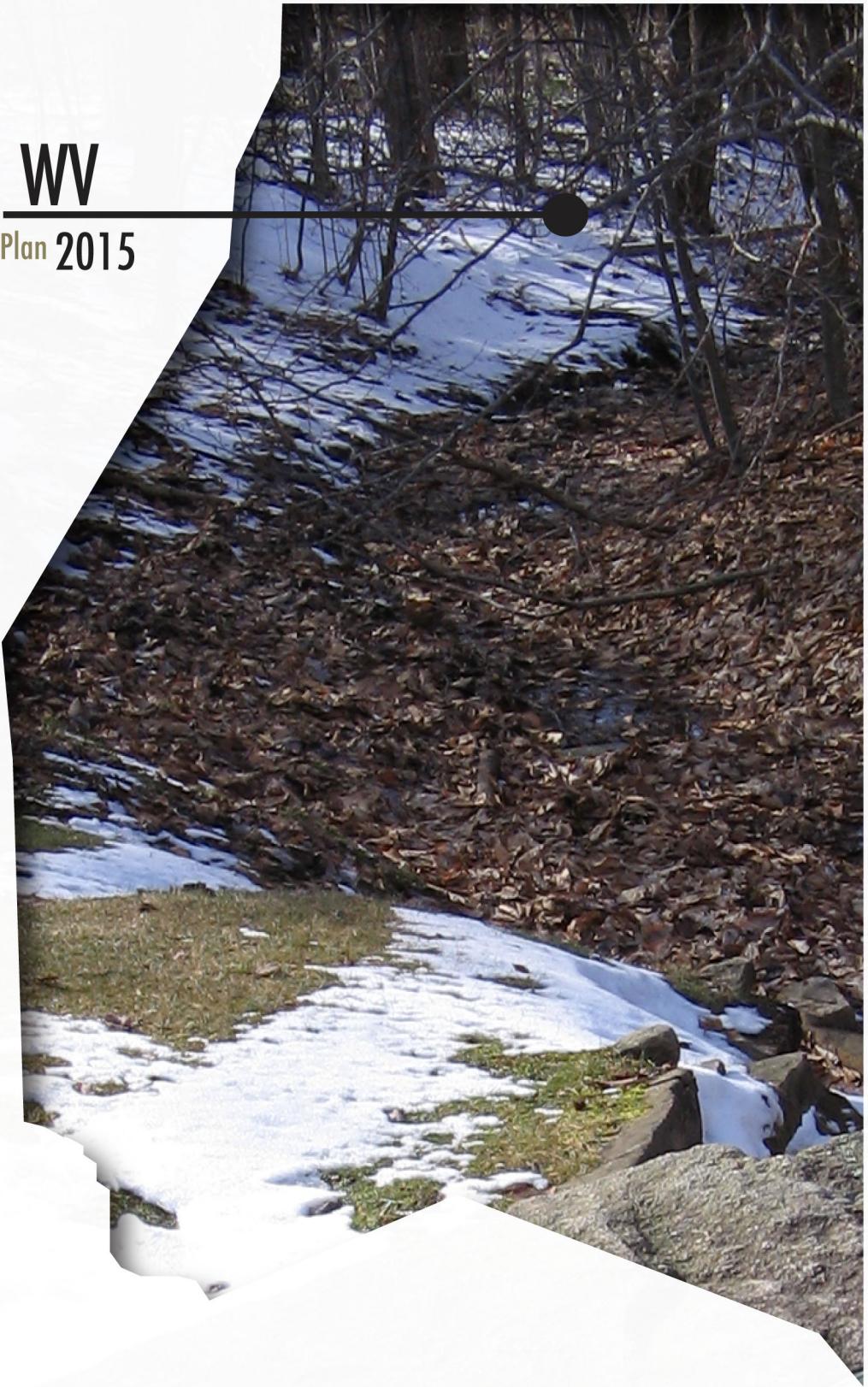


Preston County, WV

Land Use Master Plan 2015



Office of Coalfield Community Development
WV Division of Energy

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Executive Summary

This Land Use Master Plan (LUMP) conveys information on Preston County's current demographic and geographic status. This plan will be used to evaluate the potential of post-mine sites for development, and evaluate Preston County's investment position.

Senate Bill (SB) 603 mandates the development of a LUMP by counties with surface mining operations. The LUMP will be an effective tool towards achieving Preston County's development goals. The Nick J. Rahall Appalachian Transportation Institute (RTI) coordinates with the Office of Coalfield Community Development to provide this essential information. Three post-mine developments are currently in operation in Preston County—two business and industrial parks and one federal prison. This plan will help Preston take advantage of its other post-mine sites in just as varied a manner.

Preston County's population has been on the rise since 2000 after experiencing a period of decline in the 1980s and 1990s and is expected to increase through at least 2030. The County's median age and age distribution are average for the State, indicative of a population capable of productivity in the labor force. However, as with many other counties and the State as a whole, Preston is expected to experience an aging population in coming years.

Recent employment consists mainly of Government, Trade, Transportation, and Utilities, and Construction, and the same

three sectors comprise the largest by total annual wages. Preston County total wages have been on the rise since the early 2000s, with increases in the Government and Construction sectors largely driving this increase. Of particular note is the amount of income, as opposed to wages, derived from government transfers. In 2013, more than one-quarter of Preston County personal income was derived from government transfers. Preston County is not alone in this situation, as West Virginia finds many of its counties deriving almost a third of their incomes from government transfers.

Preston County's total enrollment experienced overall decline from the 2002-2003 to the 2012-2013 school years. The County's dropout rate also experienced overall decline from the 2005-2006 to 2012-2013 school years. Approximately 17 percent of Preston County residents aged 25 years and older do not have a high school diploma.

Utility prices are varied throughout the county, and this plan provides municipal and private rates for electricity, sewer, and water. Broadband, an increasingly important utility in the age of globalization, is highlighted to show the necessity for improvement and access, and showcase the developable properties of this utility.

Transportation is an important issue in any development strategy. Preston County has one interstate, two U.S. Routes, and five State Routes. The County does have some

rail presence, but does not have any airports within its borders.

Preston County also has 12 historic sites in the National Register and several pieces of historic architecture designated by the State. Historic preservation can be a basis for tourism, cultural identity, and community cohesion.

This plan also reviews energy and environmental issues in Preston County. The environment of the County should be considered in an overall development strategy. Preston County has some scattered forested areas and produces some wood by-products. The County also has a few scattered areas of state and national forests. Preston County is also not on the list of air pollution non-attainment areas, which is a positive attribute. Preston has a small number of completed Marcellus Shale wells, as well as several more that are permitted, and has a higher favorability for enhanced geothermal drilling. However, Preston appears to have very little potential among wind and solar renewable energy resources, although small portions of the County are receive “good” rankings for wind potential.

This information is as critical as the site information for several reasons. One is that development is not a process that can occur in a vacuum. Without understanding the resources available in the county, and the demand for more investment, money will end up wasted. Another is that investment requires active partners who will need information on each of the county’s essential demographic topics to determine their level of risk. Without this, investors will not be

persuaded to enter the county. Finally, this information can help policy makers target their land use strategies to any of these topics, as long as they understand the situation.

Site analysis is integral to this report. Researchers identified all the post mine sites given certain criteria for Preston County, including those sites that fit the County’s unique geographic, demographic, and economic position. The researchers combined a distance analysis using a scoring system based on distance to certain essential utilities and features, which were approved by the development director. These scores were summed and plotted. A workforce analysis was conducted to determine available labor within certain radii for each site, and a retail analysis was conducted to determine which areas had the most retail activity.

The top five mine sites were then identified, and are displayed individually. Map A contains the top five sites within a view of the County.

The tables below are comprehensive comparisons between the top five post-mine lands for potential development Tables A, B and C compare results between the top five potential development sites, as determined by suitability analysis of all post-mine lands in the county. In Table A, distances for each variable are compared between sites to give an idea of the more suitable site for specific criterion under consideration. For example, if we want to identify the site located closest to power lines, the distance measurements

from each site to the nearest power line is listed in Table A.

Table B shows the total weighted score. The mining sites considered as the best candidates for potential redevelopment are the five with the highest total weighted score.

Table C illustrates how each criterion contributes to the final total score and the importance of the weights. A scale of values, based on ideal distances for each criteria, is used to calculate the total

Absolute score. The Relative scale is calculated by comparing each site in relationship to others instead of set distances. Because of the assumption that one criterion may be more important than others (different weights), the rank order of the sites absolute and relative scores can change once the weights for each criteria are mathematically applied. A high or low value in a heavily weighted criteria can dramatically raise or lower a sites total weighted score.

Table A: Distances Comparison Between Top Five Sites for Potential Development

Suitability Ranking	1	2	3	4	5	Weight
Broadband	1.99	2.16	1.16	1.61	1.02	9
Gas Pipes	5.60	5.70	7.63	6.19	0.27	6
National Waterway Network	18.21	17.36	12.54	16.67	30.23	4
Pipe Lines	0.23	0.62	1.43	0.52	0.36	6
Power Lines	0.41	0.01	0.48	0.77	0.09	10
Railroads	0.88	0.47	6.37	1.43	0.56	5
Sewer Lines	0.08	0.15	0.88	0.68	1.64	8
Water Lines	0.01	0.02	0.24	0.23	0.05	10
Existing Highway	0.67	0.16	0.59	0.31	0.53	8
Intermodal Terminal Facilities	21.56	20.70	15.87	20.02	33.59	6
Interstate	14.74	14.43	9.80	13.94	18.90	8
Sewer Treatment Facilities	1.21	0.36	1.44	1.07	3.71	7
Solid Waste Treatment Facilities	3.44	3.13	2.99	4.05	12.05	8

Table B: Total Score Comparison Between Top Five Sites for Potential Development

Suitability Ranking	1	2	3	4	5	Weight
Broadband	31.5	22.5	63	47.25	63	9
Gas Pipes	1.5	1.5	1.5	1.5	60	6
National Waterway Network	3	3	4	3	1	4
Pipe Lines	60	30	4.5	30	42	6
Power Lines	75	100	75	52.5	100	10
Railroads	50	50	2.5	35	50	5
Sewer Lines	80	80	80	80	56	8
Water Lines	100	100	100	100	100	10
Existing Highway	80	80	80	80	80	8
Intermodal Terminal Facilities	22.5	22.5	42	22.5	4.5	6
Interstate	10	20	28	28	10	8
Sewer Treatment Facilities	70	70	70	70	24.5	7
Solid Waste Treatment Facilities	80	80	80	80	14	8
Total Weighted Score	663.5	659.5	630.5	629.75	605	

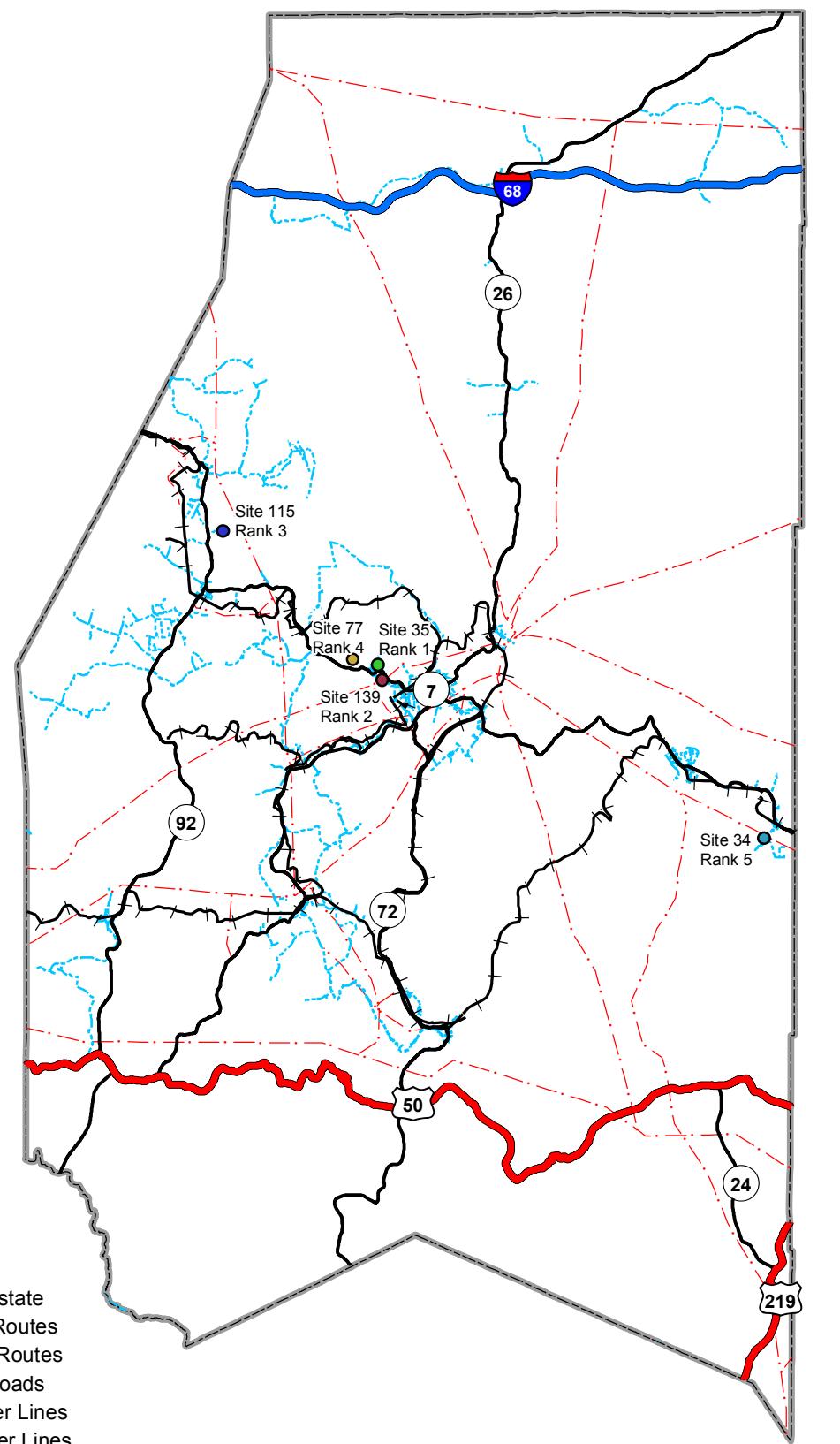
Table C: Absolute/Relative Score Comparison Between Top Five Sites for Potential Development

Suitability Ranking	1	2	3	4	5	Weight
Broadband	7	5	7	7	7	9
Gas Pipes	1	1	1	1	10	6
National Waterway Network	1	1	1	1	1	4
Pipe Lines	10	5	1	5	7	6
Power Lines	10	10	10	7	10	10
Railroads	10	10	1	7	10	5
Sewer Lines	10	10	10	10	7	8
Water Lines	10	10	10	10	10	10
Existing Highway	10	10	10	10	10	8
Intermodal Terminal Facilities	5	5	7	5	3	6
Interstate	5	5	7	7	5	8
Sewer Treatment Facilities	10	10	10	10	7	7
Solid Waste Treatment Facilities	10	10	10	10	7	8
Total Absolute Score	99	92	85	90	94	

Suitability Ranking	1	2	3	4	5	Weight
Broadband	5	5	10	7.5	10	9
Gas Pipes	2.5	2.5	2.5	2.5	10	6
National Waterway Network	7.5	7.5	10	7.5	2.5	4
Pipe Lines	10	10	7.5	10	10	6
Power Lines	7.5	10	7.5	7.5	10	10
Railroads	10	10	5	10	10	5
Sewer Lines	10	10	10	10	10	8
Water Lines	10	10	10	10	10	10
Existing Highway	10	10	10	10	10	8
Intermodal Terminal Facilities	7.5	7.5	10	7.5	2.5	6
Interstate	2.5	5	5	5	2.5	8
Sewer Treatment Facilities	10	10	10	10	5	7
Solid Waste Treatment Facilities	10	10	10	10	2.5	8
Total Relative Score	102.5	107.5	107.5	107.5	95	

Top Five Sites for Potential Development

Preston County



- Mining Site**
- Site 35
 - Site 139
 - Site 115
 - Site 77
 - Site 34
- Legend**
- Interstate
 - US Routes
 - WV Routes
 - Railroads
 - Water Lines
 - Power Lines
 - County Boundary

Source: Rahall Transportation Institute Analysis 2015

0 1.5 3 6 9 12 Miles



Site's General Info.

Permittee	K. C. Coal Co
Facility Name	N/A
Permit ID	C000985
Issue Date	12/19/1985
Expiration Date	12/19/1990
Current Acres	N/A
Lat	39° 28'53.0000"
Long	79° 42'23.0000"
Nearest Post Office	Unknown

Site Number	35
Suitability Ranking	1
Total Score	663.5

Distance Analysis Results

Broadband	1.99
Gas Pipes	5.60
National Waterway Network	18.21
Pipe Lines	0.23
Power Lines	0.41
Railroads	0.88
Sewer Lines	0.08
Water Lines	0.01
Existing Highway	0.67
Intermodal Terminal Facilities	21.56
Interstate	14.74
Sewer Treatment Facilities	1.21
Solid Waste Treatment Facilities	3.44

Site number 35 should be the first choice for potential development. The distance from the site to gas pipes, sewer treatment facilities, and solid waste treatment facilities are about average. The site still has the highest total score since it is located quite close to several other major criteria such as water lines (0.01 miles) and sewer lines (0.08 miles).



Site's General Info.

Permittee	J.E.B., Inc
Facility Name	N/A
Permit ID	S106386
Issue Date	10/27/1986
Expiration Date	10/27/1991
Current Acres	42
Lat	39° 28'32.0000"
Long	79° 42'15.0000"
Nearest Post Office	Unknown

Site Number	139
Suitability Ranking	2
Total Score	659.5

Distance Analysis Results

Broadband	2.16
Gas Pipes	5.70
National Waterway Network	17.36
Pipe Lines	0.62
Power Lines	0.01
Railroads	0.47
Sewer Lines	0.15
Water Lines	0.02
Existing Highway	0.16
Intermodal Terminal Facilities	20.70
Interstate	14.43
Sewer Treatment Facilities	0.36
Solid Waste Treatment Facilities	3.13

Site number 139 is listed as the second suitable site for post-mine land development. The site is fairly close to several important criteria. It is 0.01 miles to a power line (10 pts. in the suitability model) and only 0.02 miles to water lines (10 pts.). Even though the site is farther than average to Interstates and broadband, short distances to other factors still make it a good choice for development.



Site's General Info.

Permittee	Volkstone Co
Facility Name	N/A
Permit ID	S101388
Issue Date	9/26/1988
Expiration Date	9/26/1993
Current Acres	N/A
Lat	39° 31'50.0000"
Long	79° 47'21.0000"
Nearest Post Office	Unknown

Site Number	115
Suitability Ranking	3
Total Score	630.5

Distance Analysis Results

Broadband	1.16
Gas Pipes	7.63
National Waterway Network	12.54
Pipe Lines	1.43
Power Lines	0.48
Railroads	6.37
Sewer Lines	0.88
Water Lines	0.24
Existing Highway	0.59
Intermodal Terminal Facilities	15.87
Interstate	9.80
Sewer Treatment Facilities	1.44
Solid Waste Treatment Facilities	2.99

Site number 115 is ranked as the third most suitable site for post-mine land development in the County. There are a few advantages of the site including short distances to national waterway network (12.54 miles), intermodal terminal facilities (15.87 miles), and Interstate (9.8 miles). However, railroad access is slightly farther from the site's center (6.37 miles).



Site's General Info.

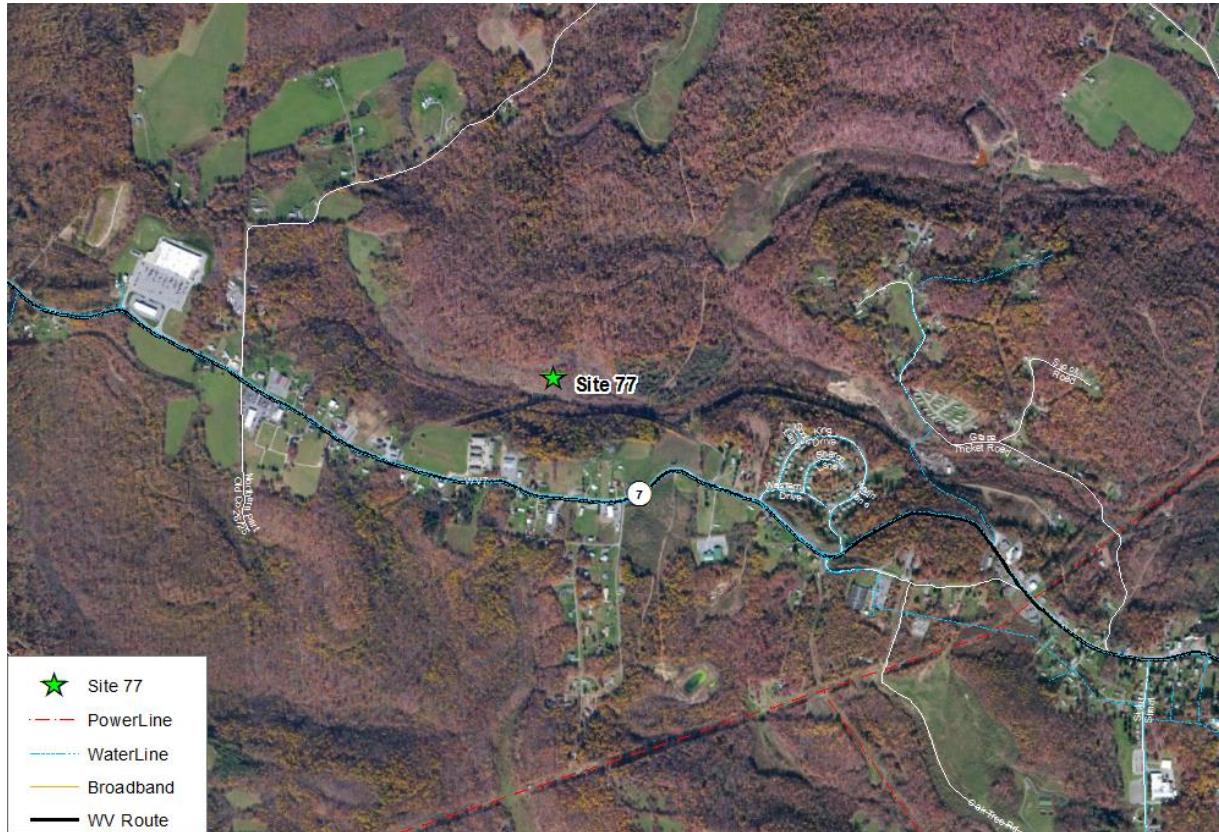
Permittee	Lewis Coal And Coke Co
Facility Name	N/A
Permit ID	S003875
Issue Date	2/7/1975
Expiration Date	2/7/1980
Current Acres	N/A
Lat	39° 29'0"
Long	79° 43'11.0000"
Nearest Post Office	Unknown

Site Number	77
Suitability Ranking	4
Total Score	629.75

Distance Analysis Results

Broadband	1.61
Gas Pipes	6.19
National Waterway Network	16.67
Pipe Lines	0.52
Power Lines	0.77
Railroads	1.43
Sewer Lines	0.68
Water Lines	0.23
Existing Highway	0.31
Intermodal Terminal Facilities	20.02
Interstate	13.94
Sewer Treatment Facilities	1.07
Solid Waste Treatment Facilities	4.05

Site number 77 has the fourth highest score in the suitability model for its relative close distances to several criteria including existing highways (0.31 miles), intermodal terminal facilities (20.02 miles), and sewer treatment facilities (1.07 miles). All of those criteria receive high absolute points. The distances from the site to other important criteria, such as broadband and solid waste treatment facilities, are above average (4.05 miles).



Site's General Info.

Permittee	Grafton Coal Company
Facility Name	N/A
Permit ID	S001575
Issue Date	1/23/1975
Expiration Date	1/23/1980
Current Acres	11.75
Lat	39° 25'0"
Long	79° 30'0"
Nearest Post Office	Unknown

Site Number	34
Suitability Ranking	5
Total Score	605

Distance Analysis Results

Broadband	1.02
Gas Pipes	0.27
National Waterway Network	30.23
Pipe Lines	0.36
Power Lines	0.09
Railroads	0.56
Sewer Lines	1.64
Water Lines	0.05
Existing Highway	0.53
Intermodal Terminal Facilities	33.59
Interstate	18.90
Sewer Treatment Facilities	3.71
Solid Waste Treatment Facilities	12.05

Site number 34 has the fifth highest score in the suitability model. The site is located close to utility features such as broadband (1.02 miles), gas pipes (0.27 miles), pipe lines (0.36 miles), and power lines (0.09 miles), which makes the site suitable for consideration as a future residential area. The only disadvantage is the above average distance to existing highway (0.53 miles).



I. Introduction

Senate Bill (SB) 603, passed in the 2001 Legislative Session, mandates the development of a Land Use Master Plan (LUMP) by counties with surface mining operations. The creation of a LUMP would facilitate the development of economic or community assets, secure developable land and infrastructure, and ensure that post-mining land use proposed in any reclamation plan is in compliance with the specified land use in the approved LUMP. In order to promote acceptable principles of smart growth within the desired community it has become evident that a sustainable land use plan is needed to determine development needs within a community. The detailed document addresses the physical development needs of properties within the coalfield counties and provides guidelines, strategies, and a framework for future decisions relating to land use and projected community needs.

The 1977 Surface Mining Control and Reclamation Act established a program for the regulation of surface mining activities and the reclamation of coal-mined lands. The Act requires that coal operators minimize the disturbance and adverse impact on the environment and community in addition to restoring the mined property to its approximate original contour. Special provisions are granted for operators who offer development plans for post-mining land use, in which the coal operators (private sector) make capital investments towards land development that would benefit the community (public sector) affected by the mining operations. This unique opportunity, also known as Public-Private Partnership (P3), has far-reaching consequences on those communities with coal mining operations. The operators utilize the LUMP, created by the county officials with post-mine land use in mind, to gain insight into the land and infrastructure needs of the local community and then materialize the development opportunities described in the LUMP. The LUMP leverages private investment to facilitate public development, which is critical to the sustainability of counties and communities. Community sustainability requires a transition from poorly managed land to land-use planning practices that create and maintain efficient infrastructure, ensure close-knit neighborhoods and sense of community, and preserve natural systems.

RTI, a nationally recognized center of excellence for rural transportation research, was established through the Transportation Equity Act for the 21st Century passed by Congress in 1998 and is funded through a grant from the Research and Innovative Technology Administration (RITA) of the US Department of Transportation. As a University Transportation Center, RTI has cultivated relationships with private industry and public agencies to leverage resources, technology and strategic thinking to improve mobility and to stimulate economic development. RTI has taken the lead in conducting site-specific research, supporting multimodal planning and analysis to improve mobility and global connectivity for rural regions. The Office of Coalfield Community Development (OCCD) was created by the 1999 Legislative Session to assist communities affected by surface mining activity throughout the State. With the passage of SB 603 in 2001, the responsibilities of the OCCD changed to include working with local economic development agencies to develop land use master plans and include the

recommendations of local economic redevelopment authorities in the reclamation plans of surface mine permits. The OCCD established criteria to consider development of these sites, provided for certain land uses as post-mining land uses and stipulated that master plans must comport to environmental reclamation requirements. The office allows existing and future surface mining permits to include master plan criteria and reclamation standards.

This plan provides information and analysis specifically for Preston County. Preston County's economy is comprised mainly of employment and activities in the Government, Construction, and Trade, Transportation, and Utilities sectors. The resulting combination has led to a constant increase in total wages. However, an aging population and limited employment diversification should still be considered. This plan will put focus on these issues, encouraging an analysis of the range of options available to policymakers, including land use planning.

This plan, including both the demographic and post-mine site analysis, requires data gathered from professional, secondary sources. Every attempt has been made to verify the accuracy of this data. However, the datasets are subject to differing methodologies, third-party error, and changes in time. Any and all information should be verified for accuracy.

II. Planning Area

Established by the Virginia General Assembly in 1818, Preston County was formed 45 years before West Virginia became a state. It was named for the governor of Virginia, James Patton Preston. In its early years, the northern portion of the county was served by the National Road. In the 1850s, however, the introduction of the Baltimore and Ohio (B&O) Railroad supplied a method of transport for Preston's abundance of resources (particularly coal and timber products). A hundred years after the arrival of the railroad, the construction of Interstate 68 and an assortment of other roads and bridges began to ease travel across the County's challenging terrain. Although coal, timber, and agriculture remain important aspects of the Present County economy, technology, tourism, historic preservation, health care, and education have all emerged as contributors.¹

III. Existing Conditions

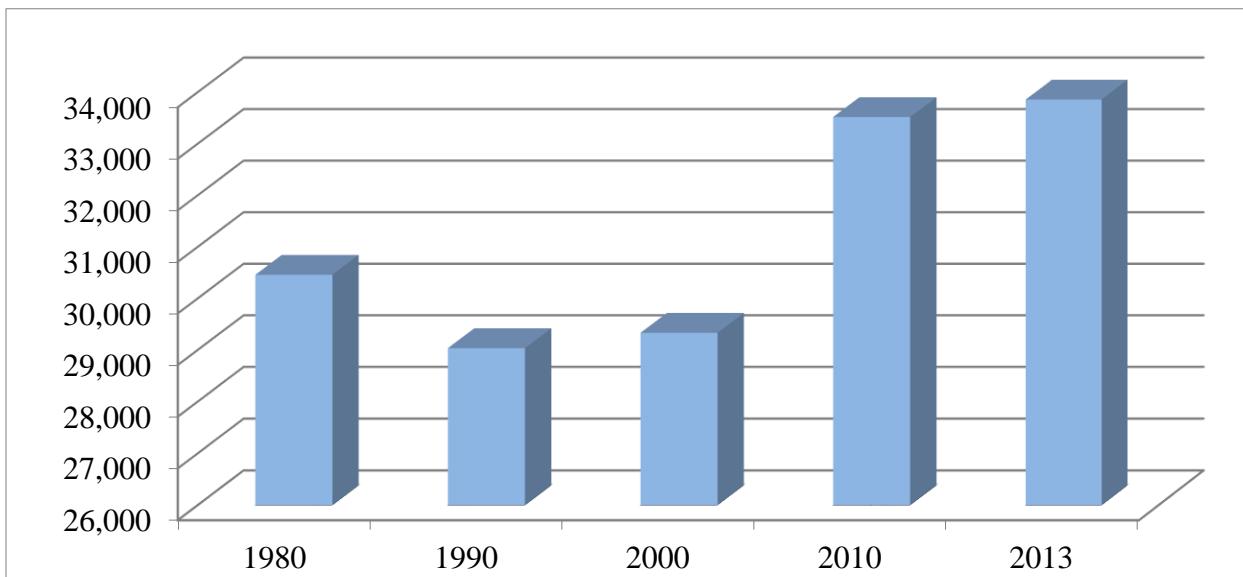
This information will provide a background understanding of the demographic trends in the county. This base information is meant to provide overall detail on Preston County's status as it stands. Part IV will deal with possible future site development information, to be considered with the demographic data to target strategies for investment.

¹ Sisler, Janice. 2013. "Preston County." e-WV: The West Virginia Encyclopedia. Accessed March 13, 2015.

Population

The population of Preston County was nearly 34,000 in 2013 according to Stats Indiana, ranking it 17th in county population among the 55 counties in West Virginia.² The decennial censuses show that Preston County lost population from 1980 to 2000, but has resumed growth into the 2000s through 2013.

Figure 1: Census Populations for Preston County

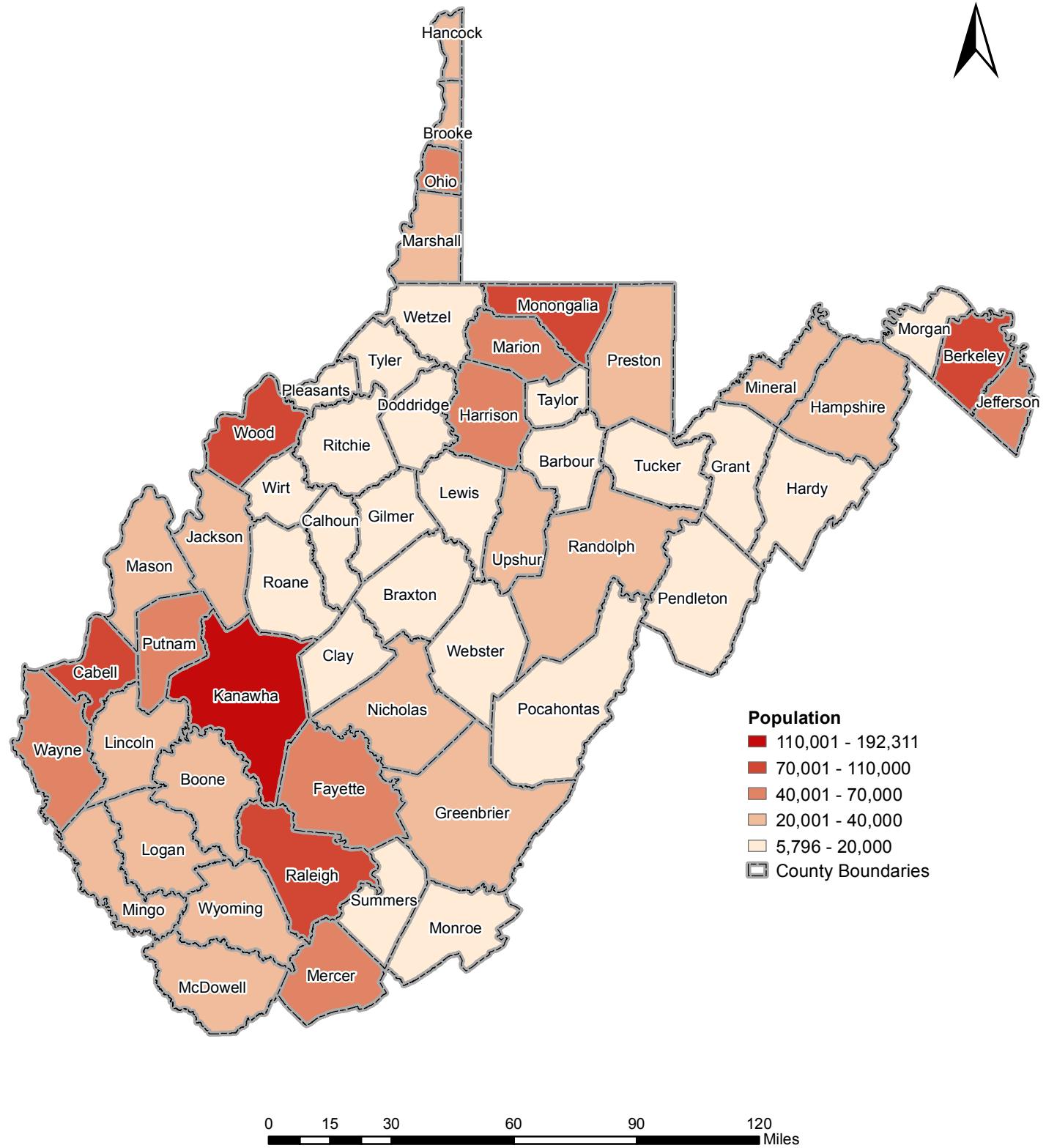


Source: Stats Indiana, USA Counties in Profile

Map 1 illustrates the Preston County population compared to West Virginia overall. Preston's population is below average for the State, but not among the least populated counties.

² U.S. Census Bureau, “2013 American Community Survey 5-year Estimates,” Accessed January 19, 2015, www.factfinder2.census.gov

Demographic Population



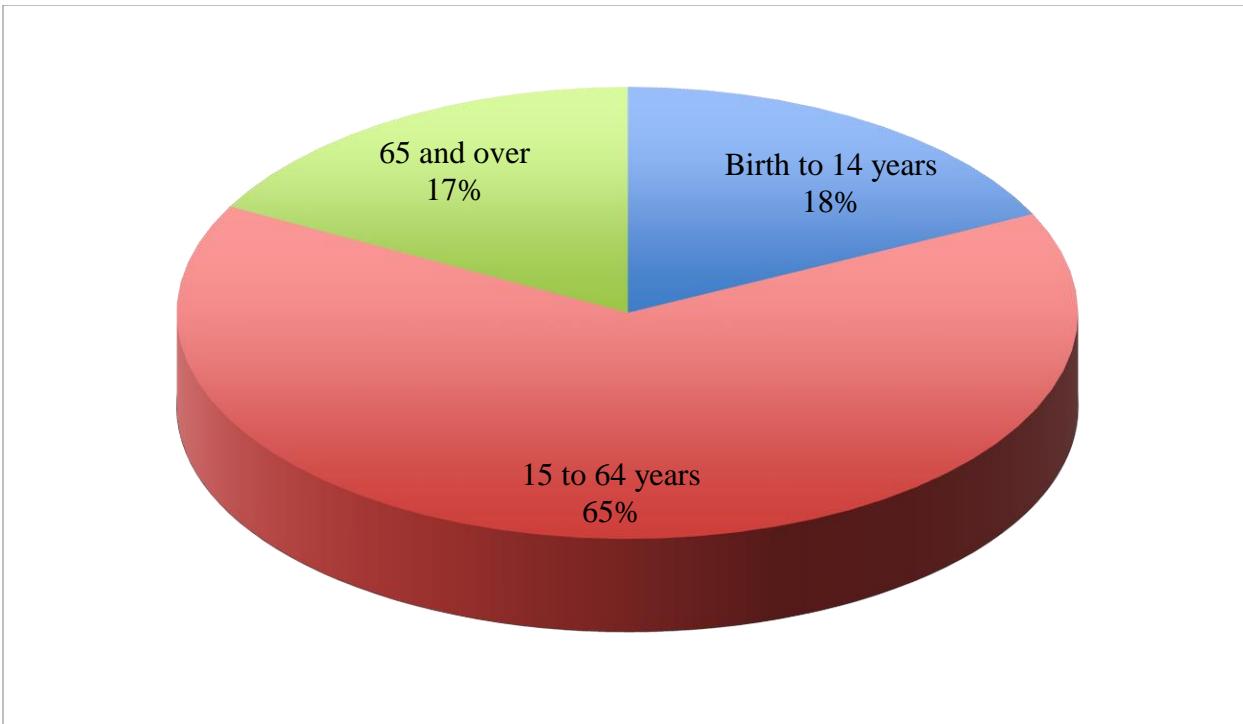
Source: U.S. Census Bureau, 2009-2013 American Community Survey

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According to the ACS, approximately 23 percent of Preston County residents are 60 years of age and over, while 14 percent are between 5 and 17 years of age and just over 5 percent are below the age of 5. Approximately 5,500 people (or 16 percent) are of retirement age. The median age in Preston is 42, which is very near the median age of the State (Map 2). The majority of the population is of prime working age, as denoted in Figure 2.

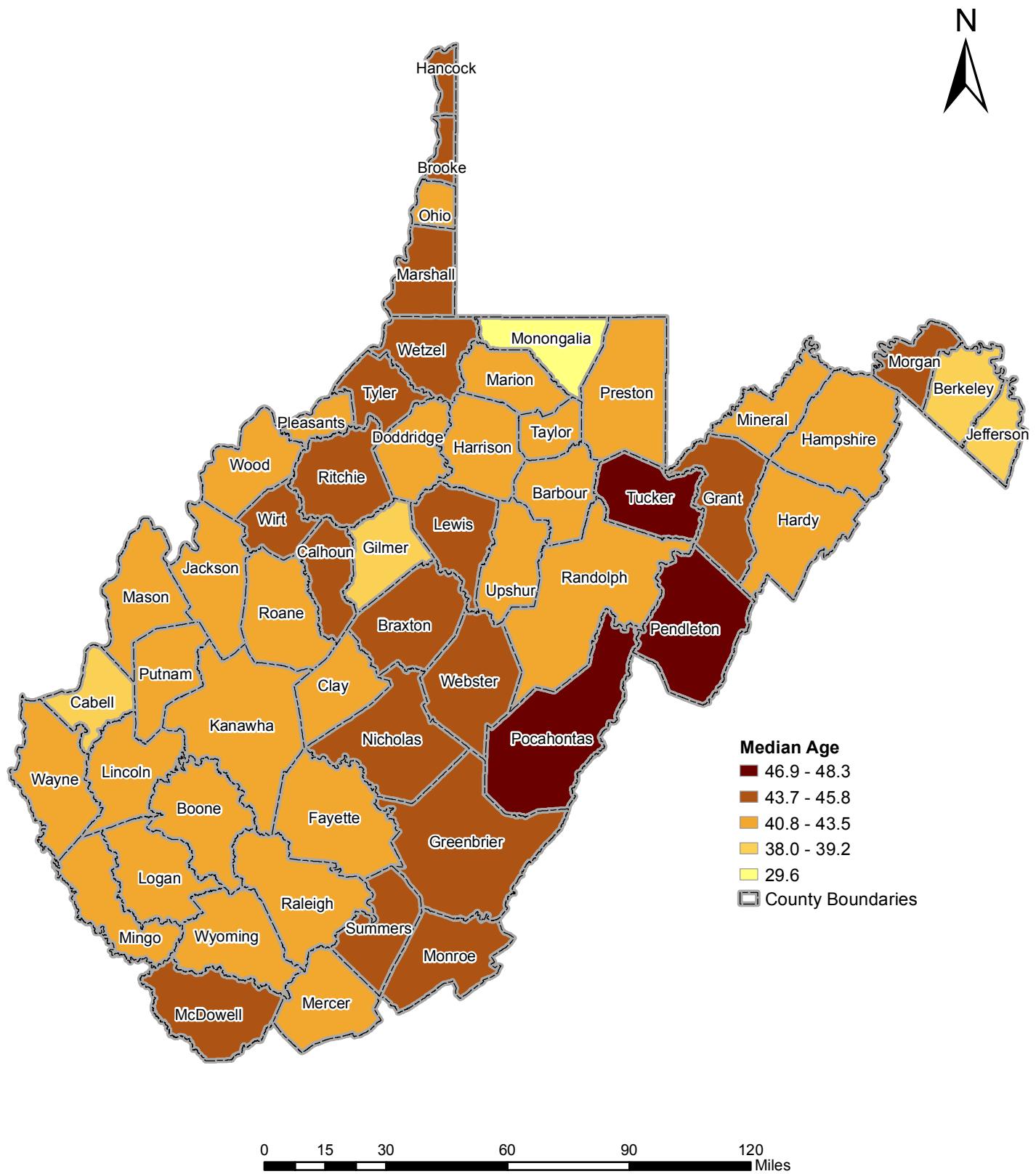
Figure 2: Preston County Age Breakdown



Source: 2013 American Community Survey 5-Year Estimate Calculation

Demographic

Median Age



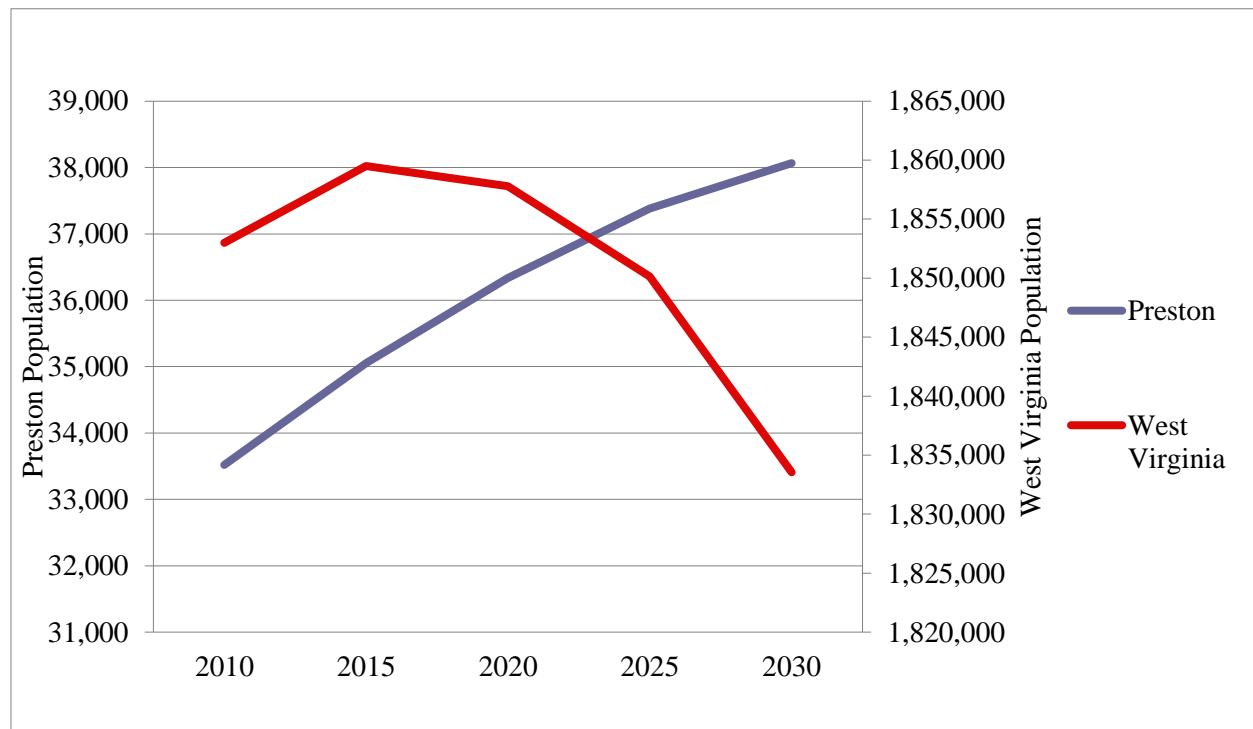
Source: U.S. Census Bureau, 2009-2013 American Community Survey

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The Bureau of Business and Economic Research at West Virginia University projects a 13.6 percent increase in the Preston County population between 2010 and 2030, which is significantly higher than the projected decline of 1.1 percent expected for West Virginia.³ The model for the projection is based on past population patterns and statistics, and should not be taken as permanent. The projected increase is expected to occur smoothly over these decades.

Figure 3: Population Projections



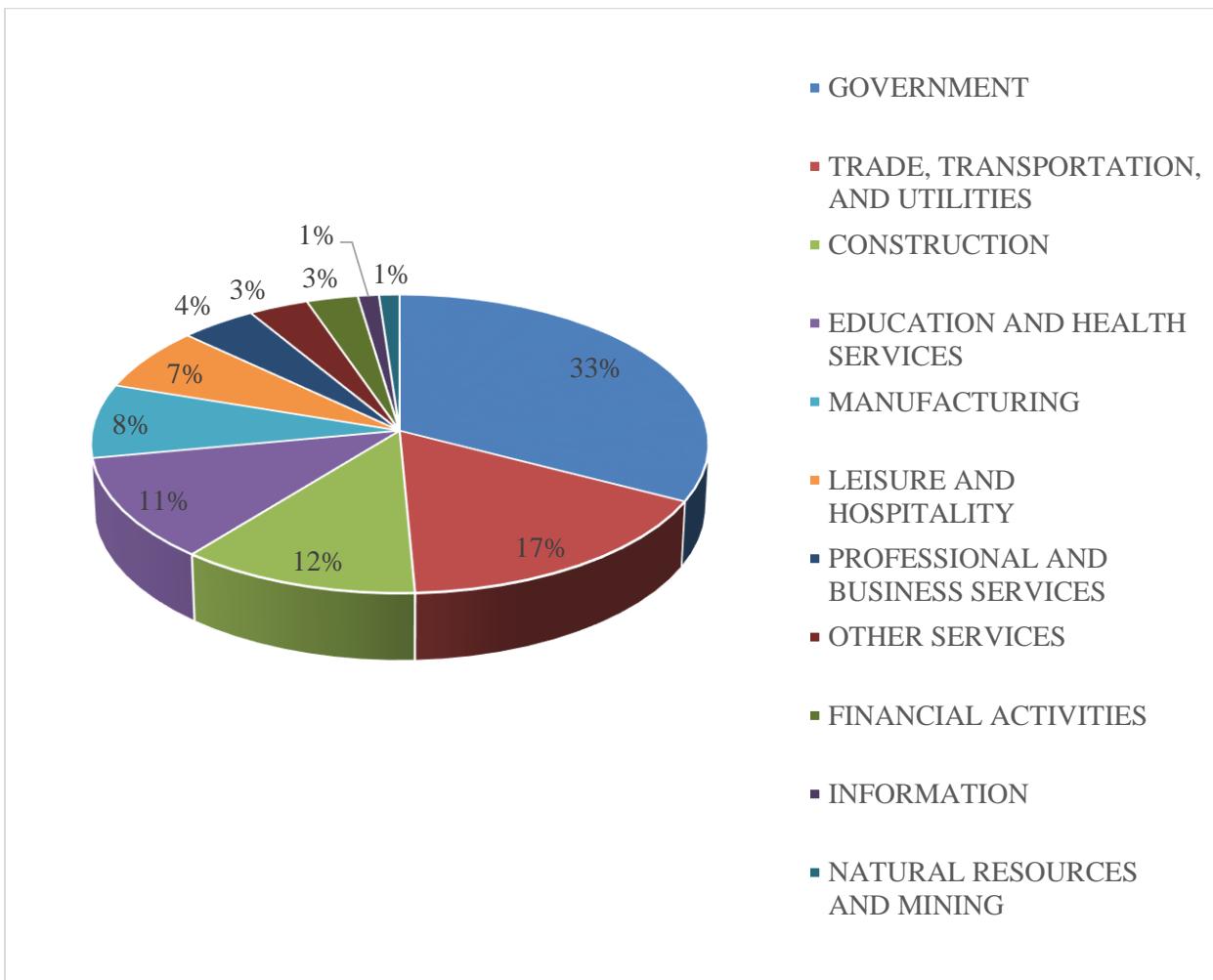
Source: WVU Bureau of Business and Economic Research

³ Christiadi, Deskins, J. and Lego, B. "Population Trends in West Virginia through 2030." Bureau of Business and Economic Research, College of Business and Economics, West Virginia University, Morgantown, WV (March 2014).

Employment

Workforce West Virginia has a complete dataset on employment numbers and wages. The total number of employed in Preston County in 2013 was 6,852. Approximately 33 percent of wage earners in Preston County worked in Government and approximately 17 percent worked in Trade, Transportation, and Utilities. Along with Construction and Education and Health Services, these four industries comprise nearly three-quarters of Preston County's total employment, suggesting a less-diversified mix of industry employment.

Figure 4: 2013 Preston County Employment

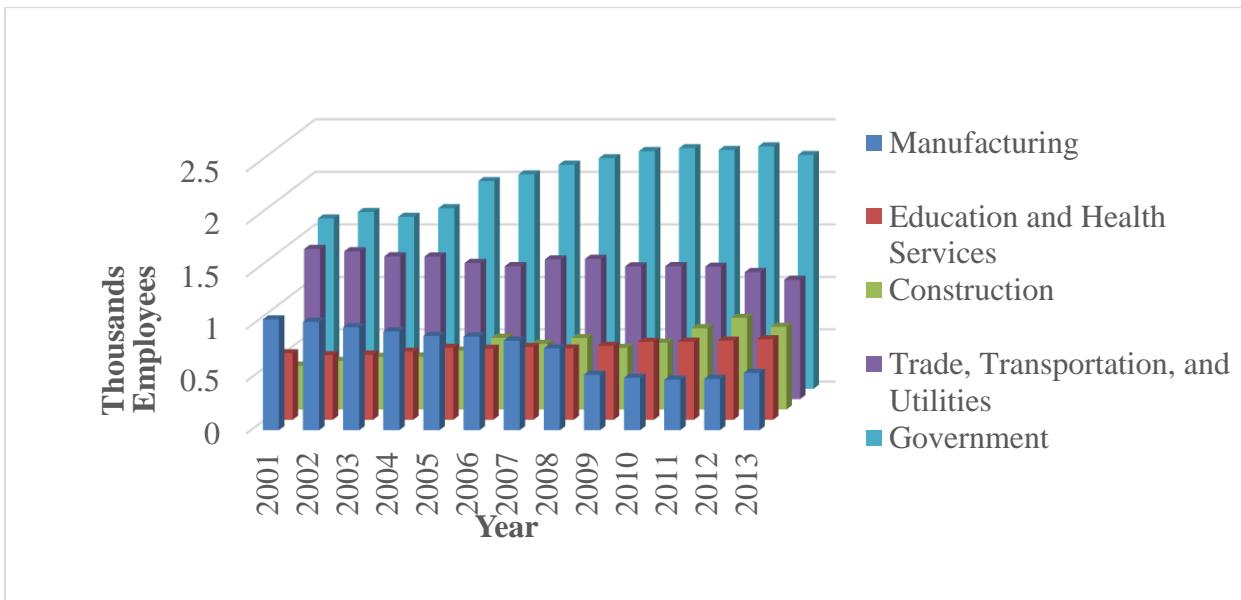


Source: Workforce West Virginia

The current top five sectors have generally been the top five employers over the past decade in Preston County. Construction has seen the largest growth (of nearly 90 percent since 2001). Employment in Trade, Transportation, and Utilities and Manufacturing experienced declines of approximately 20 percent and 48 percent, respectively, over this time period. Although already experiencing decline, the Manufacturing sector in particular was particularly affected by the economic downturn from 2008 to 2010. Despite declining nearly 14 percent from 2008 to 2009,

employment in the Construction sector rebounded by approximately 34 percent from 2009 to 2013.

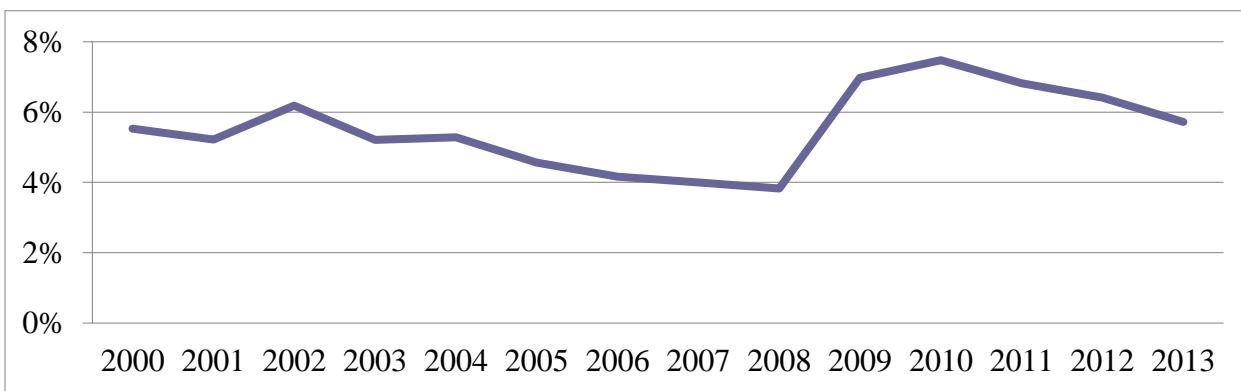
Figure 5: Preston County Employment by 5 Sectors 2001-2012



Source: Workforce West Virginia

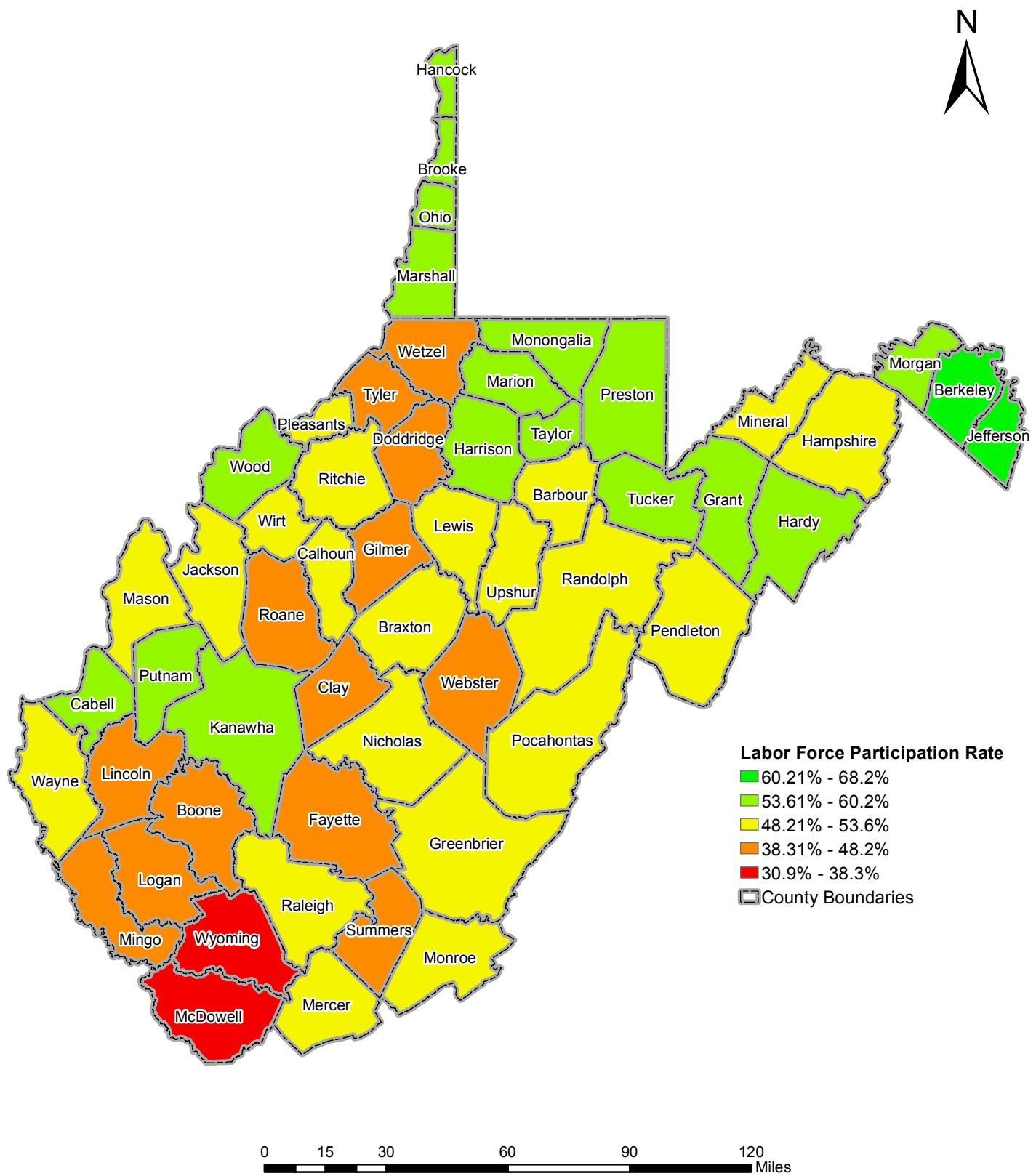
The civilian labor force in the County is one of the most interesting statistics when determining potential investors. As Map 3 shows, Preston's participation rate is higher than most counties in the State. One component of the labor force, the unemployment rate, shows a fairly steady decline from the early 2000s to 2008. As with most areas, Preston experienced a sudden increase in the unemployment rate in 2008 (see Figure 6). Unemployment in this County increased through 2010 then began to fall through 2013. Note that Bureau of Labor Statistics data is used for this graph and Census data is used for Map 4. These data differ as the Census is reporting a five-year estimate that includes the increase noted during the recent economic recession.

Figure 6: Preston County Unemployment Rate



Source: Bureau of Labor Statistics

Demographic Labor Force Participation Rate

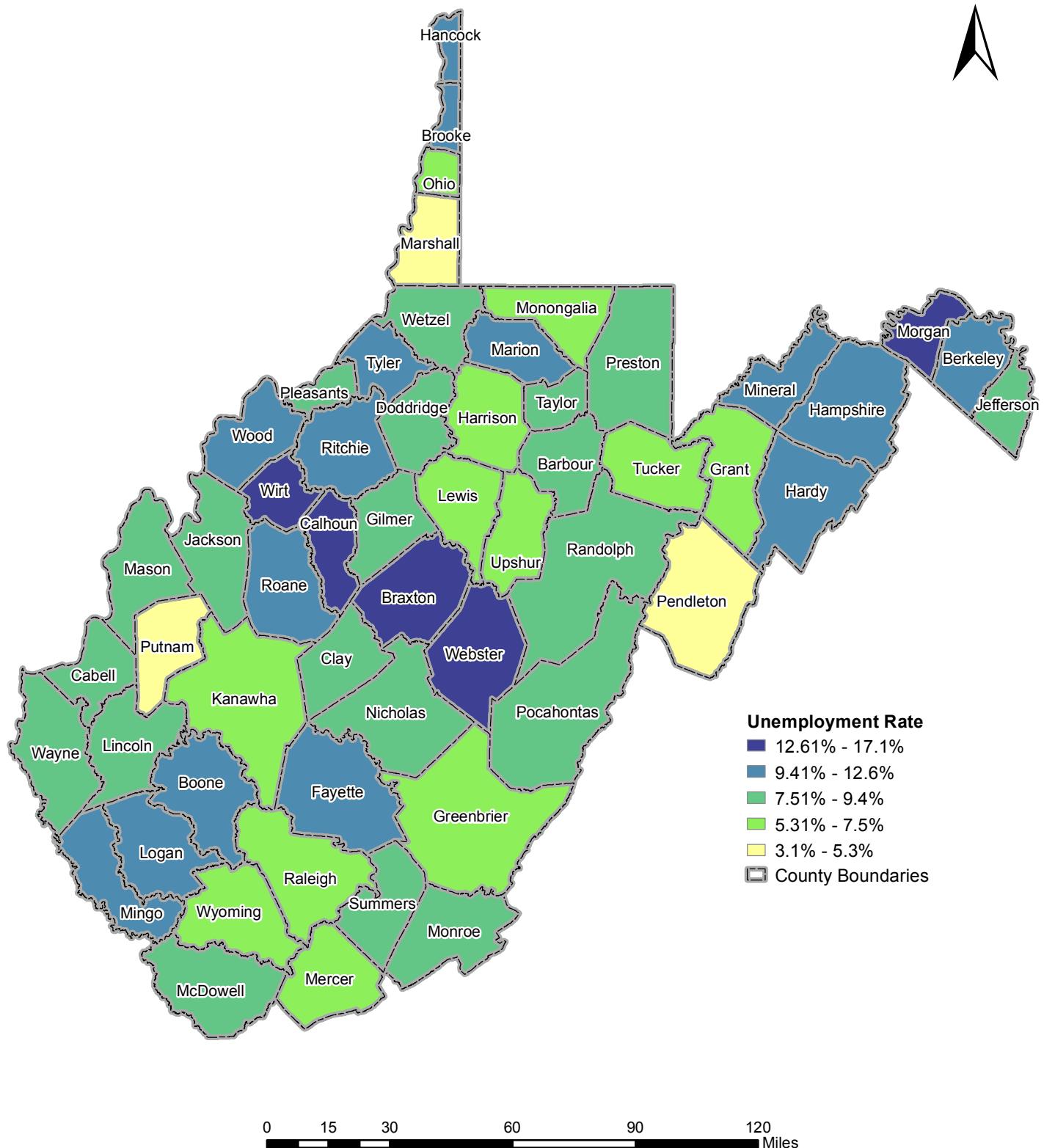


Source: U.S. Census Bureau, 2009-2013 American Community Survey

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Demographic Unemployment Rate



Source: U.S. Census Bureau, 2009-2013 American Community Survey

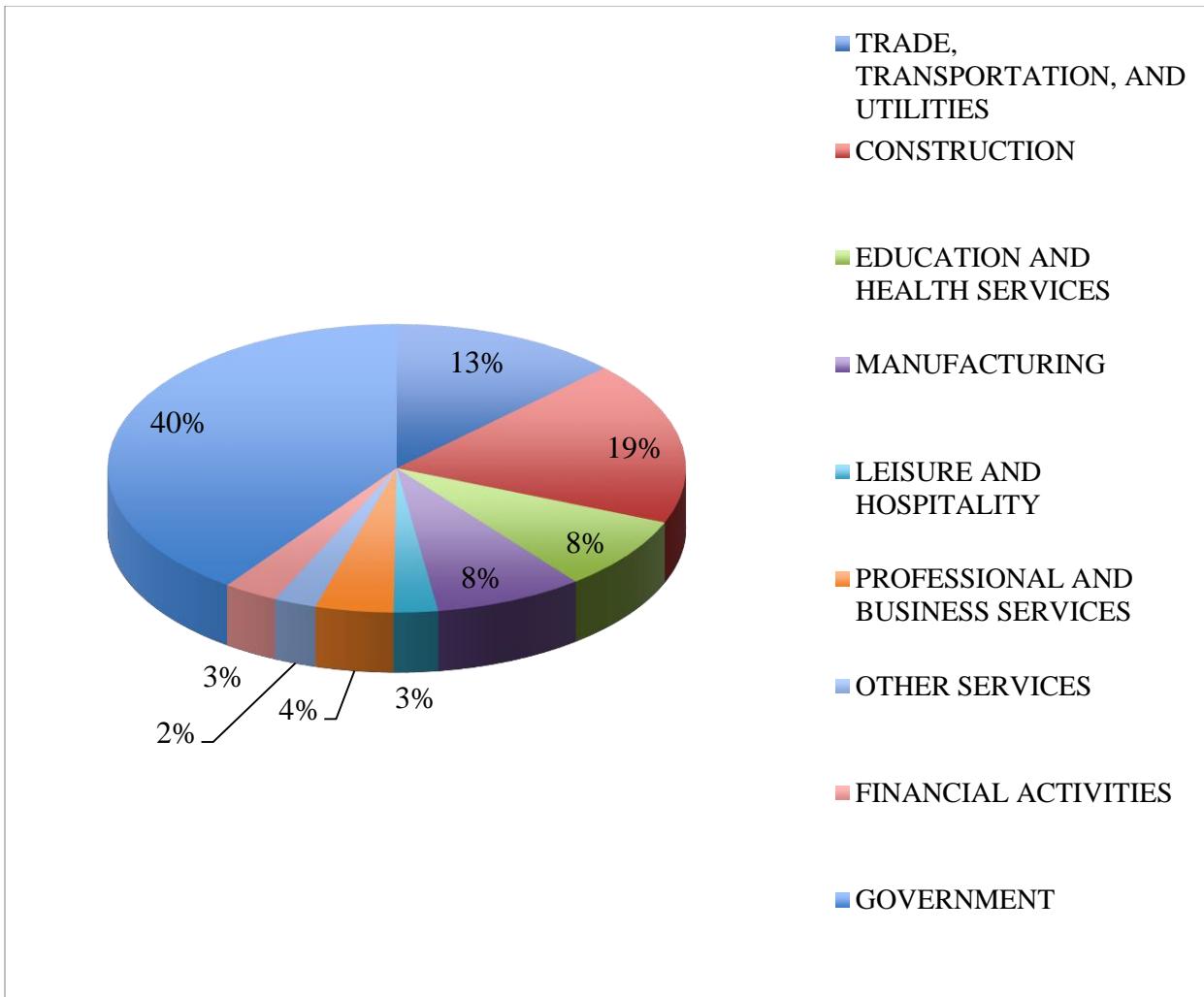
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Wages and Income

Preston County's wage contributors vary widely in the level of contribution. The highest, Government, is due to the sector being the highest employer and one of the highest earning sectors in the County (Figure 7). Construction makes up the second-highest in total wages (approximately 19 percent) followed by Trade, Transportation and Utilities. As with employment, wages in other sectors in Preston County make up much smaller portions.

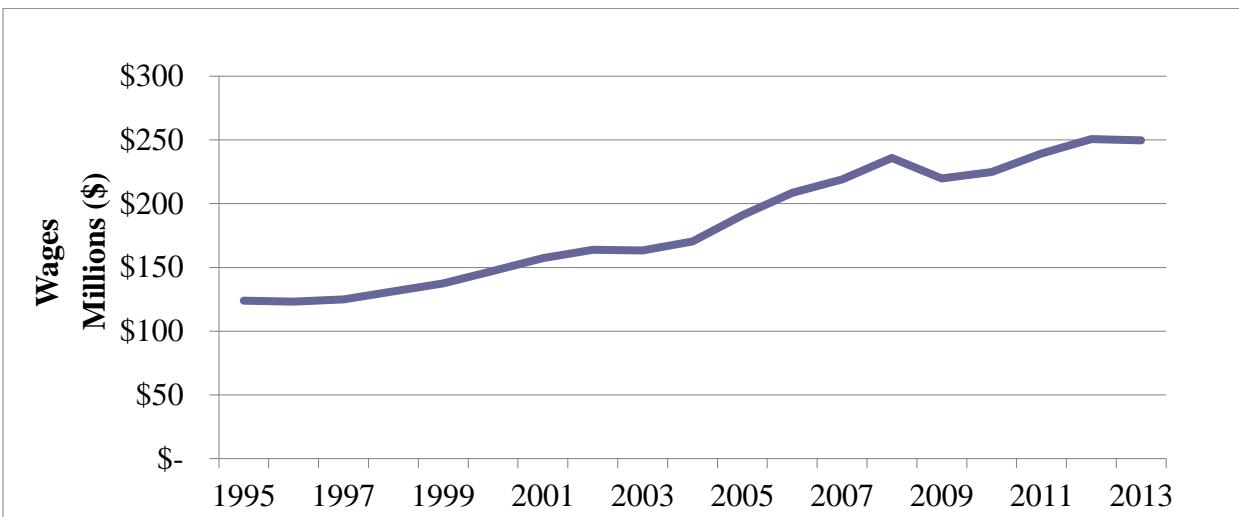
Figure 7: 2013 Preston County Total Wages



Source: Workforce WV

Historically, wages for Preston County have shown a tendency to rise, though there was some stagnation in the mid-1990s. Preston County experienced relatively steady employment growth, allowing for wages to rise despite recession and cost-cutting factors that led to an increase in unemployment in other sectors. Figure 8 shows total wages for Preston County, which have generally experienced increase in the 2000s with the exception of 2008 to 2009.

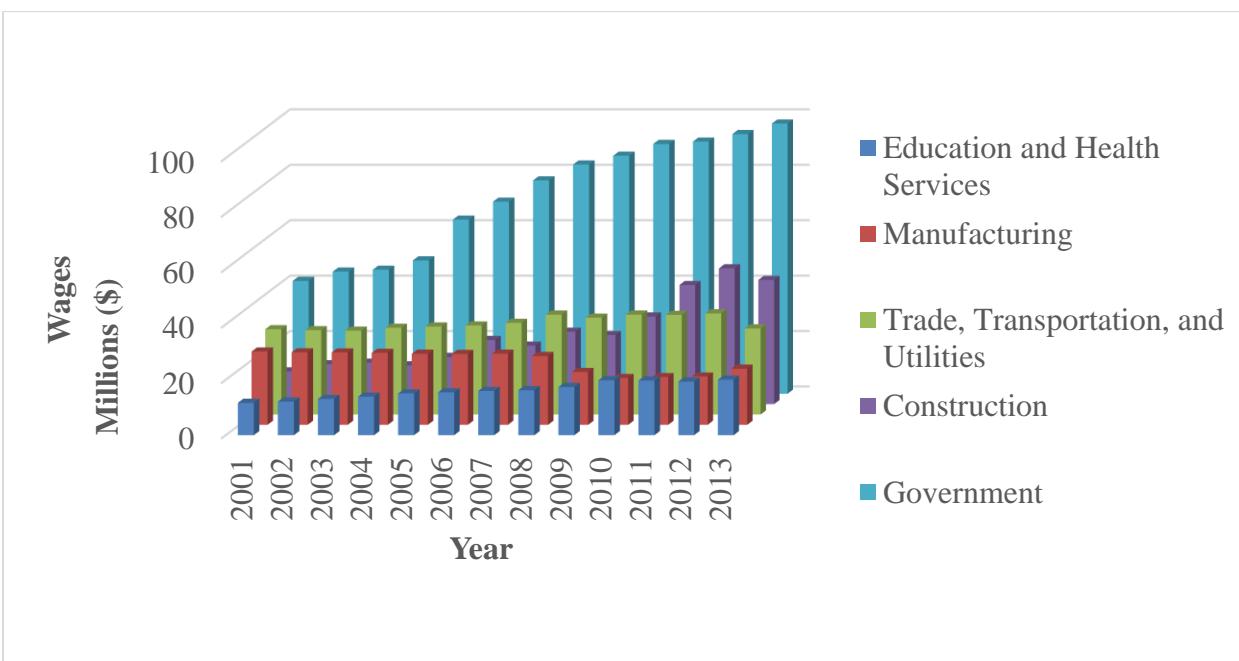
Figure 8: Preston County Total Wages 1995-2013



Source: Workforce WV

Figure 9 confirms the general trend in wages and that most of the top sectors grew throughout the decade. Wages in the Construction sector experienced the most growth since 2001 (increasing nearly 280 percent). Wages in the Education and Health Services sector experienced relatively steady growth during this time period, and wages in the Government sector increased substantially since 2001 with a heavy period of growth beginning in 2005.

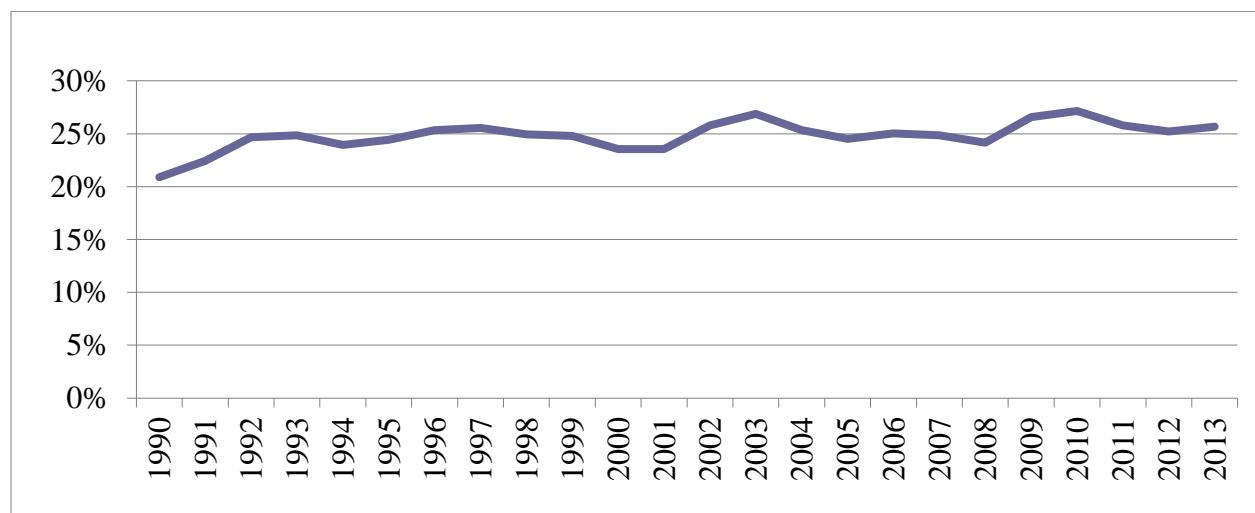
Figure 9: Preston County Total Wages by 4 Sectors 2001-2012



Source: Workforce WV

In most American counties, one would find that the majority of income for people stems from wages. In West Virginia, however, an important distinction must be made between income and wages. Income is the total receipt of earnings resulting from any economic activity, while wages are derived from actual work in an employed setting. Therefore, dividends from stockholdings are considered income, but not wages. In Preston County, wages for all employment exceeded \$249.7 million.⁴ By comparison, income for the County was larger, exceeding \$1 billion in 2013.⁵ Though there are many components to income other than work earnings, 26 percent of total Preston County income is derived from government transfers. Government transfers accounted for nearly 98 percent of total transfers in Preston County, dwarfing transfers from private institutions such as charities. Government transfers have contributed between 21 and 27 percent of income over the past 24 years. This does not count the wages for government workers. This number is similar to many other counties in West Virginia, and is not the worst nor the best ratio in the State.

Figure 10: Government Transfers as a Percentage of Income for Preston County



Source: U.S. Bureau of Economic Analysis

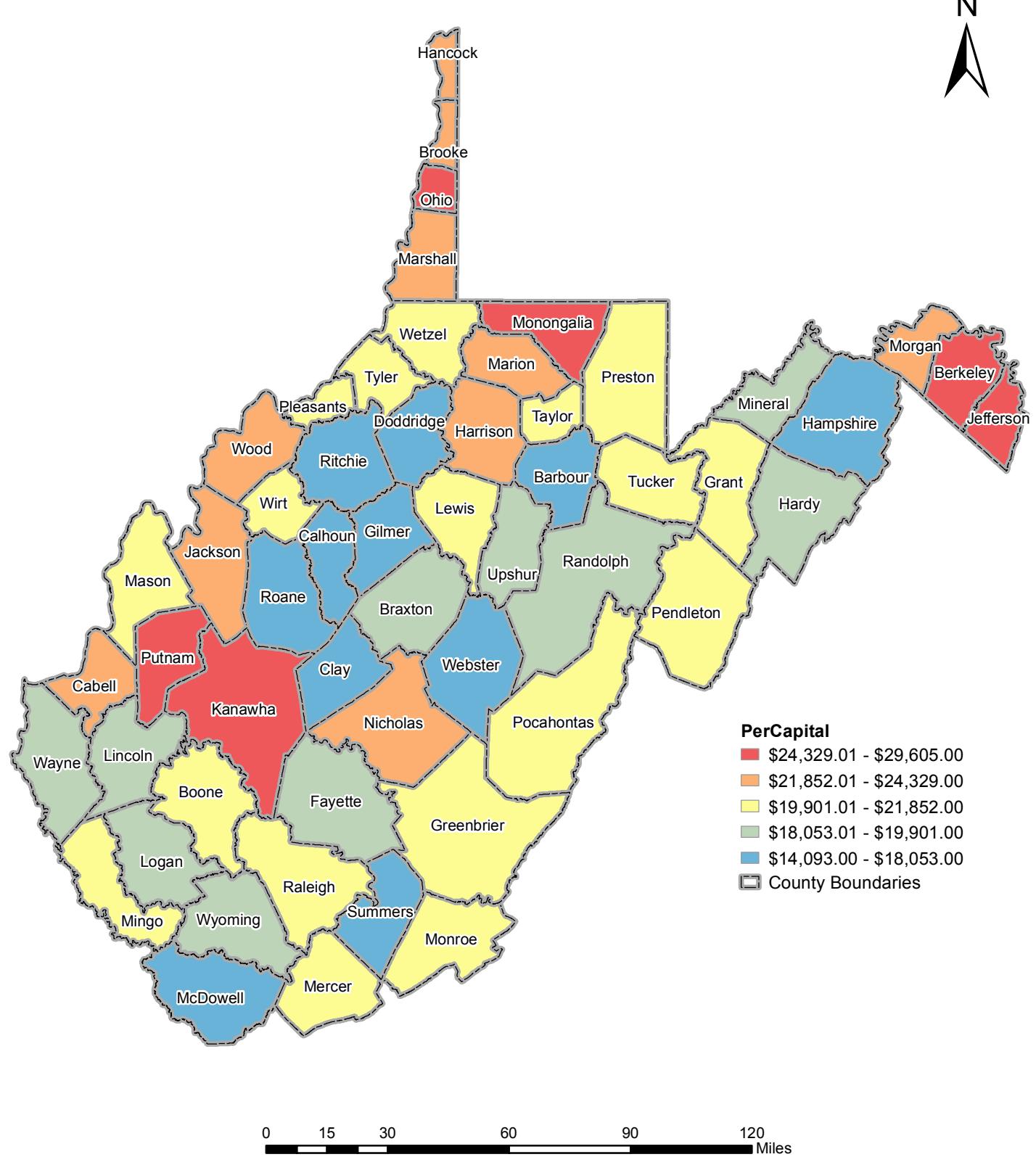
Total personal income of Preston County is therefore made up of 26 percent government transfers. Compared to the State, Preston County has a below average ratio of government transfers to personal income. According to the BEA, per capita income was \$30,463 for Preston County in 2013. Annual net earnings, or income from work, is displayed in Map 5, and Preston is ranked in the middle range in earned income in West Virginia.

⁴ “Employment and Wages – 2013, Preston County,” Workforce West Virginia, Accessed January 18, 2015, <http://www.workforcewv.org/lmi/EW2011/ew11x059.htm>

⁵ “Tables CA 04 and CA 35 analysis,” Bureau of Economic Analysis, Regional Economic Accounts, Local Area Person Income and Employment, Accessed January 18, 2015, <http://www.bea.gov/regional/index.htm>.

Another measure of economic health is the number of establishments that do business in the area. Map 6 shows the number of establishments in each county in West Virginia. Preston County appears to be at the lowest end of the spectrum. The number of establishments may be misleading, as the Education and Health Services and Government sectors are typically characterized by a small number of firms.

Demographic Per Capita Annual Net Earning



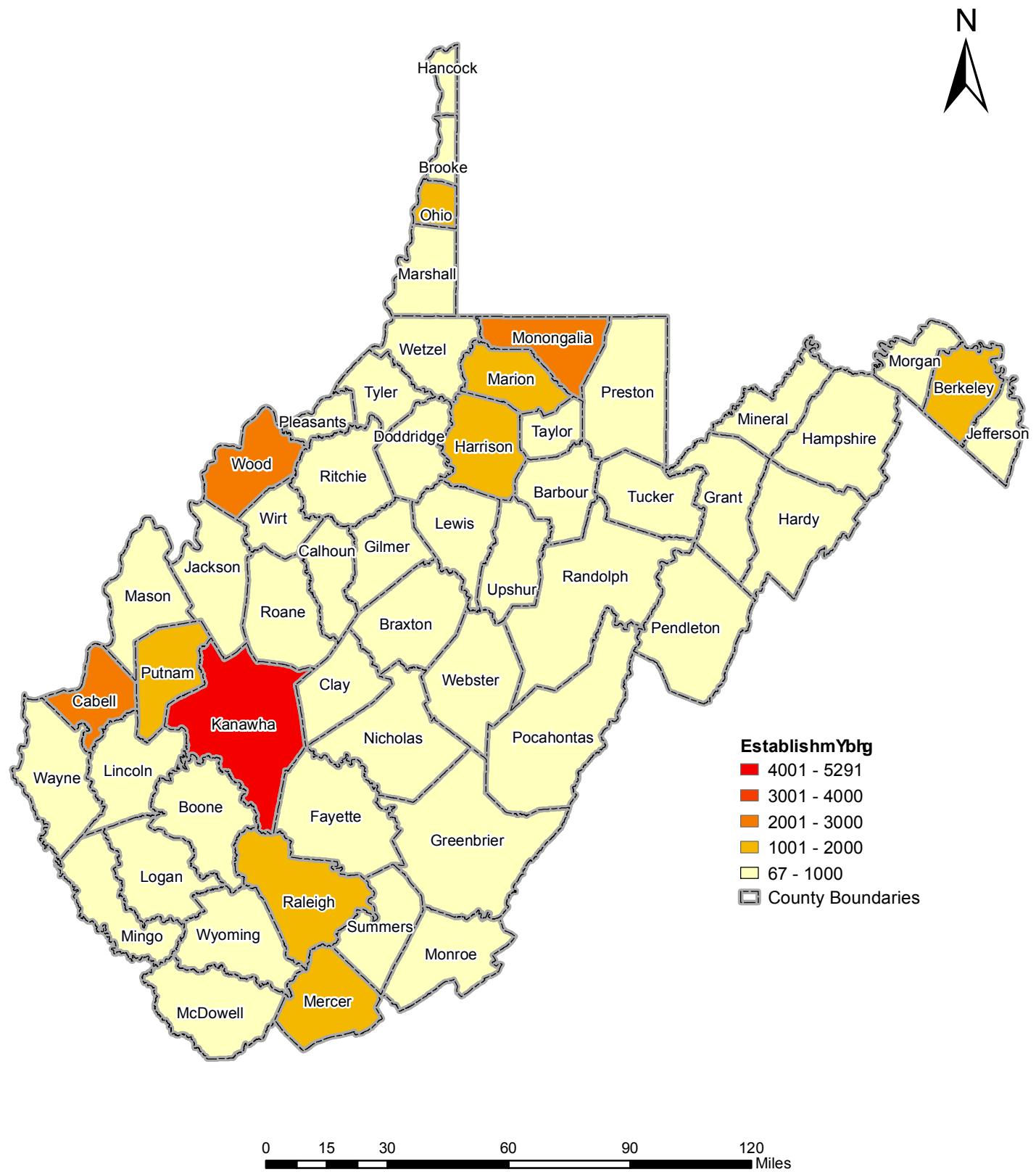
Source: U.S. Census Bureau, 2009-2013 American Community Survey

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Demographic

Number of Establishments



Source: U.S. Census Bureau, 2011

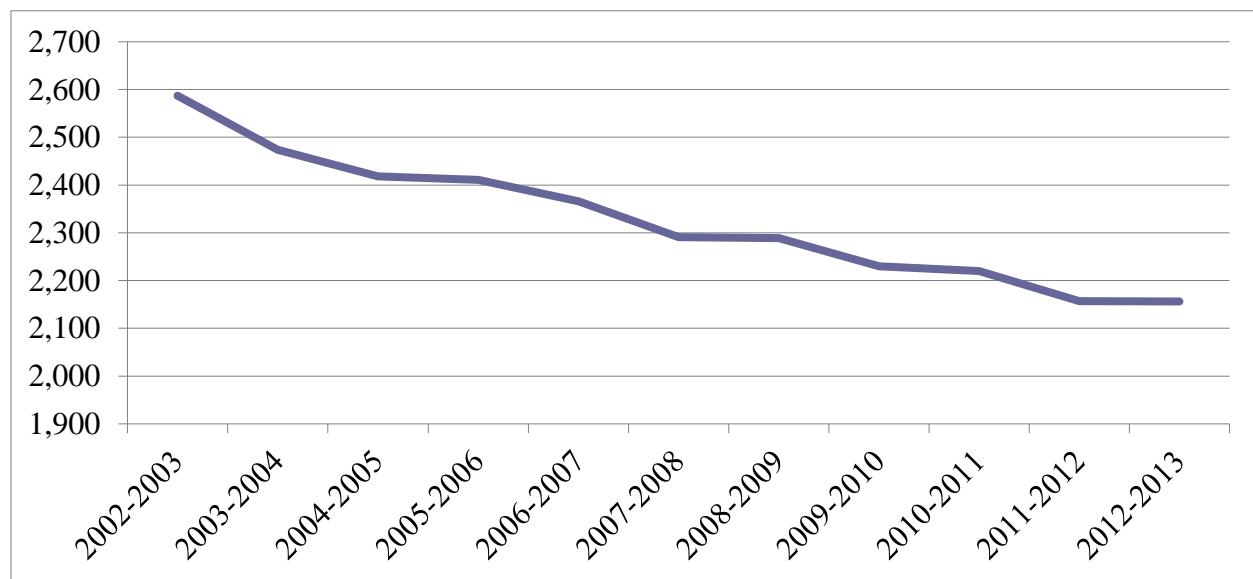
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Education

Preston County has one high school, three middle schools, three elementary schools and three combined elementary and middle school as of the 2013-2014 school year.⁶ Preston County 2nd month school enrollment exhibited an overall decline from the early 2000s, decreasing nearly 17 percent. Preston County's 2nd month enrollment is about average for the State (Map 7).

Figure 11: Preston County School Enrollment

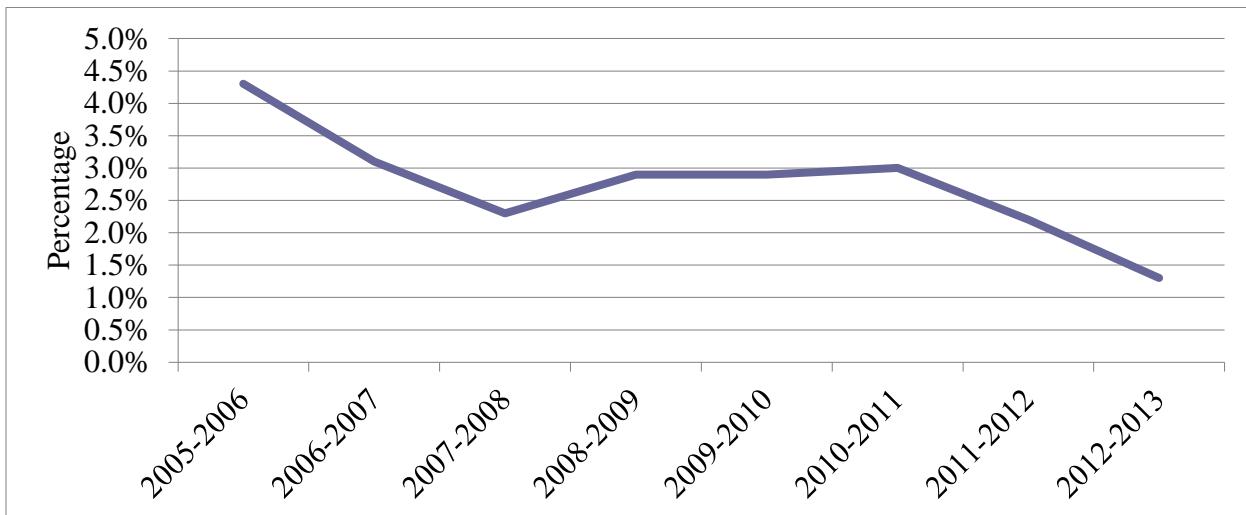


Source: WVEIS

⁶ "District Profile—Preston," West Virginia Education Information System (WVEIS), West Virginia Department of Education, Accessed March 9, 2015, http://wveis.k12.wv.us/nclb/profiles/c_profile.cfm?cn=070.

The West Virginia Education Information System (WVEIS) also has dropout rates for the school years from 2005-2006 to 2012-2013. Dropout rates for grades 7-12, which showcase the most likely time for school dropouts, do not follow the total enrollment statistic, as total enrollment is computed with the grades below 7th grade as well. Dropout rates experienced a period of slight increase between the 2007-2008 and 2010-2011 school years, despite declines in the preceding two school years (Figure 12). Declines resumed from 2010-2011 to 2012-2013.

Figure 12: Preston County Dropout Rate

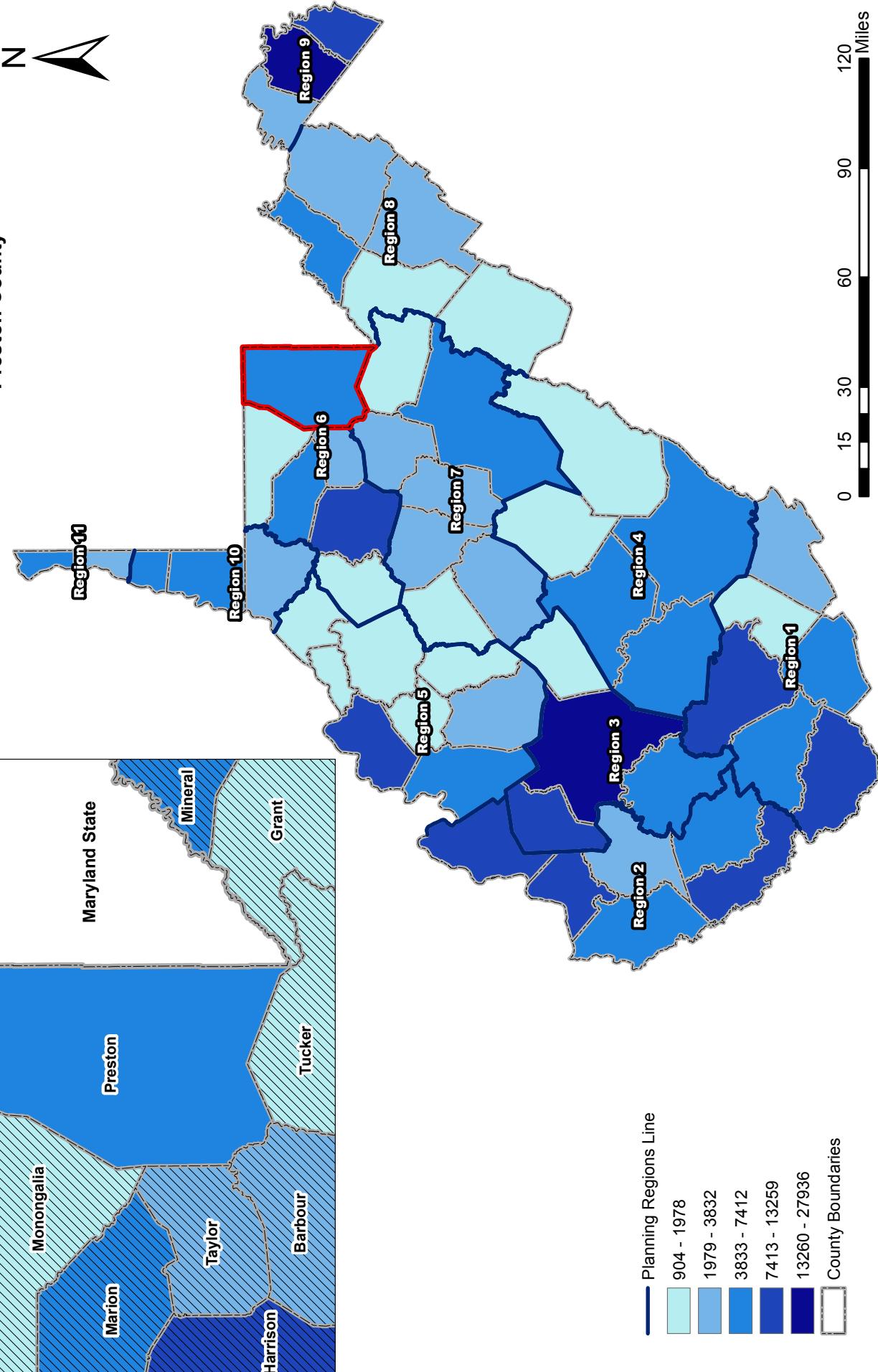


Source: WVEIS

Map 8 shows each county's dropout rate. Preston County has among the higher dropout rates in the State. Maps 9 and 10 show the total graduates and the graduation rate by county. In Preston, total graduates and graduation rates are below average for the State. Preston County's 10 schools' locations are noted in Map 11. Not coincidentally, the major schools are located on the main roads in the county. The largest school by attendance in the County is Preston High School. Most schools in Preston are located in the central portion of the County, typically along State Routes. Two small elementary schools are located along U.S. Route 50 in the County, and a larger elementary and middle combination school is located near I-68. Locating schools near major transportation routes can encourage school attendance and aid parents and students through steady access.

NCLB - Second Month Enrollment

Preston County



Source: West Virginia Department of Education 2015

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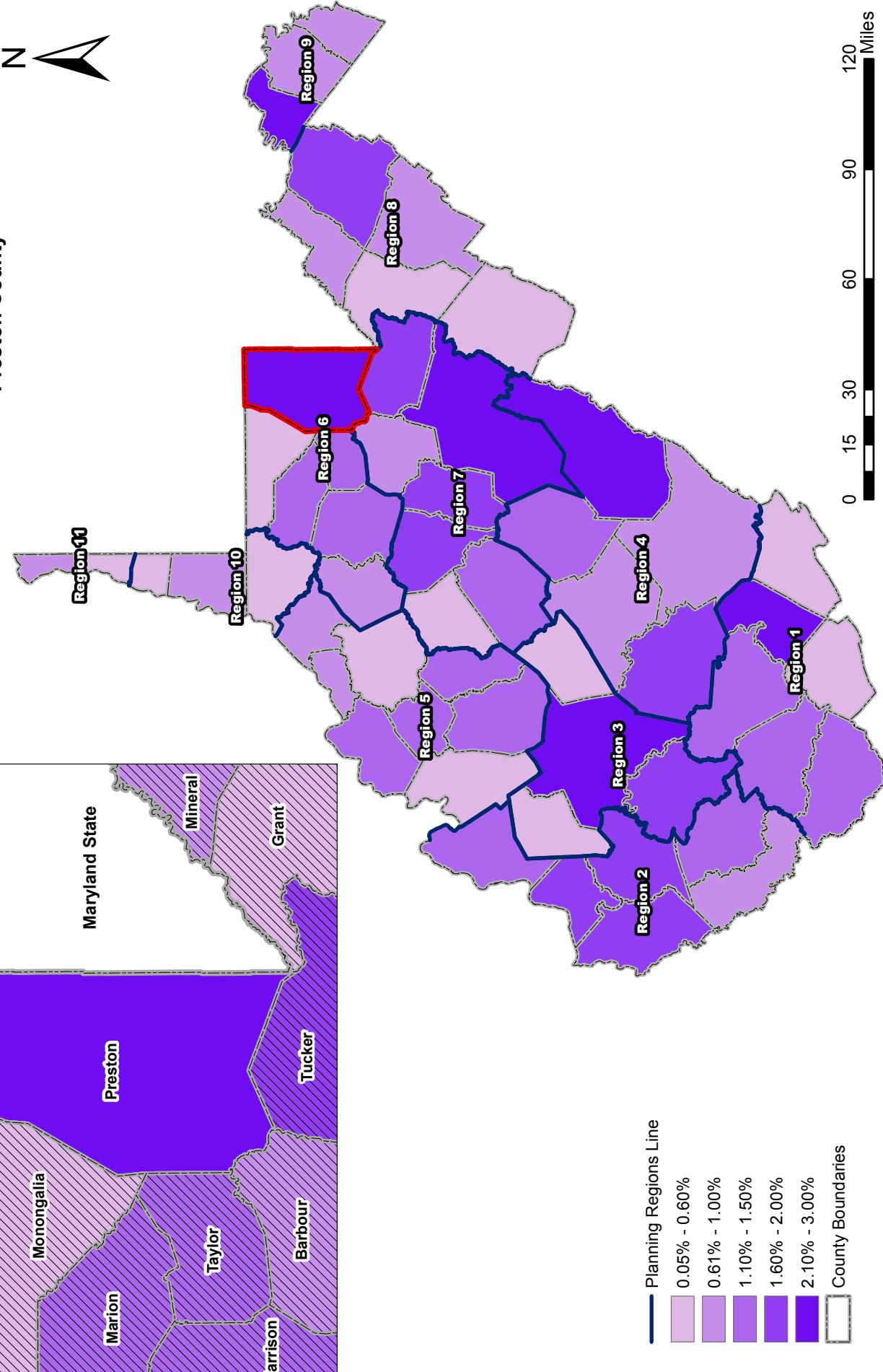


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Map 8

NCLB - Dropout Rate

Preston County



Source: West Virginia Department of Education 2015

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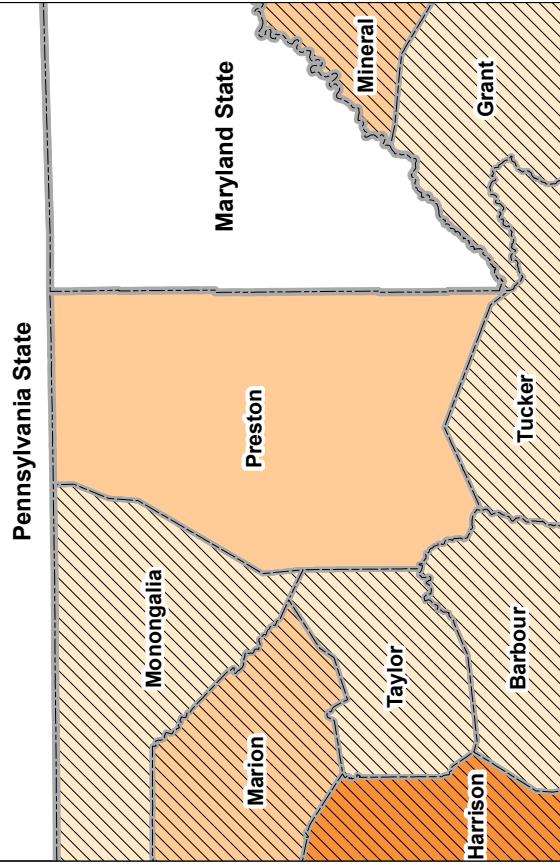
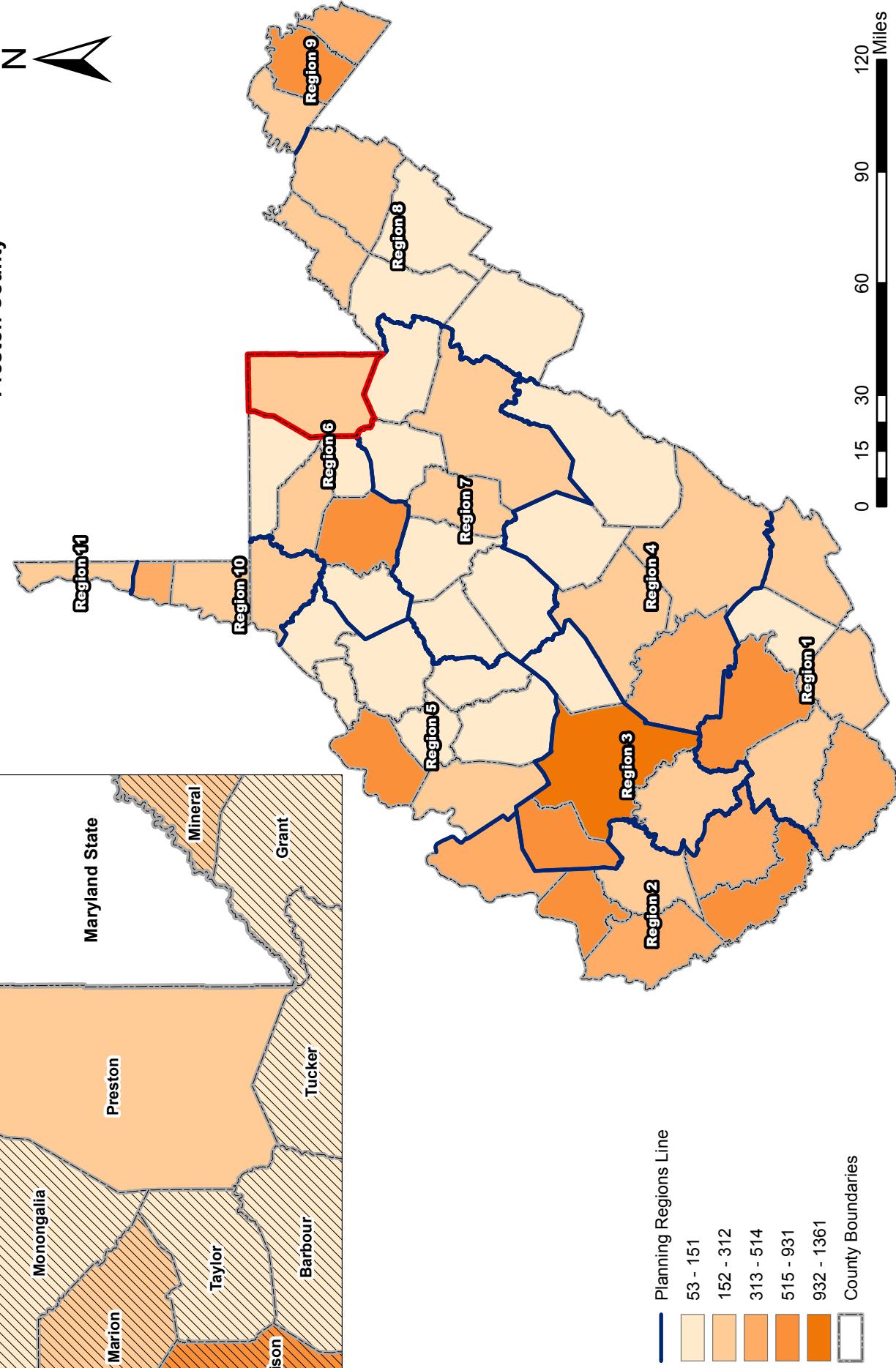


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Map 9

NCLB - Total Graduates

Preston County



Source: West Virginia Department of Education 2014

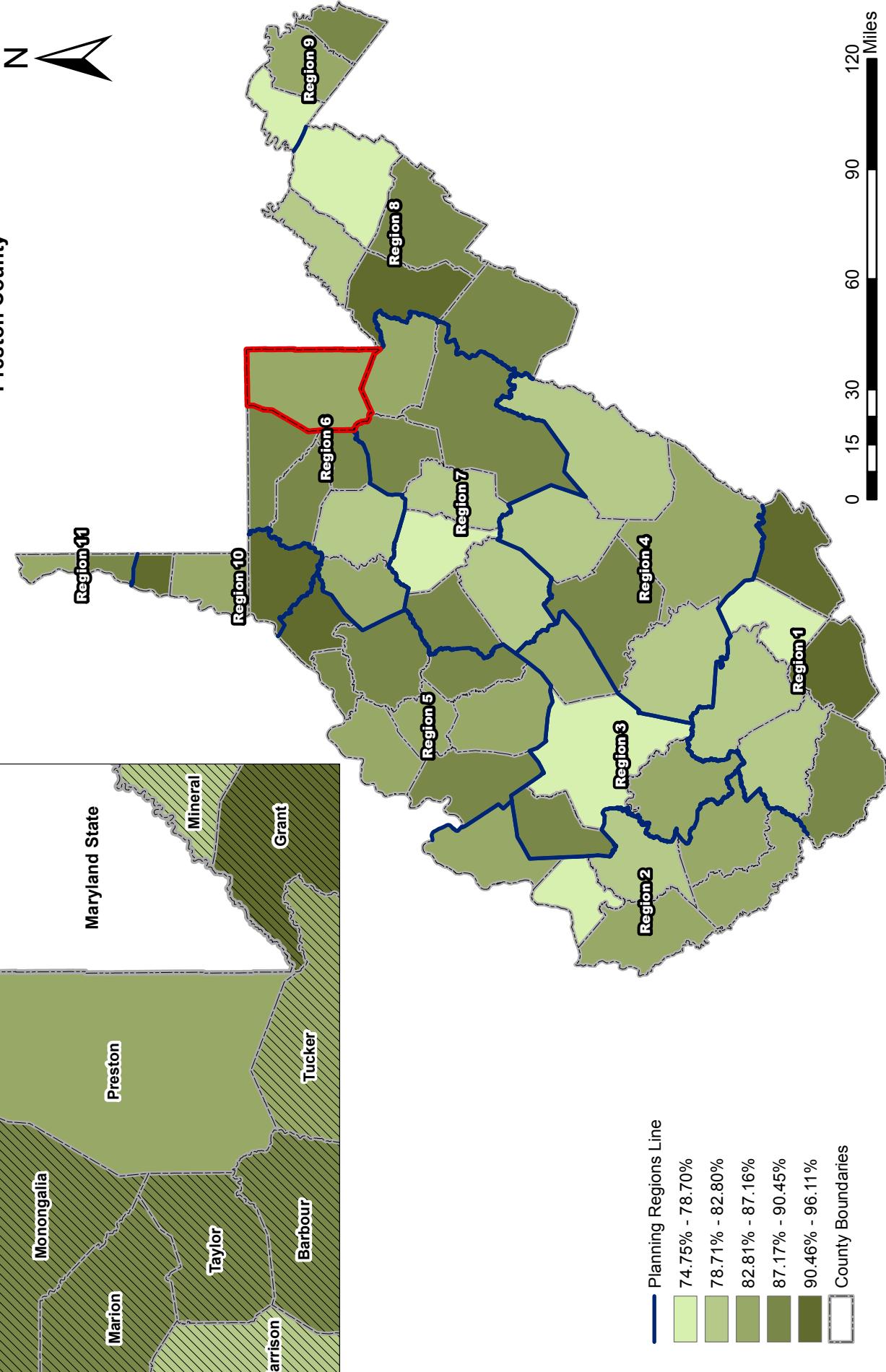
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Map 10

NCLB - Graduates Rate

Preston County



Source: West Virginia Department of Education 2015

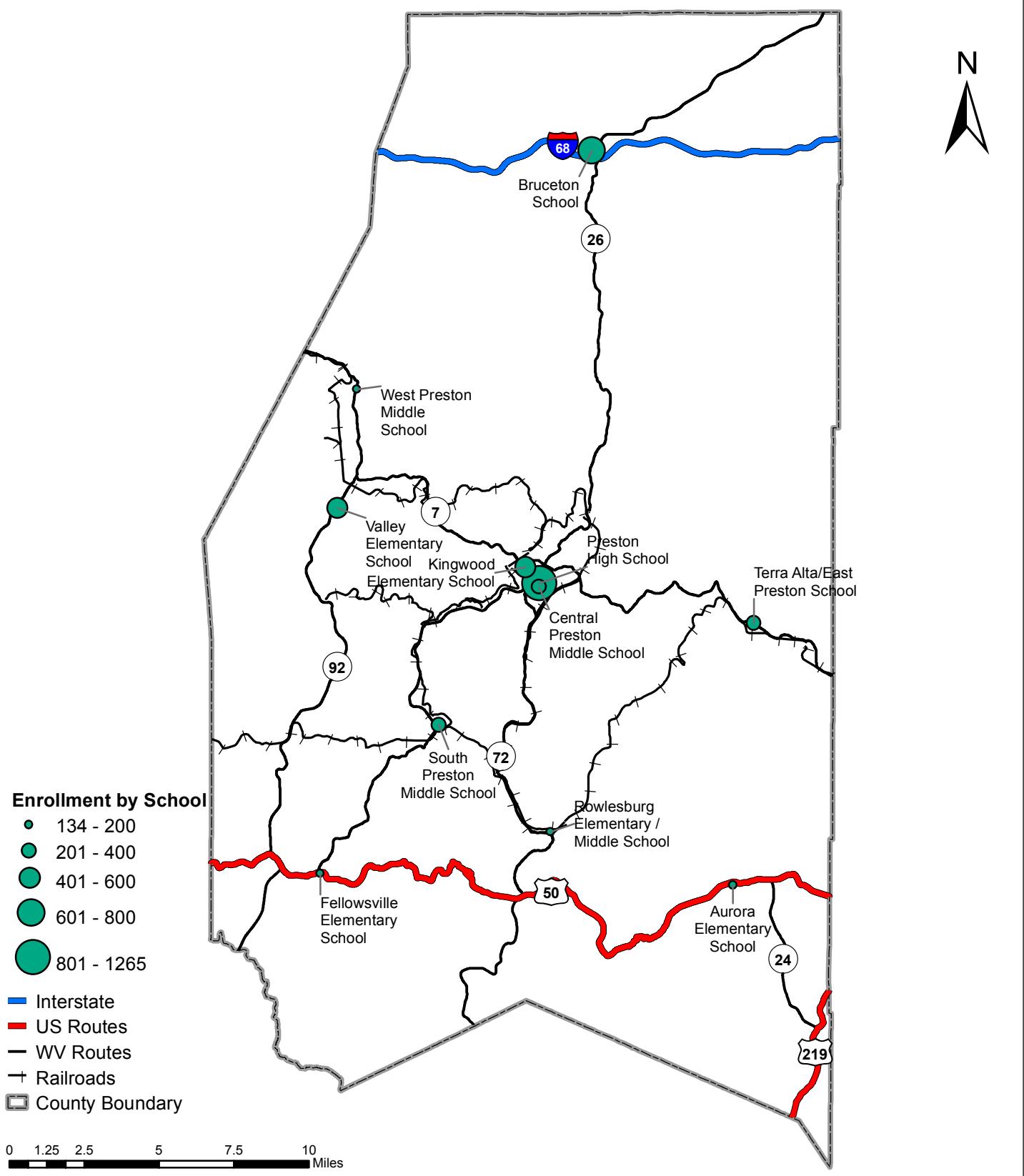
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Total Attendance by School - 2015

Preston County



Source: West Virginia Department of Education 2015

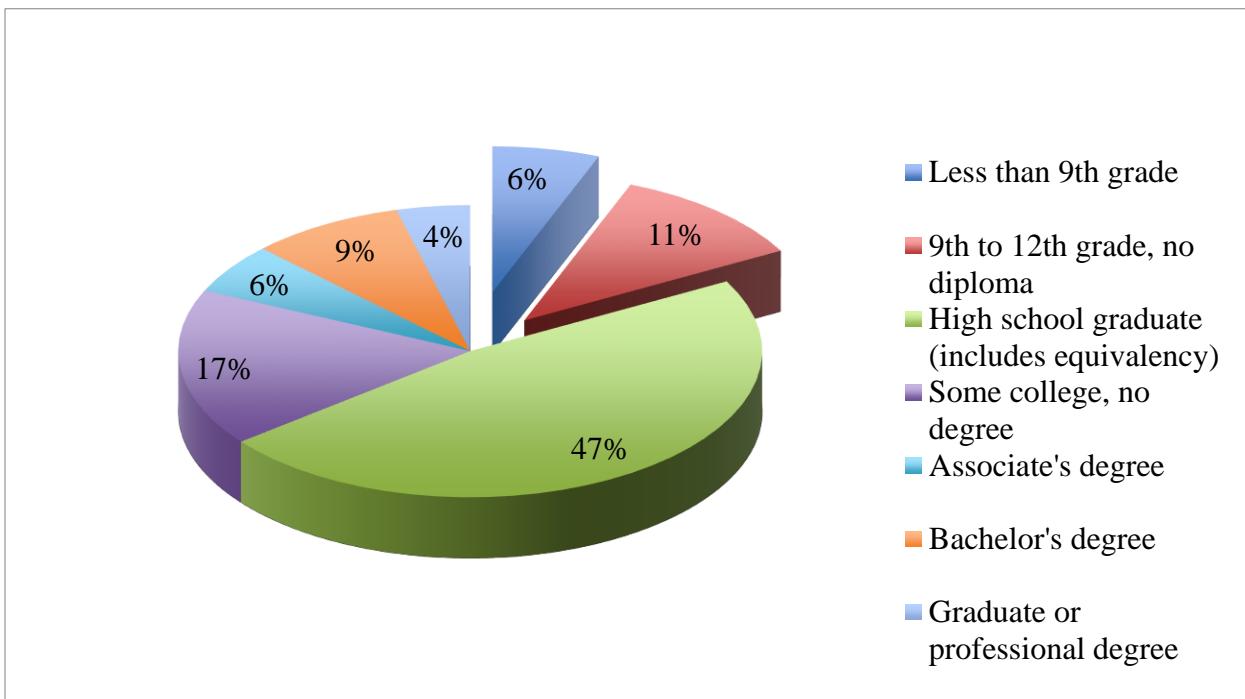
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The ACS also maintains data on the educational attainment of the population that is 25 years and over. In Preston County, 47 percent of residents have a high school diploma or equivalent.

Approximately 17 percent have less than a high school diploma, leaving only 36 percent of the remaining population with at least some college experience. This disproportion particularly concerning when the relationship between education and jobs is considered.

Figure 13: Preston County Educational Attainment



Source: 2013 American Community Survey 5-Year Estimates

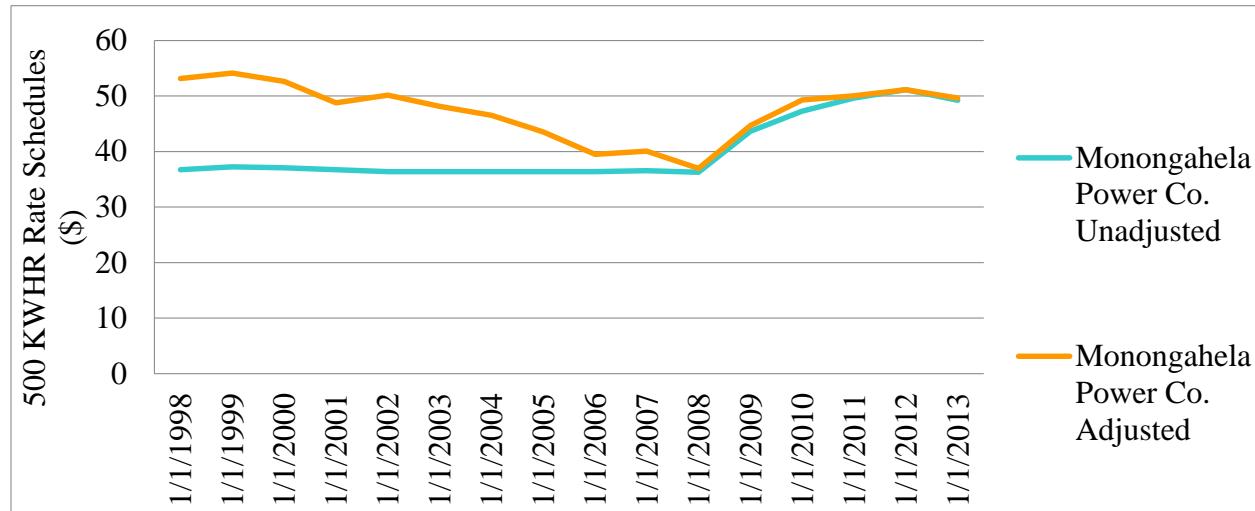
Utilities and Infrastructure

Preston County has 36 utility companies according to the West Virginia Public Service Commission (PSC). Economic development depends on infrastructure, and Preston County has several providers of water and sewer, one major provider of electricity (Monongahela Power Company), one transmission company (Trans-Allegheny Interstate Line Company), and one electric wholesaler (MegaEnergy, Inc.).

The West Virginia Public Service Commission maintains tariff rates for all companies involved in providing utilities. Of particular importance are electricity tariffs; the monitoring of these tariffs is an ongoing project. To that end, the PSC observes the growth rate of tariffs and possesses a 20-year comparison based on the average residential utility rate of the State. This provides a significant overview of how electric prices behave in West Virginia as a whole. As Figure 14 shows, if the tariffs are not adjusted by the Consumer Price Index (CPI), it would appear that rates are constantly increasing. Viewing rates in such a manner would be a misunderstanding, and would be incorrect in reference to a State with the highs and lows of West

Virginia's past. The Bureau of Labor Statistics has a CPI for electricity prices dating from 1998 to 2013. The adjusted and unadjusted prices are provided in Figure 14.

Figure 14: Power Company Prices



Source: WV Public Service Commission and United States Bureau of Labor Statistics

The graph shows that electricity rates steadily decreased in real terms through 2008 and remained fairly constant with adjustment. Both adjusted and unadjusted prices have increased since 2008. Many possible factors contributed to this rise, including the increased costs of energy and the increased demand. Map 12 also shows the distribution of power lines, plants, and substations within West Virginia and Preston County.

The two other utilities of particular importance are water and sewer. Table 1 displays water and sewer metered rates for the providers of those services. They are all public services with varying rates and categories. Preston County has 25 public sewer and water providers. Maps 13 and 14 show the water and sewer facilities and the served areas for each of these utilities, as well as the solid waste management facilities in West Virginia, including one solid waste transfer station and one operational tire monofill and three non-operational facilities in the County.

Table 1: Preston County Water and Sewer Rates

Town of Albright Water Works	
Water Rates	
First 2,000 gallons	\$ 15.23 per 1,000 gallons
Next 3,000 gallons	\$ 10.14 per 1,000 gallons
Next 5,000 gallons	\$ 7.72 per 1,000 gallons
Next 10,000 gallons	\$ 6.10 per 1,000 gallons
All over 20,000 gallons	\$ 5.57 per 1,000 gallons
Town of Bruceton Mills Water Department	

Water Rates	
Minimum charge of \$21.00 per month	\$7.00 per 1,000 gallons
City of Kingwood	
Water Rates	
First 5,000 gallons	\$10.83 per 1,000 gallons
Next 35,000 gallons	\$ 7.38 per 1,000 gallons
All Over 40,000 gallons	\$ 6.96 per 1,000 gallons
Masontown Municipal Water Department	
Water Rates	
First 2,000 gallons	\$8.61 per 1,000 gallons
Next 5,000 gallons	\$5.52 per 1 , 000 gallons
Next 8,000 gallons	\$4.67 per 1,000 gallons
Next 10,000 gallons	\$4.11 per 1,000 gallons
Next 25,000 gallons	\$3.37 per 1,000 gallons
All Over 50,000 gallons	\$2.62 per 1,000 gallons
Town of Newburg	
Water Rates	
First 2,000 gallons	\$7.20 per 1,000 gallons
All over 2,000 gallons	\$7.20 per 1,000 gallons
Town of Rowlesburg Water Works	
Water Rates	
First 2,000 gallons	\$14.98 per 1,000 gallons
Next 3,000 gallons	\$ 5.88 per 1,000 gallons
Next 5,000 gallons	\$ 4.37 per 1,000 gallons
Next 10,000 gallons	\$ 3.68 per 1,000 gallons
Next 20,000 gallons	\$ 2.81 per 1,000 gallons
All over 40,000 gallons	\$ 2.35 per 1,000 gallons
Terra Alta Municipal Water Department	
Water Rates	
First 2,000 gallons	\$1 1.47 per 1,000 gallons
Next 6,000 gallons	\$10.10 per 1,000 gallons
Next 7,000 gallons	\$ 7.99 per 1,000 gallons
Next 10,000 gallons	\$ 6.46 per 1,000 gallons
Next 225,000 gallons	\$ 5.88 per 1,000 gallons
Over 250,000 gallons	\$ 5.51 per 1,000 gallons
Town of Tunnelton	
Water Rates	
First 2,000 gallons used per month	\$12.72 per 1,000 gallons
Next 3,000 gallons used per month	\$11.56 per 1,000 gallons

Next 5,000 gallons used per month	\$10.23 per 1,000 gallons
Next 10,000 gallons used per month	\$ 8.25 per 1,000 gallons
All Over 20,000 gallons used per month	\$ 7.15 per 1,000 gallons

Preston County Public Service District No. 1

Water Rates

First 3,000 gallons used per month	\$ 8.98 per 1,000 gallons
Next 3,000 gallons used per month	\$ 7.18 per 1,000 gallons
Next 4,000 gallons used per month	\$ 6.14 per 1,000 gallons
Next 10,000 gallons used per month	\$ 5.14 per 1,000 gallons
AU over 20,000 gallons used per month	\$ 3.57 per 1,000 gallons

Preston County Public Service District No. 4

Water Rates

First 3,000 gallons	\$7.57 per 1,000 gallons
All over 3,000 gallons	\$7.57 per 1,000 gallons

Preston County Public Service District No. 2

Water Rates

First 3,000 gallons used per month	\$11.13 per 1,000 gallons
Next 3,000 gallons used per month	\$10.75 per 1,000 gallons
Next 4,000 gallons used per month	\$10.36 per 1,000 gallons
Next 10,000 gallons used per month	\$ 9.86 per 1,000 gallons
All Over 20,000 gallons used per month	\$ 9.36 per 1,000 gallons

Alpine Lake Public Utilities Company

Water Rates

First 3,000 gallons used per month	\$23.30 per 1,000 gallons
Next 17,000 gallons used per month	\$15.11 per 1,000 gallons
All over 20,000 gallons used per month	\$2.33 per 1,000 gallons

Town of Rowlesburg Sanitary Board

Water Rates

First 2,000 gallons used per month	\$9.06 per 1,000 gallons
Next 3,000 gallons used per month	\$3.57 per 1,000 gallons
Next 5,000 gallons used per month	\$2.65 per 1,000 gallons
Next 10,000 gallons used per month	\$2.22 per 1,000 gallons
Next 20,000 gallons used per month	\$1.70 per 1,000 gallons
All over 40,000 gallons used per month	\$1.50 per 1,000 gallons

Town of Terra Alta

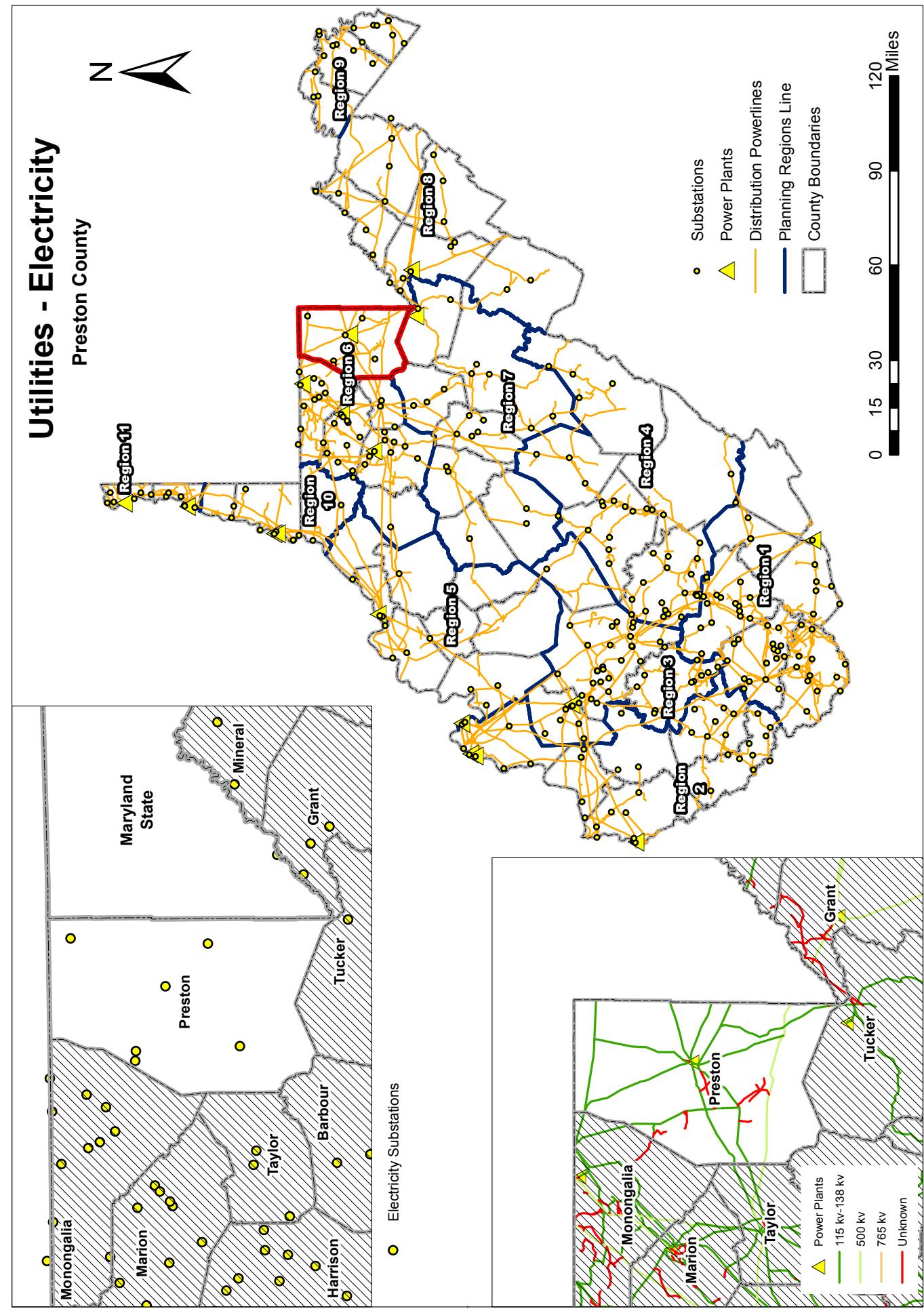
Sewer Rates

First 2,000 gallons	\$10.19 per 1,000 gallons
Next 12,000 gallons	\$ 8.85 per 1,000 gallons
Next 36,000 gallons	\$ 8.09 per 1,000 gallons

All over 50,000 gallons	\$ 7.81 per 1,000 gallons
Kingwood Sanitary Sewer Works	
Sewer Rates	
First 10,000 gallons	\$10.18 per 1,000 gallons
Next 490,000 gallons	\$ 3.26 per 1,000 gallons
All Over 500,000 gallons	\$ 2.44 per 1,000 gallons
Masontown Municipal Sewer Department	
Sewer Rates	
First 3,000 gallons	\$9.10 per 1,000 gallons
Next 4,000 gallons	\$7.28 per 1,000 gallons
Next 8,000 gallons	\$6.12 per 1,000 gallons
Next 10,000 gallons	\$5.37 per 1,000 gallons
Next 25,000 gallons	\$4.39 per 1,000 gallons
All Over 50,000 gallons	\$3.48 per 1,000 gallons
Town of Tunnelton	
Sewer Rates	
First 3,000 gallons used per month	\$13.18 per 1,000 gallons
Over 3,000 gallons used per month	\$13.18 per 1,000 gallons
Town of Newburg	
Sewer Rates	
First 3,000 gallons	\$9.65 per 1,000 gallons
Over 3,000 gallons	\$9.65 per 1,000 gallons
Town of Albright (Sewer)	
Sewer Rates	
First 3,000 gallons	\$9.55
Over 3,000 gallons	\$9.55
Town of Reedsville	
Sewer Rates	
First 3,000 gallons used per month	\$12.78 per 1,000 gallons
Next 3,000 gallons used per month	\$11.78 per 1,000 gallons
Next 4,000 gallons used per month	\$ 9.94 per 1,000 gallons
Next 10,000 gallons used per month	\$ 8.72 per 1,000 gallons
Over 20,000 gallons used per month	\$ 7.90 per 1,000 gallons
Preston County Public Service District	
Sewer Rates	
First 3,600 gallons of water used per month	\$7.28 per 1,000 gallons
All Over 3,600 gallons of water used per month	\$7.28 per 1,000 gallons
Alpine Lake Public Utilities Company	
Sewer Rates	

<i>Customers with non-metered water supply</i>	
Residential, including Chalets \$ 83.84	
Commercial -- Lodge and Motel \$3,592.71	
Commercial -- Herron Apartments \$ 335.35	
Arthurdale Sewage Company	
Sewer Rates	
Flat Rate	\$8.00 per month
Arthurdale Water Association	
Water Rates	
Property Owner Members	\$ 15.00 per month
Renters	\$ 15.00 per month
Preston County Board of Education	\$360.00 per month
Denver Water Association	
Water Rates	
Data is not available	

Map 12



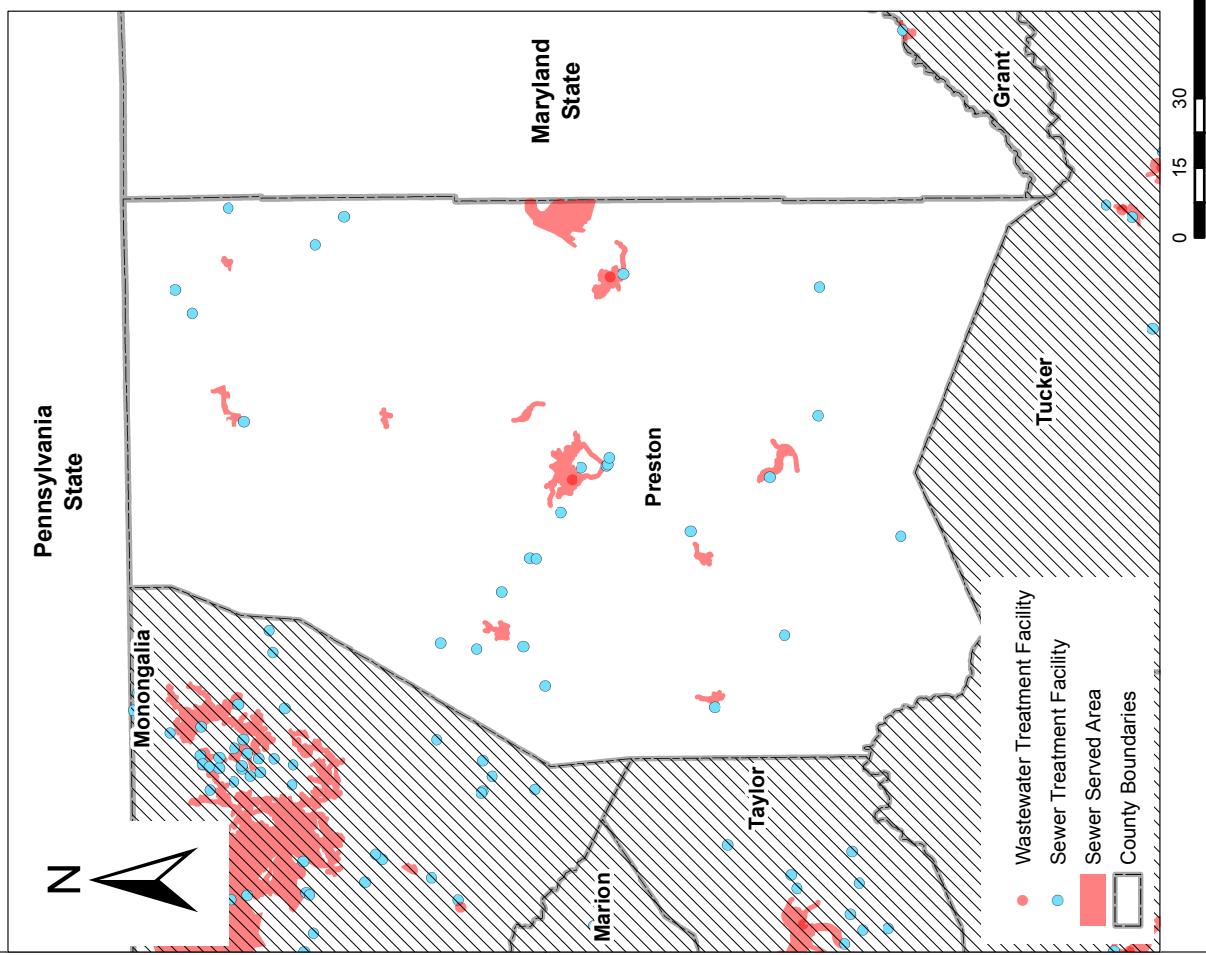
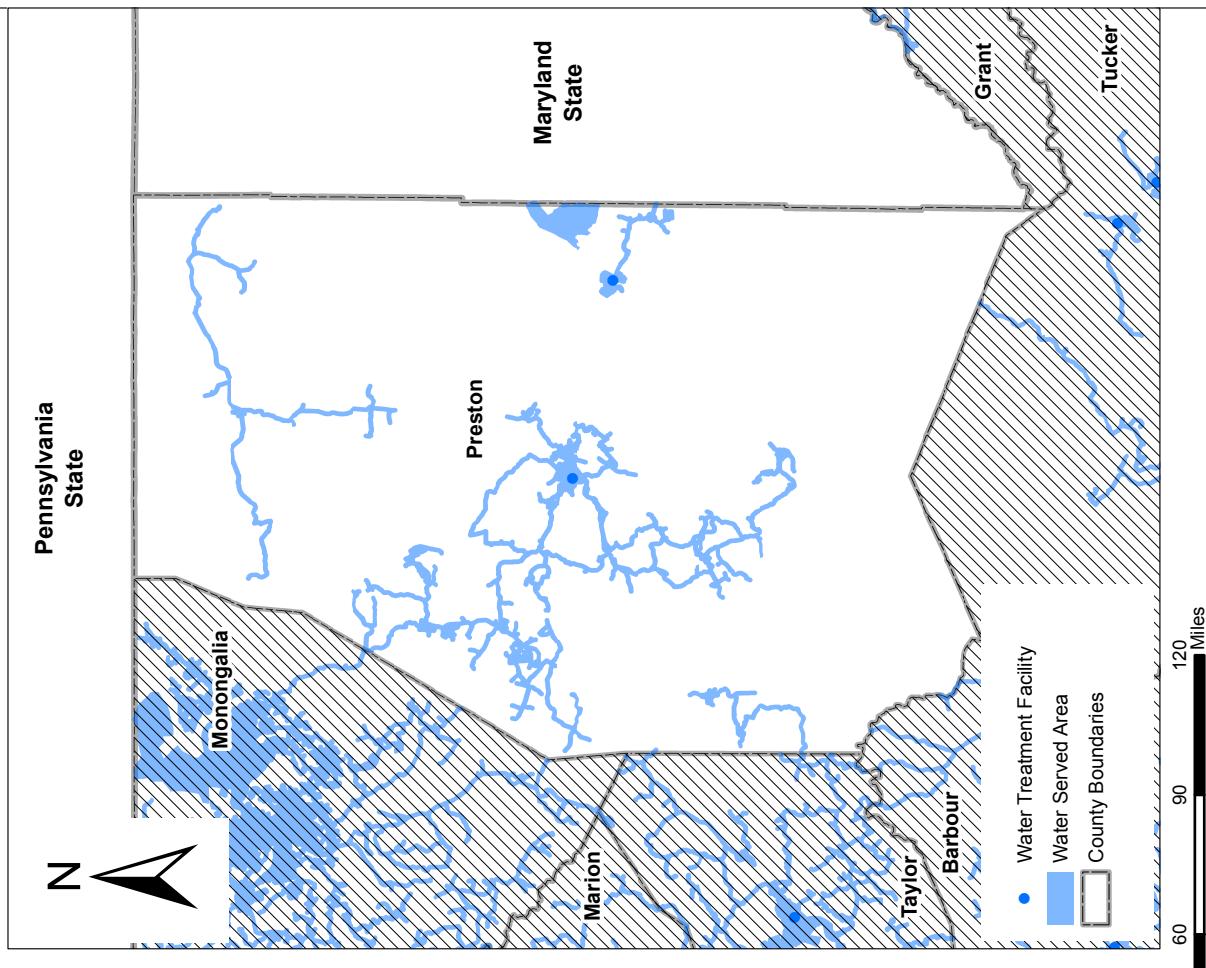
Source: West Virginia Division of Natural Resources, Statewide Addressing and Mapping 2008

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Utilities - Water and Sewer Preston County



Source: West Virginia Infrastructure and Jobs Development Council N.A.

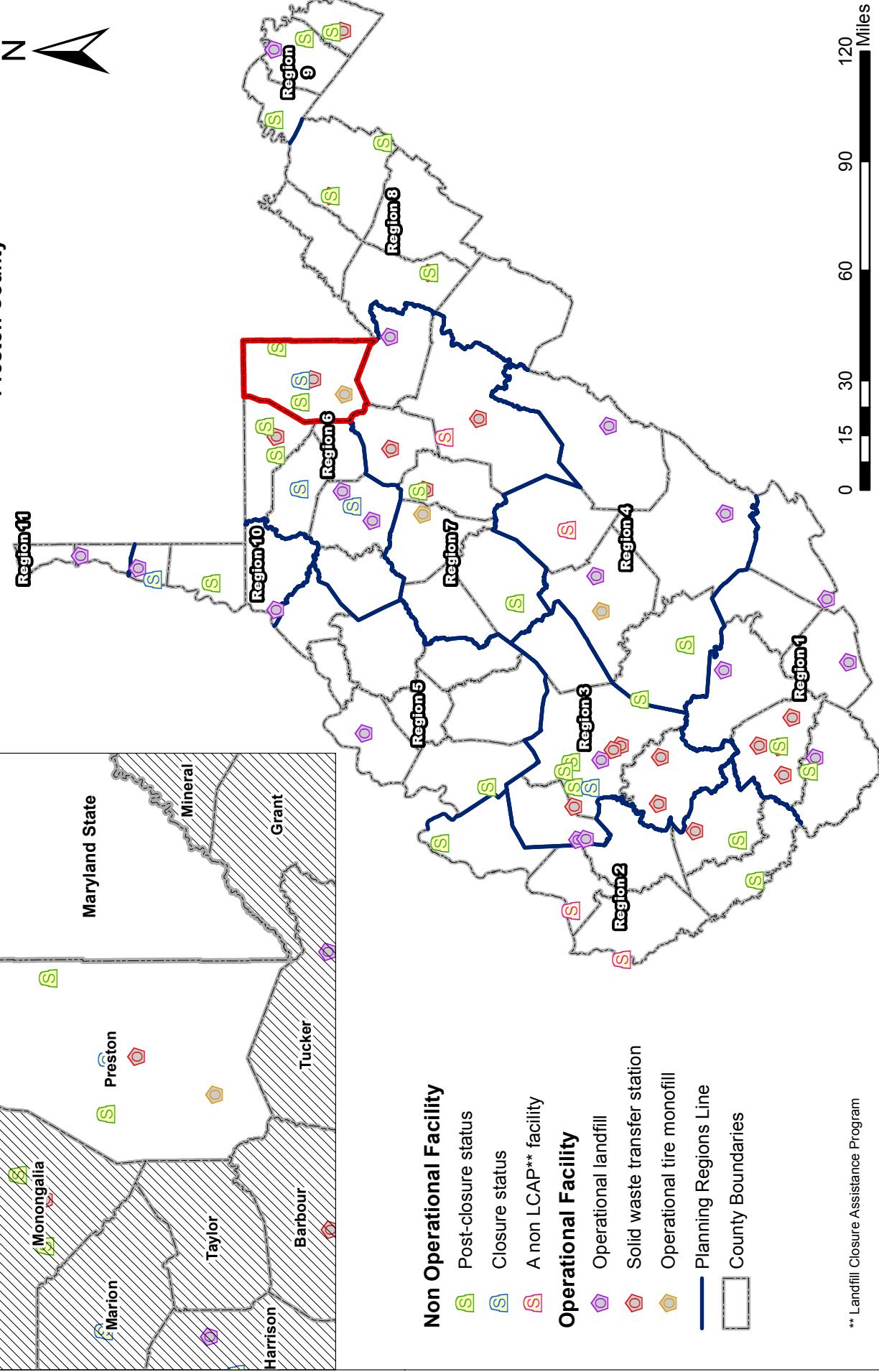
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Utility - Solid Waste Facility

Preston County



Source: West Virginia Solid Waste Management Board 2012

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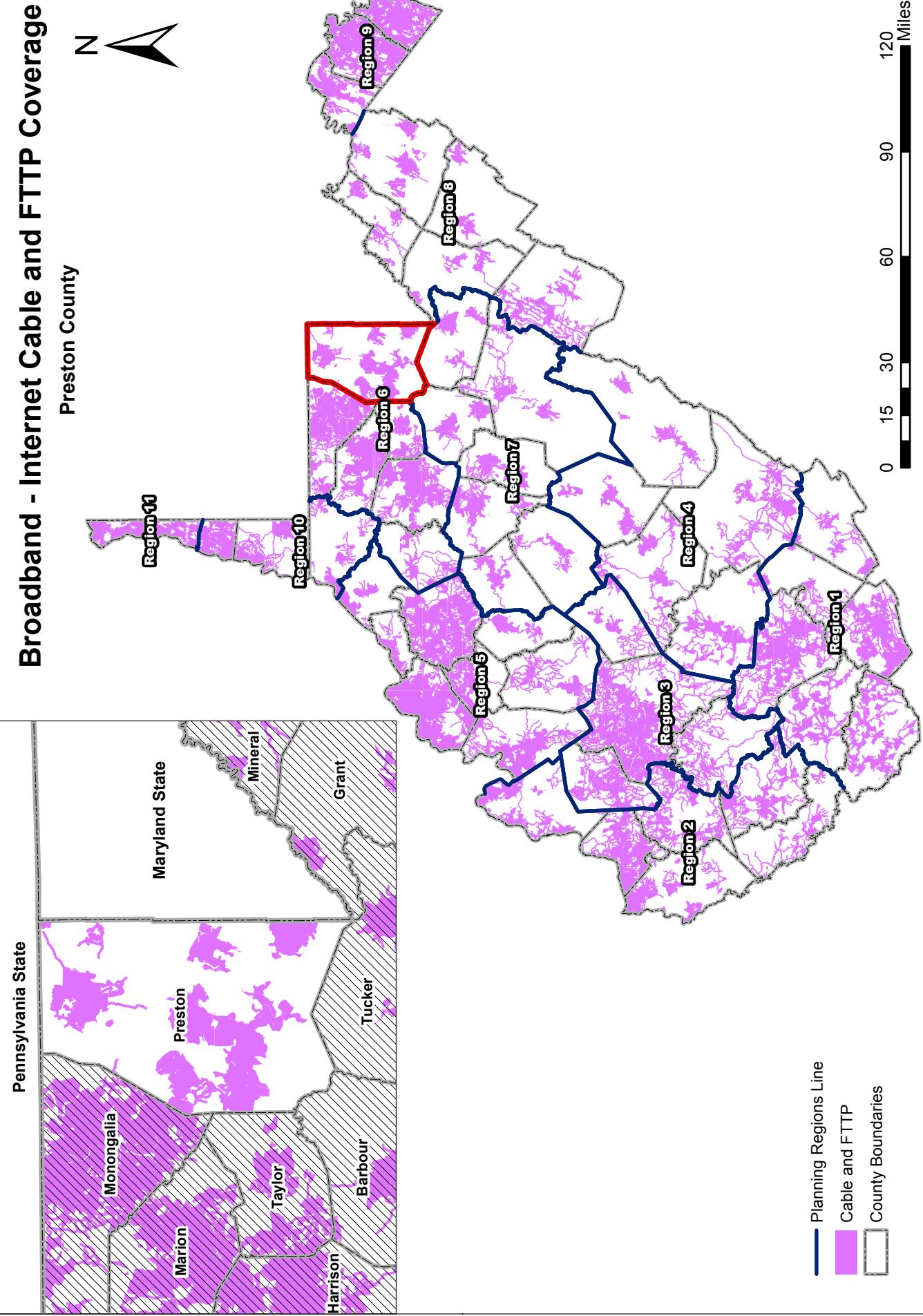


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One essential modern convenience, now widely understood as an essential utility in a globalized world, is broadband access. The following 11 maps demonstrate Preston County's broadband infrastructure in relation to the State's. The largest number of providers in Preston County is five, which are most densely concentrated in the center and north-central portions of the County. Preston County broadband infrastructure is less dense than neighboring counties of Monongalia and Taylor, but similar to that of neighboring Barbour County. Of particular note is the presence of greater than 10 mbps of wireless speed across most of the County, mostly contiguous mobile wireless coverage, and limited areas where no broadband coverage is reported.

Map 15 shows physical cable infrastructure running from ISPs to other structures. DSL, BPL, and other copper represent the transferal system of broadband (Map 16). Map 17 shows the entire wire system, represented by physical wires, while Maps 18 and 19 show the maximum uploading and downloading speeds for the system. Map 20 shows the total number of providers, which is denser in the more economically developed areas of the State. Map 21 has fixed wireless coverage, or the connection between two fixed points wirelessly by radio or other links, and the next two maps show the maximum uploading and downloading speeds in a given area (22 and 23). Map 24 shows the location of mobile wireless coverage, including for smartphones and tablets, and Map 25 shows areas where no broadband coverage is reported in any way.

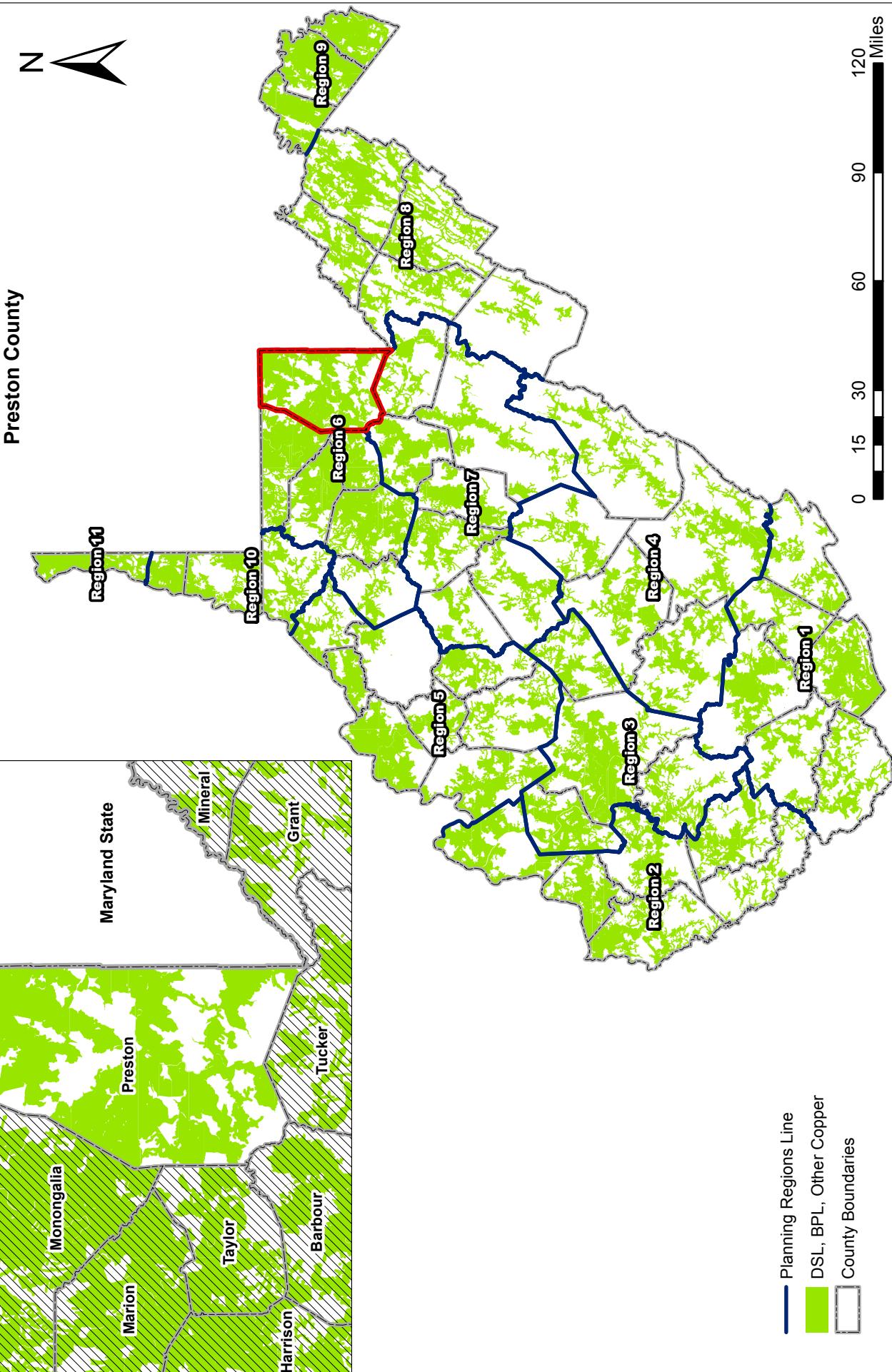
Each of these maps shows a similar pattern in Preston County internet service as exhibited by West Virginia. Internet service, specifically broadband, is non-existent in many rural areas, and instead focuses on population centers. While this may be financially wise, it deprives rural areas of an increasingly integral link to a globalized economy and society. All areas now need broadband service, and a complete inventory of these services is needed to plan for future investment in any given area. Note also that the map data is for 2014, the most recent map available. Changes have been made in recent years, thanks to broadband expansion programs encouraged by the State.

Broadband - Internet Cable and FTTP Coverage

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Broadband - Internet DSL, BPL, Other Copper

Source: West Virginia Broadband Mapping Program 2014

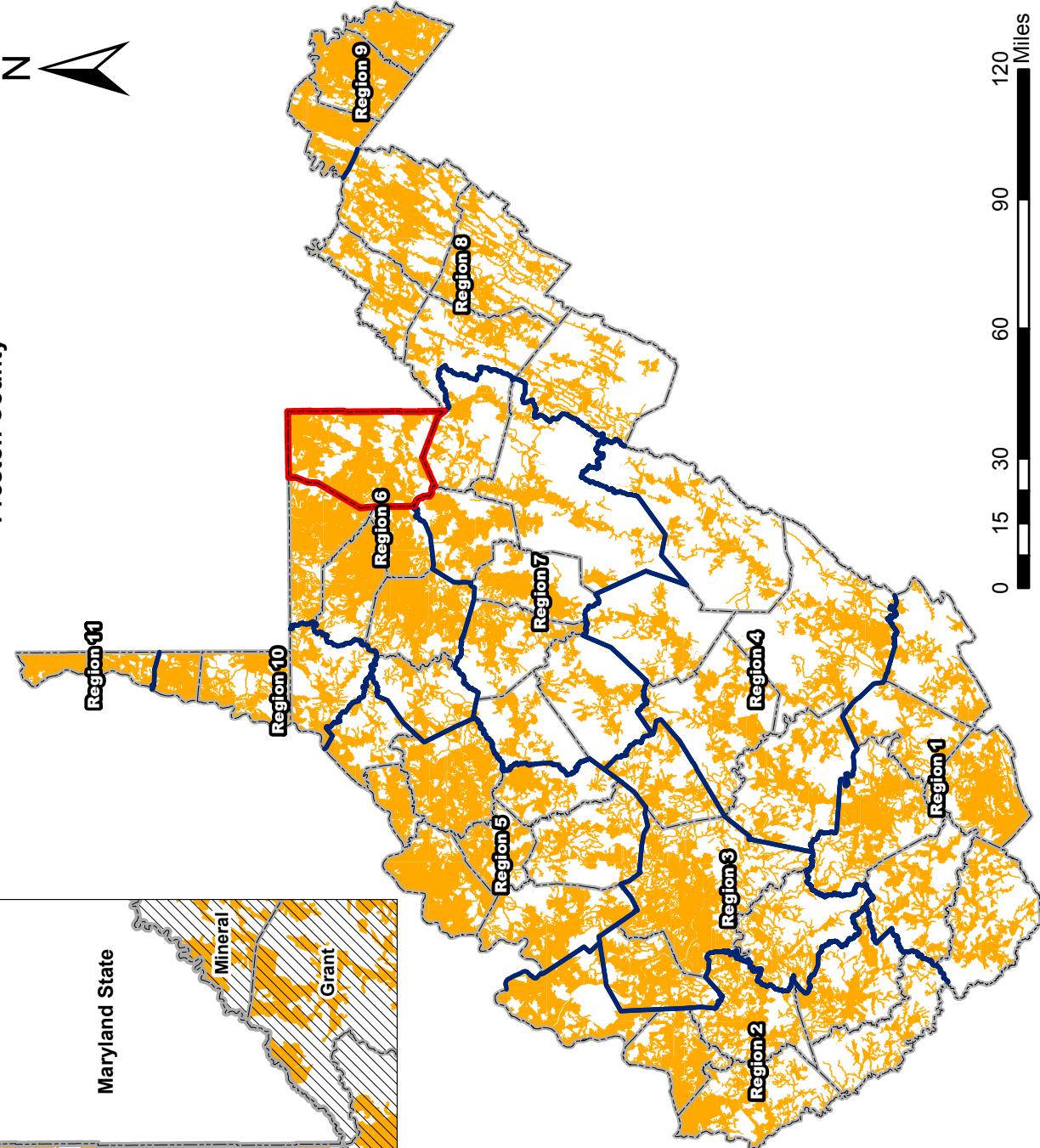
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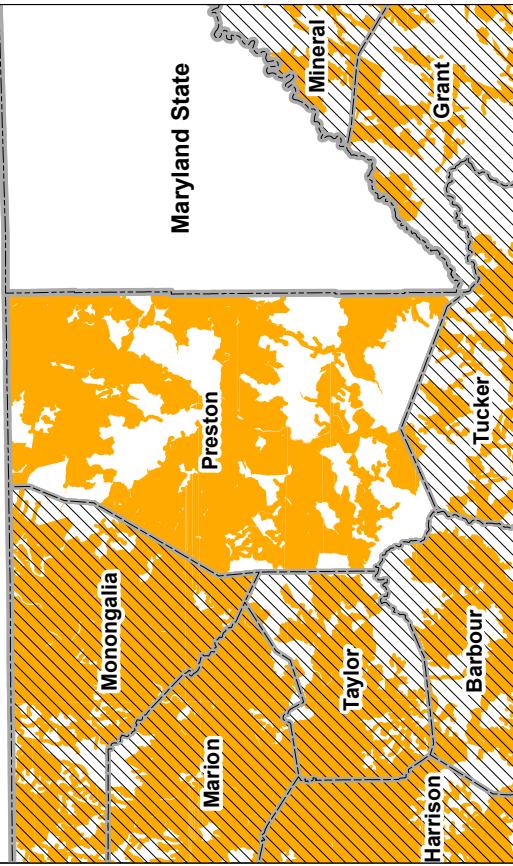
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Broadband - Internet Wireline Coverage

Preston County



Pennsylvania State

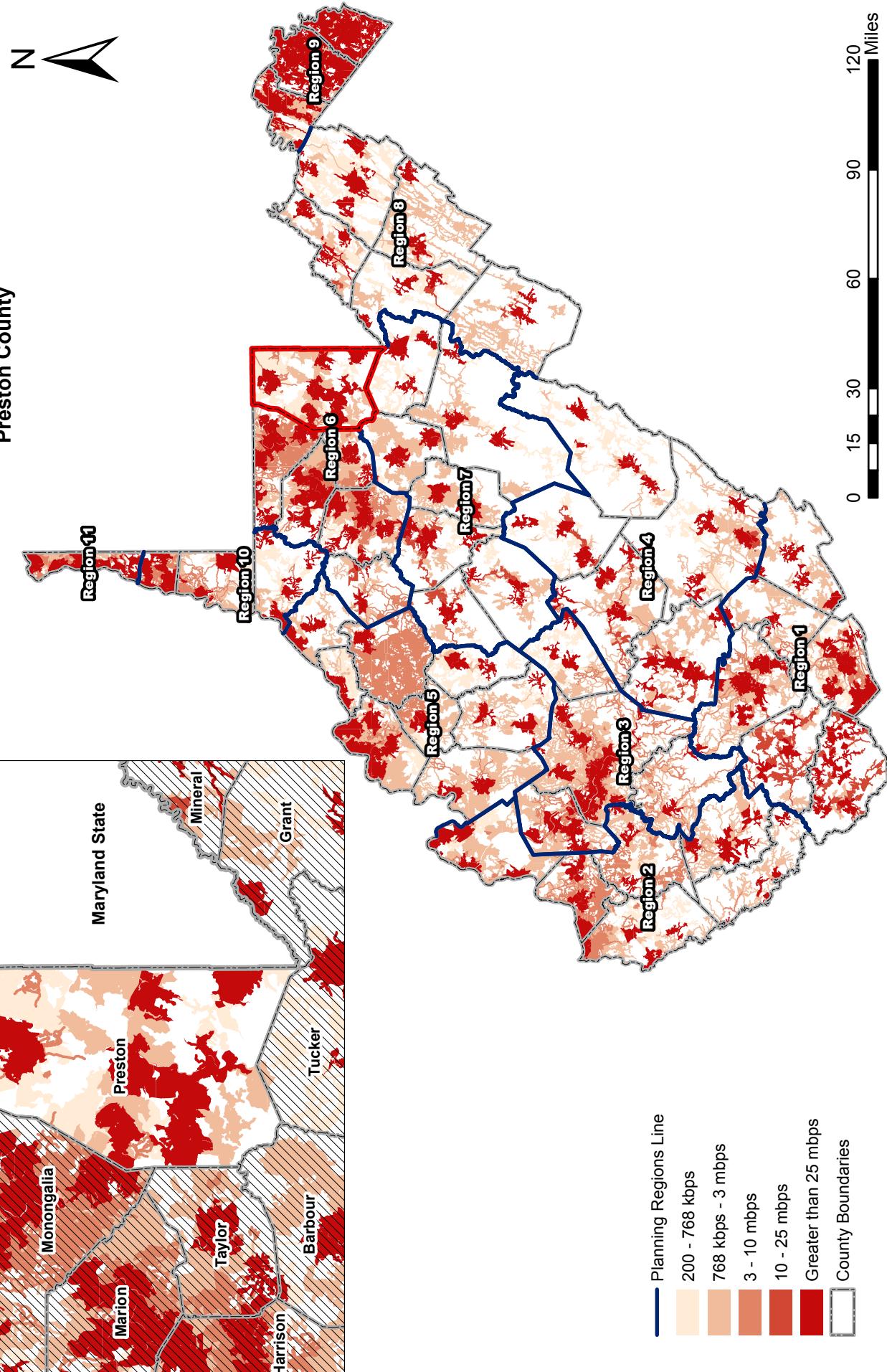


- Planning Regions Line
- Wireline Coverage
- County Boundaries

Source: West Virginia Broadband Mapping Program 2014

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Broadband - Internet MaxUp Speed Wireline

Source: West Virginia Broadband Mapping Program 2014

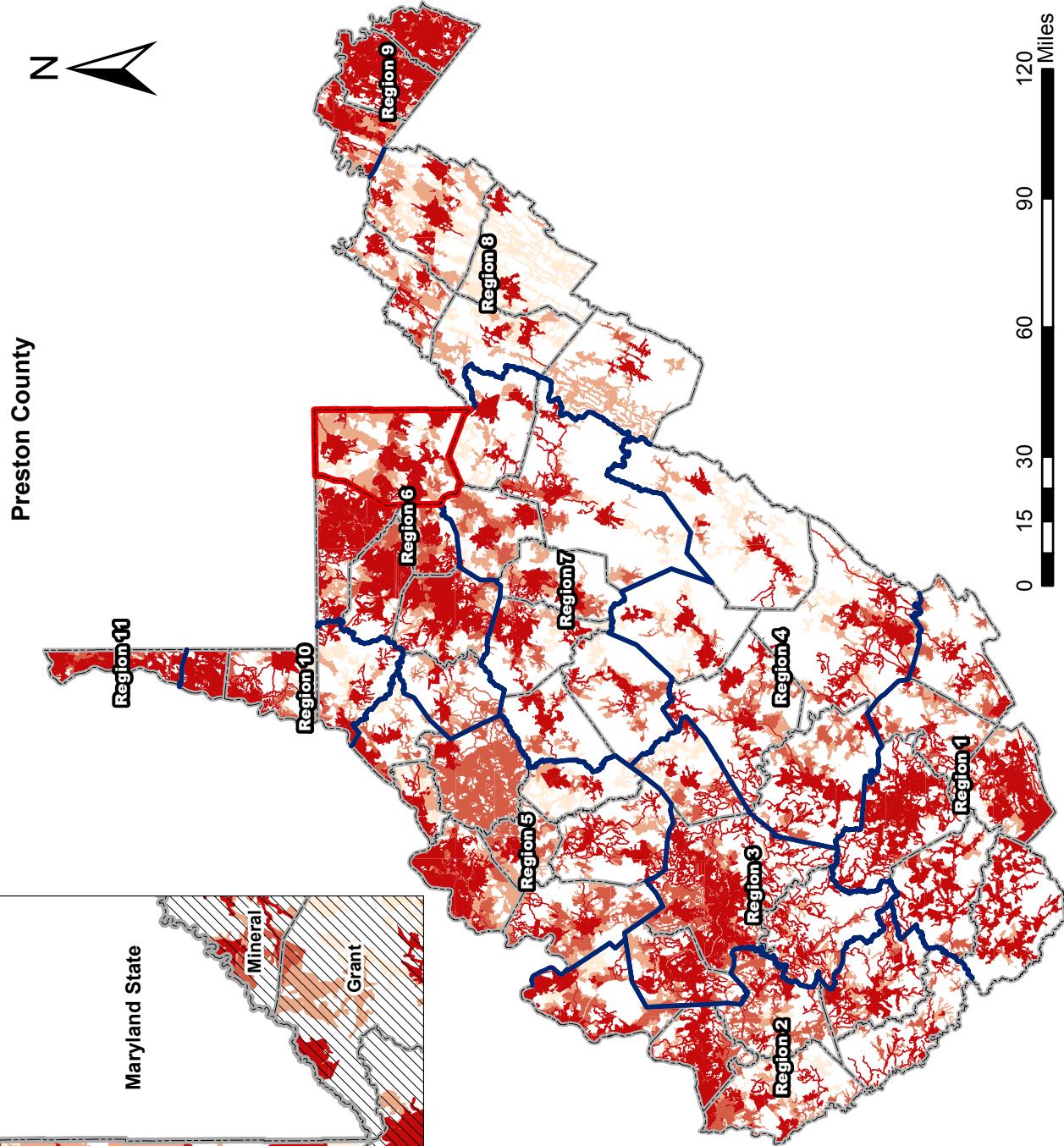
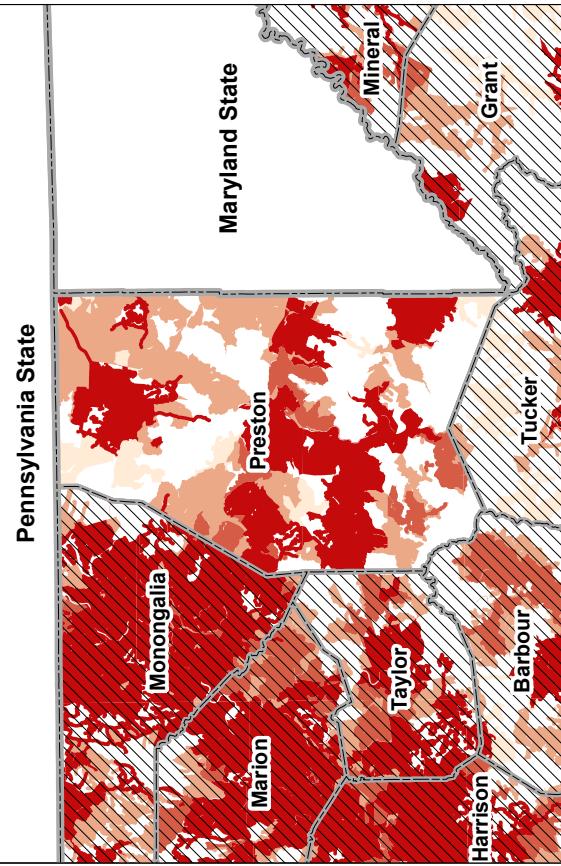
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Broadband - Internet MaxDown Speed Wireline



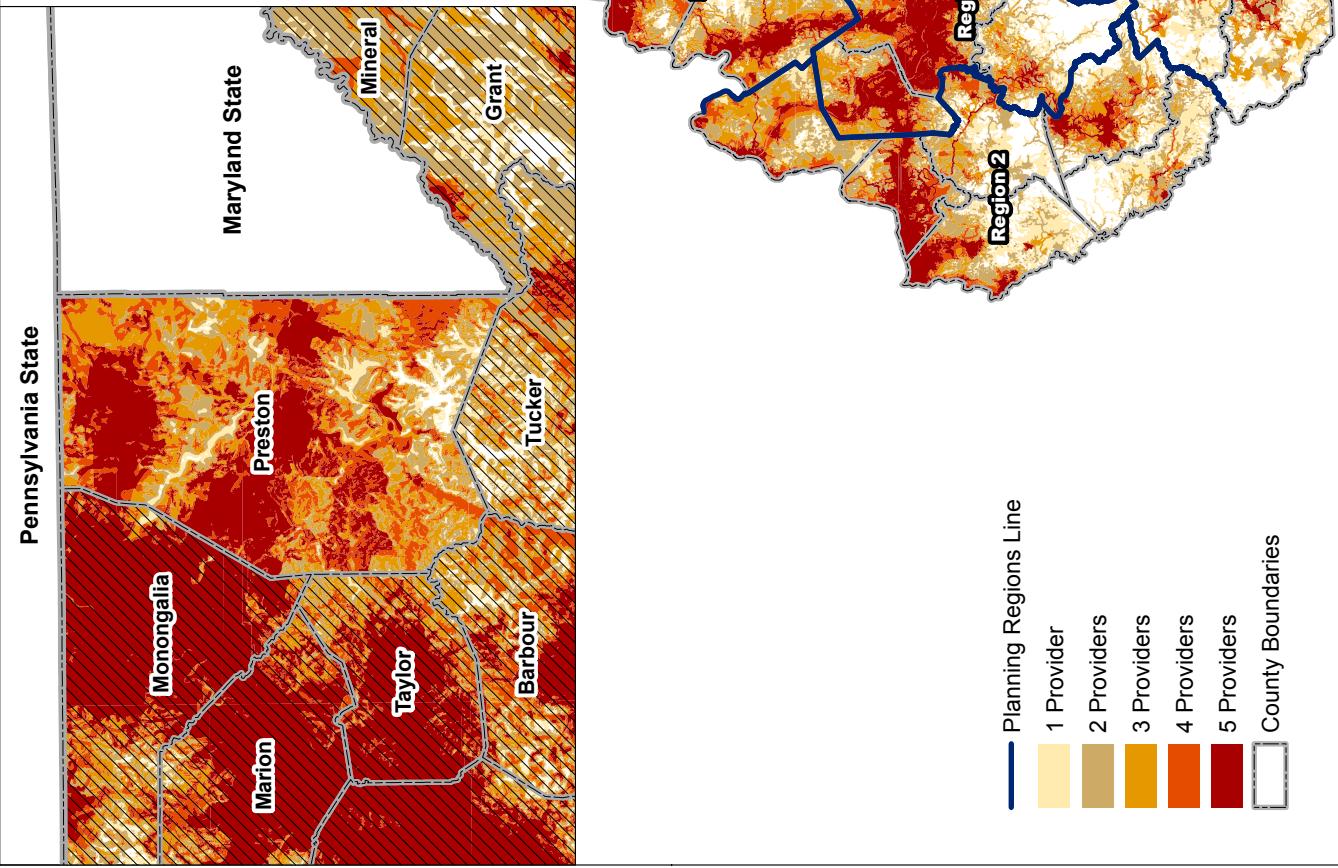
- Planning Regions Line
- 768 kbps - 3 mbps
- 3 - 10 mbps
- 10 - 25 mbps
- Greater than 25 mbps
- County Boundaries

Source: West Virginia Broadband Mapping Program 2014

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Broadband - Internet Total Number of Providers

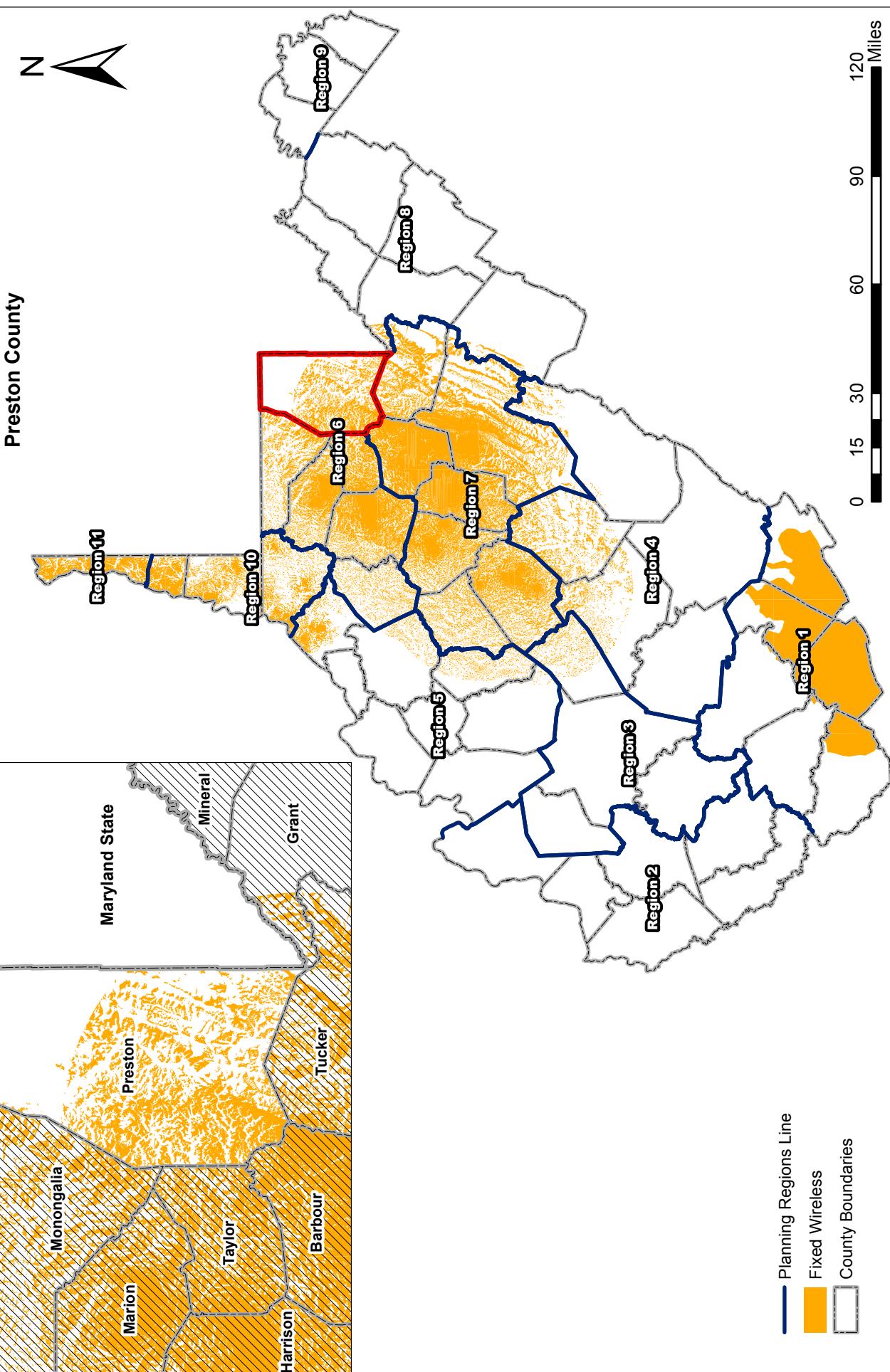


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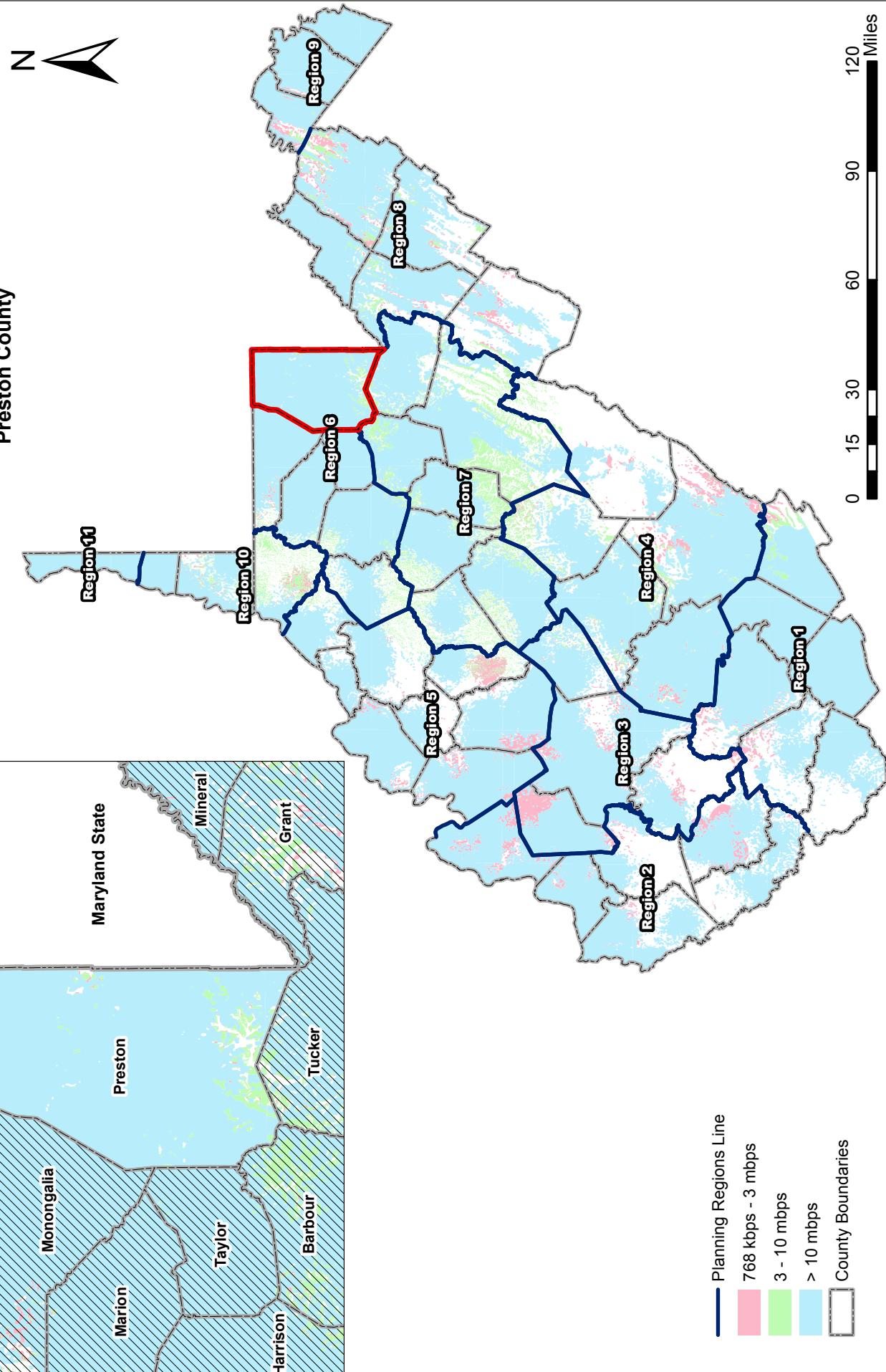
Broadband - Internet Fixed Wireless Coverage

Source: West Virginia Broadband Mapping Program 2014

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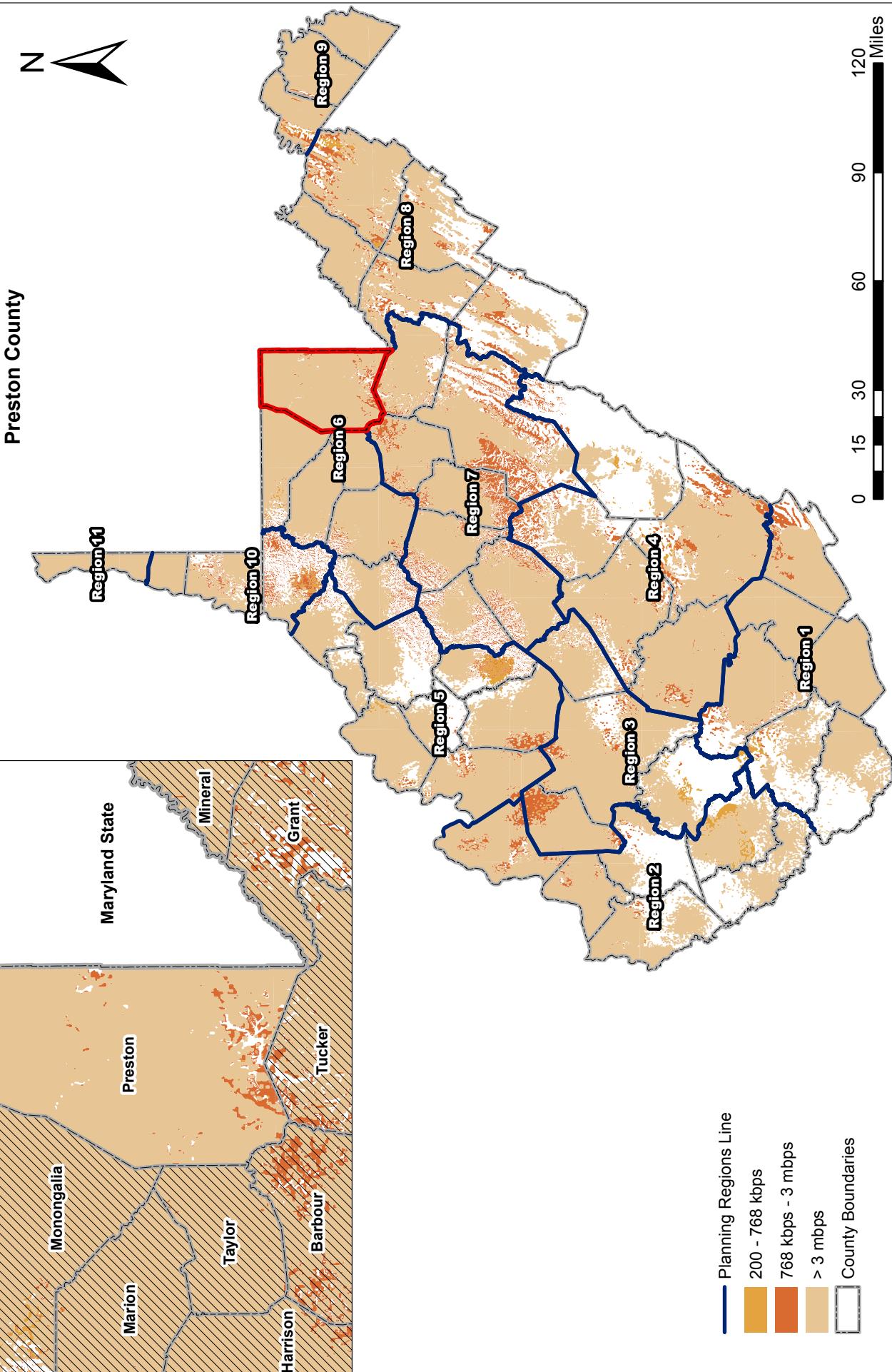
Broadband - Internet MaxDown Speed Wireless

Source: West Virginia Broadband Mapping Program 2014

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Broadband - Internet MaxUp Speed Wireless

Source: West Virginia Broadband Mapping Program 2014

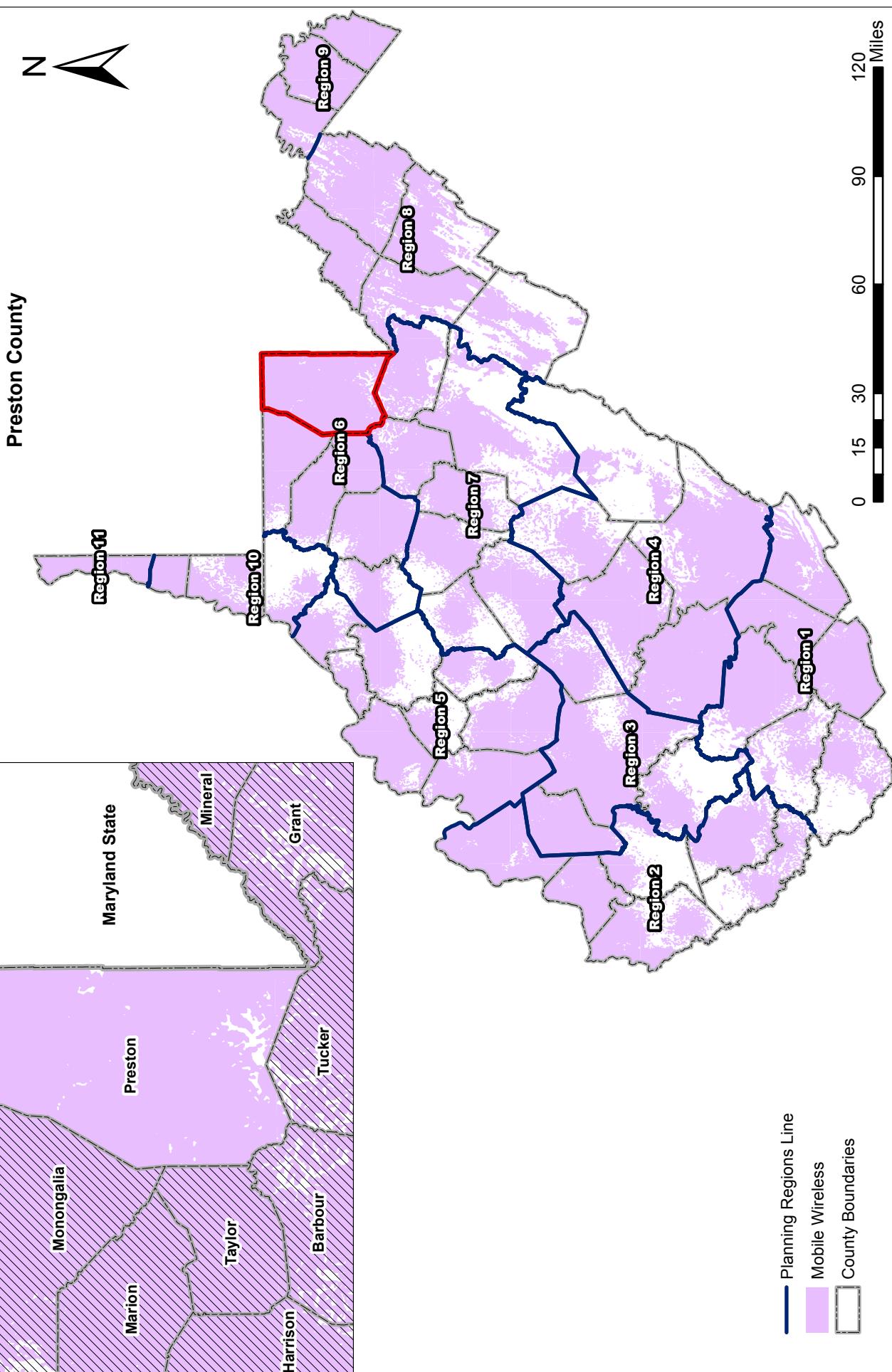
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Broadband - Internet Mobile Wireless Coverage



Source: West Virginia Broadband Mapping Program 2014

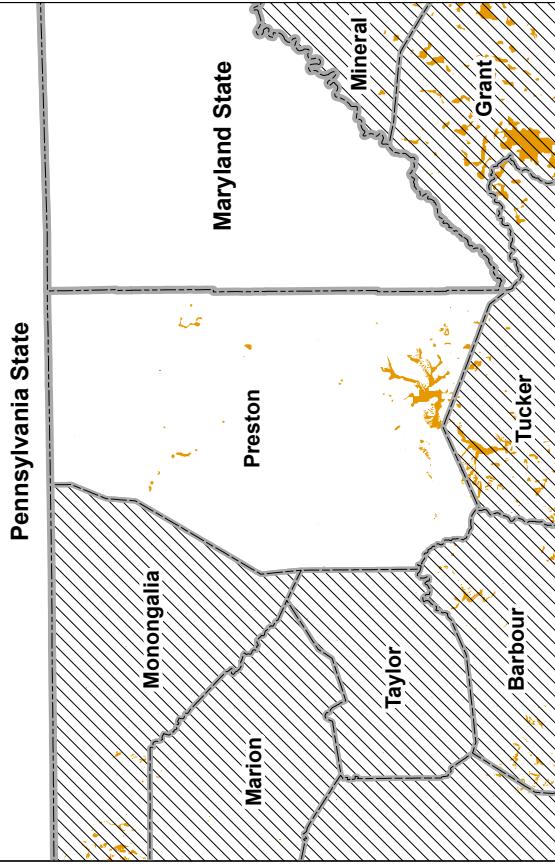
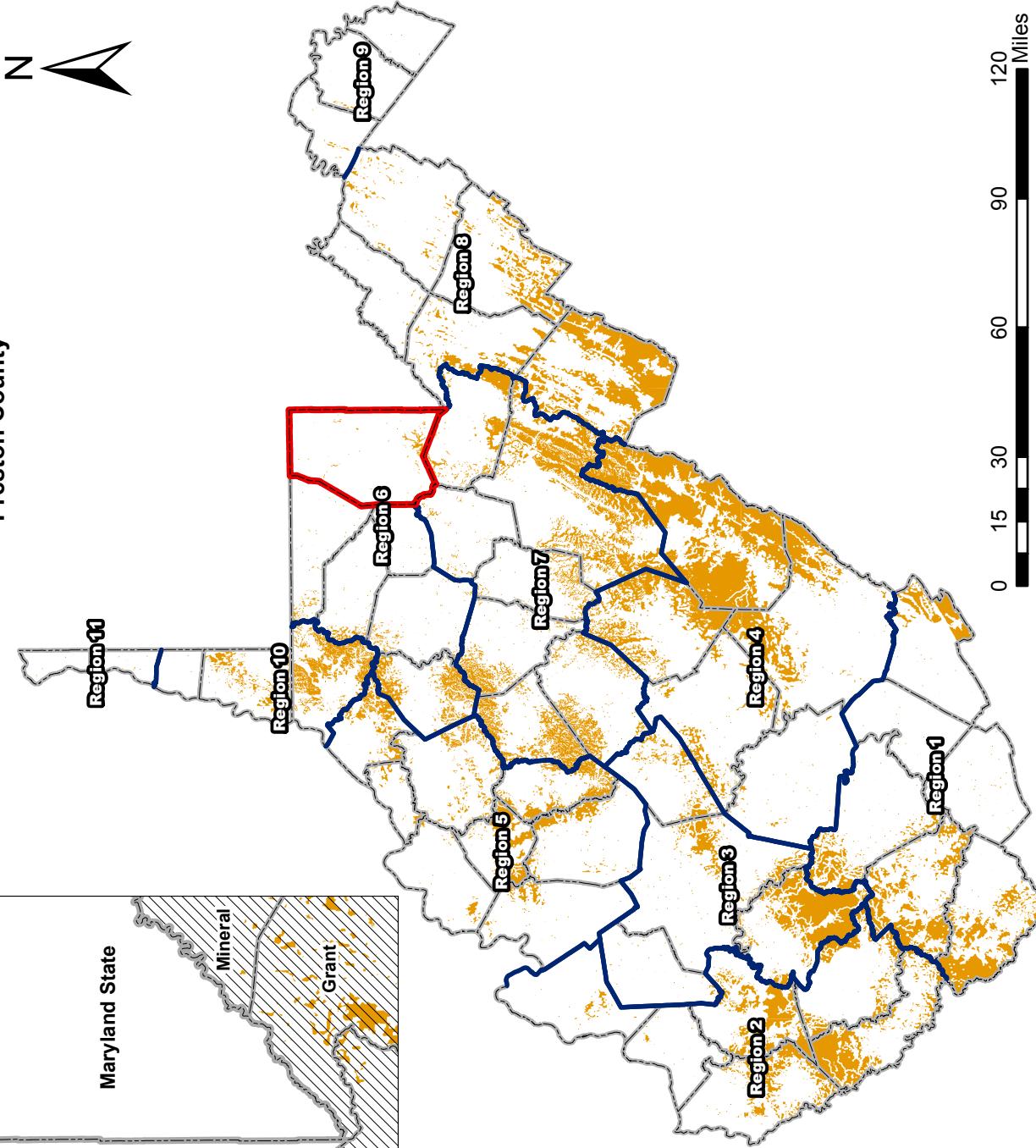
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Broadband - No Broadband Coverage

Preston County



- Planning Regions Line
- No Coverage Reported
- County Boundaries

Source: West Virginia Broadband Mapping Program 2014

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Transportation

Highways

Preston highway transportation include I-68 in the northern portion of the County, two U.S. routes (Route 50 and Route 219), and five State Routes 7, 24, 26, 72, and 92 (Map 26).

Rail

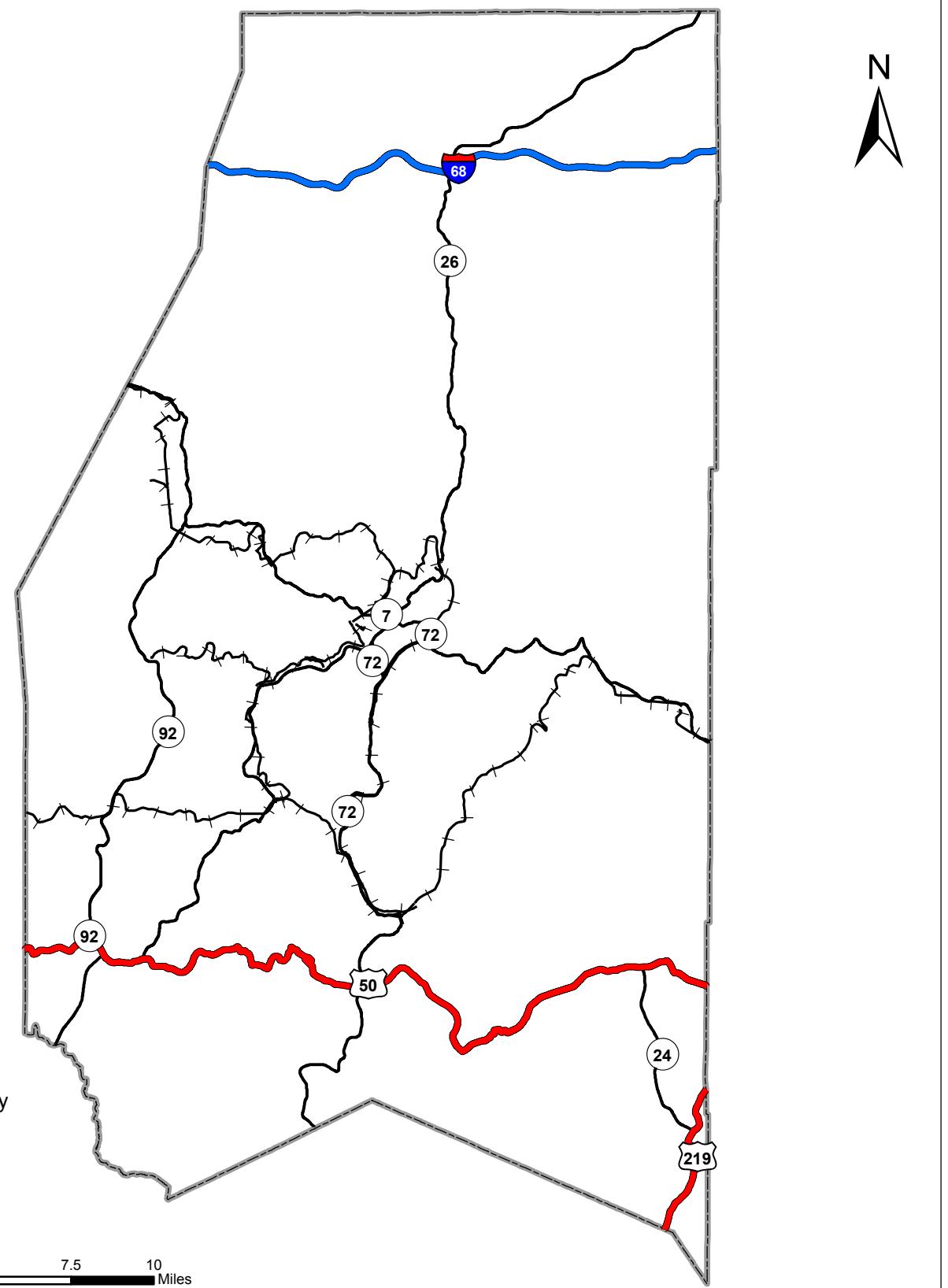
Preston has a rail system present in the central portion of the County.

Air

Preston County has no airports.

Transportation

Preston County



Source: Airports; United States Department of Transportation 2012, West Virginia GIS Technical Center; US Routes, West Virginia Routes; West Virginia Department of Transportation 2012; Railroads; Rahall Transportation Institute 2012

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Current Post-Mine Economic Development Sites

Preston County has three major developments on its post-mine sites. This is an encouraging sign showcasing interest in post-mine land development, and the diversity in development types signifies the varying interests that post-mine land can be utilized to attract.

Northpointe Business and Industry Park

Northpointe Business and Industry Park is located in Hazleton, West Virginia.⁷ The Park sits on approximately 64 acres of land and accommodates 11 lots, the majority of which have been sold. Businesses located at the Park include Puris, LLC (a titanium powder producer), Mountain Craft Wide Plank (a hardwood production company), and FMW Composite Systems, Inc. (a composite provider and manufacturer of titanium alloy products).^{8,9,10}

USP Hazelton

USP Hazelton is a high-security U.S. penitentiary located near the Northpointe Business and Industry Park in Preston County. Operated by the Federal Bureau of Prisons, the Facility can house nearly 2,340 inmates and includes a secure female facility. USP Hazelton was opened in 2004.¹¹

Valley Industrial Park

Valley Industrial Park is located in Reedsville, West Virginia.¹² The Park's total size is nearly 130 acres and houses such businesses as Fibertech (a fiberglass manufacturer), S&W Industries (a transportation company), and S&W Sanitation (a waste management and remediation service).

Historic Preservation

Historic preservation will be essential in a county steeped in coal mining history. Preston County has 12 listings in the National Register of Historic Places, not including historic districts. There are a number of historic buildings in the County mostly built in the mid- to late-19th Century and early 20th Century that exemplify certain building styles popular at the time (Map 27). Other historic areas have been designated by West Virginia. Map 28 gives a spatial position to each designated State historic piece of architecture.

⁷ West Virginia Development Office. n.d. "Available Property: Northpointe Business & Industry Park." Charleston, WV: West Virginia Development Office.

⁸ McCloud, Cynthia. 2014. "Preston firm makes pure titanium powder." Charleston, WV: *The State Journal*.

⁹ MetroNews. 2014. "Hardwood production company selects Preston County as location for headquarters." Charleston, WV: *MetroNews*.

¹⁰ WBOY. 2012. "FMW Composite Systems expanding Preston site." Clarksburg, WV: WBOY.

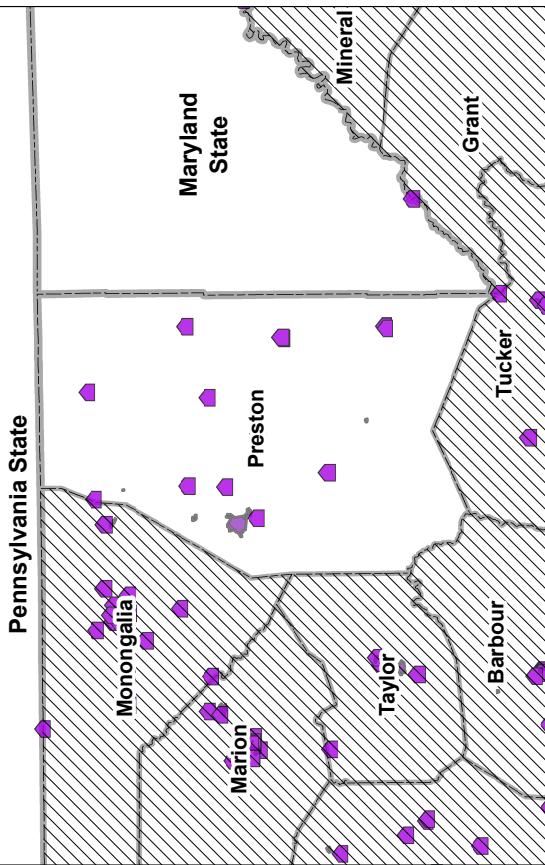
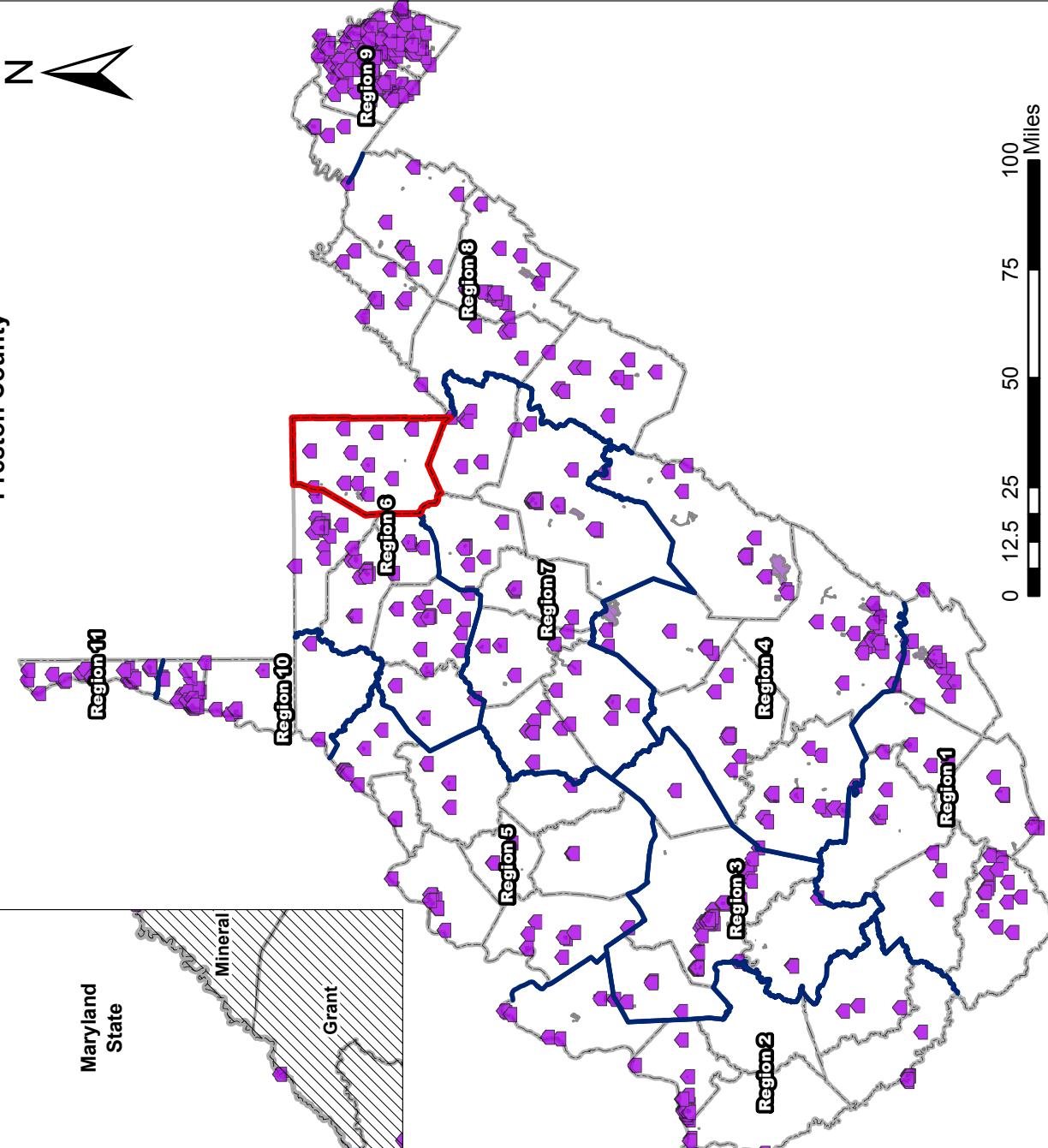
¹¹ Federal Bureau of Prisons. 2015. "USP Hazelton." Accessed March 26, 2015.

<http://www.bop.gov/locations/institutions/haz/>

¹² West Virginia Development Office. n.d. "Available Property: Valley Industrial Park." Charleston, WV: West Virginia Development Office.

National Register of Historic Place

Preston County



- ◆ National Register of Historic Place
- Planning Regions Line
- National Register of Historic Place (Area)
- County Boundaries

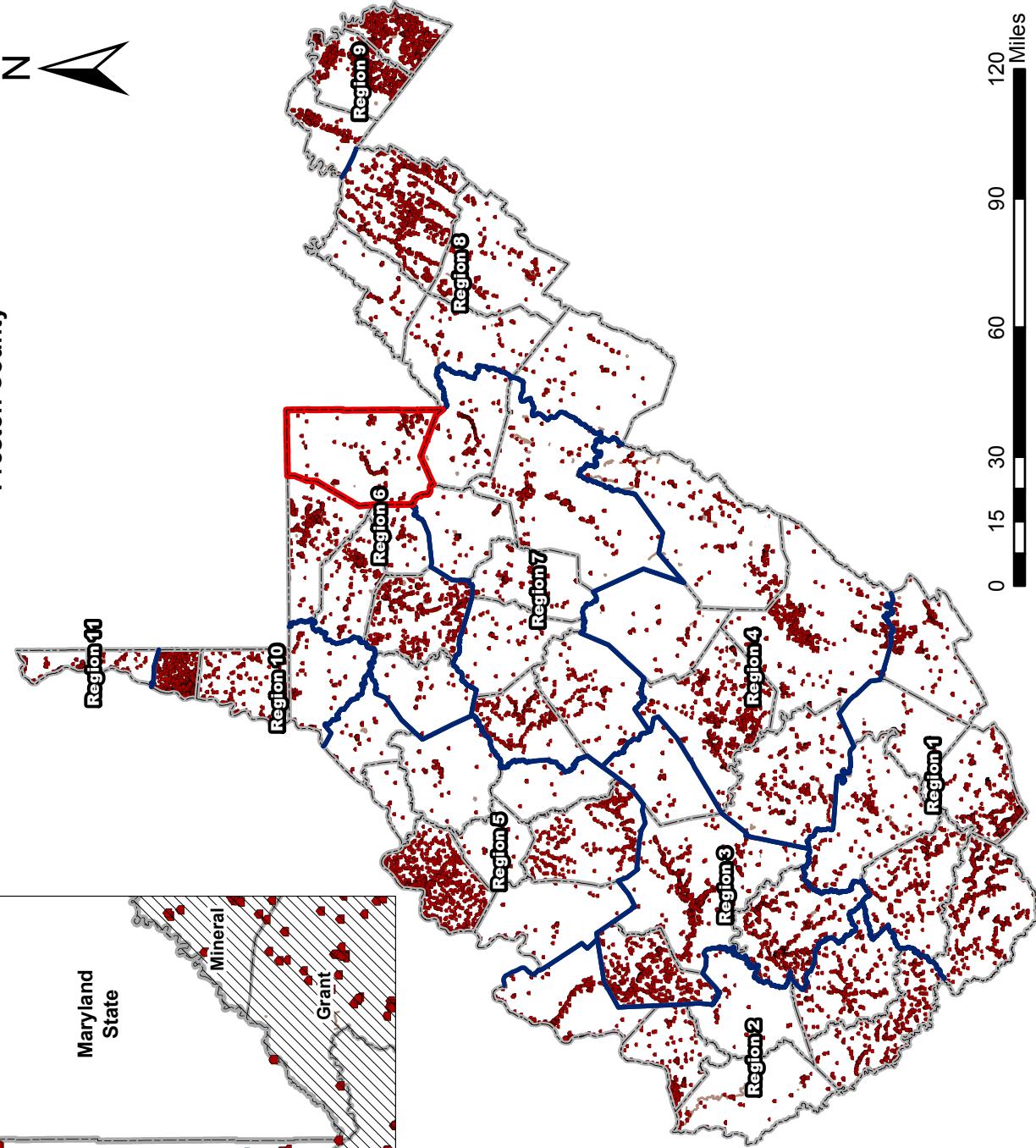
Source: West Virginia State Historic Preservation Office 2014

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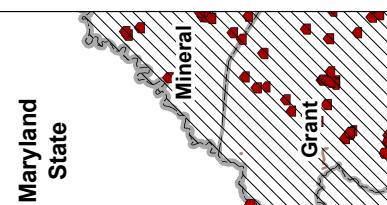


State Historic Architecture

Preston County



Pennsylvania State



- State Historic Architecture
- Planning Regions Line
- State Historic Architecture (Area)
- County Boundaries

Source: West Virginia State Historic Preservation Office 2012

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Natural Resources, Environment, and Energy

Particular importance should be given to the spatial positions of natural resource areas, geographic environments, and potential energy resources in a county. This serves to inform potential investors about what possibilities the land provides for production of resources and energy. Preston County has several advantages in these areas that can be utilized to the advantage of the citizens.

West Virginia has an extensive wetlands inventory, because of its extensive system of lakes, streams, and rivers. Wetlands provide many environmental benefits, including housing fish, replenishing groundwater, and relaying nutrients. Preston's wetland inventory is clustered and present mostly in the northern portion of the County (Map 29).

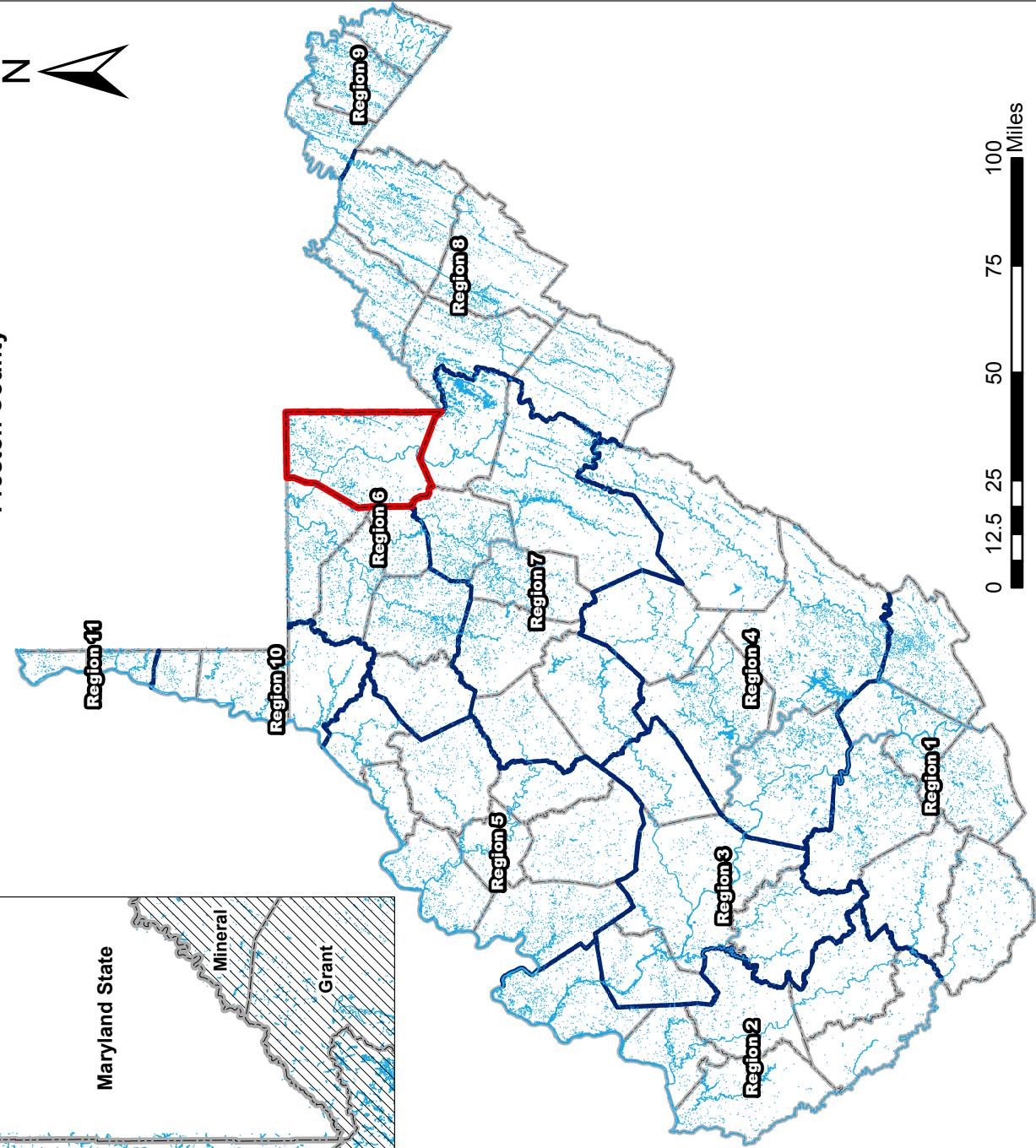
The State also possesses a respectable amount of park and forest land. Most of this land is located in the eastern portion of the State, the area that contains the main part of the Appalachian Mountain range. Preston County contains a few small areas of state and national forests and wildlife management areas (Map 30).

Air quality is a necessary environmental health benchmark that can determine the health and vitality of an area's residents. The air pollution non-attainment areas are "areas of the country where air pollution levels persistently exceed the national ambient air quality standards."¹³ There are four full counties in West Virginia that are designated air pollution non-attainment areas, either in annual or 2006 24-hour standards as of the publication of this plan; Preston County is not among them (Map 31).

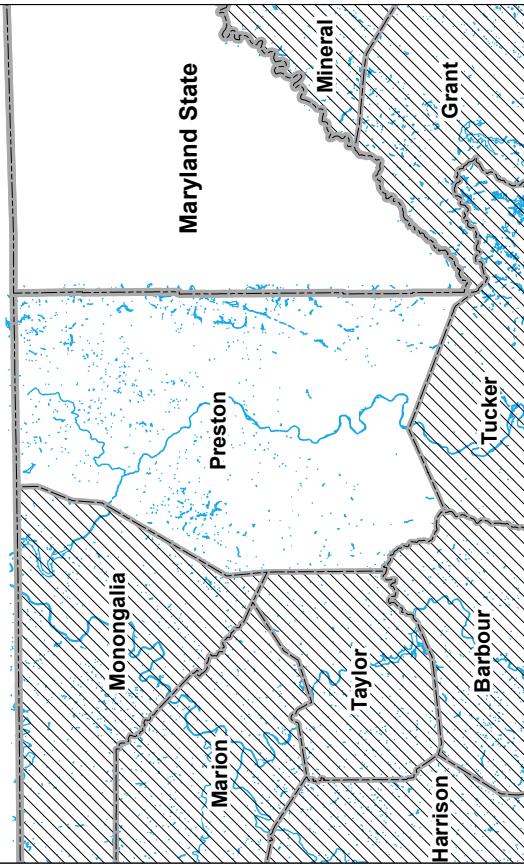
¹³ "The Green Book Nonattainment Areas for Criteria Pollutants," Environmental Protection Agency, Accessed March 1, 2013, <http://www.epa.gov/oaqps001/greenbk/>.

Hydrology - National Wetlands Inventory

Preston County



Pennsylvania State



Planning Regions Line

National Wetlands Inventory

County Boundaries

Source: United States Fish and Wildlife Service 1986

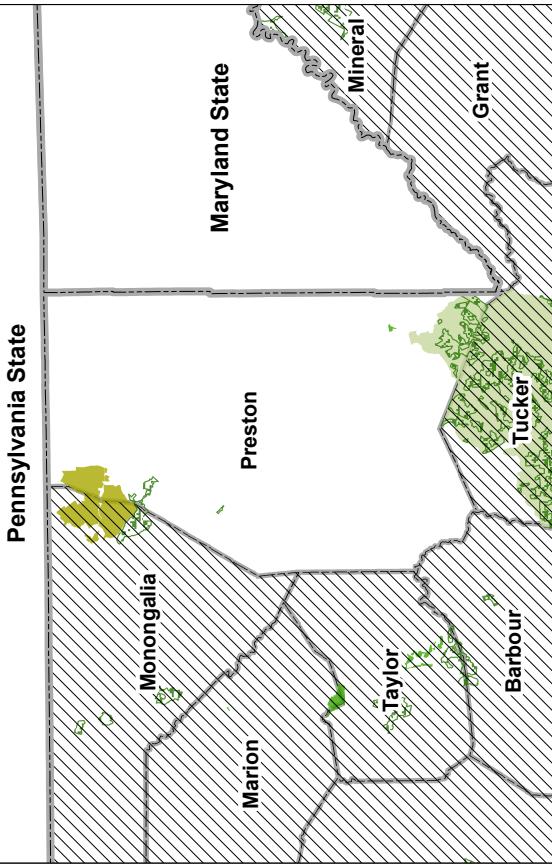
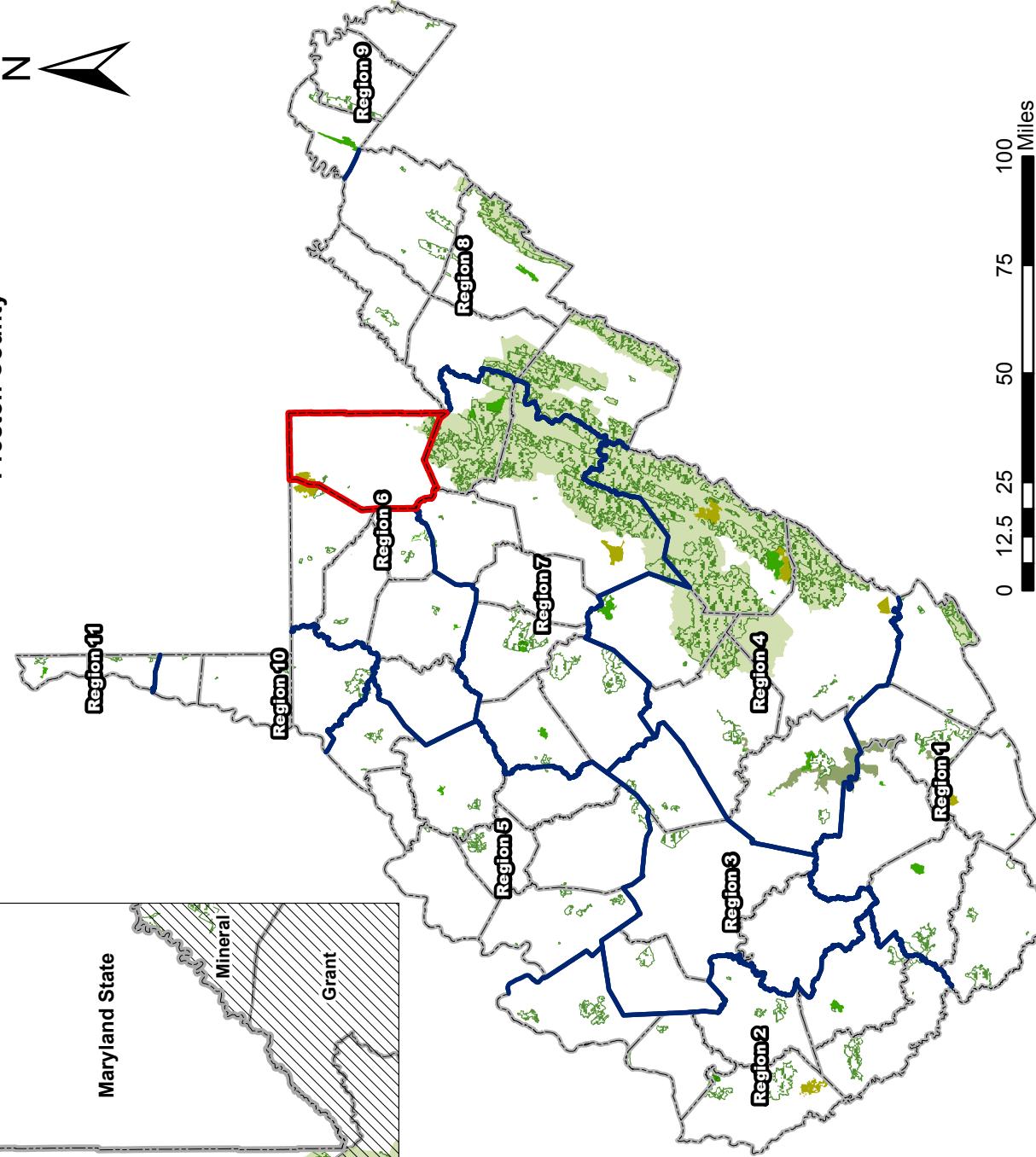
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Public Land - Parks and Forests

Preston County



- Planning Regions Line
- Wildlife Management Areas
- State Forest
- State Park
- National Forest
- National Park
- County Boundaries

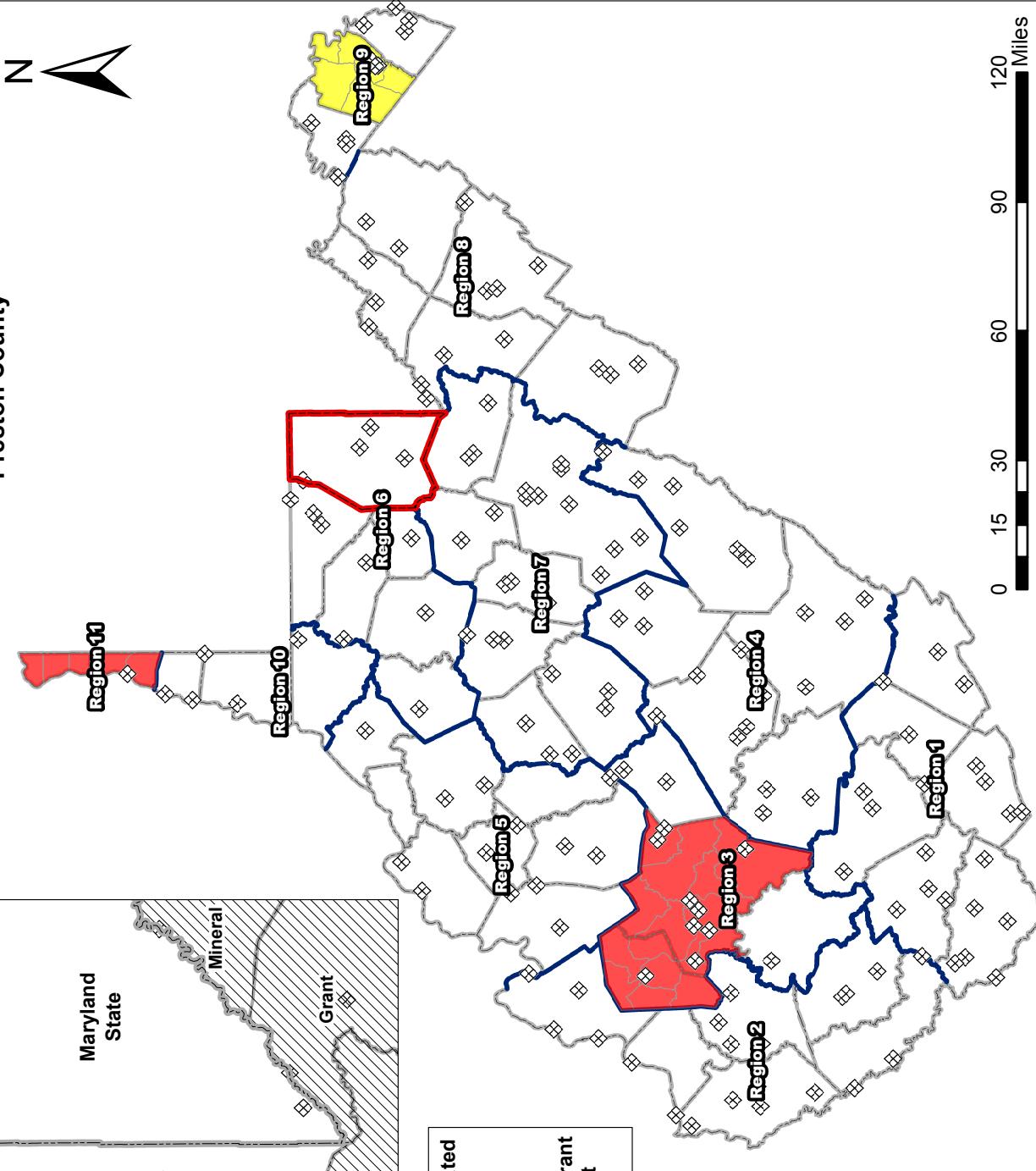
Source: Wildlife Management Areas; West Virginia Division of Natural Resources 2002; State Forest; West Virginia Division of Forestry 2004; State Park; West Virginia Division of Natural Resources, Natural Resource Analysis Center 2000; National Forest; United States Forest Service 2005; National Park; United States National Park Service 2003

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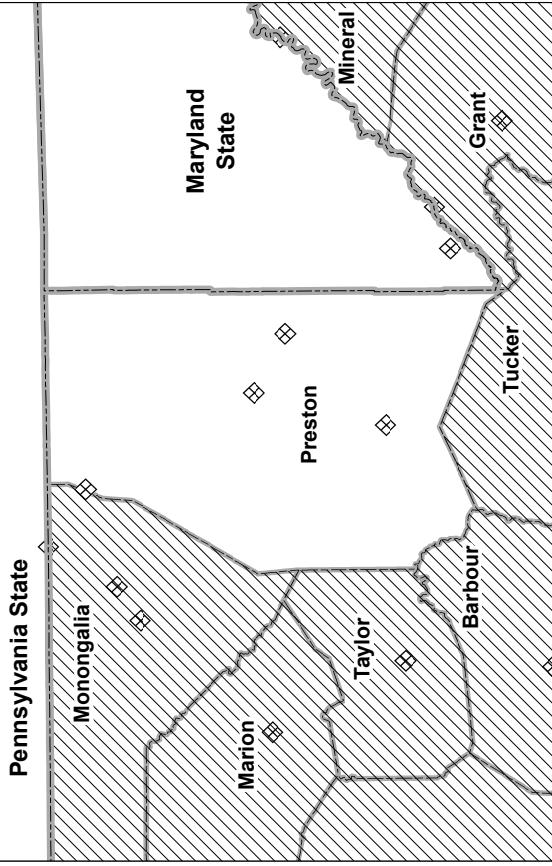
Environment - Monitoring

Preston County



+ On December 28, 2012, U.S.EPA re-designated Cabell and Wayne Counties and the Graham Tax District in Mason County to attainment for the 1997 NAAQS.
 + September , 2013, U.S.EPA re-designated Wood, Marshall and Ohio Counties and the Grant Tax District in Pleasants County to attainment for the 1997 NAAQS.

- ❖ Weather_ Stations
- Planning Regions Line
- Air Pollution Non Attainment Areas**
- PM2.5 Nonattainment Areas (for both the Annual and the 2006 24-hr Standards)
- PM2.5 Nonattainment Areas (Annual)
- County Boundaries



Source: Weather Stations; National Oceanic and Atmospheric Administration 1999; Air Pollution Non Attainment Areas; West Virginia Department of Environmental Protection and United States Environmental Protection Agency, 2013

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West Virginia's past and most likely its future are defined by energy. Besides coal, other options for energy have been investigated in the State. Gas and oil are of course the main energy staples in the nation, and West Virginia has access to this energy in a number of ways. Preston County has gas pipelines that run through the county, but no oil or oil pipeline presence (Map 32). Preston County does have play in the Marcellus shale, with a small number of completed and larger number of permitted wells (Map 33). The Marcellus Shale will continue to be a major player in West Virginia's energy layout for the foreseeable future, and as technology improves recoverability may also.

Potential renewable energy sources were also examined. Wood by-products are a potential energy source classified as biomass energy. Naturally it is most useful in areas with a great deal of wood products. West Virginia is one of the most forested States in the country. Preston County appears to be among the least forested counties in West Virginia (Map 34), but does have some wood by-products activity, with an above-average level of production of bark, chip, and sawdust volume in the state and a below-average volume of these wood by-products available (Maps 35 and 36).

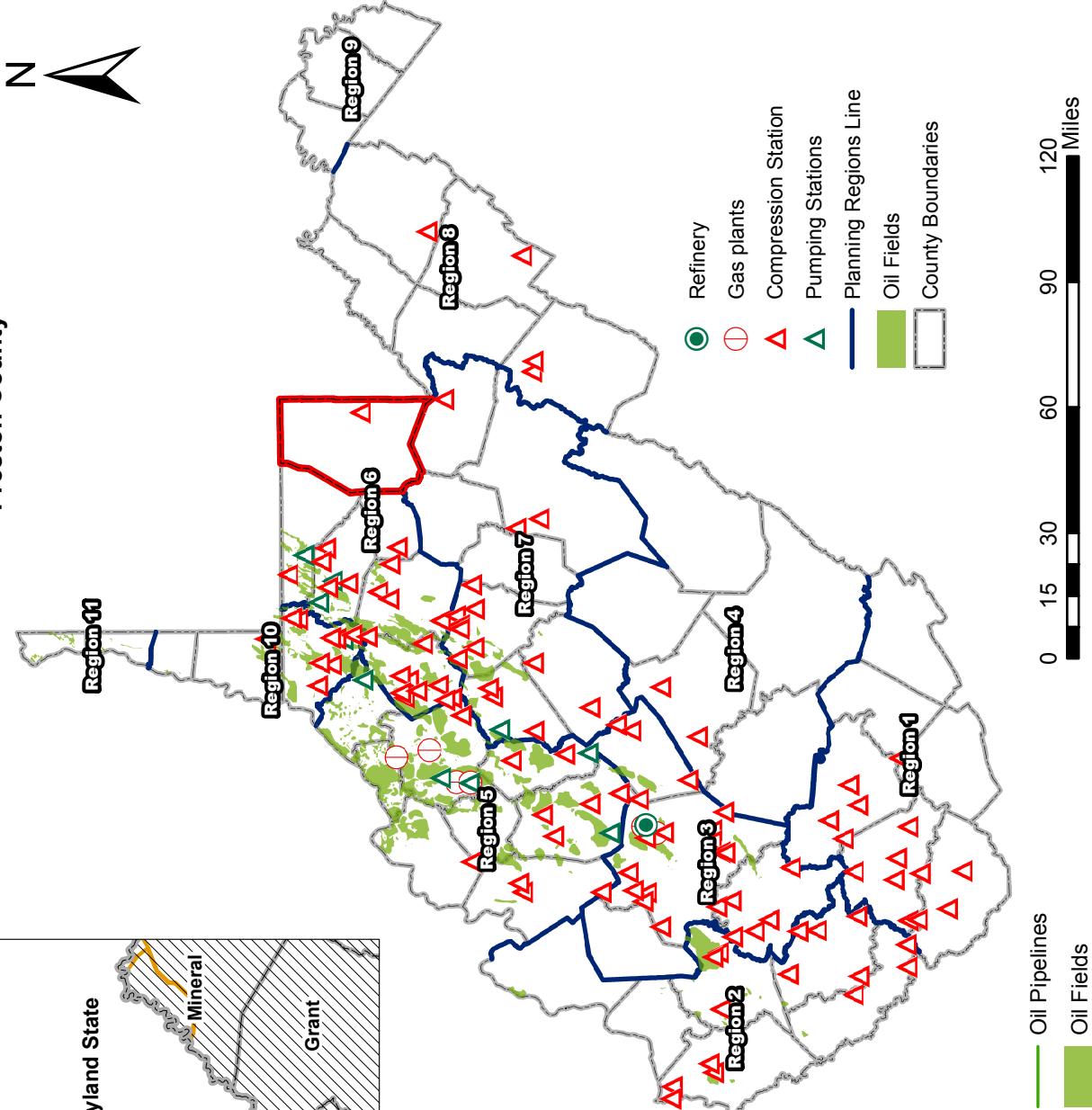
Other potential renewable energy sources include geothermal (Map 37), solar (Map 38), and wind (Map 39). Each of these resources was examined in a recent report from the Center of Business and Economic Research at Marshall University.¹⁴ None of these sources was "likely to provide fuel or electricity at a lower cost" than coal and oil. Subsidizing these resources appears to be the only way to encourage faster growth in consumption, and in some cases they still have very limited potential in West Virginia. Geothermal energy appears to have great potential in certain parts of the State, as shown in Map 37, and Preston appears to have a more favorable potential for enhanced geothermal systems. The potential for wind and solar development in the County is less favorable, but small portions of the County are ranked as "good" for wind potential. Still, technology is not predictable, and improvements could occur in each of these resource areas that will make generation more feasible. Efforts to monitor research in all these areas should be undertaken to make use of any potential developments.¹⁵

¹⁴ Kent, Calvin, Risch, Christine, and Pardue, Elizabeth. *Renewable Energy Policy: Opportunities for West Virginia*. Center for Business and Economic Research, Huntington, WV (2012).

¹⁵ Ibid.

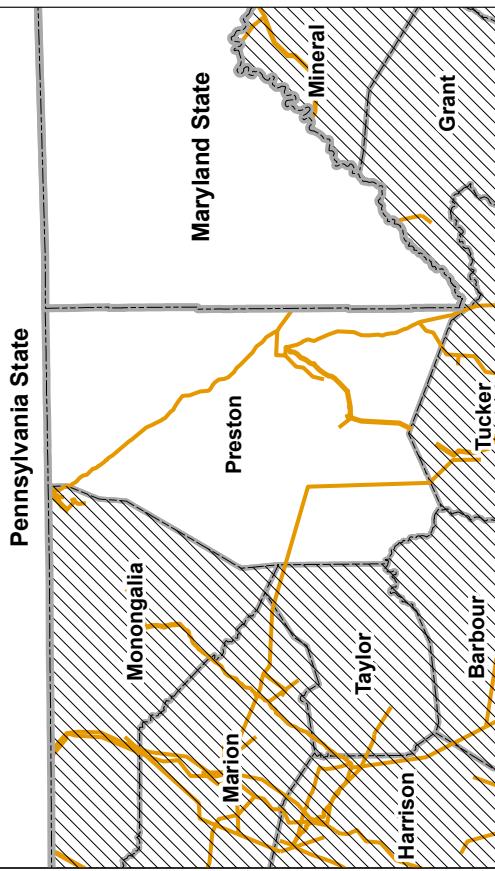
Energy - Gas and Oil

Preston County

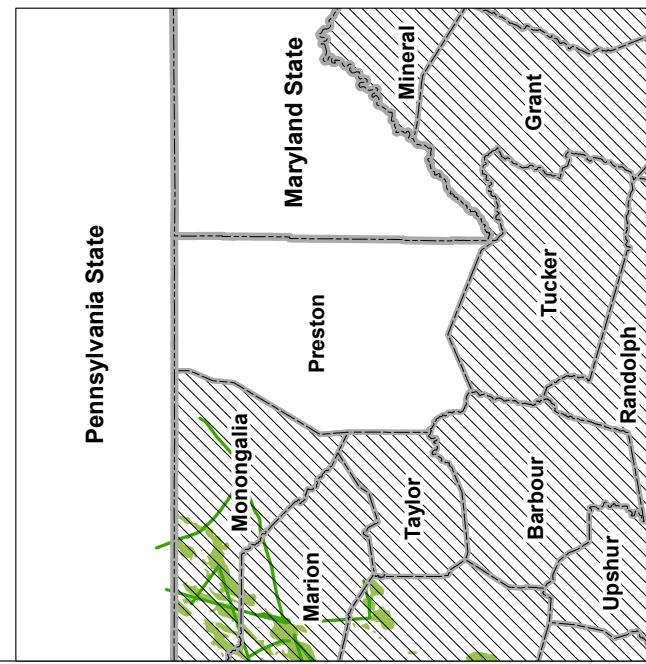


Source: West Virginia Geological and Economic Survey 2007

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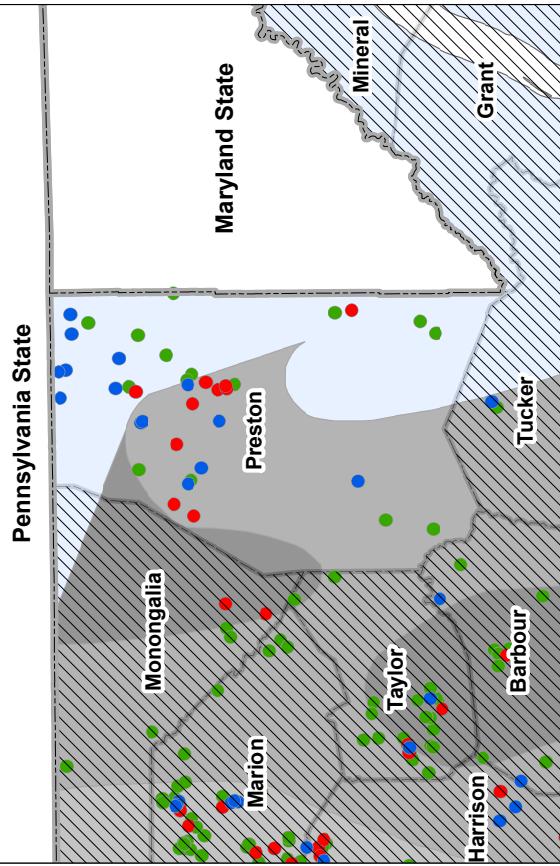
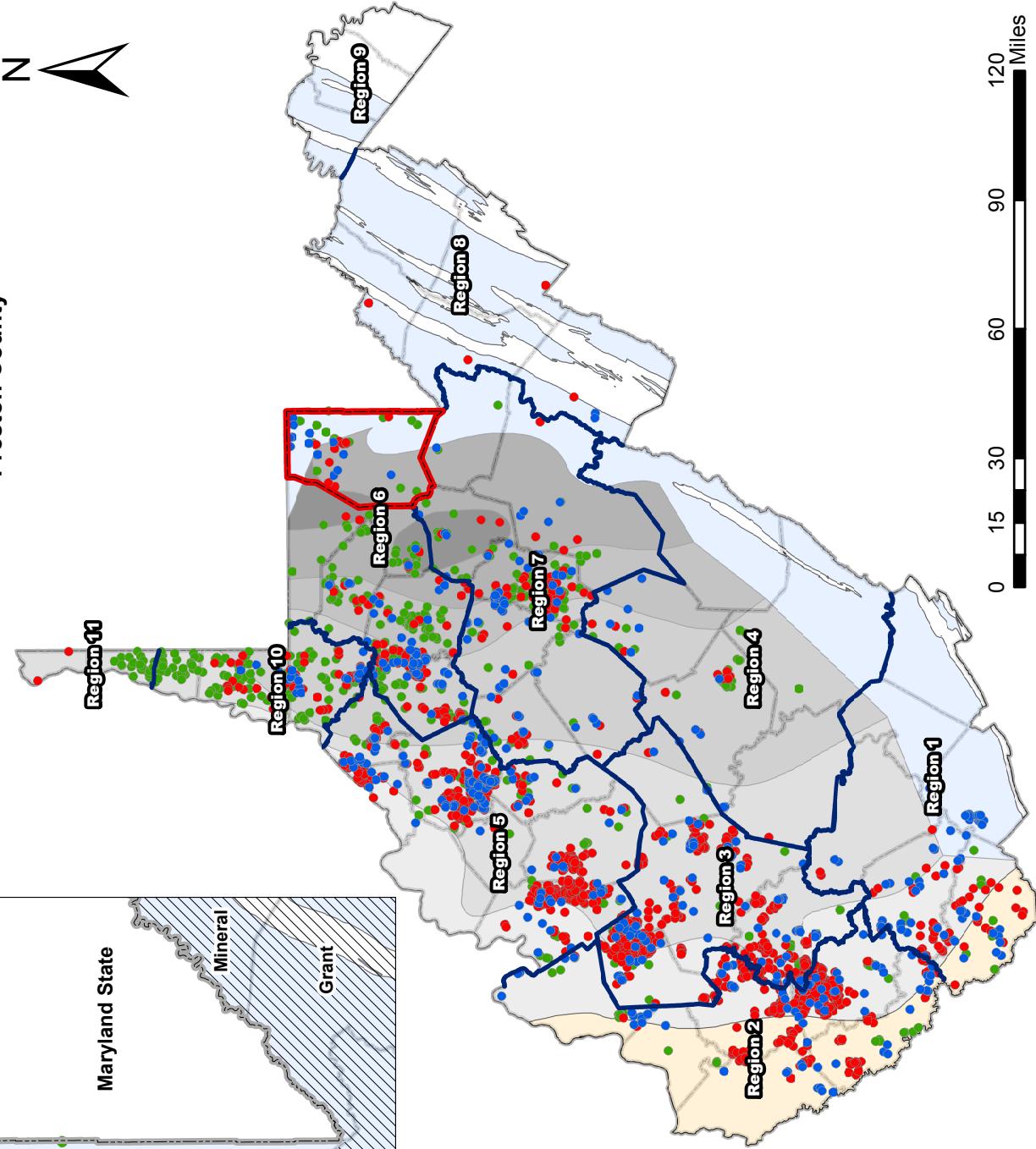


Gas Pipe



Energy - Marcellus Wells

Preston County



- Cancelled Marcellus Wells
- Completed Marcellus Wells
- Permitted Marcellus Wells
- Planning Regions Line
- 0 ft. - 20 ft.
- 21 ft. - 40 ft.
- 41 ft. - 60 ft.
- 61 ft. - 80 ft.
- 81 ft. - 100 ft.
- Over 100 ft.
- Possible/Uncertain Marcellus
- Uncertain thickness
- Marcellus assumed to be absent
- County Boundaries

Source: West Virginia Geological and Economic Survey 2014

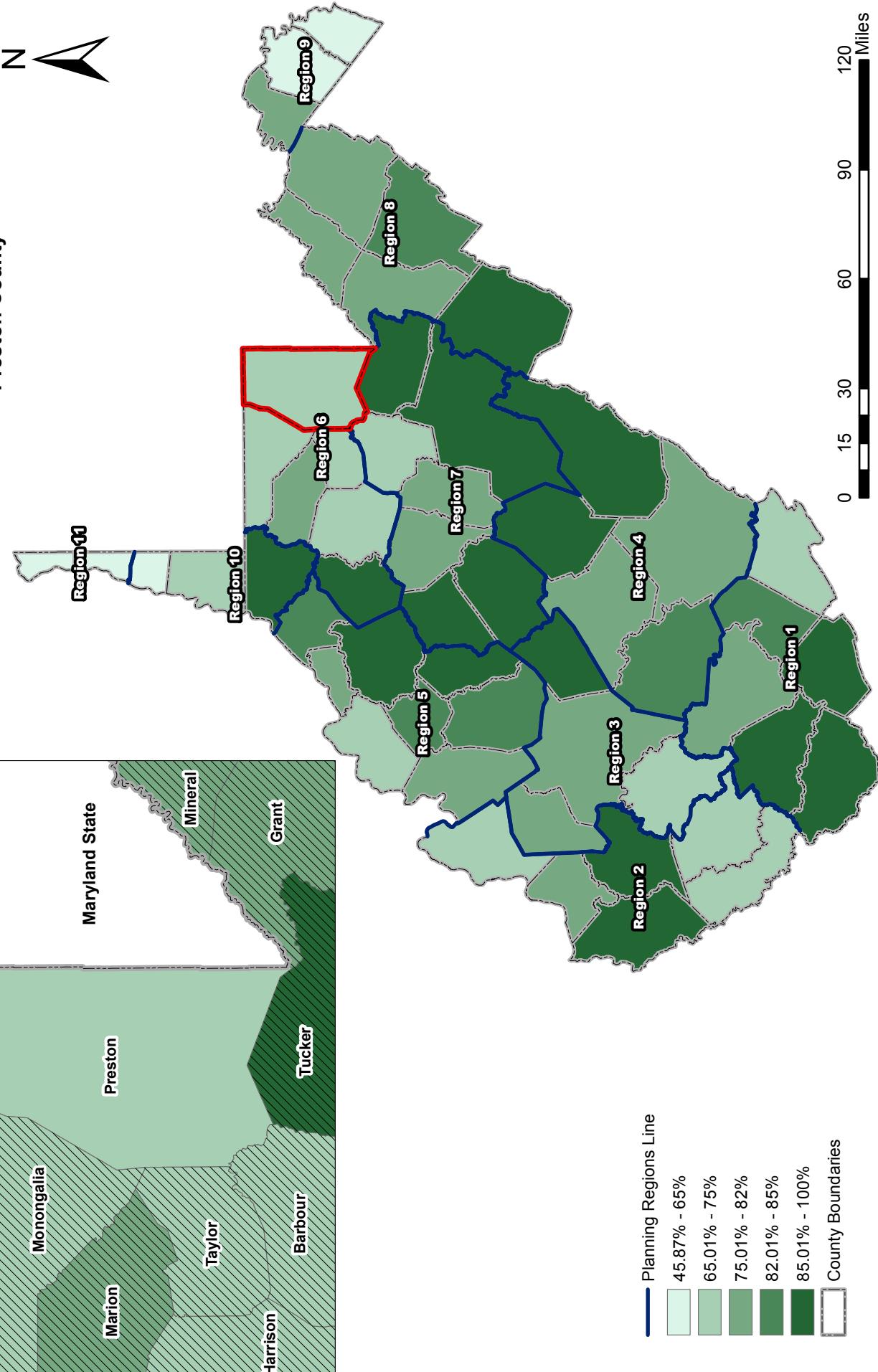
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Energy - Percent Forest Coverage

Preston County



Source: Rahall Transportation Institute 2013

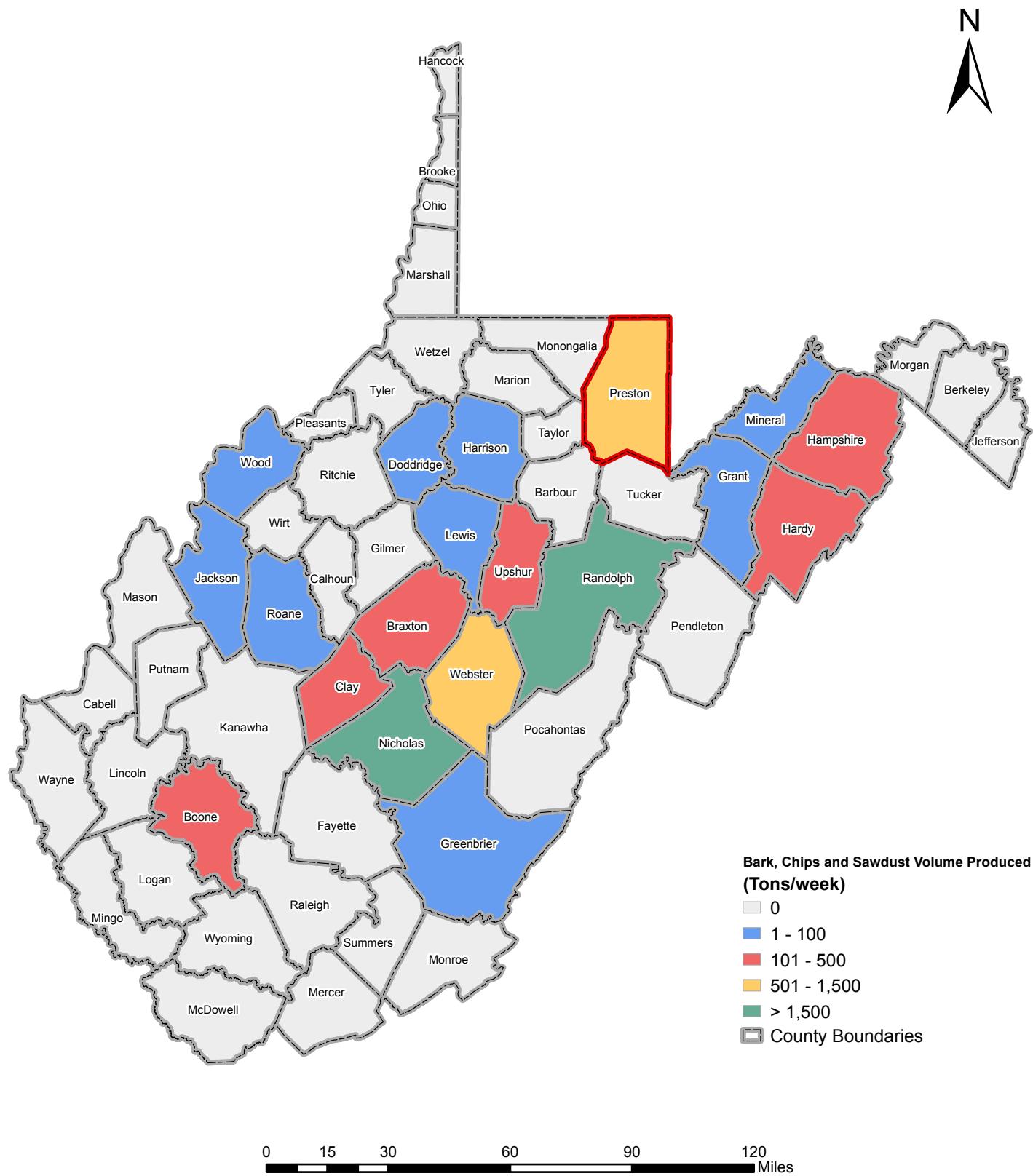
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Renewable Energy - Wood By!Products

Bark, Chip and Sawdust Volume Produced - Preston County



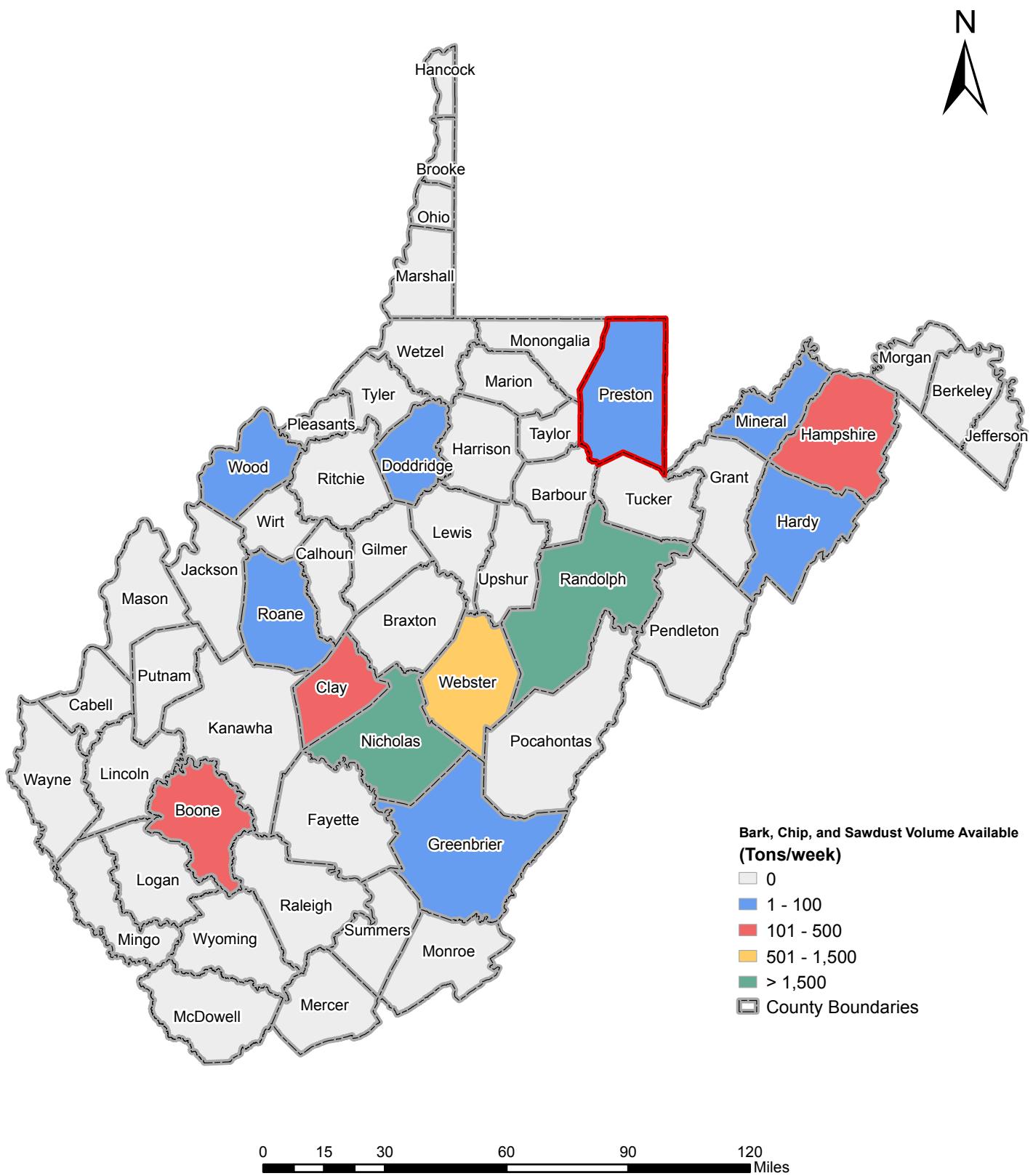
Source: Appalachian Hardwood Center 2011

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Renewable Energy - Wood By!Products

Bark, Chip, and Sawdust Volume Available - Preston County

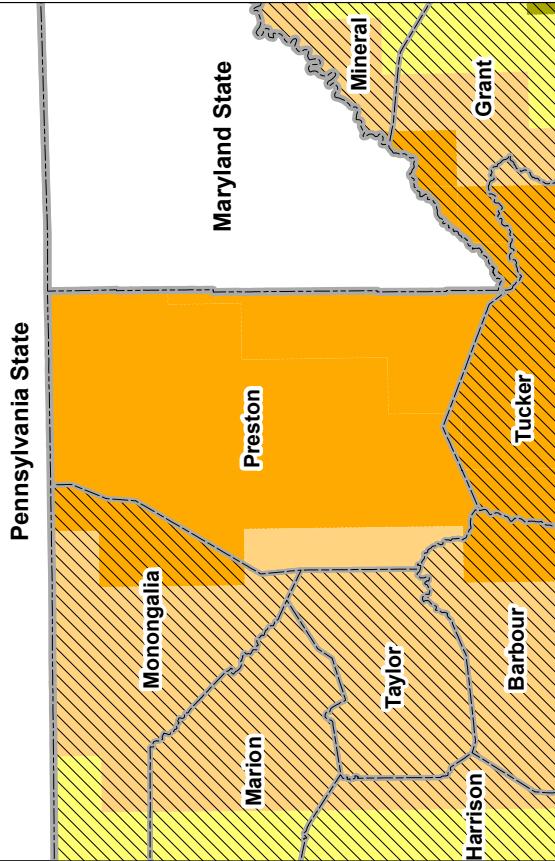
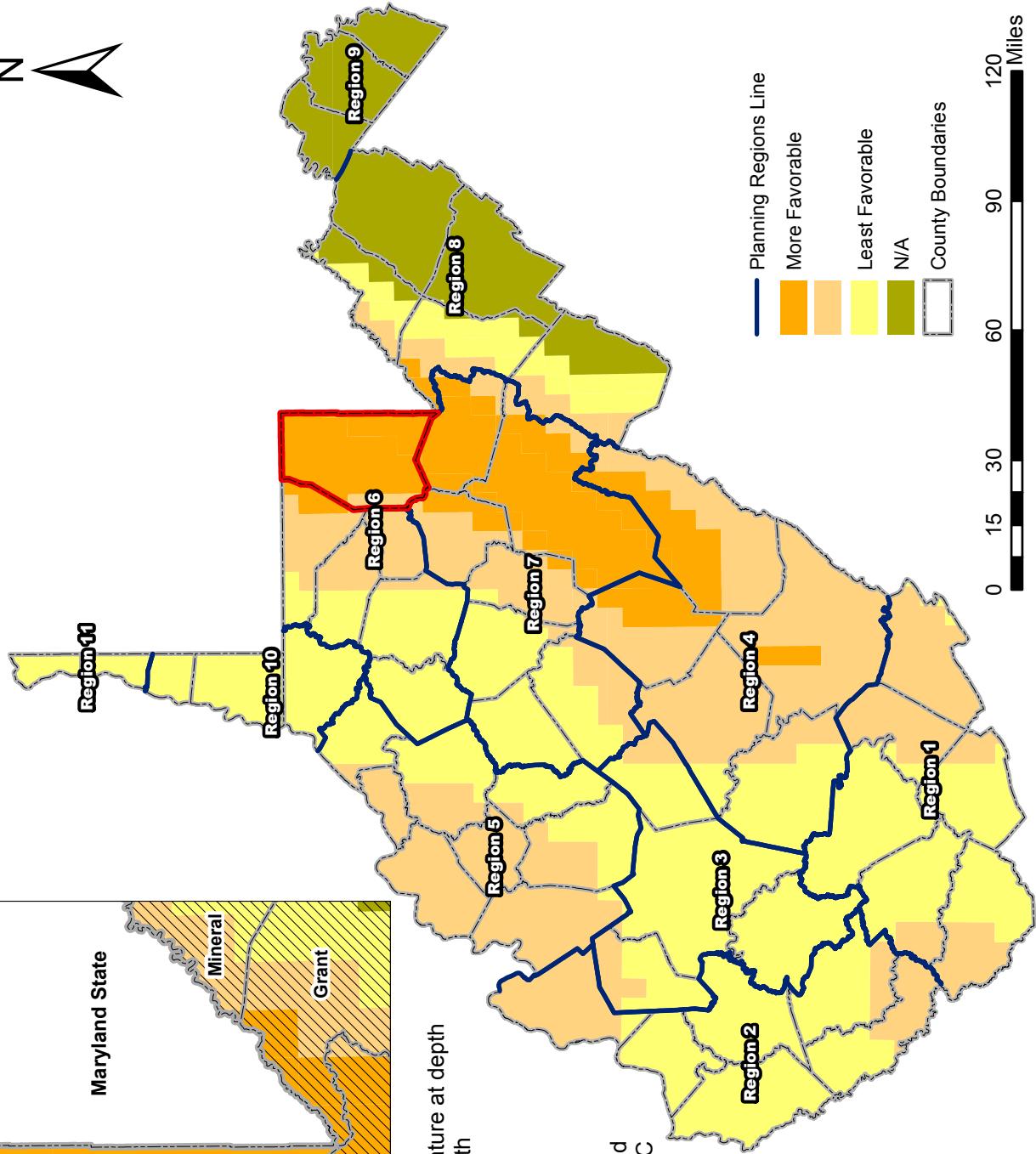


Source: Appalachian Hardwood Center 2011

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Energy - Geothermal Resource of Preston County Favorability of Deep Enhanced Geothermal Systems



Source data for deep EGS includes temperature at depth
from 3 to 10 km and analyses (for regions with
temperatures ≥ 150 degrees C).

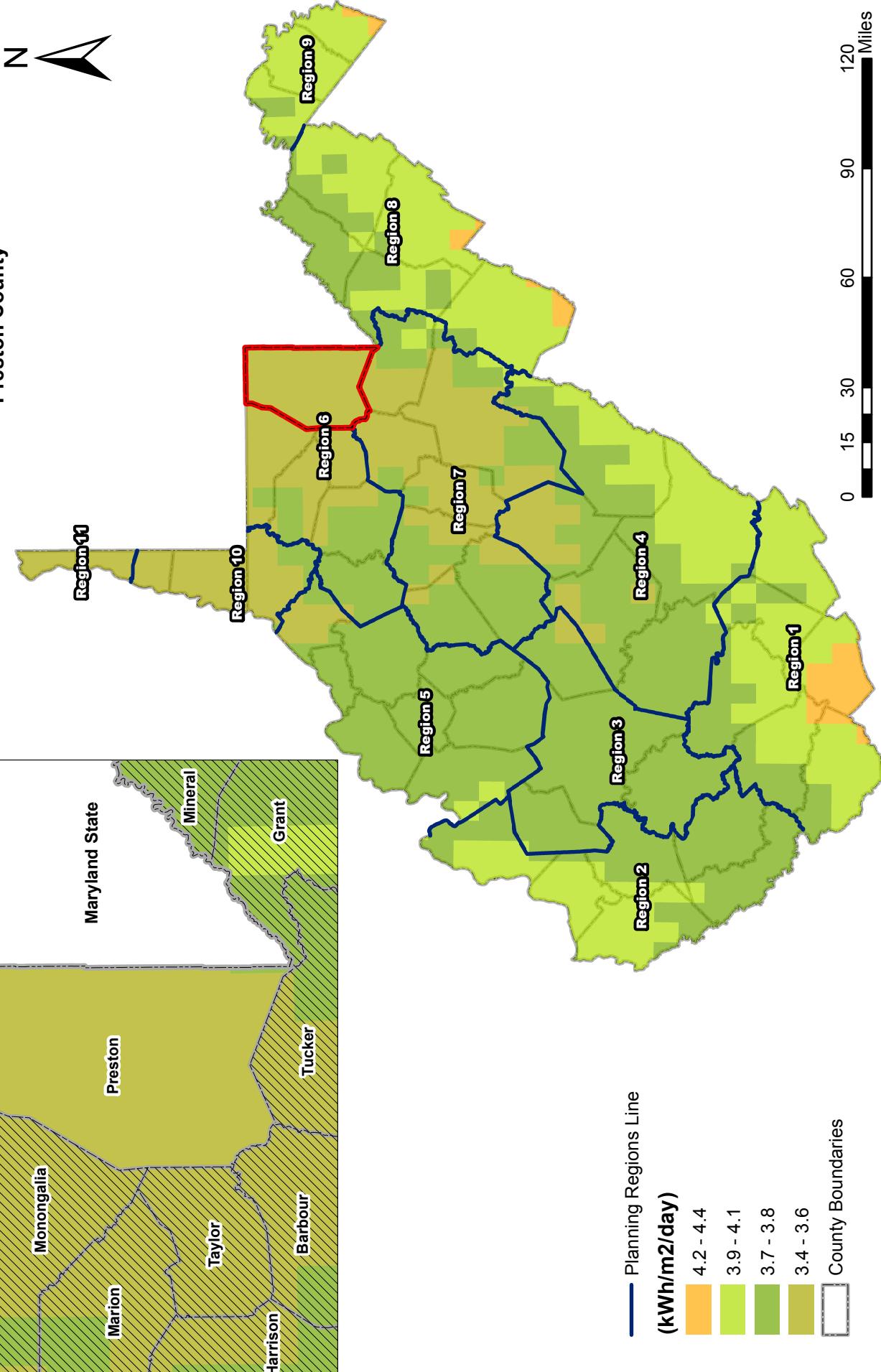
- Class values reflect relative favorability,
with 1 being more favorable,
3 being least favorable,
and "N/A" regions not having been assessed
due to temperatures less than 150 degrees C
at 10 km depth.

Source: National Renewable Energy Laboratory 2009

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Solar - Renewable Energy

Preston County



Source: National Renewable Energy Laboratory 2012

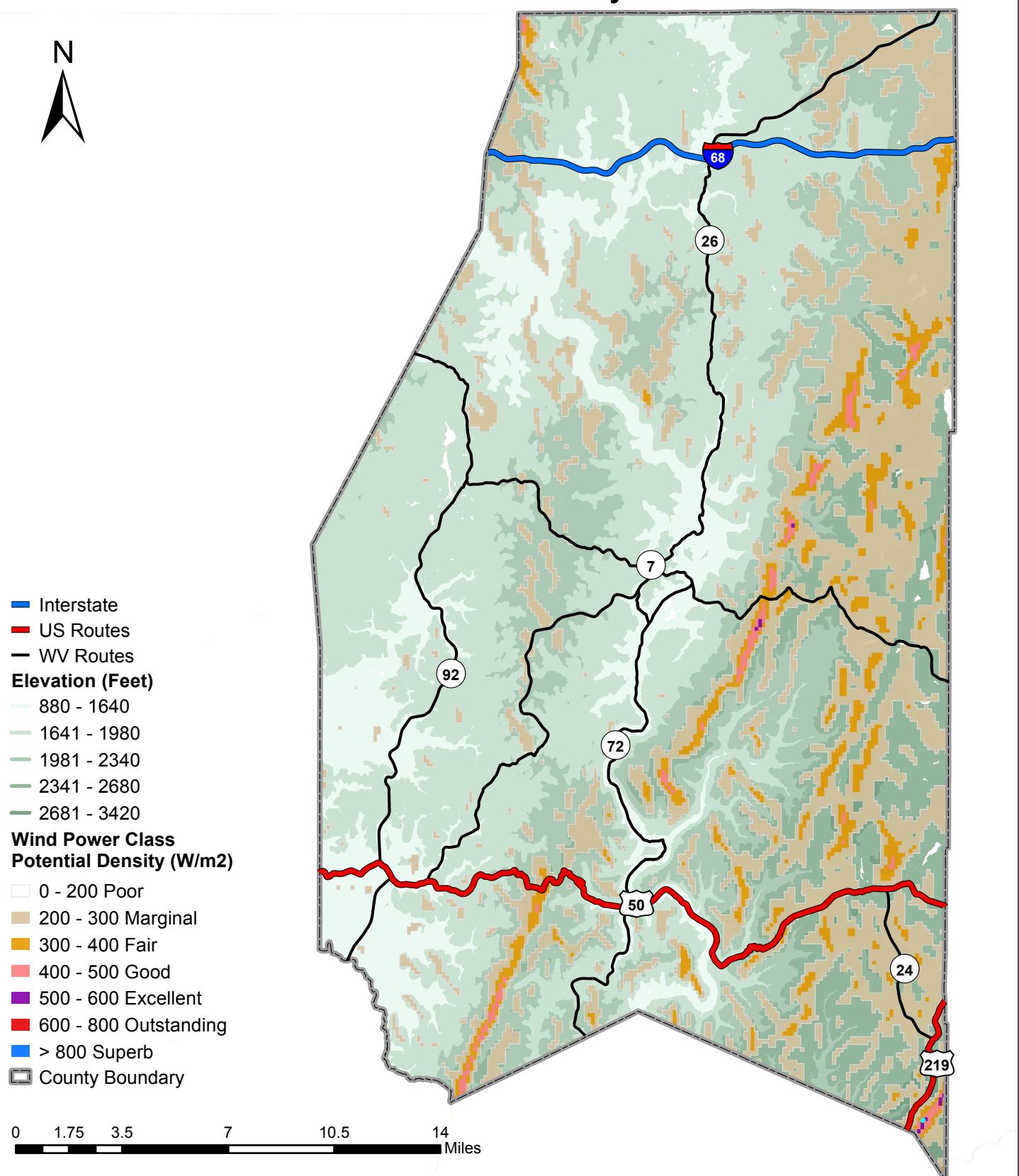
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www.njrti.org

Renewable Energy-Wind

Preston County



Source: National Renewable Energy Laboratory 2006, United States Geological Survey n.d., ESRI, 2013

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IV. Land Use Smart Planning

The research team constructed a smart planning criterion that would apply to each mine site in Preston. Tax Districts were utilized and labeled based on a particular land use practice that has previously been incorporated into the site. This criterion allows researchers and policymakers to determine suitability after weighing all the factors mentioned in the plan. A range of potential utilizations is given to give optimal control to policymakers and investors.

The table below (Table 2) provides the categories and their areas. The Smart Planning Map (Map 40) showcases the geographies separated by utilization.

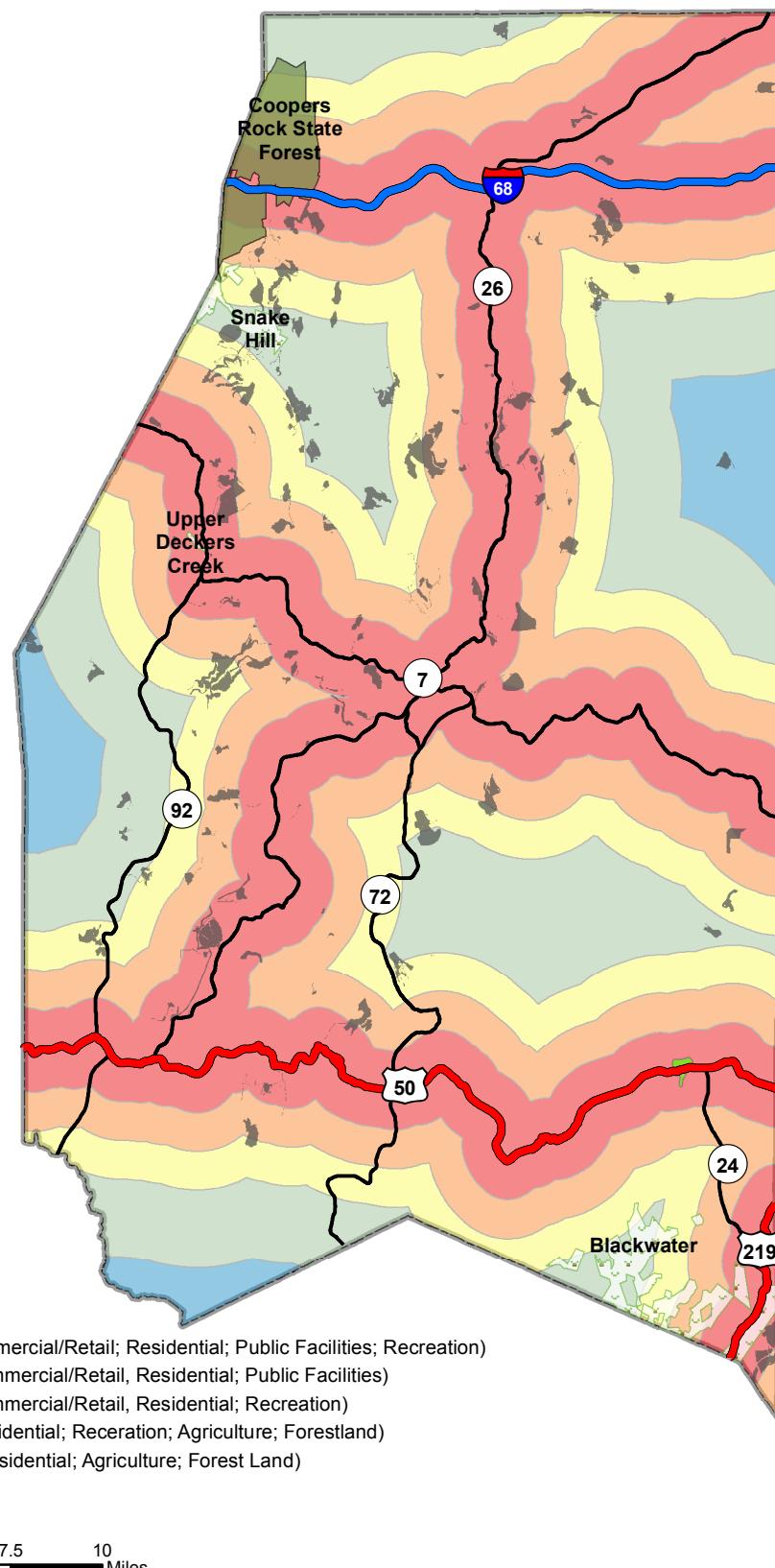
Table 2: Smart Planning Utilizations

Name	Smart Planning Criteria
Utilization Area 0-1 mile	Industrial, Commercial/Retail, Residential, Public Facility, Recreational
Utilization Area 1-2 miles	Industrial, Commercial/Retail, Residential, Public Facilities
Utilization Area 2-3 miles	Industrial, Commercial/Retail, Residential, Recreation
Utilization Area 3-5 miles	Industrial, Residential, Recreation, Agriculture, Forestland
Utilization Area 5-10 miles	Industrial, Residential, Agriculture, Forest Land
Utilization Area 10 miles +	Industrial, Residential, Agriculture, Forest Land

Land development or redevelopment options are determined through a review of the redevelopment authority's anticipated needs. The required infrastructure component standards are determined on a site by site basis by the county economic development authority as designated by West Virginia Code Chapter 05B Article 2A.

Landuse Criteria

Preston County



Source: Rahall Transportation Institute 2015

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V. Site Evaluation

Once the smart planning buffers have been created, the sites available for analysis are confirmed. This evaluation provides the county with an inventory of post mine sites that are suitable for development. The evaluation consists of existing infrastructure availability, which gives the most accurate assessment of a site's physical capabilities for investment purposes. This will encourage strategic development and evaluation.

Initial Data Collection:

The consulting team collected all available data on surface mines sites located in Preston County to produce an inventory of sites for analysis. The source for site information was primarily the West Virginia Department of Environment Protection (WV DEP) website, which allows permit searches by geographic location and mining type. The information provided by this source was used to develop a preliminary property database of all surface mines as well as general mapping.

The WV DEP permit database acts as a general clearinghouse for information, but is not infallible. The data is often updated by third-party sources, which increases the margin of error for site location. Because of this, the actual attributes being measured may not be at the distance stated because the mine site is not actually in the location given. The WV DEP has sought to minimize those errors, and RTI attempts to maintain the reliability of the measurements by observing their locations when mapping. RTI does not ensure the reliability of the site location or distances to the attributes. Any and all information should be verified for accuracy.

The initial data collection revealed all the mine sites in the county. Together, the team put together 221 sites for analysis. All of the sites and their distance attributes are listed below.

Table 3: Preston County Potential Surface Mine Sites for Development

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
1	S104786	TRONAGUN CORP	NA	0	11/19/1987	11/19/1992
2	S003781	BJORKMAN MINING CO	NA	0	5/18/1983	5/18/1988
3	S108686	AMBREC CORPORATION	NA	48.26	2/20/1987	2/2/1997
4	S102687	F & M COAL COMPANY LIMITED PARTNERSHIP	NA	0	10/2/1987	10/2/1992
5	S101887	G & B COAL INC	NA	0	9/18/1987	9/18/1997
6	S101888	AMANDA NICOLE FUELS INC	NA	27.83	9/19/1988	9/19/1993
7	S103291	PRETZEL EXCAVATING, LLC	NA	64	9/20/1991	9/20/1996
8	S012976	LAREW COAL CO.	NA	0	5/25/1976	5/25/1981
9	S006572	COAL LICK COAL CO	NA	0	4/4/1972	4/4/1977
10	S006577	DAUGHERTY COAL CO INC	NA	0	1/6/1977	1/6/1993
11	S006578	ROCKVILLE MINING CO	NA	111.2	12/29/1978	12/29/1992
12	S009680	PATRIOT MINING COMPANY INC	NA	4.56	3/10/1980	3/10/1993
13	S009682	INTERSTATE LUMBER CO INC	NA	0	10/8/1982	10/8/1992

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
14	S102987	PATRIOT MINING COMPANY INC	NA	0	9/18/1987	9/18/1992
15	S101987	FREEPORT MINING CORPORATION	NA	48	8/10/1987	8/10/1997
16	S033171	LAURITA TRUCKING & EXCAVATING	NA	11	12/14/1971	12/14/1976
17	Z004781	GUARANTY RESOURCES, INC	NA	0	6/13/1983	6/13/1988
18	S011676	GRAFTON COAL COMPANY	NA	14.75	5/4/1976	5/4/1981
19	S002075	COAL LICK COAL CO	NA	0	6/13/1975	6/13/1993
20	S200901	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	WESLEY MINE	40	8/27/2002	8/27/2007
21	S102389	AMERIKOHL MINING INC	NA	56.6	12/7/1989	12/7/1994
22	S102386	JONES COAL INC	NA	60	1/28/1986	1/28/1996
23	S005179	HALLELUJAH MINING	NA	0	4/25/1979	4/25/1984
24	S017777	COALTRAIN CORPORATION	NA	17.4	10/15/1977	10/15/1992
25	S001883	MILLER, WAYNE L	NA	0	2/18/1983	2/18/1993
26	I046800	COALTRAIN CORPORATION	COAL DRY LOADING FACILITY	2.77	3/13/1980	7/23/2002
27	S108786	BEEFSTEAK MINING CO	NA	0	8/10/1987	8/10/1992
28	S103788	AMBREC CORPORATION	SURFACE MINE III	166.25	3/10/1989	3/10/1999
29	S004478	F & M COAL COMPANY LIMITED PARTNERSHIP	NA	0	3/28/1978	12/29/1992
30	S201192	BUFFALO COAL COMPANY INC	KEMPTON #2 MINE	56	11/20/1992	11/20/1997
31	S100393	PATRIOT MINING COMPANY INC	ALBRIGHT MINE EXTENSION	13.55	2/8/1994	2/8/2004
32	S004281	VOLKSTONE CO	NA	55	1/18/1981	8/10/1997
33	S001578	LEWIS COAL AND COKE CO	NA	17.2	1/24/1978	1/24/1978
34	S001575	GRAFTON COAL COMPANY	NA	11.75	1/23/1975	1/23/1980
35	C000985	K. C. COAL CO	NA	0	12/19/1985	12/19/1990
36	S102388	K-C & M COAL COMPANY INC	NA	35	9/22/1988	9/22/1998
37	S008579	PRIMROSE COAL INC	NA	0	7/19/1979	7/19/1984
38	S104086	AMBREC CORPORATION	NA	56	9/2/1986	9/2/1996
39	S103188	PRESTON COUNTY COAL AND COKE CORPORATION	NA	0	11/21/1988	11/21/1993
40	S003377	GARBART CONSTRUCTION CO, INC	NA	0	1/13/1977	1/13/1982
41	S100293	COLBY COAL COMPANY	THORNE NO. 1	58	11/18/1993	11/18/1998
42	S100298	ALI CO	MARY BAILEY SURFACE MINE	26	11/2/1998	11/2/2003
43	S100299	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	HARTMAN	33	2/18/2000	2/18/2010

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
44	S012479	DAUGHERTY COAL CO INC	NA	0	10/25/1979	1/7/1993
45	S013180	BJORKMAN MINING CO	NA	0	9/22/1983	9/22/1988
46	S012274	MAURICE JENNINGS	NA	0	6/19/1974	6/19/1979
47	S011077	WILLIFORD EXCAVATING CO INC	NA	0	7/27/1977	7/27/1982
48	S001184	SHARON COAL CO	NA	54.92	2/27/1984	2/27/1989
49	S001679	BUFFALO COAL COMPANY INC	NA	0	2/24/1979	2/24/1993
50	S001676	M & V FUEL CORP	NA	0	1/23/1976	1/23/1981
51	S105886	MAURICE JENNINGS	NA	94	9/25/1986	9/25/1996
52	S007179	WETER CO, INC	NA	3.61	5/31/1979	5/31/1984
53	S100888	HORIZON FUELS INC	NA	0	9/26/1988	9/26/1993
54	S101592	VOLKSTONE CO	NA	0	11/20/1992	11/20/1997
55	S006183	MAURICE JENNINGS	SCOTCH HILL	52	8/2/1983	8/2/1998
56	S006182	J.E.B., INC	NA	8	6/17/1982	6/17/1992
57	S006184	WALTER GREEN INC	NA	10	8/20/1984	8/20/1994
58	S004181	INTERSTATE LUMBER CO INC	NA	10	11/16/1981	11/16/1986
59	S002678	MELIO MINING CO	NA	0	2/3/1978	2/3/1983
60	S104088	PRESTON COUNTY COAL AND COKE CORPORATION	NA	0	4/17/1989	4/17/1999
61	S003678	MARY RUTH CORPORATION	NA	0	3/27/1978	3/27/1983
62	S005784	F & M COAL COMPANY LIMITED PARTNERSHIP	NA	92.79	8/16/1984	8/16/1989
63	S101691	KRISTIE CORP	NA	0	5/19/1992	5/19/1997
64	S019277	DAUGHERTY COAL CO INC	NA	0	1/4/1977	1/4/1993
65	S017677	INTERSTATE LUMBER CO INC	NA	176	8/9/1977	8/9/1993
66	S100487	SIDELAND COAL CORP	NA	0	7/16/1987	7/16/1992
67	S100489	A C MINING CO	NA	65.2	4/17/1989	4/17/1994
68	S100488	FREEPORT MINING CORPORATION	NA	45	7/19/1988	7/19/2003
69	S008185	MARY LOU COAL CO	NA	0	9/4/1985	9/4/1990
70	S011280	INTERSTATE LUMBER CO INC	NA	0	8/10/1980	8/10/1992
71	S004685	K. C. COAL CO	NA	3	5/29/1985	5/29/1990
72	S005882	CENTURY ENTERPRISES INC	NA	0	6/17/1982	6/17/1992
73	S022476	INTERSTATE LUMBER CO INC	NA	15	10/20/1976	10/20/1981
74	S100687	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	NA	5	6/5/1987	6/5/1992
75	S100688	F & M COAL COMPANY LIMITED PARTNERSHIP	NA	0	4/18/1988	4/18/1993
76	S002881	PRESTON ENERGY INC	NA	0	1/18/1981	1/26/1993
77	S003875	LEWIS COAL AND COKE CO	NA	0	2/7/1975	2/7/1980
78	S001285	SHARON COAL CO	NA	0	2/26/1985	2/26/1990

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
79	S001281	PATRIOT MINING COMPANY INC	NA	0	1/6/1981	1/6/1993
80	C001382	V & V CO	NA	0	8/2/1982	8/2/1987
81	S103987	MARY RUTH CORPORATION	NA	0	12/18/1987	12/18/1992
82	S103986	DELTA MINING, INC	NA	0	4/7/1986	4/7/1996
83	S002577	MARY RUTH CORPORATION	NA	0	12/29/1977	12/29/1992
84	S100188	PATRIOT MINING COMPANY INC	NA	44	6/24/1988	6/24/1993
85	S100986	DAUGHERTY COAL CO INC	NA	0	3/10/1986	3/10/1991
86	S100989	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	NA	60	5/31/1989	5/31/1999
87	S012678	RECKART MINING CO., INC	NA	0	6/8/1978	8/5/1993
88	S006084	HIDDEN VALLEY COAL CO	NA	0	8/16/1984	8/16/1989
89	S015875	GARBART CONSTRUCTION CO, INC	NA	11.75	7/14/1975	7/14/1980
90	S006582	ROCKVILLE MINING CO	NA	281.6	7/2/1982	7/2/1992
91	S011982	PATRIOT MINING COMPANY INC	NA	268	11/18/1982	11/18/1987
92	S007183	MARY RUTH CORPORATION	NA	0	9/8/1983	9/8/1993
93	S104188	AMERIKOHL MINING INC	NA	0	4/18/1989	4/18/1994
94	S001174	SPIKER, DEWEY	NA	0	1/28/1974	1/28/1979
95	S104487	F & M COAL COMPANY LIMITED PARTNERSHIP	NA	76.5	2/8/1988	2/8/1993
96	S005480	MAURICE JENNINGS	NA	0	12/29/1980	12/29/1992
97	S003083	RECKART MINING CO., INC	NA	31.2	4/18/1983	4/18/1988
98	S017976	LEWIS COAL AND COKE CO	NA	0	8/23/1976	8/23/1981
99	S009184	PATRIOT MINING COMPANY INC	NA	0	11/15/1984	11/15/1994
100	S009185	ROCKVILLE MINING CO	NA	45.6	9/16/1985	9/16/1995
101	S103389	PATRIOT MINING COMPANY INC	NA	10	10/12/1989	10/12/1994
102	S017476	POINT COAL CO	NA	6.5	8/11/1976	8/11/1981
103	Z008881	MOUNTAIN FUELS	NA	0	1/18/1981	8/2/1992
104	S007582	K. C. COAL CO	NA	0	8/24/1982	8/24/1992
105	S103286	ED-E DEVELOPMENT CO INC	NA	96.8	6/23/1986	6/23/1991
106	S102489	VOLKSTONE CO	NA	15.58	8/9/1989	8/9/1994
107	S102488	BOLINGREEN MINING CO	NA	21	11/23/1988	11/23/1998
108	S103687	SHARON COAL CO	NA	6.3	4/8/1988	4/8/1993
109	S100496	COALTRAIN CORPORATION	SYPOLT JOB	91	7/19/1996	7/19/2006
110	S001483	R K COMPANY INC	NA	78	2/10/1983	2/10/1998
111	S001482	PATRIOT MINING COMPANY INC	NA	39.6	12/29/1982	12/29/1992

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
112	S001485	R & N MINING	NA	25.84	2/26/1985	2/26/1995
113	S009369	ROCKVILLE MINING CO	NA	0.03	4/25/1969	4/25/1974
114	S101389	PATRIOT MINING COMPANY INC	NA	54	6/28/1989	6/28/2009
115	S101388	VOLKSTONE CO	NA	0	9/26/1988	9/26/1993
116	S005378	MAURICE JENNINGS	NA	25.6	4/12/1978	1/25/1993
117	S005085	AMBREC CORPORATION	NA	42.4	5/31/1985	5/31/1995
118	S013278	MILLER, WAYNE L	NA	10.31	6/13/1978	6/13/1983
119	S013273	SHARON COAL CO	NA	0	7/30/1973	7/30/1978
120	Z000781	PRIMROSE COAL INC	NA	58.8	1/16/1981	7/8/1992
121	Z001781	DAUGHERTY COAL CO INC	NA	0	1/6/1981	1/6/1993
122	S101986	R K COMPANY INC	NA	32	1/23/1986	1/23/1996
123	S005278	INTERSTATE LUMBER CO INC	NA	15	4/12/1978	4/12/1983
124	S014879	PATRIOT MINING COMPANY INC	NA	25.5	12/13/1979	12/13/1984
125	S002685	WOCAP ENERGY RESOURCES, INC	NA	0	4/5/1985	4/5/1995
126	Z004081	HALLELUJAH MINING	NA	0	6/13/1981	6/13/1993
127	S105386	ROCKVILLE MINING CO	NA	64	9/11/1986	9/11/1996
128	S000381	MARY RUTH CORPORATION	NA	0	1/25/1981	1/25/1993
129	S000380	KINGWOOD COAL COMPANY	NA	0	1/14/1980	12/29/1992
130	S100389	MARY RUTH CORPORATION	NA	40	5/5/1989	5/5/1994
131	S007383	DAUGHERTY COAL CO INC	NA	0	9/15/1983	9/15/1988
132	S008879	COALTRAIN CORPORATION	NA	6.75	7/25/1979	7/25/1984
133	S018875	DAUGHERTY COAL CO INC	NA	13.25	8/21/1975	8/21/1980
134	S103086	JONES COAL INC	NA	0	9/25/1986	9/25/1991
135	S106786	NORTHEASTERN MINING OF WV, IN	NA	0	2/11/1987	2/11/1992
136	S103487	HOBAR MINING, INC	NA	94	11/10/1987	11/10/1992
137	S106191	COALTRAIN CORPORATION	STREET SURFACE MINE	39	11/23/1992	11/23/1997
138	S010775	LEWIS COAL AND COKE CO	NA	0	5/6/1975	5/6/1980
139	S106386	J.E.B., INC	NA	42	10/27/1986	10/27/1991
140	C000184	THOMAS DEWITT EXCAVATING CO	NA	0	3/28/1984	3/28/1989
141	S007078	PORTLAND COAL, INC	NA	17.75	1/25/1978	1/25/1988
142	S004679	F & M COAL COMPANY LIMITED PARTNERSHIP	NA	0	12/29/1979	12/29/1992
143	S002383	DALTON, RAYMOND	NA	0	3/9/1983	3/9/1988
144	I063600	FORMAN-LOSE MINING, INC	NA	4	1/18/1981	1/18/1986
145	Z000581	INTERSTATE LUMBER CO INC	NA	281.6	8/10/1981	8/10/1992
146	S007574	P & T COAL CO.	NA	8	5/8/1974	5/8/1979

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
147	S007579	PATRIOT MINING COMPANY INC	NA	0	6/28/1979	6/28/1984
148	Z002481	MILLER, WAYNE L	NA	18.4	1/27/1981	1/27/1993
149	S004073	DAUGHERTY COAL CO INC	NA	17.5	3/21/1973	3/21/1978
150	S003385	SHARON COAL CO	NA	2	4/12/1985	4/12/1989
151	S104286	BOLINGGREEN MINING CO	NA	14	4/17/1986	4/17/1996
152	S103889	COALTRAIN CORPORATION	NA	30	6/21/1990	6/21/1995
153	S103887	NEW ALLEGHENY, INC.	NA	0	3/25/1988	3/25/1993
154	S002783	CRANE COAL CO INC	NA	0	4/5/1983	4/5/1993
155	S010282	LARRY UPHOLD DBA UPHOLD TRUCKING	NA	10	10/19/1982	10/19/1992
156	S012282	PRETZEL EXCAVATING, LLC	NA	8.4	11/29/1982	11/29/1992
157	S003685	J & R COAL CO	NA	21.6	4/15/1985	4/15/1990
158	S003684	PATRIOT MINING COMPANY INC	NA	127.3	5/11/1984	5/11/1989
159	S101488	BULLSKIN STONE & LIME LLC	NA	118	10/12/1988	10/12/2013
160	S101487	AMBREC CORPORATION	NA	137	8/24/1987	8/24/1997
161	S003579	MILLER, WAYNE L	NA	9.5	9/15/1982	9/15/1987
162	S003574	RECKART MINING CO., INC	NA	410	3/12/1974	3/12/1979
163	S010377	LEWIS COAL AND COKE CO	NA	0	7/18/1977	7/18/1982
164	S010375	WILLIFORD EXCAVATING CO INC	NA	0	5/6/1975	5/6/1980
165	S015775	POINT COAL CO	NA	0	7/14/1975	7/14/1980
166	S015776	NORTHWEST COAL CO, INC	NA	0	7/14/1976	7/14/1981
167	S006079	ZINN COAL CO	NA	0	7/8/1979	7/8/1992
168	S103691	MANGUS COAL, INC.	SCOTCH HILL NO. 4	32	7/16/1992	7/16/2002
169	S004481	P & B FUELS	NA	0	8/5/1981	8/5/1993
170	S005283	INTERSTATE LUMBER CO INC	NA	0	6/29/1983	6/29/1993
171	S005285	JCL DEVELOPMENT CORP	NA	118.4	6/12/1985	6/12/1990
172	S005284	SHARON COAL CO	NA	34.6	8/3/1984	8/3/1999
173	S021575	COAL LICK COAL CO	NA	0	1/5/1975	1/5/1993
174	S031571	LAREW COAL CO.	NA	0	11/22/1971	11/22/1976
175	S025474	CARDINAL COAL CO	NA	0	12/20/1974	12/20/1979
176	S102587	REBEKAH COAL COMPANY INC	NA	26	8/13/1987	8/13/1992
177	S103191	COLBY COAL COMPANY	NA	78	9/20/1991	9/20/1996
178	S021173	ROCKY RIDGE ENTERPRISES, INC	NA	0	11/21/1973	11/21/1978
179	S101588	MARY RUTH CORPORATION	NA	84	7/27/1988	7/27/1993
180	S024674	DAUGHERTY COAL CO INC	NA	0	2/15/1974	2/15/1993

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
181	S008482	SHARON COAL CO	NA	33.68	9/7/1982	9/7/1992
182	S009375	GARBART CONSTRUCTION CO, INC	NA	0	4/25/1975	4/25/1980
183	S103586	ROCKVILLE MINING CO	NA	82.4	6/6/1986	6/6/1996
184	S100595	FREEPOR MINING CORPORATION	PISGAH SURFACE MINE	107	1/20/2000	1/20/2005
185	S100590	VOLKSTONE CO	NA	10	9/21/1990	9/21/1995
186	S010980	PONTORERO & SONS COAL CO INC	NA	23.72	1/5/1983	1/5/1988
187	S011277	MAURICE JENNINGS	NA	9.25	7/27/1977	7/27/1982
188	S010582	ROCKVILLE MINING CO	NA	28.8	10/19/1982	10/19/1992
189	S004984	LARRY UPHOLD DBA UPHOLD TRUCKING	NA	7	8/3/1984	8/3/1989
190	S100197	R K COMPANY INC	RK II JOB	173	5/30/1997	5/30/2007
191	S102286	COALTRAIN CORPORATION	NA	37	8/21/1986	8/21/1996
192	S102288	PATRIOT MINING COMPANY INC	NA	129	7/18/1989	7/18/1999
193	S006678	ROCKVILLE MINING CO	NA	16.5	4/24/1978	4/24/1983
194	S101088	NOGATCO, INC	NA	0	8/15/1988	8/15/1993
195	S003982	INTERSTATE LUMBER CO INC	NA	0	4/9/1982	4/9/1992
196	S005777	DAUGHERTY COAL CO INC	NA	6.75	3/29/1977	3/29/1982
197	S000981	PATRIOT MINING COMPANY INC	NA	7.2	1/16/1981	1/7/1993
198	S000983	JONES COAL INC	NA	128	1/24/1983	1/24/1993
199	S102887	SHARON COAL CO	NA	79.33	9/25/1987	9/25/1997
200	S012774	INTERSTATE LUMBER CO INC	NA	25	7/9/1974	7/9/1979
201	S012776	M & J COAL COMPANY INC	NA	0	5/20/1976	5/20/1981
202	S013579	RECKART MINING CO., INC	NA	11.5	11/8/1979	11/8/1984
203	S017077	LEWIS COAL AND COKE CO	NA	0	10/28/1977	10/28/1982
204	Z002281	HILLTOP COAL CO	NA	4.9	3/10/1981	3/10/1993
205	S013076	GARBART CONSTRUCTION CO, INC	NA	0	5/28/1976	5/28/1981
206	S001876	GARBART CONSTRUCTION CO, INC	NA	17.5	1/23/1976	1/23/1981
207	S000476	WILLIFORD EXCAVATING CO INC	NA	0	1/9/1976	1/9/1981
208	S104090	COALTRAIN CORPORATION	NA	222.71	5/14/1991	5/14/1996
209	S003881	COALTRAIN CORPORATION	NA	48.94	5/24/1981	5/24/1992
210	S003884	COALTRAIN CORPORATION	NA	25.8	7/12/1984	7/12/1989
211	S023176	MARY RUTH CORPORATION	NA	0	1/27/1976	1/27/1993
212	S101686	MARY RUTH CORPORATION	CHURCH CREEK MINE	24	3/26/1986	3/26/2001

Site No	PermitID	Permittee	Facility Name	Acres	Issue Date	Expiration Date
213	I064100	LARRY UPHOLD DBA UPHOLD TRUCKING	NA	0	1/18/1981	1/18/1986
214	S015774	LEWIS COAL AND COKE CO	NA	0	8/16/1974	8/16/1979
215	S023776	ROCKVILLE MINING CO	NA	40	12/29/1976	12/29/1992
216	S008285	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	NA	40	9/4/1985	9/4/1990
217	S008280	PATRIOT MINING COMPANY INC	NA	152.86	8/21/1980	1/5/1993
218	S017177	LEWIS COAL AND COKE CO	NA	11.5	10/28/1977	10/28/1982
219	S006284	J.E.B., INC	NA	0	8/21/1984	8/21/1989
220	S107386	F & M COAL COMPANY LIMITED PARTNERSHIP	NA	0	10/10/1986	10/10/1991
221	S012280	BUFFALO COAL COMPANY INC	NA	306	12/12/1980	9/14/2002

Site Analysis (Distance Analysis)

Once the surface mining sites in the county were identified each of the sites were evaluated by estimating the shortest distance from the site to a specified criteria (features which are important to development). There are two types of distance calculation in this analysis: road-path and Euclidean distance. Road-path distance is the distance when travelling on an actual roadway from the site to the feature; Euclidean distance is when the distance is a straight line from the site to the feature, without the necessity of following a roadway. Following are lists of criteria used in the analysis:

- Road-path Distances:
 - Distance to nearest roadway (Interstate and Existing Highway)
 - Distance to Intermodal Terminal Facility, Huntington Port, and National Waterway Network
 - Distance to nearest Sewer/ Solid Waste Treatment Facility
- Euclidean Distances:
 - Distance to Water Lines, Sewer Lines, Power Lines and Broadband
 - Distance to Gas Pipe and Oil Pipe
 - Distance to Railroad

The following tables illustrate the results of road-path and Euclidean distance assessments for all of the identified sites for given criteria. All distances were recorded in miles.

Table 4: Assessment of Distances

Site No	Permit ID	Interstate (IS)	Sign - IS	Existing Highway (EH)	Sign - EH	Paved Road	Paved Road Name
1	S104786	20.42	I68	2.86	S26	0.20	Bomar Road Kanetown Road
2	S003781	15.16	I68	0.98	S26	0.03	Deaker Road
3	S108686	1.69	I68	1.69	I68	0.10	Pisgah Road and Ladley
4	S102687	13.10	I68	4.46	S7	0.36	Ned Rows Rd
5	S101887	14.54	I68	1.41	S7	0.12	
6	S101888	18.23	I79	1.08	S26	0.26	McGee Road
7	S103291	17.73	I68	0.67	S72	0.39	WV 72
8	S012976	11.94	I79	2.84	S92	0.24	Newburg- Hardman Rd
9	S006572	7.69	I68	0.83	S26	0.01	Welsh Rd
10	S006577	10.35	I68	3.06	S7	0.28	Green's Run Road
11	S006578	6.69	I68	1.50	S26	0.14	Glade Road
12	S009680	11.48	I68	2.08	S7	0.02	Browns Mill- Manown (Dogtown Road)
13	S009682	14.90	I68	1.57	S92	0.08	Oriole- Mankins Rd
14	S102987	12.79	I68	0.97	S7	0.06	Browns Mill- Manown (Dogtown Road)

Site No	Permit ID	Interstate (IS)	Sign - IS	Existing Highway (EH)	Sign - EH	Paved Road	Paved Road Name
15	S101987	1.57	I68	1.57	I68	0.22	Laurel Run- Pisgah Rd
16	S033171	0.92	I68	0.71	S26	0.07	Eastend Moyers
17	Z004781	1.84	I68	1.84	I68	0.17	Hileman
18	S011676	18.92	I68	0.55	S7	0.03	Cook Road
19	S002075	8.08	I68	1.23	S26	0.13	Welsh Rd
20	S200901	8.96	I68	2.70	S26	0.33	Coal Lick Road
21	S102389	4.58	I68	4.58	I68	0.24	Wolfe Rd
22	S102386	19.90	I68	2.63	S7	0.08	Freeport Road
23	S005179	13.47	I68	0.10	S92	0.13	WV 92
24	S017777	14.71	I79	1.72	S92	0.04	Mays Rd
25	S001883	4.55	I68	4.15	S26	0.13	Auman Road
26	I046800	9.45	I68	0.17	S7	0.03	Stones Lane
27	S108786	16.71	I79	1.43	S26	0.07	Raccoon Valley Rd
28	S103788	3.82	I68	3.82	I68	0.47	Beaver Hole Rd
29	S004478	6.54	I68	2.34	S26	0.20	Woolen Mill- Grahm Rd
30	S201192	32.78	I68	0.06	U219	0.07	US 219
31	S100393	10.05	I68	0.34	S26	0.34	WV 26
32	S004281	9.77	I68	3.18	S7	0.14	Green's Run Road
33	S001578	7.35	I68	3.41	S26	0.08	Beech Run Rd
34	S001575	18.90	I68	0.53	S7	0.04	Cook Road
35	C000985	14.74	I68	0.67	S7	0.04	Grape Thicket Road
36	S102388	14.87	I68	2.09	S92	0.14	McGinnis Rd
37	S008579	5.73	I68	5.73	I68	0.15	Mt Nebo- Bull Run
38	S104086	2.23	I68	2.23	I68	0.03	Burris Rd
39	S103188	8.78	I68	4.40	S7	0.19	B Run Road
40	S003377	3.96	I68	0.27	S26	0.28	WV 26
41	S100293	9.24	I68	3.47	U119	0.32	Flat Rock Road
42	S100298	14.40	I68	1.07	S92	0.17	Oriole- Mankins Rd
43	S100299	7.55	I68	0.69	S26	0.18	Wolen Mill Rd
44	S012479	10.32	I68	3.06	S7	0.35	Green's Run Road
45	S013180	13.92	I68	1.26	S7	0.02	Jenings Strip
46	S012274	14.15	I79	1.24	S92	0.04	Old Evansville Pike
47	S011077	5.40	I68	1.40	S26	0.02	Moon Rd
48	S001184	13.69	I68	1.03	S7	0.01	St Josephs To Manown Rd
49	S001679	18.07	I68	0.44	S7	0.20	Ashby Rd
50	S001676	17.82	I79	0.42	U50	0.18	Russel Bolyard Rd
51	S105886	13.72	I68	1.59	S7	0.17	Barlow Mine Road
52	S007179	7.52	I68	3.62	S7	0.03	Beaver Hole Rd

Site No	Permit ID	Interstate (IS)	Sign - IS	Existing Highway (EH)	Sign - EH	Paved Road	Paved Road Name
53	S100888	5.19	I68	2.29	S26	0.09	Wolen Mill Rd
54	S101592	8.58	I68	1.28	S7	0.05	Miller Mine Rd
55	S006183	14.08	I79	0.32	S92	0.01	Scotch Hill Road
56	S006182	15.21	I68	1.09	S26	0.16	John Savage Road
57	S006184	1.79	I68	1.45	S26	0.16	Clifton Mills
58	S004181	8.20	I68	4.30	S7	0.42	Beaver Hole Rd
59	S002678	5.74	I68	5.74	I68	0.20	Mt Nebo- Bull Run
60	S104088	7.53	I68	0.01	S7	0.01	WV 7
61	S003678	17.83	I68	1.27	S26	0.18	Old Tunnelton- Kingwood Road
62	S005784	22.17	I79	2.65	U50	0.36	Funk Rd
63	S101691	12.09	I68	3.45	S92	0.17	Independence- Gladesville
64	S019277	11.40	I68	3.52	S7	0.29	Green's Run Road
65	S017677	9.25	I68	3.96	S26	0.19	Lick Run School To Crane School
66	S100487	7.50	I68	1.64	S7	0.13	Old Kingwood Pike
67	S100489	9.21	I68	0.99	S7	0.01	Gibson Road- Valley District
68	S100488	0.50	I68	0.50	I68	0.12	Pisgah Road and Ladley
69	S008185	12.27	I68	1.13	S92	0.06	Old WV 92
70	S011280	7.19	I68	3.29	S7	0.06	Beaver Hole Rd
71	S004685	12.56	I68	1.46	S7	0.01	Sacks Run
72	S005882	6.24	I68	1.92	S26	0.06	John Miller Rd
73	S022476	16.77	I68	0.60	S26	0.20	Mt View Road
74	S100687	1.07	I68	1.07	I68	0.14	Lake-O- Woods Road
75	S100688	12.45	I68	3.13	S7	0.17	Green's Run Road
76	S002881	16.67	I68	0.51	S26	0.04	Mt View Road
77	S003875	13.94	I68	0.31	S7	0.21	WV 7
78	S001285	7.39	I68	0.21	S7	0.18	WV 7
79	S001281	3.66	I68	0.81	S26	0.29	Sugar Valley Rd
80	C001382	12.63	I68	1.53	S7	0.19	Browns Mill- Manown (Dogtown Road)
81	S103987	1.77	I68	1.77	I68	0.33	Brandonville Pike
82	S103986	3.28	I68	3.28	I68	0.16	Cherry Grove- Mountaintdale Rd
83	S002577	16.91	I68	0.75	S26	0.10	Mt View Road
84	S100188	5.10	I68	5.10	I68	0.06	Kidwell Rd
85	S100986	10.83	I68	2.95	S7	0.10	Green's Run Road
86	S100989	7.85	I68	0.99	S26	0.17	Welsh Rd
87	S012678	8.59	I68	1.50	S26	0.06	Sypolt Rd
88	S006084	1.62	I68	1.62	I68	0.12	Barnes Rd
89	S015875	3.09	I68	3.09	I68	0.31	Bruce Reckart Rd

Site No	Permit ID	Interstate (IS)	Sign - IS	Existing Highway (EH)	Sign - EH	Paved Road	Paved Road Name
90	S006582	8.09	I68	3.10	S26	0.29	Beech Run Rd
91	S011982	12.55	I68	3.14	S92	0.02	Co. 56, Southern Section
92	S007183	1.00	I68	1.00	I68	0.21	Ralph Deal Road
93	S104188	2.71	I68	2.71	I68	0.17	Bruce Reckart Rd
94	S001174	17.09	I68	0.53	S26	0.18	Old Tunnelton- Kingwood Road
95	S104487	23.32	I79	2.35	U50	0.27	
96	S005480	14.75	I68	2.09	S7	0.23	Howard Goff Rd
97	S003083	3.93	I68	3.93	I68	0.01	Bruce Reckart Rd
98	S017976	14.79	I68	0.47	S92	0.15	Squires Rd
99	S009184	12.99	I68	1.89	S7	0.27	Sacks Run
100	S009185	5.86	I68	0.21	S26	0.11	WV 26
101	S103389	13.80	I68	0.67	S7	0.08	
102	S017476	14.50	I68	1.63	S26	0.07	Jenings Strip
103	Z008881	4.42	I68	4.08	S26	0.41	Clifton- Elliotsville Old Rd
104	S007582	12.72	I68	1.62	S7	0.01	Sacks Run
105	S103286	13.22	I68	0.56	S7	0.09	Browns Mill- Manown (Dogtown Road)
106	S102489	9.96	I68	0.99	S7	0.02	Stones Road
107	S102488	8.95	I68	1.74	S26	0.12	Beech Run Rd
108	S103687	8.33	I68	3.59	S7	0.16	Mt Nebo- Bull Run
109	S100496	9.41	I68	1.19	S7	0.22	Herring Road
110	S001483	16.43	I68	3.38	S7	0.12	Whetsell- Trowbridge
111	S001482	16.18	I68	3.13	S7	0.52	Childester Rd
112	S001485	7.65	I68	3.53	S7	0.20	Ridge Road
113	S009369	5.23	I68	1.51	S26	0.15	Hudson Rd
114	S101389	10.05	I68	0.34	S26	0.34	WV 26
115	S101388	9.80	I68	0.59	S7	0.10	Oak Flat Rd
116	S005378	13.87	I79	0.64	S92	0.09	Scotch Hill Road
117	S005085	1.59	I68	1.59	I68	0.18	Beaver Hole Rd
118	S013278	4.97	I68	1.86	S26	0.04	Moon Rd
119	S013273	2.11	I68	2.11	I68	0.42	Pisgah Road and Ladley
120	Z000781	3.99	I68	3.99	I68	0.49	Auman Road
121	Z001781	9.94	I68	2.88	S7	0.08	Green's Run Road
122	S101986	6.49	I68	3.18	S26	0.15	Lenox Woolen Road, Welsh Road
123	S005278	16.65	I68	0.18	S26	0.18	WV 26
124	S014879	2.28	I68	2.28	I68	0.03	Henry Collins Rd
125	S002685	15.09	I68	1.82	S26	0.46	Jenings Strip
126	Z004081	14.00	I68	0.86	S7	0.07	

Site No	Permit ID	Interstate (IS)	Sign - IS	Existing Highway (EH)	Sign - EH	Paved Road	Paved Road Name
127	S105386	6.11	I68	0.06	S26	0.07	WV 26
128	S000381	6.41	I68	3.48	S26	0.16	Ralph Livengood Rd
129	S000380	4.91	I68	0.31	S26	0.09	Guseman School Road
130	S100389	3.58	I68	0.54	S26	0.19	Dennis Rd
131	S007383	6.59	I68	6.08	S7	0.54	Mt Nebo- Bull Run
132	S008879	14.36	I79	2.26	S92	0.33	Sand Run Rd
133	S018875	9.65	I68	3.17	S7	0.07	Green's Run Road
134	S103086	2.54	I68	1.05	S26	0.07	Salem Five Fork Road
135	S106786	18.36	I68	2.27	S7	0.04	Freeport Road
136	S103487	14.18	I68	2.45	S26	0.18	Hayes Road
137	S106191	8.59	I68	0.37	S7	0.09	Herring Road
138	S010775	17.66	I68	1.67	S72	0.39	Atlantic Rd
139	S106386	14.43	I68	0.16	S7	0.08	
140	C000184	11.77	I68	3.55	S7	0.13	Ned Rows Rd
141	S007078	21.40	I68	4.87	S7	0.66	Stanley Hoover
142	S004679	12.32	I68	1.36	S7	0.38	Caddel - st. Joe
143	S002383	15.60	I79	1.69	S92	0.24	Raccoon Valley Rd
144	I063600	9.50	I68	4.21	S26	0.28	Lick RUn School To Crane School
145	Z000581	1.13	I68	1.13	I68	0.16	Old Co 26/12
146	S007574	6.29	I68	3.41	S26	0.39	Harmony Grove Road
147	S007579	15.68	I68	2.64	S7	0.01	Childester Rd
148	Z002481	5.10	I68	3.60	S26	0.17	Centenary- Mountain Dale
149	S004073	6.80	I68	5.67	S7	0.44	Mt Nebo- Bull Run
150	S003385	13.22	I68	0.18	S92	0.09	WV 92
151	S104286	7.02	I68	2.70	S26	0.01	Luthern Church Rd
152	S103889	11.88	I79	1.51	S92	0.09	Independence- Victoria Rd
153	S103887	21.21	I68	4.67	S7	0.46	Stanley Hoover
154	S002783	4.03	I68	0.07	S26	0.02	WV 26
155	S010282	0.15	I68	0.15	I68	0.16	I-68
156	S012282	6.71	I68	1.36	S26	0.10	Wolen Mill Rd
157	S003685	14.82	I79	0.90	S92	0.16	Raccoon Valley Rd
158	S003684	13.62	I68	2.92	S7	0.24	Co. 56, Southern Section
159	S101488	7.58	I68	1.77	U119	0.29	Kelly Road
160	S101487	2.71	I68	2.71	I68	0.11	Beaver Hole Rd
161	S003579	0.77	I68	0.77	I68	0.02	Eastend Moyers
162	S003574	5.04	I68	3.09	S26	0.10	Hume Livenwood Rd
163	S010377	14.68	I68	0.83	S92	0.10	Concord Rd
164	S010375	5.48	I68	1.51	S26	0.11	Moon Rd

Site No	Permit ID	Interstate (IS)	Sign - IS	Existing Highway (EH)	Sign - EH	Paved Road	Paved Road Name
165	S015775	13.97	I68	1.31	S7	0.07	Jenings Strip
166	S015776	3.82	I68	0.13	S26	0.12	WV 26
167	S006079	1.92	I68	1.92	I68	0.03	Savage Rd # 2
168	S103691	14.32	I79	0.21	S92	0.08	Scotch Hill Road
169	S004481	14.51	I79	1.59	S92	0.24	Sand Run Rd
170	S005283	15.31	I68	1.91	S92	0.29	Concord Rd
171	S005285	1.17	I68	0.94	S26	0.32	Eastend Moyers
172	S005284	7.15	I68	1.34	U119	0.40	Brewer Road
173	S021575	2.77	I68	1.51	S26	0.27	Moyers Rt 26 Rd
174	S031571	14.14	I79	1.23	S92	0.19	Sand Run Rd
175	S025474	8.65	I68	1.56	S26	0.17	Sypolt Rd
176	S102587	14.82	I79	1.40	S92	0.25	Joe Gibson Road
177	S103191	9.17	I68	0.95	S7	0.10	Gibson Road- Valley District
178	S021173	5.58	I68	4.21	S26	0.26	Joe Ringer Rd
179	S101588	5.78	I68	2.84	S26	0.22	Brandonville Pike
180	S024674	6.80	I68	5.67	S7	0.44	Mt Nebo- Bull Run
181	S008482	8.43	I68	0.40	S7	0.09	Fairfax Street And Maryland Avenue
182	S009375	1.70	I68	1.70	I68	0.27	Castell Road
183	S103586	9.85	I68	3.72	S7	0.44	Green's Run Road
184	S100595	1.29	I68	1.29	I68	0.13	Laurel Run- Pisgah Rd
185	S100590	8.04	I68	3.56	S7	0.08	Zion Road
186	S010980	17.82	I79	0.42	U50	0.18	Russel Bolyard Rd
187	S011277	14.46	I68	2.29	S7	0.13	Howard Goff Rd
188	S010582	6.14	I68	2.07	S26	0.10	John Miller Rd
189	S004984	1.13	I68	1.13	I68	0.02	Laurel Run- Pisgah Rd
190	S100197	16.64	I68	3.60	S7	0.38	Whetsell- Trowbridge
191	S102286	8.53	I68	0.50	S7	0.20	Fairfax Street And Maryland Avenue
192	S102288	14.12	I68	0.24	S92	0.21	Birds Creek Rd
193	S006678	6.68	I68	1.63	S26	0.01	Planeing Mill Rd # 2
194	S101088	17.29	I68	1.30	S72	0.07	Atlantic Rd
195	S003982	16.28	I79	1.84	S26	0.06	Raccoon Valley Rd
196	S005777	10.58	I68	2.36	S7	0.28	Herring Road
197	S000981	1.55	I68	1.55	I68	0.08	Seese Rd
198	S000983	1.80	I68	0.31	S26	0.01	Salem Five Fork Road
199	S102887	7.25	I68	3.13	S7	0.17	Ridge Road
200	S012774	9.69	I68	4.29	S26	0.19	Lick RUn School To Crane School

Site No	Permit ID	Interstate (IS)	Sign - IS	Existing Highway (EH)	Sign - EH	Paved Road	Paved Road Name
201	S012776	15.35	I68	1.43	S92	0.01	Squires Rd
202	S013579	4.77	I68	2.29	S26	0.15	Jim Jackson Rd
203	S017077	8.71	I68	2.28	S26	0.27	Beech Run Rd
204	Z002281	2.68	I68	0.91	S26	0.19	Prison Rd
205	S013076	3.53	I68	0.16	S26	0.16	WV 26
206	S001876	0.99	I68	0.99	I68	0.24	Collins Rd
207	S000476	5.40	I68	1.40	S26	0.02	Moon Rd
208	S104090	14.14	I79	1.23	S92	0.19	Sand Run Rd
209	S003881	9.96	I68	1.74	S7	0.01	Goff Taylor Rd
210	S003884	9.68	I68	1.46	S7	0.22	Herring Road
211	S023176	0.85	I68	0.85	I68	0.12	Ralph Deal Road
212	S101686	15.09	I68	0.92	S26	0.15	Jenings Strip
213	I064100	1.62	I68	1.62	I68	0.04	Laurel Run- Pisgah Rd
214	S015774	16.42	I68	0.44	S72	0.03	Jerreries Road
215	S023776	5.32	I68	3.64	S26	0.02	Harmony Grove Road
216	S008285	11.67	I68	1.62	S26	0.15	Crane School Rd East End
217	S008280	16.14	I68	3.10	S7	0.01	Childester Rd
218	S017177	19.27	I68	2.69	S26	0.15	Danser To Blaster Bridge
219	S006284	15.57	I68	0.46	S26	0.13	John Savage Road
220	S107386	23.92	I68	0.40	U50	0.41	US 50
221	S012280	37.43	I68	2.97	U219	0.71	Tucker Co- MD State Line

Table 5: Shortest Distances from Sites to Other Transportation Methods

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
1	S104786	2.13	26.51	Anker Energy Scott's Run Dock	22.53	MONONGAHELA RIVER
2	S003781	0.80	21.90	Anker Energy Scott's Run Dock	18.57	MONONGAHELA RIVER
3	S108686	10.07	14.54	Anker Energy Scott's Run Dock	12.51	MONONGAHELA RIVER
4	S102687	4.61	18.97	Anker Energy Scott's Run Dock	16.02	MONONGAHELA RIVER
5	S101887	2.09	20.62	Anker Energy Scott's Run Dock	17.28	MONONGAHELA RIVER
6	S101888	1.36	25.92	Anker Energy Scott's Run Dock	21.52	MONONGAHELA RIVER
7	S103291	0.39	26.85	Anker Energy Scott's Run Dock	23.51	MONONGAHELA RIVER
8	S012976	0.51	20.13	Anker Energy Scott's Run Dock	15.23	MONONGAHELA RIVER
9	S006572	4.31	24.75	Anker Energy Scott's Run Dock	22.75	MONONGAHELA RIVER
10	S006577	7.34	16.56	Anker Energy Scott's Run Dock	13.60	MONONGAHELA RIVER
11	S006578	5.21	21.80	Anker Energy Scott's Run Dock	20.43	MONONGAHELA RIVER
12	S009680	5.06	17.57	Anker Energy Scott's Run Dock	13.57	MONONGAHELA RIVER
13	S009682	1.56	20.98	Anker Energy Scott's Run Dock	17.01	MONONGAHELA RIVER
14	S102987	3.28	18.87	Anker Energy Scott's Run Dock	15.54	MONONGAHELA RIVER
15	S101987	10.62	14.41	Anker Energy Scott's Run Dock	12.40	MONONGAHELA RIVER
16	S033171	12.51	22.17	Anker Energy Scott's Run Dock	20.17	MONONGAHELA RIVER
17	Z004781	12.93	18.25	Anker Energy Scott's Run Dock	16.25	MONONGAHELA RIVER
18	S011676	0.58	33.60	Anker Energy Scott's Run Dock	30.26	MONONGAHELA RIVER
19	S002075	3.96	25.14	Anker Energy Scott's Run Dock	23.15	MONONGAHELA RIVER
20	S200901	3.60	26.61	Anker Energy Scott's Run Dock	24.61	MONONGAHELA RIVER
21	S102389	9.48	19.31	Anker Energy Scott's Run Dock	17.31	MONONGAHELA RIVER
22	S102386	2.65	34.58	Anker Energy Scott's Run Dock	31.23	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
23	S005179	2.55	19.56	Anker Energy Scott's Run Dock	15.58	MONONGAHELA RIVER
24	S017777	1.76	22.89	Anker Energy Scott's Run Dock	17.99	MONONGAHELA RIVER
25	S001883	8.49	24.56	Anker Energy Scott's Run Dock	22.56	MONONGAHELA RIVER
26	I046800	6.05	15.54	Anker Energy Scott's Run Dock	12.19	MONONGAHELA RIVER
27	S108786	0.18	24.34	Anker Energy Scott's Run Dock	19.90	MONONGAHELA RIVER
28	S103788	9.70	16.66	Anker Energy Scott's Run Dock	14.65	MONONGAHELA RIVER
29	S004478	5.78	25.41	Anker Energy Scott's Run Dock	23.41	MONONGAHELA RIVER
30	S201192	12.04	45.95	Anker Energy Scott's Run Dock	42.60	MONONGAHELA RIVER
31	S100393	0.95	25.25	Anker Energy Scott's Run Dock	22.24	MONONGAHELA RIVER
32	S004281	7.89	15.98	Anker Energy Scott's Run Dock	13.02	MONONGAHELA RIVER
33	S001578	5.07	22.08	Anker Energy Scott's Run Dock	20.08	MONONGAHELA RIVER
34	S001575	0.56	33.59	Anker Energy Scott's Run Dock	30.23	MONONGAHELA RIVER
35	C000985	0.88	21.56	Anker Energy Scott's Run Dock	18.21	MONONGAHELA RIVER
36	S102388	4.02	20.96	Anker Energy Scott's Run Dock	16.98	MONONGAHELA RIVER
37	S008579	8.44	18.09	Anker Energy Scott's Run Dock	15.13	MONONGAHELA RIVER
38	S104086	10.76	15.08	Anker Energy Scott's Run Dock	13.06	MONONGAHELA RIVER
39	S103188	9.68	15.00	Anker Energy Scott's Run Dock	12.04	MONONGAHELA RIVER
40	S003377	7.15	22.88	Anker Energy Scott's Run Dock	20.86	MONONGAHELA RIVER
41	S100293	5.43	15.31	Anker Energy Scott's Run Dock	10.99	MONONGAHELA RIVER
42	S100298	1.73	20.49	Anker Energy Scott's Run Dock	16.51	MONONGAHELA RIVER
43	S100299	4.54	24.60	Anker Energy Scott's Run Dock	22.61	MONONGAHELA RIVER
44	S012479	7.47	16.53	Anker Energy Scott's Run Dock	13.57	MONONGAHELA RIVER
45	S013180	2.02	20.00	Anker Energy Scott's Run Dock	16.67	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
46	S012274	1.46	22.34	Anker Energy Scott's Run Dock	17.44	MONONGAHELA RIVER
47	S011077	6.67	24.09	Anker Energy Scott's Run Dock	22.09	MONONGAHELA RIVER
48	S001184	2.45	19.77	Anker Energy Scott's Run Dock	16.44	MONONGAHELA RIVER
49	S001679	0.59	32.75	Anker Energy Scott's Run Dock	29.40	MONONGAHELA RIVER
50	S001676	3.88	26.00	Anker Energy Scott's Run Dock	21.10	MONONGAHELA RIVER
51	S105886	3.92	19.81	Anker Energy Scott's Run Dock	15.89	MONONGAHELA RIVER
52	S007179	9.13	13.73	Anker Energy Scott's Run Dock	10.77	MONONGAHELA RIVER
53	S100888	6.77	24.11	Anker Energy Scott's Run Dock	22.10	MONONGAHELA RIVER
54	S101592	7.86	14.66	Anker Energy Scott's Run Dock	11.32	MONONGAHELA RIVER
55	S006183	0.99	22.27	Anker Energy Scott's Run Dock	17.38	MONONGAHELA RIVER
56	S006182	1.51	21.30	Anker Energy Scott's Run Dock	17.96	MONONGAHELA RIVER
57	S006184	13.32	21.65	Anker Energy Scott's Run Dock	19.64	MONONGAHELA RIVER
58	S004181	8.85	14.41	Anker Energy Scott's Run Dock	11.45	MONONGAHELA RIVER
59	S002678	8.50	18.19	Anker Energy Scott's Run Dock	15.24	MONONGAHELA RIVER
60	S104088	8.51	13.41	Anker Energy Scott's Run Dock	10.46	MONONGAHELA RIVER
61	S003678	1.56	23.92	Anker Energy Scott's Run Dock	19.95	MONONGAHELA RIVER
62	S005784	4.88	30.35	Anker Energy Scott's Run Dock	25.45	MONONGAHELA RIVER
63	S101691	2.04	18.41	Anker Energy Scott's Run Dock	13.66	MONONGAHELA RIVER
64	S019277	6.14	17.61	Anker Energy Scott's Run Dock	14.65	MONONGAHELA RIVER
65	S017677	3.42	27.87	Anker Energy Scott's Run Dock	25.62	MONONGAHELA RIVER
66	S100487	7.71	13.58	Anker Energy Scott's Run Dock	10.24	MONONGAHELA RIVER
67	S100489	6.68	15.10	Anker Energy Scott's Run Dock	12.13	MONONGAHELA RIVER
68	S100488	9.86	13.34	Anker Energy Scott's Run Dock	11.33	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
69	S008185	3.74	18.35	Anker Energy Scott's Run Dock	14.37	MONONGAHELA RIVER
70	S011280	8.88	13.40	Anker Energy Scott's Run Dock	10.45	MONONGAHELA RIVER
71	S004685	3.92	18.66	Anker Energy Scott's Run Dock	15.31	MONONGAHELA RIVER
72	S005882	5.05	21.86	Anker Energy Scott's Run Dock	19.86	MONONGAHELA RIVER
73	S022476	2.21	22.86	Anker Energy Scott's Run Dock	18.88	MONONGAHELA RIVER
74	S100687	10.78	15.78	Anker Energy Scott's Run Dock	13.77	MONONGAHELA RIVER
75	S100688	4.33	18.33	Anker Energy Scott's Run Dock	15.38	MONONGAHELA RIVER
76	S002881	2.39	22.75	Anker Energy Scott's Run Dock	18.79	MONONGAHELA RIVER
77	S003875	1.43	20.02	Anker Energy Scott's Run Dock	16.67	MONONGAHELA RIVER
78	S001285	8.51	13.27	Anker Energy Scott's Run Dock	10.32	MONONGAHELA RIVER
79	S001281	8.47	21.80	Anker Energy Scott's Run Dock	19.78	MONONGAHELA RIVER
80	C001382	3.54	18.71	Anker Energy Scott's Run Dock	15.34	MONONGAHELA RIVER
81	S103987	10.19	21.16	Anker Energy Scott's Run Dock	19.14	MONONGAHELA RIVER
82	S103986	10.11	25.77	Anker Energy Scott's Run Dock	23.76	MONONGAHELA RIVER
83	S002577	2.44	23.00	Anker Energy Scott's Run Dock	19.03	MONONGAHELA RIVER
84	S100188	9.02	19.83	Anker Energy Scott's Run Dock	17.16	MONONGAHELA RIVER
85	S100986	6.44	17.04	Anker Energy Scott's Run Dock	14.08	MONONGAHELA RIVER
86	S100989	4.43	24.90	Anker Energy Scott's Run Dock	22.91	MONONGAHELA RIVER
87	S012678	2.97	25.05	Anker Energy Scott's Run Dock	23.06	MONONGAHELA RIVER
88	S006084	12.19	25.63	Anker Energy Scott's Run Dock	23.62	MONONGAHELA RIVER
89	S015875	9.86	24.96	Anker Energy Scott's Run Dock	22.95	MONONGAHELA RIVER
90	S006582	4.63	22.81	Anker Energy Scott's Run Dock	20.81	MONONGAHELA RIVER
91	S011982	5.27	18.62	Anker Energy Scott's Run Dock	14.66	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
92	S007183	11.69	23.09	Anker Energy Scott's Run Dock	21.07	MONONGAHELA RIVER
93	S104188	10.26	24.59	Anker Energy Scott's Run Dock	22.57	MONONGAHELA RIVER
94	S001174	1.51	23.18	Anker Energy Scott's Run Dock	19.21	MONONGAHELA RIVER
95	S104487	5.58	31.09	Anker Energy Scott's Run Dock	26.61	MONONGAHELA RIVER
96	S005480	3.65	20.85	Anker Energy Scott's Run Dock	16.95	MONONGAHELA RIVER
97	S003083	8.73	25.11	Anker Energy Scott's Run Dock	23.11	MONONGAHELA RIVER
98	S017976	1.02	20.87	Anker Energy Scott's Run Dock	16.43	MONONGAHELA RIVER
99	S009184	4.39	19.08	Anker Energy Scott's Run Dock	15.74	MONONGAHELA RIVER
100	S009185	4.94	23.94	Anker Energy Scott's Run Dock	21.93	MONONGAHELA RIVER
101	S103389	1.84	19.88	Anker Energy Scott's Run Dock	16.54	MONONGAHELA RIVER
102	S017476	1.56	20.59	Anker Energy Scott's Run Dock	17.25	MONONGAHELA RIVER
103	Z008881	14.94	23.67	Anker Energy Scott's Run Dock	21.66	MONONGAHELA RIVER
104	S007582	4.08	18.80	Anker Energy Scott's Run Dock	15.48	MONONGAHELA RIVER
105	S103286	2.83	19.30	Anker Energy Scott's Run Dock	15.96	MONONGAHELA RIVER
106	S102489	6.24	15.84	Anker Energy Scott's Run Dock	12.88	MONONGAHELA RIVER
107	S102488	2.49	24.47	Anker Energy Scott's Run Dock	22.58	MONONGAHELA RIVER
108	S103687	8.63	15.53	Anker Energy Scott's Run Dock	12.57	MONONGAHELA RIVER
109	S100496	6.87	15.29	Anker Energy Scott's Run Dock	12.32	MONONGAHELA RIVER
110	S001483	0.50	27.09	Anker Energy Scott's Run Dock	23.74	MONONGAHELA RIVER
111	S001482	2.15	26.84	Anker Energy Scott's Run Dock	23.49	MONONGAHELA RIVER
112	S001485	9.10	13.86	Anker Energy Scott's Run Dock	10.90	MONONGAHELA RIVER
113	S009369	6.37	21.45	Anker Energy Scott's Run Dock	19.46	MONONGAHELA RIVER
114	S101389	0.95	25.25	Anker Energy Scott's Run Dock	22.24	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
115	S101388	6.37	15.87	Anker Energy Scott's Run Dock	12.54	MONONGAHELA RIVER
116	S005378	0.86	22.05	Anker Energy Scott's Run Dock	17.16	MONONGAHELA RIVER
117	S005085	10.34	14.43	Anker Energy Scott's Run Dock	12.42	MONONGAHELA RIVER
118	S013278	7.09	23.88	Anker Energy Scott's Run Dock	21.86	MONONGAHELA RIVER
119	S013273	9.45	14.95	Anker Energy Scott's Run Dock	12.94	MONONGAHELA RIVER
120	Z000781	9.36	24.27	Anker Energy Scott's Run Dock	22.26	MONONGAHELA RIVER
121	Z001781	7.48	16.15	Anker Energy Scott's Run Dock	13.19	MONONGAHELA RIVER
122	S101986	5.75	25.47	Anker Energy Scott's Run Dock	23.39	MONONGAHELA RIVER
123	S005278	1.98	22.73	Anker Energy Scott's Run Dock	18.76	MONONGAHELA RIVER
124	S014879	10.57	22.56	Anker Energy Scott's Run Dock	20.55	MONONGAHELA RIVER
125	S002685	1.94	21.17	Anker Energy Scott's Run Dock	17.84	MONONGAHELA RIVER
126	Z004081	1.98	20.08	Anker Energy Scott's Run Dock	16.73	MONONGAHELA RIVER
127	S105386	4.67	24.19	Anker Energy Scott's Run Dock	22.18	MONONGAHELA RIVER
128	S000381	6.36	25.70	Anker Energy Scott's Run Dock	23.69	MONONGAHELA RIVER
129	S000380	6.20	22.99	Anker Energy Scott's Run Dock	20.99	MONONGAHELA RIVER
130	S100389	15.05	24.12	Anker Energy Scott's Run Dock	22.11	MONONGAHELA RIVER
131	S007383	7.56	18.03	Anker Energy Scott's Run Dock	15.07	MONONGAHELA RIVER
132	S008879	0.69	22.72	Anker Energy Scott's Run Dock	17.76	MONONGAHELA RIVER
133	S018875	7.73	15.86	Anker Energy Scott's Run Dock	12.89	MONONGAHELA RIVER
134	S103086	13.85	22.53	Anker Energy Scott's Run Dock	20.53	MONONGAHELA RIVER
135	S106786	1.31	33.03	Anker Energy Scott's Run Dock	29.69	MONONGAHELA RIVER
136	S103487	2.08	21.38	Anker Energy Scott's Run Dock	18.42	MONONGAHELA RIVER
137	S106191	7.57	14.47	Anker Energy Scott's Run Dock	11.51	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
138	S010775	0.70	26.06	Anker Energy Scott's Run Dock	22.28	MONONGAHELA RIVER
139	S106386	0.47	20.70	Anker Energy Scott's Run Dock	17.36	MONONGAHELA RIVER
140	C000184	5.25	17.65	Anker Energy Scott's Run Dock	14.70	MONONGAHELA RIVER
141	S007078	3.63	35.88	Anker Energy Scott's Run Dock	32.54	MONONGAHELA RIVER
142	S004679	0.56	24.97	Anker Energy Scott's Run Dock	21.62	MONONGAHELA RIVER
143	S002383	0.36	23.24	Anker Energy Scott's Run Dock	18.79	MONONGAHELA RIVER
144	I063600	3.13	28.12	Anker Energy Scott's Run Dock	25.55	MONONGAHELA RIVER
145	Z000581	11.84	22.92	Anker Energy Scott's Run Dock	20.91	MONONGAHELA RIVER
146	S007574	6.31	21.02	Anker Energy Scott's Run Dock	19.03	MONONGAHELA RIVER
147	S007579	2.00	26.34	Anker Energy Scott's Run Dock	23.00	MONONGAHELA RIVER
148	Z002481	8.22	24.01	Anker Energy Scott's Run Dock	22.00	MONONGAHELA RIVER
149	S004073	8.16	17.61	Anker Energy Scott's Run Dock	14.65	MONONGAHELA RIVER
150	S003385	2.79	19.30	Anker Energy Scott's Run Dock	15.32	MONONGAHELA RIVER
151	S104286	5.24	25.95	Anker Energy Scott's Run Dock	23.93	MONONGAHELA RIVER
152	S103889	0.18	20.07	Anker Energy Scott's Run Dock	15.17	MONONGAHELA RIVER
153	S103887	3.56	35.68	Anker Energy Scott's Run Dock	32.34	MONONGAHELA RIVER
154	S002783	6.96	22.94	Anker Energy Scott's Run Dock	20.93	MONONGAHELA RIVER
155	S010282	10.78	14.16	Anker Energy Scott's Run Dock	12.15	MONONGAHELA RIVER
156	S012282	5.14	25.26	Anker Energy Scott's Run Dock	23.28	MONONGAHELA RIVER
157	S003685	0.31	22.45	Anker Energy Scott's Run Dock	18.01	MONONGAHELA RIVER
158	S003684	4.61	19.71	Anker Energy Scott's Run Dock	15.72	MONONGAHELA RIVER
159	S101488	6.91	13.91	Anker Energy Scott's Run Dock	9.15	MONONGAHELA RIVER
160	S101487	10.56	15.55	Anker Energy Scott's Run Dock	13.53	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
161	S003579	13.33	24.71	Anker Energy Scott's Run Dock	22.69	MONONGAHELA RIVER
162	S003574	7.48	23.93	Anker Energy Scott's Run Dock	21.94	MONONGAHELA RIVER
163	S010377	1.44	20.77	Anker Energy Scott's Run Dock	16.42	MONONGAHELA RIVER
164	S010375	6.63	24.19	Anker Energy Scott's Run Dock	22.19	MONONGAHELA RIVER
165	S015775	1.96	20.05	Anker Energy Scott's Run Dock	16.72	MONONGAHELA RIVER
166	S015776	16.70	25.93	Anker Energy Scott's Run Dock	23.94	MONONGAHELA RIVER
167	S006079	16.31	27.96	Anker Energy Scott's Run Dock	25.95	MONONGAHELA RIVER
168	S103691	1.14	22.51	Anker Energy Scott's Run Dock	17.62	MONONGAHELA RIVER
169	S004481	0.77	22.71	Anker Energy Scott's Run Dock	17.81	MONONGAHELA RIVER
170	S005283	1.03	21.39	Anker Energy Scott's Run Dock	17.42	MONONGAHELA RIVER
171	S005285	12.78	22.39	Anker Energy Scott's Run Dock	20.40	MONONGAHELA RIVER
172	S005284	6.68	13.48	Anker Energy Scott's Run Dock	8.73	MONONGAHELA RIVER
173	S021575	15.05	24.94	Anker Energy Scott's Run Dock	22.93	MONONGAHELA RIVER
174	S031571	0.87	22.33	Anker Energy Scott's Run Dock	17.44	MONONGAHELA RIVER
175	S025474	2.68	25.11	Anker Energy Scott's Run Dock	23.12	MONONGAHELA RIVER
176	S102587	1.17	21.37	Anker Energy Scott's Run Dock	16.92	MONONGAHELA RIVER
177	S103191	6.84	15.05	Anker Energy Scott's Run Dock	12.09	MONONGAHELA RIVER
178	S021173	7.14	25.07	Anker Energy Scott's Run Dock	23.06	MONONGAHELA RIVER
179	S101588	6.85	24.69	Anker Energy Scott's Run Dock	22.69	MONONGAHELA RIVER
180	S024674	8.16	17.61	Anker Energy Scott's Run Dock	14.65	MONONGAHELA RIVER
181	S008482	7.71	14.31	Anker Energy Scott's Run Dock	11.36	MONONGAHELA RIVER
182	S009375	14.22	25.64	Anker Energy Scott's Run Dock	23.63	MONONGAHELA RIVER
183	S103586	7.87	16.06	Anker Energy Scott's Run Dock	13.10	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
184	S100595	11.15	15.08	Anker Energy Scott's Run Dock	13.07	MONONGAHELA RIVER
185	S100590	8.79	14.25	Anker Energy Scott's Run Dock	11.29	MONONGAHELA RIVER
186	S010980	3.88	26.00	Anker Energy Scott's Run Dock	21.10	MONONGAHELA RIVER
187	S011277	4.06	20.55	Anker Energy Scott's Run Dock	16.57	MONONGAHELA RIVER
188	S010582	5.27	21.77	Anker Energy Scott's Run Dock	19.77	MONONGAHELA RIVER
189	S004984	10.28	13.96	Anker Energy Scott's Run Dock	11.95	MONONGAHELA RIVER
190	S100197	0.54	27.30	Anker Energy Scott's Run Dock	23.95	MONONGAHELA RIVER
191	S102286	7.64	14.42	Anker Energy Scott's Run Dock	11.45	MONONGAHELA RIVER
192	S102288	2.69	20.21	Anker Energy Scott's Run Dock	16.23	MONONGAHELA RIVER
193	S006678	4.63	22.30	Anker Energy Scott's Run Dock	20.31	MONONGAHELA RIVER
194	S101088	0.90	25.69	Anker Energy Scott's Run Dock	21.91	MONONGAHELA RIVER
195	S003982	0.13	23.91	Anker Energy Scott's Run Dock	19.47	MONONGAHELA RIVER
196	S005777	5.80	16.46	Anker Energy Scott's Run Dock	13.50	MONONGAHELA RIVER
197	S000981	11.06	21.69	Anker Energy Scott's Run Dock	19.67	MONONGAHELA RIVER
198	S000983	13.15	21.79	Anker Energy Scott's Run Dock	19.79	MONONGAHELA RIVER
199	S102887	9.17	13.46	Anker Energy Scott's Run Dock	10.49	MONONGAHELA RIVER
200	S012774	2.91	28.17	Anker Energy Scott's Run Dock	25.17	MONONGAHELA RIVER
201	S012776	1.08	21.44	Anker Energy Scott's Run Dock	17.09	MONONGAHELA RIVER
202	S013579	7.20	23.68	Anker Energy Scott's Run Dock	21.67	MONONGAHELA RIVER
203	S017077	2.85	24.33	Anker Energy Scott's Run Dock	22.35	MONONGAHELA RIVER
204	Z002281	8.78	21.59	Anker Energy Scott's Run Dock	19.58	MONONGAHELA RIVER
205	S013076	7.63	22.44	Anker Energy Scott's Run Dock	20.43	MONONGAHELA RIVER
206	S001876	12.45	18.15	Anker Energy Scott's Run Dock	16.15	MONONGAHELA RIVER

Site No	Permit_ID	Railroad	Intermodal Terminal Facility	Intermodal Terminal Facility Name	National Waterway	National Waterway Name
207	S000476	6.67	24.09	Anker Energy Scott's Run Dock	22.09	MONONGAHELA RIVER
208	S104090	0.87	22.33	Anker Energy Scott's Run Dock	17.44	MONONGAHELA RIVER
209	S003881	7.28	15.84	Anker Energy Scott's Run Dock	12.88	MONONGAHELA RIVER
210	S003884	7.07	15.55	Anker Energy Scott's Run Dock	12.60	MONONGAHELA RIVER
211	S023176	11.59	22.95	Anker Energy Scott's Run Dock	20.93	MONONGAHELA RIVER
212	S101686	1.01	21.61	Anker Energy Scott's Run Dock	18.28	MONONGAHELA RIVER
213	I064100	10.78	14.57	Anker Energy Scott's Run Dock	12.56	MONONGAHELA RIVER
214	S015774	0.36	25.55	Anker Energy Scott's Run Dock	22.16	MONONGAHELA RIVER
215	S023776	6.74	20.05	Anker Energy Scott's Run Dock	18.05	MONONGAHELA RIVER
216	S008285	0.92	25.50	Anker Energy Scott's Run Dock	22.50	MONONGAHELA RIVER
217	S008280	1.57	26.80	Anker Energy Scott's Run Dock	23.45	MONONGAHELA RIVER
218	S017177	0.47	26.53	Anker Energy Scott's Run Dock	22.55	MONONGAHELA RIVER
219	S006284	1.39	21.86	Anker Energy Scott's Run Dock	18.53	MONONGAHELA RIVER
220	S107386	3.06	30.01	Anker Energy Scott's Run Dock	26.03	MONONGAHELA RIVER
221	S012280	12.90	50.59	Anker Energy Scott's Run Dock	46.69	MONONGAHELA RIVER

Table 6: Shortest Distances from Sites to Sewer Lines (SL) and Water Lines (WL)

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
1	S104786	2.35	Town of Tunnelton	0.25	Town of Tunnelton
2	S003781	0.77	City of Kingwood	0.65	City of Kingwood
3	S108686	4.48	Morgantown Utility Board	0.87	Preston County Public Service District No. 4
4	S102687	3.91	Preston County Public Service District	1.38	Preston County Public Service District No. 2
5	S101887	1.30	City of Kingwood	0.96	Preston County Public Service District No. 1
6	S101888	1.69	Town of Tunnelton	0.41	Preston County Public Service District
7	S103291	2.94	City of Kingwood	1.94	City of Kingwood
8	S012976	1.74	Town of Newburg	1.61	Taylor County Public Service District
9	S006572	1.86	Preston County Public Service District	1.78	Preston County Public Service District No. 4
10	S006577	4.33	Town of Reedsville	0.47	Masontown Municipal Water Department
11	S006578	0.95	Preston County Public Service District	0.98	Preston County Public Service District No. 4
12	S009680	1.58	Town of Reedsville	0.16	Preston County Public Service District No. 1
13	S009682	2.33	Town of Tunnelton	0.95	Preston County Public Service District No. 2
14	S102987	2.45	Town of Reedsville	0.07	Preston County Public Service District No. 2
15	S101987	5.24	Morgantown Utility Board	0.25	Preston County Public Service District No. 4
16	S033171	2.88	Preston County Public Service District	0.67	Preston County Public Service District No. 4
17	Z004781	7.69	Preston County Public Service District	1.32	Preston County Public Service District No. 4
18	S011676	1.65	Town of Terra Alta	0.05	Terra Alta Municipal Water Department
19	S002075	2.16	Preston County Public Service District	2.09	Preston County Public Service District No. 4
20	S200901	2.64	Preston County Public Service District	2.57	Preston County Public Service District No. 4
21	S102389	5.04	Preston County Public Service District	1.77	Preston County Public Service District No. 4
22	S102386	3.30	Town of Terra Alta	1.75	Terra Alta Municipal Water Department
23	S005179	2.96	Town of Newburg	2.00	Preston County Public Service District No. 2
24	S017777	1.88	Town of Newburg	0.34	Town of Newburg

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
25	S001883	3.65	Preston County Public Service District	2.57	Preston County Public Service District No. 4
26	I046800	0.02	Town of Reedsville	0.09	Preston County Public Service District No. 1
27	S108786	2.06	Town of Tunnelton	0.88	Denver Water Association
28	S103788	5.97	Preston County Public Service District	1.59	Masontown Municipal Water Department
29	S004478	1.86	Preston County Public Service District	1.51	Preston County Public Service District No. 4
30	S201192	4.52	City of Thomas	2.54	Hamrick Public Service District
31	S100393	0.50	Town of Albright (Sewer)	0.39	Town of Albright - Water Works
32	S004281	4.31	Town of Reedsville	0.68	Masontown Municipal Water Department
33	S001578	1.92	Preston County Public Service District	1.95	Preston County Public Service District No. 4
34	S001575	1.64	Town of Terra Alta	0.05	Terra Alta Municipal Water Department
35	C000985	0.08	City of Kingwood	0.01	Preston County Public Service District No. 1
36	S102388	3.94	Town of Reedsville	1.25	Preston County Public Service District No. 2
37	S008579	5.03	Preston County Public Service District	1.46	Masontown Municipal Water Department
38	S104086	5.18	Morgantown Utility Board	1.20	Preston County Public Service District No. 4
39	S103188	5.08	Morgantown Utility Board	0.54	Masontown Municipal Water Department
40	S003377	1.47	Preston County Public Service District	0.31	Preston County Public Service District No. 4
41	S100293	3.46	Town of Reedsville	0.38	Preston County Public Service District No. 1
42	S100298	2.83	Town of Tunnelton	1.43	Preston County Public Service District No. 2
43	S100299	1.28	Preston County Public Service District	1.20	Preston County Public Service District No. 4
44	S012479	4.46	Town of Reedsville	0.62	Masontown Municipal Water Department
45	S013180	1.61	City of Kingwood	0.58	Preston County Public Service District No. 2
46	S012274	1.41	Town of Newburg	0.04	Town of Newburg
47	S011077	1.49	Preston County Public Service District	0.48	Preston County Public Service District No. 4
48	S001184	2.03	City of Kingwood	0.21	Preston County Public Service District No. 2
49	S001679	1.34	Town of Terra Alta	0.22	Terra Alta Municipal Water Department

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
50	S001676	3.51	Town of Newburg	1.55	Town of Newburg
51	S105886	2.27	Town of Reedsville	0.53	Preston County Public Service District No. 2
52	S007179	4.54	Morgantown Utility Board	0.85	Masontown Municipal Water Department
53	S100888	1.95	Preston County Public Service District	1.02	Preston County Public Service District No. 4
54	S101592	1.70	Town of Reedsville	0.38	Preston County Public Service District No. 1
55	S006183	0.77	Town of Newburg	0.01	Town of Newburg
56	S006182	1.47	City of Kingwood	0.71	Preston County Public Service District No. 2
57	S006184	5.29	Preston County Public Service District	0.36	Preston County Public Service District No. 4
58	S004181	4.00	Morgantown Utility Board	1.49	Masontown Municipal Water Department
59	S002678	5.05	Preston County Public Service District	1.49	Masontown Municipal Water Department
60	S104088	2.96	Town of Reedsville	0.41	Masontown Municipal Water Department
61	S003678	1.41	Town of Tunnelton	0.19	Preston County Public Service District No. 2
62	S005784	4.74	Town of Rowlesburg Sanitary Board	3.22	Town of Tunnelton
63	S101691	2.06	Town of Newburg	1.97	Town of Newburg
64	S019277	3.92	Town of Reedsville	0.12	Masontown Municipal Water Department
65	S017677	3.07	Town of Albright (Sewer)	2.82	Town of Albright - Water Works
66	S100487	1.41	Town of Reedsville	0.14	Preston County Public Service District No. 1
67	S100489	1.71	Town of Reedsville	0.68	Masontown Municipal Water Department
68	S100488	4.57	Morgantown Utility Board	0.14	Preston County Public Service District No. 4
69	S008185	4.00	Town of Newburg	1.90	Preston County Public Service District No. 1
70	S011280	4.33	Deckers Creek Public Service District	0.92	Masontown Municipal Water Department
71	S004685	1.80	Town of Reedsville	0.02	Preston County Public Service District No. 2
72	S005882	1.17	Preston County Public Service District	1.20	Preston County Public Service District No. 4
73	S022476	2.04	Town of Tunnelton	0.46	Preston County Public Service District No. 2
74	S100687	5.78	Morgantown Utility Board	0.87	Preston County Public Service District No. 4

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
75	S100688	3.56	Town of Reedsville	0.22	Preston County Public Service District No. 2
76	S002881	2.22	Town of Tunnelton	0.51	Preston County Public Service District No. 2
77	S003875	0.68	City of Kingwood	0.23	Preston County Public Service District No. 1
78	S001285	3.35	Town of Reedsville	0.52	Masontown Municipal Water Department
79	S001281	2.82	Preston County Public Service District	0.59	Preston County Public Service District No. 4
80	C001382	2.21	Town of Reedsville	0.22	Preston County Public Service District No. 2
81	S103987	4.50	Preston County Public Service District	1.53	Preston County Public Service District No. 4
82	S103986	3.27	Preston County Public Service District	2.67	Preston County Public Service District No. 4
83	S002577	2.40	Town of Tunnelton	0.60	Preston County Public Service District No. 2
84	S100188	4.78	Preston County Public Service District	2.31	Preston County Public Service District No. 4
85	S100986	3.84	Town of Reedsville	0.11	Masontown Municipal Water Department
86	S100989	1.94	Preston County Public Service District	1.86	Preston County Public Service District No. 4
87	S012678	2.41	Town of Albright (Sewer)	2.05	Town of Albright - Water Works
88	S006084	1.15	Preston County Public Service District	0.55	Preston County Public Service District No. 4
89	S015875	3.38	Preston County Public Service District	2.71	Preston County Public Service District No. 4
90	S006582	1.62	Preston County Public Service District	1.66	Preston County Public Service District No. 4
91	S011982	2.54	Town of Reedsville	0.71	Preston County Public Service District No. 1
92	S007183	1.87	Preston County Public Service District	0.93	Preston County Public Service District No. 4
93	S104188	2.99	Preston County Public Service District	2.32	Preston County Public Service District No. 4
94	S001174	1.35	Town of Tunnelton	0.21	Preston County Public Service District No. 2
95	S104487	5.31	Town of Rowlesburg Sanitary Board	4.12	Town of Tunnelton
96	S005480	2.61	Town of Reedsville	0.56	Preston County Public Service District No. 2
97	S003083	4.15	Preston County Public Service District	3.10	Preston County Public Service District No. 4
98	S017976	1.94	Town of Newburg	1.93	Town of Newburg

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
99	S009184	1.33	Town of Reedsville	0.34	Preston County Public Service District No. 2
100	S009185	0.50	Preston County Public Service District	0.45	Preston County Public Service District No. 4
101	S103389	1.06	City of Kingwood	0.49	Preston County Public Service District No. 1
102	S017476	1.36	City of Kingwood	0.86	Preston County Public Service District No. 2
103	Z008881	6.92	Preston County Public Service District	2.52	Preston County Public Service District No. 4
104	S007582	1.65	Town of Reedsville	0.03	Preston County Public Service District No. 2
105	S103286	2.26	City of Kingwood	0.11	Preston County Public Service District No. 2
106	S102489	1.09	Town of Reedsville	0.53	Preston County Public Service District No. 1
107	S102488	2.02	Town of Albright (Sewer)	1.74	Town of Albright - Water Works
108	S103687	5.21	Town of Reedsville	0.47	Masontown Municipal Water Department
109	S100496	2.14	Town of Reedsville	0.25	Masontown Municipal Water Department
110	S001483	1.98	City of Kingwood	1.00	City of Kingwood
111	S001482	2.28	City of Kingwood	1.24	City of Kingwood
112	S001485	4.67	Deckers Creek Public Service District	0.19	Masontown Municipal Water Department
113	S009369	1.23	Preston County Public Service District	0.49	Preston County Public Service District No. 4
114	S101389	0.50	Town of Albright (Sewer)	0.39	Town of Albright - Water Works
115	S101388	0.88	Town of Reedsville	0.24	Preston County Public Service District No. 1
116	S005378	0.80	Town of Newburg	0.08	Town of Newburg
117	S005085	4.78	Morgantown Utility Board	0.61	Preston County Public Service District No. 4
118	S013278	1.70	Preston County Public Service District	0.61	Preston County Public Service District No. 4
119	S013273	3.86	Morgantown Utility Board	1.05	Preston County Public Service District No. 4
120	Z000781	3.95	Preston County Public Service District	3.14	Preston County Public Service District No. 4
121	Z001781	4.04	Town of Reedsville	0.40	Masontown Municipal Water Department
122	S101986	2.40	Preston County Public Service District	2.05	Preston County Public Service District No. 4
123	S005278	1.81	Town of Tunnelton	0.21	Preston County Public Service District No. 2

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
124	S014879	3.44	Preston County Public Service District	2.31	Preston County Public Service District No. 4
125	S002685	1.90	City of Kingwood	0.74	Preston County Public Service District No. 2
126	Z004081	1.17	City of Kingwood	0.79	Preston County Public Service District No. 1
127	S105386	0.73	Preston County Public Service District	0.72	Preston County Public Service District No. 4
128	S000381	2.66	Preston County Public Service District	2.05	Preston County Public Service District No. 4
129	S000380	0.57	Preston County Public Service District	0.11	Preston County Public Service District No. 4
130	S100389	2.97	Preston County Public Service District	1.00	Preston County Public Service District No. 4
131	S007383	4.80	Town of Reedsville	0.90	Masontown Municipal Water Department
132	S008879	1.74	Town of Newburg	0.37	Town of Newburg
133	S018875	4.38	Town of Reedsville	0.73	Masontown Municipal Water Department
134	S103086	3.58	Preston County Public Service District	0.66	Preston County Public Service District No. 4
135	S106786	1.79	Town of Terra Alta	0.46	Terra Alta Municipal Water Department
136	S103487	1.96	Town of Albright (Sewer)	0.45	Preston County Public Service District No. 2
137	S106191	2.41	Town of Reedsville	0.11	Masontown Municipal Water Department
138	S010775	2.14	Town of Tunnelton	1.29	Preston County Public Service District No. 2
139	S106386	0.15	City of Kingwood	0.02	City of Kingwood
140	C000184	3.77	Town of Reedsville	0.66	Masontown Municipal Water Department
141	S007078	4.17	Town of Terra Alta	2.73	Terra Alta Municipal Water Department
142	S004679	0.95	Town of Albright (Sewer)	0.97	City of Kingwood
143	S002383	1.83	Town of Newburg	1.83	Town of Newburg
144	I063600	2.67	Town of Albright (Sewer)	2.39	Town of Albright - Water Works
145	Z000581	3.30	Preston County Public Service District	1.07	Preston County Public Service District No. 4
146	S007574	1.68	Preston County Public Service District	1.12	Preston County Public Service District No. 4
147	S007579	2.20	City of Kingwood	1.42	City of Kingwood
148	Z002481	3.13	Preston County Public Service District	2.04	Preston County Public Service District No. 4
149	S004073	5.05	Town of Reedsville	0.86	Masontown Municipal Water Department

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
150	S003385	3.35	Town of Newburg	1.64	Preston County Public Service District No. 2
151	S104286	2.43	Preston County Public Service District	2.32	Preston County Public Service District No. 4
152	S103889	1.02	Town of Newburg	1.02	Town of Newburg
153	S103887	4.01	Town of Terra Alta	2.63	Terra Alta Municipal Water Department
154	S002783	1.21	Preston County Public Service District	0.02	Preston County Public Service District No. 4
155	S010282	5.66	Morgantown Utility Board	0.29	Preston County Public Service District No. 4
156	S012282	1.28	Preston County Public Service District	1.25	Preston County Public Service District No. 4
157	S003685	1.12	Town of Newburg	1.11	Town of Newburg
158	S003684	2.42	Town of Reedsville	0.74	Preston County Public Service District No. 2
159	S101488	4.71	Town of Reedsville	0.80	Clinton Water Association, Inc.
160	S101487	5.31	Morgantown Utility Board	1.76	Preston County Public Service District No. 4
161	S003579	0.20	Preston County Public Service District	0.62	Preston County Public Service District No. 4
162	S003574	2.63	Preston County Public Service District	1.59	Preston County Public Service District No. 4
163	S010377	2.55	Town of Newburg	1.90	Preston County Public Service District No. 2
164	S010375	1.37	Preston County Public Service District	0.33	Preston County Public Service District No. 4
165	S015775	1.56	City of Kingwood	0.64	Preston County Public Service District No. 2
166	S015776	3.26	Preston County Public Service District	1.63	Preston County Public Service District No. 4
167	S006079	2.82	Preston County Public Service District	1.02	Preston County Public Service District No. 4
168	S103691	0.82	Town of Newburg	0.10	Town of Newburg
169	S004481	1.28	Town of Newburg	0.28	Town of Newburg
170	S005283	2.14	Town of Tunnelton	1.01	Preston County Public Service District No. 2
171	S005285	2.75	Preston County Public Service District	0.55	Preston County Public Service District No. 4
172	S005284	4.96	Town of Reedsville	0.47	Clinton Water Association, Inc.
173	S021575	1.96	Preston County Public Service District	0.29	Preston County Public Service District No. 4
174	S031571	1.15	Town of Newburg	0.22	Town of Newburg
175	S025474	2.12	Town of Albright (Sewer)	1.77	Town of Albright - Water Works
176	S102587	1.22	Town of Newburg	1.14	Town of Newburg

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
177	S103191	1.86	Town of Reedsville	0.55	Masontown Municipal Water Department
178	S021173	3.11	Preston County Public Service District	2.27	Preston County Public Service District No. 4
179	S101588	2.53	Preston County Public Service District	1.69	Preston County Public Service District No. 4
180	S024674	5.05	Town of Reedsville	0.86	Masontown Municipal Water Department
181	S008482	2.60	Town of Reedsville	0.21	Masontown Municipal Water Department
182	S009375	0.69	Preston County Public Service District	0.72	Preston County Public Service District No. 4
183	S103586	4.86	Town of Reedsville	1.06	Masontown Municipal Water Department
184	S100595	5.91	Morgantown Utility Board	0.16	Preston County Public Service District No. 4
185	S100590	4.28	Town of Reedsville	0.12	Masontown Municipal Water Department
186	S010980	3.51	Town of Newburg	1.55	Town of Newburg
187	S011277	2.61	Town of Reedsville	0.87	Preston County Public Service District No. 2
188	S010582	1.22	Preston County Public Service District	1.25	Preston County Public Service District No. 4
189	S004984	4.93	Morgantown Utility Board	0.02	Preston County Public Service District No. 4
190	S100197	2.28	City of Kingwood	1.27	City of Kingwood
191	S102286	2.62	Town of Reedsville	0.28	Masontown Municipal Water Department
192	S102288	2.99	Town of Tunnelton	0.74	Preston County Public Service District No. 2
193	S006678	1.25	Preston County Public Service District	1.29	Preston County Public Service District No. 4
194	S101088	2.11	Town of Tunnelton	0.85	Preston County Public Service District No. 2
195	S003982	2.51	Town of Tunnelton	1.35	Denver Water Association
196	S005777	2.49	Town of Reedsville	0.37	Masontown Municipal Water Department
197	S000981	3.50	Preston County Public Service District	1.65	Preston County Public Service District No. 4
198	S000983	3.71	Preston County Public Service District	0.34	Preston County Public Service District No. 4
199	S102887	4.61	Town of Reedsville	0.20	Masontown Municipal Water Department
200	S012774	2.61	Town of Albright (Sewer)	2.43	Town of Albright - Water Works
201	S012776	2.69	Town of Tunnelton	1.53	Preston County Public Service District No. 2

Site No	Permit_ID	SL	Utility (SL)	WL	Utility (WL)
202	S013579	1.95	Preston County Public Service District	0.86	Preston County Public Service District No. 4
203	S017077	2.33	Town of Albright (Sewer)	2.02	Town of Albright - Water Works
204	Z002281	3.05	Preston County Public Service District	0.59	Preston County Public Service District No. 4
205	S013076	1.93	Preston County Public Service District	0.20	Preston County Public Service District No. 4
206	S001876	6.83	Preston County Public Service District	0.58	Preston County Public Service District No. 4
207	S000476	1.49	Preston County Public Service District	0.48	Preston County Public Service District No. 4
208	S104090	1.15	Town of Newburg	0.22	Town of Newburg
209	S003881	3.14	Town of Reedsville	0.35	Masontown Municipal Water Department
210	S003884	2.79	Town of Reedsville	0.23	Masontown Municipal Water Department
211	S023176	2.20	Preston County Public Service District	1.20	Preston County Public Service District No. 4
212	S101686	0.93	City of Kingwood	0.40	Preston County Public Service District No. 2
213	I064100	5.54	Morgantown Utility Board	0.05	Preston County Public Service District No. 4
214	S015774	1.88	City of Kingwood	0.72	City of Kingwood
215	S023776	2.51	Preston County Public Service District	1.89	Preston County Public Service District No. 4
216	S008285	0.62	Town of Albright (Sewer)	0.62	Town of Albright - Water Works
217	S008280	2.69	City of Kingwood	1.87	City of Kingwood
218	S017177	1.72	Town of Tunnelton	0.85	Preston County Public Service District
219	S006284	1.30	City of Kingwood	0.23	Preston County Public Service District No. 2
220	S107386	2.73	Town of Rowlesburg Sanitary Board	2.27	Town of Tunnelton
221	S012280	4.46	City of Thomas	3.39	City of Thomas

Table 7: Shortest Distances from Sites to Broadband (BB) and Power Lines (PL)

Site No	Permit ID	BB	Provider	PL	Type	Size kV
1	S104786	1.80	Frontier West Virginia, Inc.	0.86	Transmission	500
2	S003781	2.69	Citizens Telecommunications Company of West Virginia	0.46	Sub-Transmission	Unknown
3	S108686	2.93	Comcast Cable Communications, LLC	1.83	Transmission	115-138
4	S102687	0.04	Citizens Telecommunications Company of West Virginia	2.40	Transmission	115-138
5	S101887	1.26	Citizens Telecommunications Company of West Virginia	1.59	Transmission	115-138
6	S101888	3.63	Frontier West Virginia, Inc.	0.83	Sub-Transmission	Unknown
7	S103291	2.54	Frontier West Virginia, Inc.	2.03	Transmission	115-138
8	S012976	1.46	Frontier West Virginia, Inc.	0.73	Transmission	115-138
9	S006572	2.26	Citizens Telecommunications Company of West Virginia	0.34	Transmission	115-138
10	S006577	1.32	Citizens Telecommunications Company of West Virginia	2.37	Transmission	115-138
11	S006578	1.94	Citizens Telecommunications Company of West Virginia	0.52	Transmission	115-138
12	S009680	2.44	Citizens Telecommunications Company of West Virginia	1.22	Sub-Transmission	Unknown
13	S009682	2.21	Frontier West Virginia, Inc.	0.99	Transmission	115-138
14	S102987	0.88	Citizens Telecommunications Company of West Virginia	0.11	Transmission	115-138
15	S101987	3.62	Citizens Telecommunications Company of West Virginia	1.48	Transmission	115-138
16	S033171	2.86	Citizens Telecommunications Company of West Virginia	0.15	Transmission	115-138
17	Z004781	0.03	Citizens Telecommunications Company of West Virginia	0.60	Transmission	115-138
18	S011676	0.99	Frontier West Virginia, Inc.	0.12	Transmission	115-138
19	S002075	2.64	Citizens Telecommunications Company of West Virginia	0.33	Transmission	115-138
20	S200901	3.12	Citizens Telecommunications Company of West Virginia	0.17	Transmission	115-138
21	S102389	1.96	Citizens Telecommunications Company of West Virginia	1.23	Transmission	115-138
22	S102386	1.29	Frontier West Virginia, Inc.	1.95	Transmission	115-138
23	S005179	1.41	Frontier West Virginia, Inc.	1.05	Transmission	115-138
24	S017777	3.14	Frontier West Virginia, Inc.	1.16	Transmission	500
25	S001883	1.94	Citizens Telecommunications Company of West Virginia	0.96	Transmission	115-138
26	I046800	1.17	Citizens Telecommunications Company of West Virginia	1.07	Transmission	115-138

Site No	Permit ID	BB	Provider	PL	Type	Size kV
27	S108786	2.58	Frontier West Virginia, Inc.	0.26	Sub-Transmission	Unknown
28	S103788	2.93	Comcast Cable Communications, LLC	2.31	Transmission	115-138
29	S004478	1.23	Citizens Telecommunications Company of West Virginia	0.11	Transmission	115-138
30	S201192	0.65	Citizens Telecommunications Company of West Virginia	1.14	Transmission	115-138
31	S100393	1.35	Frontier West Virginia, Inc.	0.49	Transmission	115-138
32	S004281	1.84	Citizens Telecommunications Company of West Virginia	1.78	Transmission	115-138
33	S001578	1.96	Citizens Telecommunications Company of West Virginia	0.45	Transmission	115-138
34	S001575	1.02	Frontier West Virginia, Inc.	0.09	Transmission	115-138
35	C000985	1.99	Frontier West Virginia, Inc.	0.41	Transmission	115-138
36	S102388	2.25	Citizens Telecommunications Company of West Virginia	0.33	Transmission	115-138
37	S008579	2.75	Citizens Telecommunications Company of West Virginia	2.60	Transmission	115-138
38	S104086	3.15	Comcast Cable Communications, LLC	2.30	Transmission	115-138
39	S103188	1.15	Comcast Cable Communications, LLC	0.54	Transmission	115-138
40	S003377	0.67	Citizens Telecommunications Company of West Virginia	2.15	Transmission	115-138
41	S100293	0.88	Citizens Telecommunications Company of West Virginia	3.05	Transmission	115-138
42	S100298	1.78	Frontier West Virginia, Inc.	1.20	Transmission	115-138
43	S100299	1.93	Citizens Telecommunications Company of West Virginia	0.80	Transmission	115-138
44	S012479	1.47	Citizens Telecommunications Company of West Virginia	2.37	Transmission	115-138
45	S013180	1.68	Citizens Telecommunications Company of West Virginia	0.39	Transmission	115-138
46	S012274	2.75	Frontier West Virginia, Inc.	1.43	Transmission	115-138
47	S011077	0.23	Citizens Telecommunications Company of West Virginia	0.73	Transmission	115-138
48	S001184	1.63	Citizens Telecommunications Company of West Virginia	0.52	Transmission	115-138
49	S001679	1.79	Frontier West Virginia, Inc.	1.08	Transmission	115-138
50	S001676	4.54	Frontier West Virginia, Inc.	0.65	Transmission	500
51	S105886	1.82	Citizens Telecommunications Company of West Virginia	0.78	Transmission	115-138
52	S007179	0.71	Comcast Cable Communications, LLC	0.06	Transmission	115-138
53	S100888	0.72	Citizens Telecommunications Company of West Virginia	0.20	Transmission	115-138
54	S101592	2.18	West Side Telephone Company	0.23	Sub-Transmission	Unknown

Site No	Permit ID	BB	Provider	PL	Type	Size kV
55	S006183	2.29	Frontier West Virginia, Inc.	1.31	Transmission	115-138
56	S006182	2.68	Citizens Telecommunications Company of West Virginia	0.38	Sub-Transmission	Unknown
57	S006184	0.89	Citizens Telecommunications Company of West Virginia	0.07	Transmission	115-138
58	S004181	1.04	Comcast Cable Communications, LLC	0.02	Transmission	115-138
59	S002678	2.84	Citizens Telecommunications Company of West Virginia	2.57	Transmission	115-138
60	S104088	1.46	West Side Telephone Company	0.20	Sub-Transmission	Unknown
61	S003678	4.54	Frontier West Virginia, Inc.	0.57	Transmission	115-138
62	S005784	0.99	Frontier West Virginia, Inc.	1.96	Transmission	500
63	S101691	0.65	Frontier West Virginia, Inc.	0.17	Transmission	115-138
64	S019277	0.33	Citizens Telecommunications Company of West Virginia	2.74	Transmission	115-138
65	S017677	4.19	Frontier West Virginia, Inc.	0.77	Transmission	115-138
66	S100487	2.68	Citizens Telecommunications Company of West Virginia	1.14	Sub-Transmission	Unknown
67	S100489	1.53	Citizens Telecommunications Company of West Virginia	0.15	Transmission	115-138
68	S100488	2.98	Frontier West Virginia, Inc.	1.79	Transmission	115-138
69	S008185	1.04	Citizens Telecommunications Company of West Virginia	0.13	Transmission	115-138
70	S011280	0.46	Comcast Cable Communications, LLC	0.22	Transmission	115-138
71	S004685	0.86	Citizens Telecommunications Company of West Virginia	0.34	Transmission	115-138
72	S005882	2.18	Citizens Telecommunications Company of West Virginia	0.30	Transmission	115-138
73	S022476	3.38	Frontier West Virginia, Inc.	0.76	Transmission	115-138
74	S100687	2.49	Citizens Telecommunications Company of West Virginia	0.18	Transmission	115-138
75	S100688	0.22	Citizens Telecommunications Company of West Virginia	2.38	Transmission	115-138
76	S002881	3.36	Frontier West Virginia, Inc.	0.81	Transmission	115-138
77	S003875	1.61	Citizens Telecommunications Company of West Virginia	0.77	Transmission	115-138
78	S001285	1.13	West Side Telephone Company	0.08	Transmission	115-138
79	S001281	0.58	Citizens Telecommunications Company of West Virginia	2.38	Transmission	115-138
80	C001382	0.93	Citizens Telecommunications Company of West Virginia	0.13	Transmission	115-138
81	S103987	1.31	Citizens Telecommunications Company of West Virginia	1.27	Transmission	115-138
82	S103986	0.64	Citizens Telecommunications Company of West Virginia	2.71	Transmission	115-138

Site No	Permit ID	BB	Provider	PL	Type	Size kV
83	S002577	3.07	Frontier West Virginia, Inc.	1.12	Transmission	115-138
84	S100188	2.09	Citizens Telecommunications Company of West Virginia	1.47	Transmission	115-138
85	S100986	0.42	Citizens Telecommunications Company of West Virginia	2.58	Transmission	115-138
86	S100989	2.20	Citizens Telecommunications Company of West Virginia	0.16	Transmission	115-138
87	S012678	2.75	Citizens Telecommunications Company of West Virginia	0.82	Transmission	115-138
88	S006084	0.35	Citizens Telecommunications Company of West Virginia	2.52	Transmission	115-138
89	S015875	1.89	Citizens Telecommunications Company of West Virginia	1.36	Transmission	115-138
90	S006582	2.01	Citizens Telecommunications Company of West Virginia	0.10	Transmission	115-138
91	S011982	2.06	Citizens Telecommunications Company of West Virginia	1.27	Transmission	115-138
92	S007183	2.04	Citizens Telecommunications Company of West Virginia	1.31	Transmission	115-138
93	S104188	1.74	Citizens Telecommunications Company of West Virginia	1.51	Transmission	115-138
94	S001174	4.22	Frontier West Virginia, Inc.	0.12	Transmission	115-138
95	S104487	0.61	Frontier West Virginia, Inc.	2.85	Transmission	500
96	S005480	1.92	Citizens Telecommunications Company of West Virginia	0.55	Transmission	115-138
97	S003083	2.01	Citizens Telecommunications Company of West Virginia	1.58	Transmission	115-138
98	S017976	0.87	Frontier West Virginia, Inc.	0.46	Transmission	115-138
99	S009184	0.99	Citizens Telecommunications Company of West Virginia	0.17	Sub-Transmission	Unknown
100	S009185	1.42	Citizens Telecommunications Company of West Virginia	1.50	Transmission	115-138
101	S103389	1.22	Citizens Telecommunications Company of West Virginia	1.17	Transmission	115-138
102	S017476	2.15	Citizens Telecommunications Company of West Virginia	0.07	Transmission	115-138
103	Z008881	1.04	Citizens Telecommunications Company of West Virginia	2.04	Transmission	115-138
104	S007582	1.00	Citizens Telecommunications Company of West Virginia	0.43	Sub-Transmission	Unknown
105	S103286	1.12	Citizens Telecommunications Company of West Virginia	0.40	Transmission	115-138
106	S102489	1.01	Citizens Telecommunications Company of West Virginia	0.18	Transmission	115-138
107	S102488	1.59	Citizens Telecommunications Company of West Virginia	0.36	Transmission	115-138

Site No	Permit ID	BB	Provider	PL	Type	Size kV
108	S103687	2.62	Citizens Telecommunications Company of West Virginia	1.92	Transmission	115-138
109	S100496	1.84	Citizens Telecommunications Company of West Virginia	0.49	Transmission	115-138
110	S001483	3.41	Frontier West Virginia, Inc.	1.35	Transmission	115-138
111	S001482	1.33	Frontier West Virginia, Inc.	0.91	Transmission	115-138
112	S001485	0.66	Comcast Cable Communications, LLC	0.18	Transmission	115-138
113	S009369	1.14	Citizens Telecommunications Company of West Virginia	0.87	Transmission	115-138
114	S101389	1.35	Frontier West Virginia, Inc.	0.49	Transmission	115-138
115	S101388	1.16	Citizens Telecommunications Company of West Virginia	0.48	Transmission	115-138
116	S005378	2.16	Frontier West Virginia, Inc.	1.04	Transmission	115-138
117	S005085	3.37	Comcast Cable Communications, LLC	2.22	Transmission	115-138
118	S013278	0.31	Citizens Telecommunications Company of West Virginia	0.83	Transmission	115-138
119	S013273	2.60	Comcast Cable Communications, LLC	1.34	Transmission	115-138
120	Z000781	2.27	Citizens Telecommunications Company of West Virginia	0.93	Transmission	115-138
121	Z001781	1.42	Citizens Telecommunications Company of West Virginia	1.94	Transmission	115-138
122	S101986	1.76	Citizens Telecommunications Company of West Virginia	0.66	Transmission	115-138
123	S005278	3.66	Frontier West Virginia, Inc.	0.46	Transmission	115-138
124	S014879	2.40	Citizens Telecommunications Company of West Virginia	0.03	Transmission	115-138
125	S002685	2.60	Citizens Telecommunications Company of West Virginia	0.47	Sub-Transmission	Unknown
126	Z004081	1.14	Citizens Telecommunications Company of West Virginia	1.42	Transmission	115-138
127	S105386	1.73	Citizens Telecommunications Company of West Virginia	1.37	Transmission	115-138
128	S000381	1.73	Citizens Telecommunications Company of West Virginia	0.81	Transmission	115-138
129	S000380	0.15	Citizens Telecommunications Company of West Virginia	1.64	Transmission	115-138
130	S100389	3.35	Citizens Telecommunications Company of West Virginia	1.26	Transmission	115-138
131	S007383	1.66	Citizens Telecommunications Company of West Virginia	2.64	Transmission	115-138
132	S008879	2.46	Frontier West Virginia, Inc.	0.31	Transmission	115-138
133	S018875	1.68	Citizens Telecommunications Company of West Virginia	2.03	Transmission	115-138
134	S103086	1.85	Citizens Telecommunications Company of West Virginia	0.41	Transmission	115-138

Site No	Permit ID	BB	Provider	PL	Type	Size kV
135	S106786	0.20	Frontier West Virginia, Inc.	0.81	Transmission	115-138
136	S103487	0.73	Citizens Telecommunications Company of West Virginia	1.83	Transmission	115-138
137	S106191	2.42	West Side Telephone Company	0.10	Transmission	115-138
138	S010775	3.06	Frontier West Virginia, Inc.	0.96	Transmission	115-138
139	S106386	2.16	Frontier West Virginia, Inc.	0.01	Transmission	115-138
140	C000184	0.16	Citizens Telecommunications Company of West Virginia	2.71	Transmission	115-138
141	S007078	1.47	Citizens Telecommunications Company of West Virginia	2.03	Transmission	115-138
142	S004679	1.97	Frontier West Virginia, Inc.	0.19	Transmission	115-138
143	S002383	1.37	Frontier West Virginia, Inc.	0.22	Transmission	115-138
144	I063600	3.99	Frontier West Virginia, Inc.	0.20	Transmission	115-138
145	Z000581	2.58	Citizens Telecommunications Company of West Virginia	0.46	Transmission	115-138
146	S007574	1.61	Citizens Telecommunications Company of West Virginia	0.25	Transmission	115-138
147	S007579	1.81	Frontier West Virginia, Inc.	1.44	Transmission	115-138
148	Z002481	1.32	Citizens Telecommunications Company of West Virginia	0.34	Transmission	115-138
149	S004073	2.19	Citizens Telecommunications Company of West Virginia	2.29	Transmission	115-138
150	S003385	1.67	Citizens Telecommunications Company of West Virginia	1.01	Transmission	115-138
151	S104286	2.06	Citizens Telecommunications Company of West Virginia	0.69	Transmission	115-138
152	S103889	0.99	Frontier West Virginia, Inc.	0.45	Transmission	115-138
153	S103887	1.25	Citizens Telecommunications Company of West Virginia	1.81	Transmission	115-138
154	S002783	0.33	Citizens Telecommunications Company of West Virginia	2.15	Transmission	115-138
155	S010282	3.08	Citizens Telecommunications Company of West Virginia	0.67	Transmission	115-138
156	S012282	1.38	Citizens Telecommunications Company of West Virginia	0.48	Transmission	115-138
157	S003685	1.17	Frontier West Virginia, Inc.	0.31	Transmission	115-138
158	S003684	2.68	Citizens Telecommunications Company of West Virginia	1.02	Transmission	115-138
159	S101488	1.37	Comcast Cable Communications, LLC	4.69	Sub-Transmission	Unknown
160	S101487	2.72	Comcast Cable Communications, LLC	2.01	Transmission	115-138
161	S003579	1.14	Citizens Telecommunications Company of West Virginia	1.43	Transmission	115-138
162	S003574	1.32	Citizens Telecommunications Company of West Virginia	0.30	Transmission	115-138

Site No	Permit ID	BB	Provider	PL	Type	Size kV
163	S010377	1.24	Frontier West Virginia, Inc.	0.87	Transmission	115-138
164	S010375	0.08	Citizens Telecommunications Company of West Virginia	0.88	Transmission	115-138
165	S015775	1.71	Citizens Telecommunications Company of West Virginia	0.36	Transmission	115-138
166	S015776	4.77	Citizens Telecommunications Company of West Virginia	2.20	Transmission	115-138
167	S006079	3.74	Citizens Telecommunications Company of West Virginia	0.91	Transmission	115-138
168	S103691	2.45	Frontier West Virginia, Inc.	1.53	Transmission	115-138
169	S004481	2.25	Frontier West Virginia, Inc.	0.58	Transmission	115-138
170	S005283	2.22	Frontier West Virginia, Inc.	0.45	Transmission	115-138
171	S005285	2.83	Citizens Telecommunications Company of West Virginia	0.01	Transmission	115-138
172	S005284	1.29	Comcast Cable Communications, LLC	4.90	Transmission	115-138
173	S021575	3.50	Citizens Telecommunications Company of West Virginia	0.82	Transmission	115-138
174	S031571	2.24	Frontier West Virginia, Inc.	0.72	Transmission	115-138
175	S025474	2.61	Citizens Telecommunications Company of West Virginia	0.65	Transmission	115-138
176	S102587	0.19	Frontier West Virginia, Inc.	0.89	Transmission	115-138
177	S103191	1.70	Citizens Telecommunications Company of West Virginia	0.19	Transmission	115-138
178	S021173	1.97	Citizens Telecommunications Company of West Virginia	1.05	Transmission	115-138
179	S101588	1.38	Citizens Telecommunications Company of West Virginia	0.46	Transmission	115-138
180	S024674	2.19	Citizens Telecommunications Company of West Virginia	2.29	Transmission	115-138
181	S008482	2.35	West Side Telephone Company	0.10	Transmission	115-138
182	S009375	1.93	Citizens Telecommunications Company of West Virginia	0.66	Transmission	115-138
183	S103586	1.91	Citizens Telecommunications Company of West Virginia	2.39	Transmission	115-138
184	S100595	3.10	Citizens Telecommunications Company of West Virginia	0.75	Transmission	115-138
185	S100590	1.72	Comcast Cable Communications, LLC	0.54	Transmission	115-138
186	S010980	4.54	Frontier West Virginia, Inc.	0.65	Transmission	500
187	S011277	2.34	Citizens Telecommunications Company of West Virginia	0.81	Transmission	115-138
188	S010582	2.17	Citizens Telecommunications Company of West Virginia	0.26	Transmission	115-138
189	S004984	3.40	Frontier West Virginia, Inc.	1.60	Transmission	115-138
190	S100197	3.20	Frontier West Virginia, Inc.	1.51	Transmission	115-138

Site No	Permit ID	BB	Provider	PL	Type	Size kV
191	S102286	2.47	West Side Telephone Company	0.23	Transmission	115-138
192	S102288	2.54	Frontier West Virginia, Inc.	1.61	Transmission	115-138
193	S006678	2.31	Citizens Telecommunications Company of West Virginia	0.33	Transmission	115-138
194	S101088	3.50	Frontier West Virginia, Inc.	0.50	Transmission	115-138
195	S003982	2.13	Frontier West Virginia, Inc.	0.43	Transmission	115-138
196	S005777	0.95	Citizens Telecommunications Company of West Virginia	1.37	Transmission	115-138
197	S000981	2.49	Citizens Telecommunications Company of West Virginia	0.38	Transmission	115-138
198	S000983	1.81	Citizens Telecommunications Company of West Virginia	0.22	Transmission	115-138
199	S102887	0.99	Comcast Cable Communications, LLC	0.13	Transmission	115-138
200	S012774	3.95	Frontier West Virginia, Inc.	0.64	Transmission	115-138
201	S012776	1.67	Frontier West Virginia, Inc.	0.54	Transmission	115-138
202	S013579	0.60	Citizens Telecommunications Company of West Virginia	0.52	Transmission	115-138
203	S017077	2.03	Citizens Telecommunications Company of West Virginia	0.10	Transmission	115-138
204	Z002281	0.32	Citizens Telecommunications Company of West Virginia	1.66	Transmission	115-138
205	S013076	0.29	Citizens Telecommunications Company of West Virginia	2.35	Transmission	115-138
206	S001876	0.28	Citizens Telecommunications Company of West Virginia	1.10	Transmission	115-138
207	S000476	0.23	Citizens Telecommunications Company of West Virginia	0.73	Transmission	115-138
208	S104090	2.24	Frontier West Virginia, Inc.	0.72	Transmission	115-138
209	S003881	1.59	Citizens Telecommunications Company of West Virginia	1.24	Transmission	115-138
210	S003884	1.62	Citizens Telecommunications Company of West Virginia	1.09	Transmission	115-138
211	S023176	2.44	Citizens Telecommunications Company of West Virginia	0.90	Transmission	115-138
212	S101686	3.12	Citizens Telecommunications Company of West Virginia	0.03	Sub-Transmission	Unknown
213	I064100	3.37	Citizens Telecommunications Company of West Virginia	0.96	Transmission	115-138
214	S015774	3.89	Frontier West Virginia, Inc.	0.49	Transmission	115-138
215	S023776	1.76	Citizens Telecommunications Company of West Virginia	0.50	Transmission	115-138
216	S008285	2.26	Frontier West Virginia, Inc.	0.05	Transmission	115-138
217	S008280	1.60	Frontier West Virginia, Inc.	1.25	Transmission	115-138
218	S017177	2.56	Frontier West Virginia, Inc.	1.26	Transmission	115-138

Site No	Permit ID	BB	Provider	PL	Type	Size kV
219	S006284	3.28	Citizens Telecommunications Company of West Virginia	0.19	Sub-Transmission	Unknown
220	S107386	1.28	Frontier West Virginia, Inc.	1.39	Transmission	500
221	S012280	1.51	Citizens Telecommunications Company of West Virginia	0.26	Transmission	115-138

Table 8: Shortest Distances from Sites to Sewer (SW) and Solid Waste (SD) Treatment Facilities

Site No	Permit ID	SW	Facility (SW)	SD	Facility (SD)
1	S104786	3.90	Town of Tunnelton	5.39	Charlie Pase (monofill)
2	S003781	1.27	VILLANOVA VILLAGE	2.36	City of Kingwood
3	S108686	4.11	Coopers Rock State Pk	10.42	Suburban Sanitation
4	S102687	4.38	LIGHT MOBILE HOME PARK	3.87	Kingwood, City of
5	S101887	2.09	WINDY HILL MANOR	2.50	Kingwood, City of
6	S101888	2.77	SHUMAN'S TRAILER PARK	5.49	Charlie Pase (monofill)
7	S103291	3.11	Kingwood Water Works	3.23	City of Kingwood
8	S012976	2.45	NEWBURG TOWN OF	8.87	Charlie Pase (monofill)
9	S006572	7.45	Preston High School-Wrestling Center	6.89	Big Bear
10	S006577	3.96	PLUM HILL TERRACE APTS.	6.21	Kingwood, City of
11	S006578	6.33	BRUCETON/BRANDONVILLE PSD	8.49	Kingwood, City of
12	S009680	1.60	Valley Elementary School	2.05	Preston (Rehe)
13	S009682	3.97	Town of Tunnelton	2.38	Charlie Pase (monofill)
14	S102987	1.18	WINDY HILL MANOR	3.81	Preston (Rehe)
15	S101987	3.99	Coopers Rock State Pk	10.30	Suburban Sanitation
16	S033171	2.24	Belgian Estates	8.28	Big Bear
17	Z004781	3.41	BRUCETON/BRANDONVILLE PSD	12.41	Big Bear
18	S011676	3.72	TERRA ALTA TOWN OF	12.06	City of Kingwood
19	S002075	7.64	Preston High School-Wrestling Center	6.76	Big Bear
20	S200901	6.57	Preston High School-Wrestling Center	6.29	Kingwood, City of
21	S102389	6.38	BRUCETON/BRANDONVILLE PSD	12.35	Big Bear
22	S102386	4.70	TERRA ALTA TOWN OF	13.04	City of Kingwood
23	S005179	3.73	NEWBURG TOWN OF	4.30	Charlie Pase (monofill)
24	S017777	3.20	NEWBURG TOWN OF	8.93	Charlie Pase (monofill)
25	S001883	4.28	Outlet 003	3.99	Big Bear
26	I046800	1.49		1.92	Preston (Rehe)
27	S108786	3.52	Town of Tunnelton	4.53	Charlie Pase (monofill)
28	S103788	6.23	Coopers Rock State Pk	12.54	Suburban Sanitation
29	S004478	6.69	BRUCETON/BRANDONVILLE PSD	6.56	Big Bear
30	S201192	4.53	Thomas Water Treatment Plant	6.98	Tucker Co. Landfill
31	S100393	4.11	Preston High School-Wrestling Center	3.84	Kingwood, City of
32	S004281	4.08	PLUM HILL TERRACE APTS.	6.51	Kingwood, City of
33	S001578	7.67	BRUCETON/BRANDONVILLE PSD	8.16	Kingwood, City of
34	S001575	3.71	TERRA ALTA TOWN OF	12.05	City of Kingwood
35	C000985	1.21	VILLANOVA VILLAGE	3.44	Kingwood, City of
36	S102388	5.42	WINDY HILL MANOR	3.91	Charlie Pase (monofill)
37	S008579	7.04	PLUM HILL TERRACE APTS.	10.11	Preston (Rehe)

Site No	Permit ID	SW	Facility (SW)	SD	Facility (SD)
38	S104086	4.65	Coopers Rock State Pk	10.96	Suburban Sanitation
39	S103188	5.30	PLUM HILL TERRACE APTS.	8.36	Preston (Rehe)
40	S003377	4.12	BRUCETON/BRANDONVILLE PSD	8.53	Big Bear
41	S100293	1.39	MAJESTIC ACRES	4.17	Preston (Rehe)
42	S100298	4.63	Town of Tunnelton	3.05	Charlie Pase (monofill)
43	S100299	7.31	Preston High School-Wrestling Center	7.03	Kingwood, City of
44	S012479	3.95	PLUM HILL TERRACE APTS.	6.38	Kingwood, City of
45	S013180	1.47	WINDY HILL MANOR	3.65	City of Kingwood
46	S012274	2.65	NEWBURG TOWN OF	8.37	Charlie Pase (monofill)
47	S011077	5.55	BRUCETON/BRANDONVILLE PSD	6.00	Big Bear
48	S001184	1.24	WINDY HILL MANOR	4.25	City of Kingwood
49	S001679	2.87	TERRA ALTA TOWN OF	11.20	City of Kingwood
50	S001676	2.18	SHUMAN'S TRAILER PARK	8.59	Charlie Pase (monofill)
51	S105886	1.81	WINDY HILL MANOR	3.96	Preston (Rehe)
52	S007179	5.71	Sunshine Estates Homeowners Association	9.55	Preston (Rehe)
53	S100888	5.36	BRUCETON/BRANDONVILLE PSD	5.23	Big Bear
54	S101592	1.44		4.06	Preston (Rehe)
55	S006183	1.74	NEWBURG TOWN OF	7.46	Charlie Pase (monofill)
56	S006182	2.26	VILLONOVA VILLAGE	3.14	City of Kingwood
57	S006184	2.93	BRUCETON/BRANDONVILLE PSD	10.66	Big Bear
58	S004181	6.39	Sunshine Estates Homeowners Association	10.23	Preston (Rehe)
59	S002678	7.14	PLUM HILL TERRACE APTS.	10.21	Preston (Rehe)
60	S104088	1.60	PLUM HILL TERRACE APTS.	4.66	Preston (Rehe)
61	S003678	2.02	Town of Tunnelton	1.87	Charlie Pase (monofill)
62	S005784	3.77	ETAM SATELLITE EARTH STATION	10.94	Charlie Pase (monofill)
63	S101691	3.47	NEWBURG TOWN OF	6.82	Preston (Rehe)
64	S019277	4.41	PLUM HILL TERRACE APTS.	5.17	Kingwood, City of
65	S017677	7.16	CAMP DAWSON	6.90	Big Bear
66	S100487	1.09		2.99	Preston (Rehe)
67	S100489	1.89	PLUM HILL TERRACE APTS.	3.71	Preston (Rehe)
68	S100488	2.91	Coopers Rock State Pk	9.22	Suburban Sanitation
69	S008185	3.18	MAJESTIC ACRES	4.77	Preston (Rehe)
70	S011280	5.38	Sunshine Estates Homeowners Association	9.21	Preston (Rehe)
71	S004685	1.80	WINDY HILL MANOR	3.57	Preston (Rehe)
72	S005882	6.39	BRUCETON/BRANDONVILLE PSD	8.29	Kingwood, City of
73	S022476	3.98	Town of Tunnelton	1.68	Charlie Pase (monofill)
74	S100687	5.10	BRUCETON/BRANDONVILLE PSD	11.67	Suburban Sanitation
75	S100688	3.05	LIGHT MOBILE HOME PARK	3.52	Kingwood, City of
76	S002881	3.88	Town of Tunnelton	1.58	Charlie Pase (monofill)

Site No	Permit ID	SW	Facility (SW)	SD	Facility (SD)
77	S003875	1.07	VILLONOVA VILLAGE	4.05	Kingwood, City of
78	S001285	2.09	PLUM HILL TERRACE APTS.	5.15	Preston (Rehe)
79	S001281	3.81	BRUCETON/BRANDONVILLE PSD	8.98	Big Bear
80	C001382	1.84	WINDY HILL MANOR	3.41	Preston (Rehe)
81	S103987	2.40	BRUCETON/BRANDONVILLE PSD	7.75	Big Bear
82	S103986	1.61	Outlet 003	5.47	Big Bear
83	S002577	4.13	Town of Tunnelton	1.83	Charlie Pase (monofill)
84	S100188	6.91	BRUCETON/BRANDONVILLE PSD	12.14	Preston (Rehe)
85	S100986	3.84	PLUM HILL TERRACE APTS.	5.37	Kingwood, City of
86	S100989	7.61	Preston High School-Wrestling Center	7.08	Big Bear
87	S012678	7.87	Preston High School-Wrestling Center	7.60	Kingwood, City of
88	S006084	2.38	Outlet 003	6.97	Big Bear
89	S015875	2.82	Outlet 003	5.10	Big Bear
90	S006582	8.12	Preston High School-Wrestling Center	7.85	Kingwood, City of
91	S011982	3.46	MAJESTIC ACRES	5.05	Preston (Rehe)
92	S007183	3.18	Belgian Estates	6.79	Big Bear
93	S104188	2.83	Outlet 003	5.11	Big Bear
94	S001174	2.81	Town of Tunnelton	1.13	Charlie Pase (monofill)
95	S104487	3.28	ETAM SATELLITE EARTH STATION	10.65	Charlie Pase (monofill)
96	S005480	2.32	WINDY HILL MANOR	5.15	Preston (Rehe)
97	S003083	3.66	Outlet 003	3.72	Big Bear
98	S017976	2.58	NEWBURG TOWN OF	4.15	Charlie Pase (monofill)
99	S009184	2.21	WINDY HILL MANOR	3.98	Preston (Rehe)
100	S009185	6.01	BRUCETON/BRANDONVILLE PSD	7.59	Kingwood, City of
101	S103389	1.34	WINDY HILL MANOR	3.18	Kingwood, City of
102	S017476	2.05	WINDY HILL MANOR	3.18	City of Kingwood
103	Z008881	5.35	GLADE FARMS CAMPGROUND	13.33	Big Bear
104	S007582	1.94	WINDY HILL MANOR	3.71	Preston (Rehe)
105	S103286	0.77	WINDY HILL MANOR	4.21	Preston (Rehe)
106	S102489	1.85		2.93	Preston (Rehe)
107	S102488	6.06	Preston High School-Wrestling Center	5.79	Kingwood, City of
108	S103687	4.48	PLUM HILL TERRACE APTS.	7.54	Preston (Rehe)
109	S100496	2.08	PLUM HILL TERRACE APTS.	5.14	Preston (Rehe)
110	S001483	2.08	CAMP DAWSON	5.54	City of Kingwood
111	S001482	3.52	CAMP DAWSON	5.29	City of Kingwood
112	S001485	5.25	PLUM HILL TERRACE APTS.	8.31	Preston (Rehe)
113	S009369	5.39	BRUCETON/BRANDONVILLE PSD	8.85	Big Bear
114	S101389	4.11	Preston High School-Wrestling Center	3.84	Kingwood, City of
115	S101388	1.44		2.99	Preston (Rehe)

Site No	Permit ID	SW	Facility (SW)	SD	Facility (SD)
116	S005378	2.07	NEWBURG TOWN OF	7.79	Charlie Pase (monofill)
117	S005085	4.01	Coopers Rock State Pk	10.32	Suburban Sanitation
118	S013278	5.13	BRUCETON/BRANDONVILLE PSD	5.58	Big Bear
119	S013273	4.53	Coopers Rock State Pk	10.84	Suburban Sanitation
120	Z000781	5.52	BRUCETON/BRANDONVILLE PSD	5.29	Big Bear
121	Z001781	3.78	PLUM HILL TERRACE APTS.	6.20	Kingwood, City of
122	S101986	5.61	Outlet 003	5.24	Big Bear
123	S005278	3.26	Town of Tunnelton	0.96	Charlie Pase (monofill)
124	S014879	3.81	BRUCETON/BRANDONVILLE PSD	6.48	Big Bear
125	S002685	2.48	VILLANOVA VILLAGE	3.36	City of Kingwood
126	Z004081	1.55	WINDY HILL MANOR	2.96	Kingwood, City of
127	S105386	6.27	BRUCETON/BRANDONVILLE PSD	7.23	Kingwood, City of
128	S000381	5.03	Outlet 003	4.66	Big Bear
129	S000380	5.07	BRUCETON/BRANDONVILLE PSD	7.21	Big Bear
130	S100389	0.97	GLADE FARMS CAMPGROUND	10.85	Big Bear
131	S007383	6.98	PLUM HILL TERRACE APTS.	10.04	Preston (Rehe)
132	S008879	3.68	NEWBURG TOWN OF	9.40	Charlie Pase (monofill)
133	S018875	4.06	PLUM HILL TERRACE APTS.	6.49	Kingwood, City of
134	S103086	2.61	Belgian Estates	9.91	Big Bear
135	S106786	3.15	TERRA ALTA TOWN OF	11.49	City of Kingwood
136	S103487	4.04	Preston High School-Wrestling Center	0.97	Kingwood, City of
137	S106191	1.26	PLUM HILL TERRACE APTS.	4.33	Preston (Rehe)
138	S010775	1.92	Town of Tunnelton	3.17	City of Kingwood
139	S106386	0.36	VILLANOVA VILLAGE	3.13	Kingwood, City of
140	C000184	4.19	LIGHT MOBILE HOME PARK	4.67	Kingwood, City of
141	S007078	5.52	TERRA ALTA TOWN OF	14.33	City of Kingwood
142	S004679	2.86	CAMP DAWSON	3.42	City of Kingwood
143	S002383	2.79	NEWBURG TOWN OF	5.98	Charlie Pase (monofill)
144	I063600	7.08	CAMP DAWSON	7.15	Big Bear
145	Z000581	3.31	Belgian Estates	8.17	Big Bear
146	S007574	7.49	BRUCETON/BRANDONVILLE PSD	9.78	Kingwood, City of
147	S007579	3.02	CAMP DAWSON	4.80	City of Kingwood
148	Z002481	4.37	Outlet 003	4.08	Big Bear
149	S004073	6.56	PLUM HILL TERRACE APTS.	9.63	Preston (Rehe)
150	S003385	3.90	NEWBURG TOWN OF	4.33	Charlie Pase (monofill)
151	S104286	5.99	Outlet 003	5.63	Big Bear
152	S103889	1.12	NEWBURG TOWN OF	7.40	Charlie Pase (monofill)
153	S103887	5.32	TERRA ALTA TOWN OF	14.14	City of Kingwood
154	S002783	4.18	BRUCETON/BRANDONVILLE PSD	7.93	Big Bear

Site No	Permit ID	SW	Facility (SW)	SD	Facility (SD)
155	S010282	3.74	Coopers Rock State Pk	10.05	Suburban Sanitation
156	S012282	6.86	BRUCETON/BRANDONVILLE PSD	6.73	Big Bear
157	S003685	2.00	NEWBURG TOWN OF	6.21	Charlie Pase (monofill)
158	S003684	3.14	WINDY HILL MANOR	5.29	Preston (Rehe)
159	S101488	2.17	MARION MEADOWS SUBDIVISION	5.94	Preston (Rehe)
160	S101487	5.12	Coopers Rock State Pk	11.43	Suburban Sanitation
161	S003579	2.99	I-68 WELCOME CENTER	7.88	Big Bear
162	S003574	4.77	Outlet 003	4.48	Big Bear
163	S010377	3.52	NEWBURG TOWN OF	3.19	Charlie Pase (monofill)
164	S010375	5.64	BRUCETON/BRANDONVILLE PSD	6.08	Big Bear
165	S015775	1.52	WINDY HILL MANOR	3.70	City of Kingwood
166	S015776	1.93	GLADE FARMS CAMPGROUND	10.93	Big Bear
167	S006079	2.12	I-68 WELCOME CENTER	11.03	Big Bear
168	S103691	1.62	NEWBURG TOWN OF	7.35	Charlie Pase (monofill)
169	S004481	3.02	NEWBURG TOWN OF	8.74	Charlie Pase (monofill)
170	S005283	4.07	Town of Tunnelton	2.49	Charlie Pase (monofill)
171	S005285	2.46	Belgian Estates	8.55	Big Bear
172	S005284	1.74	MARION MEADOWS SUBDIVISION	6.66	Preston (Rehe)
173	S021575	1.93	Belgian Estates	9.88	Big Bear
174	S031571	2.65	NEWBURG TOWN OF	8.37	Charlie Pase (monofill)
175	S025474	7.94	Preston High School-Wrestling Center	7.66	Kingwood, City of
176	S102587	2.82	NEWBURG TOWN OF	5.23	Charlie Pase (monofill)
177	S103191	1.85	PLUM HILL TERRACE APTS.	3.92	Preston (Rehe)
178	S021173	4.21	Outlet 003	3.84	Big Bear
179	S101588	5.94	BRUCETON/BRANDONVILLE PSD	5.81	Big Bear
180	S024674	6.56	PLUM HILL TERRACE APTS.	9.63	Preston (Rehe)
181	S008482	1.37	PLUM HILL TERRACE APTS.	4.44	Preston (Rehe)
182	S009375	3.93	I-68 WELCOME CENTER	8.82	Big Bear
183	S103586	4.61	PLUM HILL TERRACE APTS.	7.04	Kingwood, City of
184	S100595	4.66	Coopers Rock State Pk	10.97	Suburban Sanitation
185	S100590	4.46	PLUM HILL TERRACE APTS.	7.52	Preston (Rehe)
186	S010980	2.18	SHUMAN'S TRAILER PARK	8.59	Charlie Pase (monofill)
187	S011277	2.50	WINDY HILL MANOR	5.32	Preston (Rehe)
188	S010582	6.31	BRUCETON/BRANDONVILLE PSD	8.45	Kingwood, City of
189	S004984	3.54	Coopers Rock State Pk	9.84	Suburban Sanitation
190	S100197	2.39	CAMP DAWSON	5.76	City of Kingwood
191	S102286	1.48	PLUM HILL TERRACE APTS.	4.54	Preston (Rehe)
192	S102288	5.04	MAJESTIC ACRES	3.58	Charlie Pase (monofill)
193	S006678	6.84	BRUCETON/BRANDONVILLE PSD	7.80	Kingwood, City of

Site No	Permit ID	SW	Facility (SW)	SD	Facility (SD)
194	S101088	1.66	Town of Tunnelton	2.80	City of Kingwood
195	S003982	3.46	NEWBURG TOWN OF	4.94	Charlie Pase (monofill)
196	S005777	3.26	PLUM HILL TERRACE APTS.	5.00	Preston (Rehe)
197	S000981	2.93	BRUCETON/BRANDONVILLE PSD	7.13	Big Bear
198	S000983	1.87	Belgian Estates	9.17	Big Bear
199	S102887	4.85	PLUM HILL TERRACE APTS.	7.91	Preston (Rehe)
200	S012774	6.70	CAMP DAWSON	6.75	Kingwood, City of
201	S012776	3.54	NEWBURG TOWN OF	2.90	Charlie Pase (monofill)
202	S013579	4.93	BRUCETON/BRANDONVILLE PSD	5.38	Big Bear
203	S017077	6.49	Preston High School-Wrestling Center	6.22	Kingwood, City of
204	Z002281	2.83	BRUCETON/BRANDONVILLE PSD	6.83	Big Bear
205	S013076	3.69	BRUCETON/BRANDONVILLE PSD	8.73	Big Bear
206	S001876	2.40	BRUCETON/BRANDONVILLE PSD	11.40	Big Bear
207	S000476	5.55	BRUCETON/BRANDONVILLE PSD	6.00	Big Bear
208	S104090	2.65	NEWBURG TOWN OF	8.37	Charlie Pase (monofill)
209	S003881	2.63	PLUM HILL TERRACE APTS.	5.69	Preston (Rehe)
210	S003884	2.35	PLUM HILL TERRACE APTS.	4.95	Preston (Rehe)
211	S023176	3.04	Belgian Estates	6.76	Big Bear
212	S101686	1.41	VILLONOVA VILLAGE	2.29	City of Kingwood
213	I064100	4.15	Coopers Rock State Pk	10.46	Suburban Sanitation
214	S015774	1.81	Kingwood Water Works	1.93	City of Kingwood
215	S023776	7.12	BRUCETON/BRANDONVILLE PSD	10.01	Kingwood, City of
216	S008285	4.03	CAMP DAWSON	4.09	Kingwood, City of
217	S008280	3.49	CAMP DAWSON	5.26	City of Kingwood
218	S017177	1.74	Town of Tunnelton	4.78	City of Kingwood
219	S006284	2.38	Preston High School-Wrestling Center	2.78	City of Kingwood
220	S107386	4.87	ALBRIGHT TOWN OF	8.89	Charlie Pase (monofill)
221	S012280	5.44	Thomas Water Treatment Plant	7.89	Tucker Co. Landfill

Table 9: Shortest Distances from Sites to Gas Pipe (GP) and Oil Pipe (OP)

Site No	Permit ID	GP	Company (GP)	OP	Company (OP)
1	S104786	1.54	Hope Gas, Inc.	0.11	Unknown
2	S003781	5.63	Hope Gas, Inc.	1.20	Unknown
3	S108686	2.50	Columbia Gas Transmission Corp.	2.55	Unknown
4	S102687	3.59	Columbia Gas Transmission Corp.	2.95	Unknown
5	S101887	5.57	Columbia Gas Transmission Corp.	0.58	Unknown
6	S101888	0.06	Hope Gas, Inc.	0.93	CN
7	S103291	3.25	Columbia Gas Transmission Corp.	1.31	CN
8	S012976	1.94	Hope Gas, Inc.	3.90	CN
9	S006572	0.25	Columbia Gas Transmission Corp.	0.19	CL
10	S006577	4.37	Columbia Gas Transmission Corp.	1.51	Unknown
11	S006578	0.62	Columbia Gas Transmission Corp.	0.66	CL
12	S009680	5.24	Hope Gas, Inc.	2.74	CN
13	S009682	0.67	Hope Gas, Inc.	0.70	CN
14	S102987	6.14	Hope Gas, Inc.	2.46	Unknown
15	S101987	1.32	Columbia Gas Transmission Corp.	1.37	CL
16	S033171	6.65	Columbia Gas Transmission Corp.	4.34	Unknown
17	Z004781	3.17	Columbia Gas Transmission Corp.	2.69	Unknown
18	S011676	0.30	Columbia Gas Transmission Corp.	0.39	CL
19	S002075	0.24	Columbia Gas Transmission Corp.	0.18	CL
20	S200901	0.24	Columbia Gas Transmission Corp.	0.18	CL
21	S102389	1.40	Columbia Gas Transmission Corp.	1.45	CL
22	S102386	1.20	Columbia Gas Transmission Corp.	1.14	CL
23	S005179	1.36	Hope Gas, Inc.	0.51	CN
24	S017777	3.98	Hope Gas, Inc.	4.47	CN
25	S001883	4.20	Columbia Gas Transmission Corp.	4.17	CL
26	I046800	7.61	Hope Gas, Inc.	1.86	Unknown
27	S108786	0.87	Hope Gas, Inc.	0.35	CN
28	S103788	2.81	Columbia Gas Transmission Corp.	2.05	Unknown
29	S004478	1.57	Columbia Gas Transmission Corp.	1.53	CL
30	S201192	0.74	Columbia Gas Transmission Corp.	0.81	CL
31	S100393	2.17	Columbia Gas Transmission Corp.	2.21	CL
32	S004281	4.64	Columbia Gas Transmission Corp.	0.85	Unknown
33	S001578	1.55	Columbia Gas Transmission Corp.	1.59	CL
34	S001575	0.27	Columbia Gas Transmission Corp.	0.36	CL
35	C000985	5.60	Columbia Gas Transmission Corp.	0.23	Unknown
36	S102388	3.07	Hope Gas, Inc.	0.63	CN
37	S008579	3.05	Columbia Gas Transmission Corp.	2.11	Unknown

Site No	Permit ID	GP	Company (GP)	OP	Company (OP)
38	S104086	2.26	Columbia Gas Transmission Corp.	2.30	CL
39	S103188	4.44	Columbia Gas Transmission Corp.	0.31	Unknown
40	S003377	1.21	Columbia Gas Transmission Corp.	1.17	CL
41	S100293	3.77	Hope Gas, Inc.	1.74	CN
42	S100298	0.78	Hope Gas, Inc.	0.22	CN
43	S100299	0.09	Columbia Gas Transmission Corp.	0.06	CL
44	S012479	4.28	Columbia Gas Transmission Corp.	1.46	Unknown
45	S013180	5.53	Hope Gas, Inc.	1.59	Unknown
46	S012274	3.53	Hope Gas, Inc.	3.95	CN
47	S011077	2.15	Columbia Gas Transmission Corp.	2.11	CL
48	S001184	5.40	Hope Gas, Inc.	1.98	Unknown
49	S001679	1.11	Columbia Gas Transmission Corp.	1.06	CL
50	S001676	3.45	Hope Gas, Inc.	2.82	CN
51	S105886	5.30	Hope Gas, Inc.	2.70	CN
52	S007179	4.70	Columbia Gas Transmission Corp.	0.47	Unknown
53	S100888	2.40	Columbia Gas Transmission Corp.	2.37	CL
54	S101592	8.44	Dominion Transmission Inc.	0.26	Unknown
55	S006183	2.96	Hope Gas, Inc.	3.29	CN
56	S006182	5.02	Hope Gas, Inc.	1.55	CN
57	S006184	5.71	Columbia Gas Transmission Corp.	2.53	Unknown
58	S004181	4.16	Chestnut Ridge Storage, LLC	1.10	Unknown
59	S002678	3.01	Columbia Gas Transmission Corp.	2.14	Unknown
60	S104088	7.25	Columbia Gas Transmission Corp.	0.14	Unknown
61	S003678	2.09	Hope Gas, Inc.	1.33	CN
62	S005784	0.07	Hope Gas, Inc.	0.54	CN
63	S101691	0.84	Hope Gas, Inc.	1.45	CN
64	S019277	4.42	Columbia Gas Transmission Corp.	2.56	Unknown
65	S017677	0.83	Columbia Gas Transmission Corp.	0.79	CL
66	S100487	7.67	Hope Gas, Inc.	1.17	Unknown
67	S100489	7.02	Columbia Gas Transmission Corp.	1.56	Unknown
68	S100488	1.51	Columbia Gas Transmission Corp.	1.56	CL
69	S008185	2.64	Hope Gas, Inc.	0.18	CN
70	S011280	4.83	Chestnut Ridge Storage, LLC	0.61	Unknown
71	S004685	6.41	Hope Gas, Inc.	3.01	Unknown
72	S005882	0.86	Columbia Gas Transmission Corp.	0.90	CL
73	S022476	1.69	Hope Gas, Inc.	1.13	CN
74	S100687	0.19	Columbia Gas Transmission Corp.	0.14	CL
75	S100688	4.90	Columbia Gas Transmission Corp.	2.57	Unknown
76	S002881	1.84	Hope Gas, Inc.	0.95	CN

Site No	Permit ID	GP	Company (GP)	OP	Company (OP)
77	S003875	6.19	Columbia Gas Transmission Corp.	0.52	Unknown
78	S001285	7.22	Columbia Gas Transmission Corp.	0.07	Unknown
79	S001281	1.63	Columbia Gas Transmission Corp.	1.59	CL
80	C001382	6.12	Hope Gas, Inc.	2.71	Unknown
81	S103987	4.18	Columbia Gas Transmission Corp.	4.13	CL
82	S103986	6.04	Columbia Gas Transmission Corp.	6.00	CL
83	S002577	1.77	Hope Gas, Inc.	0.79	CN
84	S100188	1.78	Columbia Gas Transmission Corp.	1.82	CL
85	S100986	4.59	Columbia Gas Transmission Corp.	2.22	Unknown
86	S100989	0.44	Columbia Gas Transmission Corp.	0.38	CL
87	S012678	1.09	Columbia Gas Transmission Corp.	1.15	CL
88	S006084	8.01	Columbia Gas Transmission Corp.	7.41	Unknown
89	S015875	5.55	Columbia Gas Transmission Corp.	5.52	CL
90	S006582	1.37	Columbia Gas Transmission Corp.	1.40	CL
91	S011982	4.17	Hope Gas, Inc.	1.70	CN
92	S007183	6.86	Columbia Gas Transmission Corp.	6.08	Unknown
93	S104188	5.95	Columbia Gas Transmission Corp.	5.92	CL
94	S001174	1.72	Hope Gas, Inc.	1.44	CN
95	S104487	0.16	Hope Gas, Inc.	0.38	CN
96	S005480	5.12	Hope Gas, Inc.	2.44	CN
97	S003083	4.54	Columbia Gas Transmission Corp.	4.51	CL
98	S017976	0.17	Hope Gas, Inc.	0.80	CN
99	S009184	6.55	Hope Gas, Inc.	3.45	Unknown
100	S009185	0.15	Columbia Gas Transmission Corp.	0.12	CL
101	S103389	6.28	Columbia Gas Transmission Corp.	0.75	Unknown
102	S017476	5.38	Hope Gas, Inc.	1.43	Unknown
103	Z008881	6.00	Columbia Gas Transmission Corp.	0.40	Unknown
104	S007582	6.38	Hope Gas, Inc.	3.17	Unknown
105	S103286	5.86	Hope Gas, Inc.	2.14	Unknown
106	S102489	7.33	Columbia Gas Transmission Corp.	1.64	Unknown
107	S102488	2.25	Columbia Gas Transmission Corp.	2.31	CL
108	S103687	3.97	Columbia Gas Transmission Corp.	1.14	Unknown
109	S100496	6.68	Columbia Gas Transmission Corp.	1.65	Unknown
110	S001483	4.20	Columbia Gas Transmission Corp.	0.44	CN
111	S001482	3.68	Columbia Gas Transmission Corp.	0.88	CN
112	S001485	5.45	Columbia Gas Transmission Corp.	0.32	Unknown
113	S009369	0.17	Columbia Gas Transmission Corp.	0.22	CL
114	S101389	2.17	Columbia Gas Transmission Corp.	2.21	CL
115	S101388	7.63	Columbia Gas Transmission Corp.	1.43	Unknown

Site No	Permit ID	GP	Company (GP)	OP	Company (OP)
116	S005378	2.92	Hope Gas, Inc.	3.54	CN
117	S005085	2.06	Columbia Gas Transmission Corp.	2.11	CL
118	S013278	2.48	Columbia Gas Transmission Corp.	2.44	CL
119	S013273	2.73	Chestnut Ridge Storage, LLC	2.61	Unknown
120	Z000781	5.00	Columbia Gas Transmission Corp.	4.97	CL
121	Z001781	4.76	Columbia Gas Transmission Corp.	1.17	Unknown
122	S101986	1.79	Columbia Gas Transmission Corp.	1.74	CL
123	S005278	1.69	Hope Gas, Inc.	1.25	CN
124	S014879	5.30	Columbia Gas Transmission Corp.	5.25	CL
125	S002685	4.77	Hope Gas, Inc.	1.45	CN
126	Z004081	6.08	Columbia Gas Transmission Corp.	0.76	Unknown
127	S105386	0.19	Columbia Gas Transmission Corp.	0.23	CL
128	S000381	2.35	Columbia Gas Transmission Corp.	2.31	CL
129	S000380	1.33	Columbia Gas Transmission Corp.	1.29	CL
130	S100389	9.11	Columbia Gas Transmission Corp.	3.88	Unknown
131	S007383	3.92	Columbia Gas Transmission Corp.	1.67	Unknown
132	S008879	3.28	Hope Gas, Inc.	4.88	CN
133	S018875	4.47	Columbia Gas Transmission Corp.	1.10	Unknown
134	S103086	7.36	Columbia Gas Transmission Corp.	3.03	Unknown
135	S106786	1.07	Columbia Gas Transmission Corp.	1.11	CL
136	S103487	3.55	Columbia Gas Transmission Corp.	1.46	Unknown
137	S106191	6.92	Columbia Gas Transmission Corp.	0.96	Unknown
138	S010775	3.70	Columbia Gas Transmission Corp.	1.46	CN
139	S106386	5.70	Columbia Gas Transmission Corp.	0.62	Unknown
140	C000184	4.47	Columbia Gas Transmission Corp.	3.39	Unknown
141	S007078	0.50	Columbia Gas Transmission Corp.	0.43	CL
142	S004679	2.65	Columbia Gas Transmission Corp.	1.05	Unknown
143	S002383	0.81	Hope Gas, Inc.	0.86	CN
144	I063600	0.43	Columbia Gas Transmission Corp.	0.37	CL
145	Z000581	5.94	Columbia Gas Transmission Corp.	4.66	Unknown
146	S007574	0.79	Columbia Gas Transmission Corp.	0.83	CL
147	S007579	3.84	Columbia Gas Transmission Corp.	0.35	CN
148	Z002481	3.82	Columbia Gas Transmission Corp.	3.79	CL
149	S004073	3.88	Columbia Gas Transmission Corp.	1.35	Unknown
150	S003385	1.67	Hope Gas, Inc.	0.28	CN
151	S104286	1.44	Columbia Gas Transmission Corp.	1.38	CL
152	S103889	1.84	Hope Gas, Inc.	3.89	CN
153	S103887	0.41	Columbia Gas Transmission Corp.	0.35	CL
154	S002783	1.52	Columbia Gas Transmission Corp.	1.47	CL

Site No	Permit ID	GP	Company (GP)	OP	Company (OP)
155	S010282	0.49	Columbia Gas Transmission Corp.	0.54	CL
156	S012282	0.76	Columbia Gas Transmission Corp.	0.73	CL
157	S003685	1.06	Hope Gas, Inc.	1.60	CN
158	S003684	4.60	Hope Gas, Inc.	2.13	CN
159	S101488	4.31	Hope Gas, Inc.	1.47	Unknown
160	S101487	2.74	Columbia Gas Transmission Corp.	2.01	Unknown
161	S003579	9.09	Columbia Gas Transmission Corp.	7.00	Unknown
162	S003574	3.15	Columbia Gas Transmission Corp.	3.12	CL
163	S010377	0.35	Hope Gas, Inc.	0.26	CN
164	S010375	2.06	Columbia Gas Transmission Corp.	2.03	CL
165	S015775	5.54	Hope Gas, Inc.	1.54	Unknown
166	S015776	11.46	Columbia Gas Transmission Corp.	5.92	Unknown
167	S006079	11.97	Columbia Gas Transmission Corp.	7.81	Unknown
168	S103691	3.03	Hope Gas, Inc.	3.16	CN
169	S004481	3.13	Hope Gas, Inc.	4.36	CN
170	S005283	0.14	Hope Gas, Inc.	0.56	CN
171	S005285	6.93	Columbia Gas Transmission Corp.	4.24	Unknown
172	S005284	3.99	Hope Gas, Inc.	1.15	Unknown
173	S021575	9.81	Columbia Gas Transmission Corp.	5.25	Unknown
174	S031571	3.12	Hope Gas, Inc.	4.18	CN
175	S025474	1.24	Columbia Gas Transmission Corp.	1.30	CL
176	S102587	0.01	Hope Gas, Inc.	2.20	CN
177	S103191	6.98	Columbia Gas Transmission Corp.	1.52	Unknown
178	S021173	3.08	Columbia Gas Transmission Corp.	3.04	CL
179	S101588	2.65	Columbia Gas Transmission Corp.	2.61	CL
180	S024674	3.88	Columbia Gas Transmission Corp.	1.35	Unknown
181	S008482	6.80	Columbia Gas Transmission Corp.	0.82	Unknown
182	S009375	9.89	Columbia Gas Transmission Corp.	7.00	Unknown
183	S103586	3.97	Columbia Gas Transmission Corp.	1.42	Unknown
184	S100595	0.61	Columbia Gas Transmission Corp.	0.66	CL
185	S100590	5.41	Columbia Gas Transmission Corp.	0.14	Unknown
186	S010980	3.45	Hope Gas, Inc.	2.82	CN
187	S011277	4.77	Hope Gas, Inc.	2.19	CN
188	S010582	0.84	Columbia Gas Transmission Corp.	0.88	CL
189	S004984	1.41	Columbia Gas Transmission Corp.	1.46	CL
190	S100197	3.89	Columbia Gas Transmission Corp.	0.73	CN
191	S102286	6.68	Columbia Gas Transmission Corp.	0.88	Unknown
192	S102288	1.80	Hope Gas, Inc.	0.54	CN
193	S006678	1.00	Columbia Gas Transmission Corp.	1.04	CL

Site No	Permit ID	GP	Company (GP)	OP	Company (OP)
194	S101088	3.72	Hope Gas, Inc.	1.15	CN
195	S003982	0.83	Hope Gas, Inc.	0.01	CN
196	S005777	5.78	Columbia Gas Transmission Corp.	2.78	Unknown
197	S000981	5.39	Columbia Gas Transmission Corp.	5.35	CL
198	S000983	6.64	Columbia Gas Transmission Corp.	3.30	Unknown
199	S102887	5.70	Columbia Gas Transmission Corp.	0.11	Unknown
200	S012774	0.31	Columbia Gas Transmission Corp.	0.28	CL
201	S012776	0.10	Hope Gas, Inc.	0.07	CN
202	S013579	2.67	Columbia Gas Transmission Corp.	2.64	CL
203	S017077	1.82	Columbia Gas Transmission Corp.	1.88	CL
204	Z002281	2.87	Columbia Gas Transmission Corp.	2.83	CL
205	S013076	1.48	Columbia Gas Transmission Corp.	1.43	CL
206	S001876	3.51	Columbia Gas Transmission Corp.	3.37	Unknown
207	S000476	2.15	Columbia Gas Transmission Corp.	2.11	CL
208	S104090	3.12	Hope Gas, Inc.	4.18	CN
209	S003881	5.73	Columbia Gas Transmission Corp.	1.34	Unknown
210	S003884	6.03	Columbia Gas Transmission Corp.	1.64	Unknown
211	S023176	6.55	Columbia Gas Transmission Corp.	5.82	Unknown
212	S101686	5.28	Hope Gas, Inc.	1.67	Unknown
213	I064100	0.80	Columbia Gas Transmission Corp.	0.85	CL
214	S015774	4.47	Hope Gas, Inc.	0.45	CN
215	S023776	1.43	Columbia Gas Transmission Corp.	1.49	CL
216	S008285	1.54	Columbia Gas Transmission Corp.	1.59	CL
217	S008280	3.35	Columbia Gas Transmission Corp.	0.10	CN
218	S017177	3.30	Columbia Gas Transmission Corp.	1.85	Unknown
219	S006284	4.90	Hope Gas, Inc.	1.30	CN
220	S107386	2.11	Hope Gas, Inc.	0.70	Unknown
221	S012280	0.67	Columbia Gas Transmission Corp.	0.60	CL

Suitability Model

The suitability model for Preston County is created with a weighted scoring method. The method scores options against a prioritized requirements list to determine which option best fits the selection criteria. Using a consistent list of criteria, weighted according to the importance or priority of the criteria to the researcher, a comparison of similar “products” can be completed. If numerical values are assigned to the criteria priorities (**weighting**) and the ability of the product to meet a specific criterion (**scoring**), a “score” can be derived. By summing the score (**total score**), the product most closely meeting the criteria can be determined.

Criteria are chosen and weighted based on published Land Use Master Plans (LUMPs) for several counties in West Virginia, RTI's own research on the existing conditions in Preston County and expert advice about important factors to site development.¹⁶ Then, scores for each site are given by comparing the closest distance from the site to all factors within given distance thresholds. There are four sets of scores in this suitability model: **absolute scores, relative scores, and the total score.**

Absolute scores are given by comparing certain distance thresholds with the results of GIS Distance Analysis. Thresholds are determined mainly based on the researcher's experience, characteristics of the considered criteria and the priority given to the criteria. For example, if the closest distance from a site to an existing highway ranges from 2.5 to 5 miles, the site will be given 7 points for the Existing Highways Criteria. Absolute scores will directly affect the site selection. Different score categories may result in significant change in the cost of investment, and will thus impact the county's decisions.

Relative scores, on the other hand, depend solely on the closest distances of sites to relative criteria features. Initially, statistical values will be computed according to distance values from all sites to a certain factor (criteria), including min, quartile 1 – Q1, quartile 2 – Q2, quartile 3 – Q3, and max. Then, distance values will be classified into four groups and given the scores shown in Table 12 (below). This score set is used to sharpen differences between all sites in a certain category and therefore aid the decision maker. For example, two sites may have the same absolute score (in the same range of miles) but may fall in different statistical groups. Then the two sites will have different relative scores.

The total score is a combination of weights, absolute scores, and relative scores. The following equation is used to calculate the total score of a certain studied site:

$$\text{Total score of site A} = \sum (\text{absolute score} \times \text{relative score} \times \text{weight})_{ci} / 10 \quad (ci: \text{criteria i})$$

Sites with higher total scores reveal a higher chance of being developed. Total scores will vary according to a combination of four components: weights, absolute scores, and relative scores.

1. Weighting

¹⁶ Joseph, M. *A Decision-Support Model of Land Suitability Analysis for the Ohio Lake Erie Balanced Growth Program*. EcoCity Cleveland. (2006).

Table 10 prioritizes post-mining land-use criteria for surface coal mining site selection in Preston County. Criteria weights are assigned on a one-to-ten scale. According to Joseph, utilities (power, water, and sewer) and road networks are considered more important factors to development. Therefore, those factors receive higher weights (7-10) in the suitability model. On the other hand, decision-makers are less affected by factors such as airports, national waterways, and ports. Those factors may be good supplements but do not critically change the investments.

Table 10: Weighting Sites Selection Criteria

No	Criteria	Weight
1	Broadband	9
2	Gas Pipes	6
3	National Waterway Network	4
4	Oil Pipeline	6
5	Power Lines	10
6	Railroads	5
7	Sewer Lines	8
8	Water Lines	10
9	Existing Highway	8
10	Intermodal Terminal Facilities	6
11	Interstate	8
12	Sewer Treatment Facilities	7
13	Solid Waste Treatment Facilities	8

2. Scoring

2.1 Absolute Scores:

The shorter the distance to a feature from a site, the higher absolute score the site receives. Table 11 describes the thresholds and score categories for each criterion, ranging from 1 to 10. In order to achieve a better comparison between sites, the score scale is evenly distributed between five distance groups (1-3-5-7-10).

As mentioned previously, thresholds are mainly defined based on researcher experience, traveling method from a site to the features (road-path vs. Euclidean), and characteristic of criteria (type of feature, priority, and density). For example, distance thresholds for “Existing Highway” are much smaller than ones for “Solid Waste Treatment Facilities”. This is because highways are denser than solid waste treatment facilities. Both, however, have the same weights.

Table 11: Absolute Scoring System

Absolute Score	10	7	5	3	1	
Criteria (Miles)	Existing Highway	0 - 5	5 - 10	10 - 15	15 - 20	> 20
	Intermodal Terminal Facility	0 - 10	10 - 20	20 - 30	30 - 40	> 40
	Interstate	0 - 5	5 - 14	14 - 22	22 - 30	> 30
	Sewer Treatment Facilities	0 - 2.5	2.5 - 5	5 - 7.5	7.5 - 10	> 10
	Solid Waste Treatment Facilities	0 - 5	5 - 14	14 - 22	22 - 30	> 30
	Broadband	0 - 0.5	0.5 - 2	2 - 3	3 - 4	> 4
	Gas Pipes	0 - 0.5	0.5 - 1.5	1.5 - 2	2 - 2.5	> 2.5
	National Waterway Network	0 - 2.5	2.5 - 5	5 - 7.5	7.5 - 10	> 10
	Power Line	0 - 0.5	0.5 - 1.5	1.5 - 2	2 - 2.5	> 2.5
	Oil Pipeline	0 - 0.25	0.25 - 0.5	0.5 - 0.75	0.75 - 1	> 1
	Railroads	0 - 1	1 - 3	3 - 4	4 - 5	> 5
	Sewer Lines	0 - 1	1 - 3	3 - 4	4 - 5	> 5
	Water Lines	0 - 0.25	0.25 - 0.5	0.5 - 0.75	0.75 - 1	> 1

2.2 Relative Scores:

Table 12 shows four statistical groups and their relative scores in the Preston County land suitability model. The total number of coal mining sites will be equally distributed in each group. The relative score differs from the absolute score in two ways. First, thresholds for relative scores are derived only from real distances from the sites to the features (criteria). Second, it is not affected by personal opinion and does not consider either traveling method or nature of criteria.

Table 12: Relative Scoring System

Threshold (Distances in miles)		Min - Q1	Q1 - Q2	Q2 - Q3	Q3 - Max	
Relative Score		10	7.5	5	2.5	
No.	Criteria	Min	Q1	Q2	Q3	Max
1	Broadband	0.03	4.77	1.17	1.82	2.54
2	Gas Pipes	0.01	11.97	1.44	3.25	5.38
3	National Waterway Network	8.73	46.69	15.07	18.28	22.19
4	Oil Pipeline	0.01	7.81	0.75	1.46	2.56
5	Power Lines	0.01	4.90	0.34	0.78	1.43
6	Railroads	0.13	16.70	2.02	5.24	8.49
7	Sewer Lines	0.02	7.69	1.64	2.41	3.71
8	Water Lines	0.01	4.12	0.36	0.74	1.53
9	Existing Highway	0.01	6.08	0.90	1.59	2.88
10	Intermodal Terminal Facilities	13.27	50.59	18.19	21.80	24.60
11	Interstate	0.15	37.43	5.40	9.45	14.43
12	Sewer Treatment Facilities	0.36	8.12	2.24	3.54	5.04
13	Solid Waste Treatment Facilities	0.96	14.33	4.09	6.21	8.55

3. Preston County's Suitability Model:

Table 13 shows the total scores of all studied sites in Preston County. Site 35 (Permit ID = C000985) has the highest score of 663.5. The sites with higher total scores suggest better opportunities for development. Results in Table 13 are also plotted in the bar chart (Figure 15) for better visualization. Among 221 analyzed potential development sites of Preston County, it is easy to notice the top five sites and determine the most suitable sites for investment.

Certainly, any change in weight values or the scoring system will result in different output and may change the decision. For better analysis and decision-making, the dynamic suitability model, which allows modification in criteria's weights, thresholds and scores is available for distribution through RTI's Geospatial Program.

Besides a distance analysis, a suitability model for Preston is supported by demographic data as well as two additional analyses, which are workforce analysis and retail location density (shown on Table 14 and Map 41 below). The best decision will be made with careful consideration of the suitability analysis as well as the demographic and economic information.

Table 13: Total Score of Mine Sites in Preston County

Site No	Permittee	Permit ID	Score
1	TRONAGUN CORP	S104786	458
2	BJORKMAN MINING CO	S003781	496.75
3	AMBREC CORPORATION	S108686	258
4	F & M COAL COMPANY LIMITED PARTNERSHIP	S102687	315.25
5	G & B COAL INC	S101887	434
6	AMANDA NICOLE FUELS INC	S101888	403
7	PRETZEL EXCAVATING, LLC	S103291	323.5
8	LAREW COAL CO.	S012976	378.25
9	COAL LICK COAL CO	S006572	465.5
10	DAUGHERTY COAL CO INC	S006577	282.25
11	ROCKVILLE MINING CO	S006578	410.5
12	PATRIOT MINING COMPANY INC	S009680	485.75
13	INTERSTATE LUMBER CO INC	S009682	421.5
14	PATRIOT MINING COMPANY INC	S102987	586.75
15	FREEPORT MINING CORPORATION	S101987	368.5
16	LAURITA TRUCKING & EXCAVATING	S033171	456
17	GUARANTY RESOURCES, INC	Z004781	362
18	GRAFTON COAL COMPANY	S011676	591
19	COAL LICK COAL CO	S002075	438.25
20	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	S200901	403.25
21	AMERIKOHL MINING INC	S102389	276
22	JONES COAL INC	S102386	249
23	HALLELUJAH MINING	S005179	438
24	COALTRAIN CORPORATION	S017777	312
25	MILLER, WAYNE L	S001883	316.5
26	COALTRAIN CORPORATION	I046800	587.25
27	BEEFSTEAK MINING CO	S108786	486
28	AMBREC CORPORATION	S103788	200.75
29	F & M COAL COMPANY LIMITED PARTNERSHIP	S004478	349.5
30	BUFFALO COAL COMPANY INC	S201192	300.25
31	PATRIOT MINING COMPANY INC	S100393	542.25
32	VOLKSTONE CO	S004281	253
33	LEWIS COAL AND COKE CO	S001578	292.5

Site No	Permittee	Permit ID	Score
34	GRAFTON COAL COMPANY	S001575	605
35	K. C. COAL CO	C000985	663.5
36	K-C & M COAL COMPANY INC	S102388	347.5
37	PRIMROSE COAL INC	S008579	154.5
38	AMBREC CORPORATION	S104086	243.5
39	PRESTON COUNTY COAL AND COKE CORPORATION	S103188	346
40	GARBART CONSTRUCTION CO, INC	S003377	475
41	COLBY COAL COMPANY	S100293	384.5
42	ALI CO	S100298	462.25
43	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	S100299	433.5
44	DAUGHERTY COAL CO INC	S012479	254.75
45	BJORKMAN MINING CO	S013180	518.75
46	MAURICE JENNINGS	S012274	404.5
47	WILLIFORD EXCAVATING CO INC	S011077	453.75
48	SHARON COAL CO	S001184	525
49	BUFFALO COAL COMPANY INC	S001679	481
50	M & V FUEL CORP	S001676	284
51	MAURICE JENNINGS	S105886	455
52	WETER CO, INC	S007179	361
53	HORIZON FUELS INC	S100888	392.75
54	VOLKSTONE CO	S101592	561
55	MAURICE JENNINGS	S006183	509.5
56	J.E.B., INC	S006182	448.75
57	WALTER GREEN INC	S006184	456
58	INTERSTATE LUMBER CO INC	S004181	313.5
59	MELIO MINING CO	S002678	153.25
60	PRESTON COUNTY COAL AND COKE CORPORATION	S104088	588.5
61	MARY RUTH CORPORATION	S003678	500.75
62	F & M COAL COMPANY LIMITED PARTNERSHIP	S005784	275.25
63	KRISTIE CORP	S101691	428.5
64	DAUGHERTY COAL CO INC	S019277	371.5
65	INTERSTATE LUMBER CO INC	S017677	258.75
66	SIDELAND COAL CORP	S100487	488.75
67	A C MINING CO	S100489	531.75
68	FREEPORT MINING CORPORATION	S100488	413.25
69	MARY LOU COAL CO	S008185	475
70	INTERSTATE LUMBER CO INC	S011280	376
71	K. C. COAL CO	S004685	599.25
72	CENTURY ENTERPRISES INC	S005882	378.5
73	INTERSTATE LUMBER CO INC	S022476	418.5

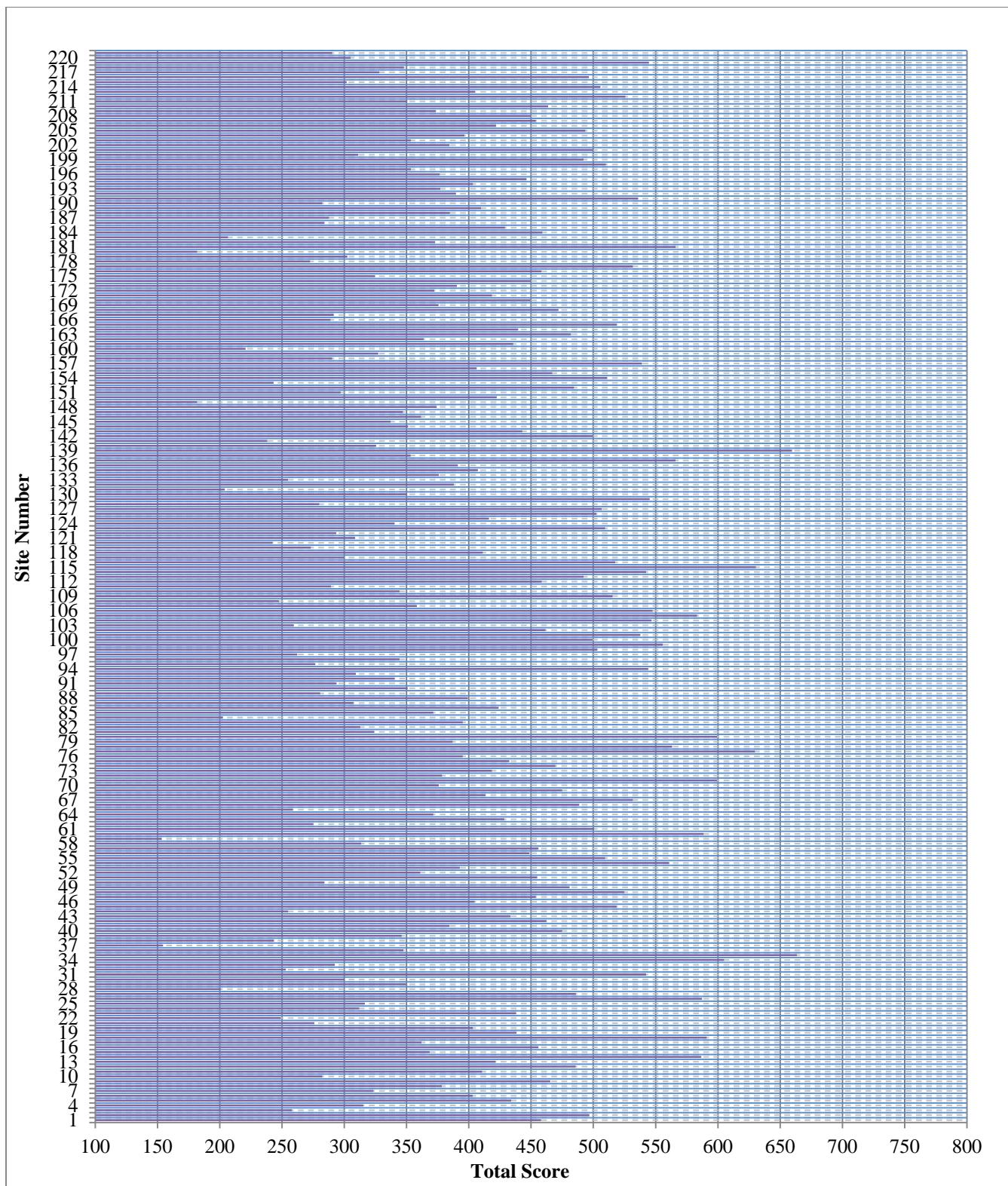
Site No	Permittee	Permit ID	Score
74	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	S100687	469.5
75	F & M COAL COMPANY LIMITED PARTNERSHIP	S100688	432.5
76	PRESTON ENERGY INC	S002881	395
77	LEWIS COAL AND COKE CO	S003875	629.75
78	SHARON COAL CO	S001285	563.25
79	PATRIOT MINING COMPANY INC	S001281	387
80	V & V CO	C001382	599.25
81	MARY RUTH CORPORATION	S103987	324
82	DELTA MINING, INC	S103986	312.75
83	MARY RUTH CORPORATION	S002577	395
84	PATRIOT MINING COMPANY INC	S100188	202.5
85	DAUGHERTY COAL CO INC	S100986	371.5
86	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	S100989	424
87	RECKART MINING CO., INC	S012678	307.25
88	HIDDEN VALLEY COAL CO	S006084	399.25
89	GARBART CONSTRUCTION CO, INC	S015875	280.5
90	ROCKVILLE MINING CO	S006582	351
91	PATRIOT MINING COMPANY INC	S011982	293.75
92	MARY RUTH CORPORATION	S007183	340.5
93	AMERIKOHL MINING INC	S104188	309.25
94	SPIKER, DEWEY	S001174	544
95	F & M COAL COMPANY LIMITED PARTNERSHIP	S104487	276.75
96	MAURICE JENNINGS	S005480	344.25
97	RECKART MINING CO., INC	S003083	262.25
98	LEWIS COAL AND COKE CO	S017976	503.25
99	PATRIOT MINING COMPANY INC	S009184	555.75
100	ROCKVILLE MINING CO	S009185	499.25
101	PATRIOT MINING COMPANY INC	S103389	537.75
102	POINT COAL CO	S017476	461.5
103	MOUNTAIN FUELS	Z008881	259.5
104	K. C. COAL CO	S007582	546.75
105	ED-E DEVELOPMENT CO INC	S103286	583.25
106	VOLKSTONE CO	S102489	547.5
107	BOLINGREEN MINING CO	S102488	358.25
108	SHARON COAL CO	S103687	247.5
109	COALTRAIN CORPORATION	S100496	515.5
110	R K COMPANY INC	S001483	344.25
111	PATRIOT MINING COMPANY INC	S001482	289.25
112	R & N MINING	S001485	458.5
113	ROCKVILLE MINING CO	S009369	492.25

Site No	Permittee	Permit ID	Score
114	PATRIOT MINING COMPANY INC	S101389	542.25
115	VOLKSTONE CO	S101388	630.5
116	MAURICE JENNINGS	S005378	517.5
117	AMBREC CORPORATION	S005085	300
118	MILLER, WAYNE L	S013278	411.25
119	SHARON COAL CO	S013273	273
120	PRIMROSE COAL INC	Z000781	242.5
121	DAUGHERTY COAL CO INC	Z001781	308.75
122	R K COMPANY INC	S101986	293.5
123	INTERSTATE LUMBER CO INC	S005278	509.5
124	PATRIOT MINING COMPANY INC	S014879	340.25
125	WOCAP ENERGY RESOURCES, INC	S002685	416.25
126	Hallelujah Mining	Z004081	502.5
127	ROCKVILLE MINING CO	S105386	506.75
128	MARY RUTH CORPORATION	S000381	279.75
129	KINGWOOD COAL COMPANY	S000380	545.25
130	MARY RUTH CORPORATION	S100389	350
131	DAUGHERTY COAL CO INC	S007383	204
132	COALTRAIN CORPORATION	S008879	388
133	DAUGHERTY COAL CO INC	S018875	254.75
134	JONES COAL INC	S103086	376
135	NORTHEASTERN MINING OF WV, IN	S106786	407.25
136	HOBAR MINING, INC	S103487	391.25
137	COALTRAIN CORPORATION	S106191	566
138	LEWIS COAL AND COKE CO	S010775	353.25
139	J.E.B., INC	S106386	659.5
140	THOMAS DEWITT EXCAVATING CO	C000184	325.5
141	PORTLAND COAL, INC	S007078	238.25
142	F & M COAL COMPANY LIMITED PARTNERSHIP	S004679	499.75
143	DALTON, RAYMOND	S002383	443
144	FORMAN-LOSE MINING, INC	I063600	351.25
145	INTERSTATE LUMBER CO INC	Z000581	337.25
146	P & T COAL CO.	S007574	361.5
147	PATRIOT MINING COMPANY INC	S007579	347
148	MILLER, WAYNE L	Z002481	374.25
149	DAUGHERTY COAL CO INC	S004073	181.75
150	SHARON COAL CO	S003385	422.5
151	BOLINGREEN MINING CO	S104286	297
152	COALTRAIN CORPORATION	S103889	484.5
153	NEW ALLEGHENY, INC.	S103887	243.25

Site No	Permittee	Permit ID	Score
154	CRANE COAL CO INC	S002783	511
155	LARRY UPHOLD DBA UPHOLD TRUCKING	S010282	467
156	PRETZEL EXCAVATING, LLC	S012282	406.25
157	J & R COAL CO	S003685	539
158	PATRIOT MINING COMPANY INC	S003684	290.25
159	BULLSKIN STONE & LIME LLC	S101488	327.25
160	AMBREC CORPORATION	S101487	220.75
161	MILLER, WAYNE L	S003579	435.5
162	RECKART MINING CO., INC	S003574	363.75
163	LEWIS COAL AND COKE CO	S010377	482
164	WILLIFORD EXCAVATING CO INC	S010375	439.75
165	POINT COAL CO	S015775	518.75
166	NORTHWEST COAL CO, INC	S015776	289
167	ZINN COAL CO	S006079	291.5
168	MANGUS COAL, INC.	S103691	472
169	P & B FUELS	S004481	375.75
170	INTERSTATE LUMBER CO INC	S005283	449.5
171	JCL DEVELOPMENT CORP	S005285	418.5
172	SHARON COAL CO	S005284	372.25
173	COAL LICK COAL CO	S021575	390.5
174	LAREW COAL CO.	S031571	449.75
175	CARDINAL COAL CO	S025474	324.75
176	REBEKAH COAL COMPANY INC	S102587	458.25
177	COLBY COAL COMPANY	S103191	531.75
178	ROCKY RIDGE ENTERPRISES, INC	S021173	272.5
179	MARY RUTH CORPORATION	S101588	302.5
180	DAUGHERTY COAL CO INC	S024674	181.75
181	SHARON COAL CO	S008482	566
182	GARBART CONSTRUCTION CO, INC	S009375	372.75
183	ROCKVILLE MINING CO	S103586	206.5
184	FREEPORT MINING CORPORATION	S100595	459
185	VOLKSTONE CO	S100590	429
186	PONTORERO & SONS COAL CO INC	S010980	284
187	MAURICE JENNINGS	S011277	287.75
188	ROCKVILLE MINING CO	S010582	384.75
189	LARRY UPHOLD DBA UPHOLD TRUCKING	S004984	409.75
190	R K COMPANY INC	S100197	282.25
191	COALTRAIN CORPORATION	S102286	536
192	PATRIOT MINING COMPANY INC	S102288	389.75
193	ROCKVILLE MINING CO	S006678	377

Site No	Permittee	Permit ID	Score
194	NOGATCO, INC	S101088	403.25
195	INTERSTATE LUMBER CO INC	S003982	446.25
196	DAUGHERTY COAL CO INC	S005777	376.75
197	PATRIOT MINING COMPANY INC	S000981	353.5
198	JONES COAL INC	S000983	510
199	SHARON COAL CO	S102887	492.25
200	INTERSTATE LUMBER CO INC	S012774	311.25
201	M & J COAL COMPANY INC	S012776	500
202	RECKART MINING CO., INC	S013579	384.5
203	LEWIS COAL AND COKE CO	S017077	353.5
204	HILLTOP COAL CO	Z002281	396.5
205	GARBART CONSTRUCTION CO, INC	S013076	493.5
206	GARBART CONSTRUCTION CO, INC	S001876	421.75
207	WILLIFORD EXCAVATING CO INC	S000476	453.75
208	COALTRAIN CORPORATION	S104090	449.75
209	COALTRAIN CORPORATION	S003881	373.5
210	COALTRAIN CORPORATION	S003884	463.75
211	MARY RUTH CORPORATION	S023176	350.5
212	MARY RUTH CORPORATION	S101686	525.75
213	LARRY UPHOLD DBA UPHOLD TRUCKING	I064100	405
214	LEWIS COAL AND COKE CO	S015774	505.75
215	ROCKVILLE MINING CO	S023776	302
216	LOYAL G. FORMAN JR DBA LOYAL G FORMAN & SON	S008285	496.5
217	PATRIOT MINING COMPANY INC	S008280	328
218	LEWIS COAL AND COKE CO	S017177	347.75
219	J.E.B., INC	S006284	544.75
220	F & M COAL COMPANY LIMITED PARTNERSHIP	S107386	305
221	BUFFALO COAL COMPANY INC	S012280	290.25

Figure 15: Preston County's Suitability Model (Total Score of Each Surface Coal Mining Site)



Work Force Analysis

A work force analysis estimates total employment and unemployment within a certain distance, providing potential labor sources if an investment is made on the site. According to Gary Langer, the average one-way commute time is 26 minutes or 16 miles.¹⁷ It is reasonable to consider unemployment within 15 miles of the site as an upper limit for a potential employer. This data set does not provide a skill set analysis however; therefore employers may not find the labor skills they need. This dataset provides the pool of labor resources from which to choose.

Table 14: Employment and Unemployment within 5-, 10- and 15-mile Radii from the Site

Site No	Permit ID	Emp_05	Unemp_05	Emp_10	Unemp_10	Emp_15	Unemp_15
1	S104786	1,312	134	6,183	620	10,259	929
2	S003781	3,888	367	8,891	764	12,465	1,093
3	S108686	1,215	46	4,583	242	9,635	760
4	S102687	3,027	210	8,626	701	12,082	1,009
5	S101887	3,930	341	8,833	739	12,504	1,073
6	S101888	1,598	161	6,580	660	10,291	915
7	S103291	1,882	181	7,498	713	11,842	1,060
8	S012976	890	87	4,368	427	8,592	763
9	S006572	1,513	133	7,290	627	11,529	941
10	S006577	2,292	98	7,825	596	11,293	937
11	S006578	1,782	104	8,172	661	11,536	946
12	S009680	3,816	339	8,019	666	11,234	958
13	S009682	2,487	244	7,702	709	10,739	935
14	S102987	4,282	376	8,468	703	12,025	1,041
15	S101987	1,245	46	4,351	216	9,570	755
16	S033171	1,247	83	3,233	223	6,816	514
17	Z004781	1,137	42	3,385	178	7,509	556
18	S011676	620	60	2,566	259	7,410	726
19	S002075	1,608	147	7,322	636	11,651	953
20	S200901	1,680	161	7,262	641	11,769	964
21	S102389	1,636	62	6,039	397	10,457	846
22	S102386	659	55	2,577	247	7,167	709
23	S005179	2,576	250	7,550	679	10,479	906
24	S017777	925	94	3,817	385	8,109	746
25	S001883	1,285	134	4,834	377	9,375	747
26	I046800	3,413	255	7,820	623	11,123	930

¹⁷ Gary Langer, “Poll: Traffic in the United States,” ABC News Online, February 13, 2005, Accessed March 1, 2013, <http://abcnews.go.com/Technology/Traffic/story?id=485098&page=1>.

Site No	Permit ID	Emp_05	Unemp_05	Emp_10	Unemp_10	Emp_15	Unemp_15
27	S108786	1,939	191	7,095	693	10,339	907
28	S103788	1,651	64	6,185	413	10,510	852
29	S004478	1,302	129	6,535	547	10,916	885
30	S201192	272	20	893	69	2,050	175
31	S100393	2,666	251	8,460	737	12,612	1,060
32	S004281	2,158	91	7,571	566	11,069	913
33	S001578	2,087	117	8,379	677	11,715	965
34	S001575	619	60	2,561	259	7,404	724
35	C000985	3,823	349	8,913	758	12,563	1,091
36	S102388	3,397	331	8,080	701	11,182	967
37	S008579	1,934	76	7,264	535	10,964	897
38	S104086	1,365	52	5,042	288	9,963	795
39	S103188	1,525	61	5,928	384	10,140	813
40	S003377	1,395	90	7,043	539	10,746	873
41	S100293	2,018	177	6,773	575	9,766	818
42	S100298	2,495	243	7,632	699	10,625	924
43	S100299	1,519	125	7,522	635	11,496	939
44	S012479	2,241	94	7,771	589	11,253	931
45	S013180	4,218	385	8,725	739	12,280	1,071
46	S012274	1,014	103	4,231	426	8,450	766
47	S011077	1,306	118	6,564	521	10,650	861
48	S001184	4,205	385	8,644	730	12,180	1,062
49	S001679	581	63	2,475	263	7,393	721
50	S001676	1,080	115	3,645	369	8,167	765
51	S105886	4,077	370	8,312	695	11,707	1,011
52	S007179	1,391	56	5,545	344	9,898	787
53	S100888	1,296	125	6,222	498	10,525	850
54	S101592	2,474	158	7,203	553	10,461	854
55	S006183	1,135	114	4,791	482	8,798	788
56	S006182	3,999	378	8,811	757	12,331	1,081
57	S006184	1,109	54	3,190	198	6,643	480
58	S004181	1,220	49	5,016	289	9,633	759
59	S002678	1,916	74	7,211	528	10,939	896
60	S104088	2,138	117	6,921	510	10,393	844
61	S003678	2,860	287	8,291	755	11,621	1,023
62	S005784	1,068	121	3,772	373	8,591	812
63	S101691	2,021	192	6,699	616	9,855	851
64	S019277	2,802	155	8,225	646	11,664	973
65	S017677	1,570	170	6,675	615	11,766	965

Site No	Permit ID	Emp_05	Unemp_05	Emp_10	Unemp_10	Emp_15	Unemp_15
66	S100487	2,520	175	7,209	566	10,406	853
67	S100489	2,975	188	7,783	602	11,132	923
68	S100488	1,084	40	3,900	176	9,156	710
69	S008185	3,072	296	7,739	672	10,692	920
70	S011280	1,354	54	5,465	336	9,825	778
71	S004685	4,188	360	8,327	685	11,838	1,018
72	S005882	1,860	109	8,251	669	11,610	954
73	S022476	2,944	295	8,119	732	11,299	989
74	S100687	1,107	40	3,714	174	8,792	681
75	S100688	3,547	261	8,575	694	12,136	1,023
76	S002881	3,014	301	8,135	730	11,311	988
77	S003875	4,049	364	8,852	746	12,471	1,083
78	S001285	1,949	102	6,624	481	10,225	825
79	S001281	1,364	80	6,167	439	10,223	827
80	C001382	4,239	372	8,407	697	11,941	1,032
81	S103987	1,342	92	4,456	296	8,811	699
82	S103986	1,144	130	3,478	283	7,998	634
83	S002577	2,981	296	8,071	723	11,196	976
84	S100188	1,731	66	6,536	454	10,658	865
85	S100986	2,710	143	8,128	633	11,569	965
86	S100989	1,467	133	7,164	618	11,467	936
87	S012678	2,119	186	8,102	696	12,087	996
88	S006084	1,075	102	2,864	232	6,395	493
89	S015875	1,283	126	3,908	296	8,440	668
90	S006582	2,064	129	8,410	688	11,776	971
91	S011982	3,551	327	7,923	667	11,002	942
92	S007183	1,288	106	3,244	243	7,148	552
93	S104188	1,272	124	3,703	282	8,140	642
94	S001174	2,814	281	8,209	749	11,499	1,010
95	S104487	985	112	3,242	323	7,978	770
96	S005480	4,092	376	8,381	704	11,801	1,023
97	S003083	1,263	141	4,472	355	9,112	727
98	S017976	2,070	200	6,974	661	10,116	880
99	S009184	4,097	345	8,214	672	11,665	997
100	S009185	1,544	111	7,756	639	11,438	936
101	S103389	4,128	365	8,797	737	12,430	1,076
102	S017476	4,120	382	8,801	750	12,346	1,080
103	Z008881	766	29	2,537	141	5,053	317
104	S007582	4,156	356	8,287	681	11,768	1,011

Site No	Permit ID	Emp_05	Unemp_05	Emp_10	Unemp_10	Emp_15	Unemp_15
105	S103286	4,282	383	8,563	717	12,126	1,053
106	S102489	3,260	222	7,860	616	11,218	935
107	S102488	2,588	222	8,653	737	12,329	1,023
108	S103687	1,924	76	7,175	523	10,859	889
109	S100496	2,830	170	7,767	598	11,123	921
110	S001483	2,444	245	7,783	728	12,110	1,078
111	S001482	2,040	202	7,341	694	12,283	1,095
112	S001485	1,571	64	6,111	408	10,101	809
113	S009369	1,628	86	7,766	609	11,177	914
114	S101389	2,666	251	8,460	737	12,612	1,060
115	S101388	3,210	222	7,795	611	11,121	925
116	S005378	1,088	109	4,675	470	8,726	781
117	S005085	1,238	47	4,536	237	9,665	764
118	S013278	1,311	115	6,414	499	10,481	847
119	S013273	1,079	41	4,232	206	9,341	728
120	Z000781	1,295	126	4,296	321	8,860	704
121	Z001781	2,299	101	7,745	586	11,217	928
122	S101986	1,287	136	6,251	534	10,883	880
123	S005278	2,925	292	8,160	737	11,389	998
124	S014879	1,324	104	3,964	279	8,241	648
125	S002685	4,018	383	8,747	750	12,243	1,072
126	Z004081	4,085	358	8,798	736	12,445	1,075
127	S105386	1,646	117	7,921	655	11,560	947
128	S000381	1,277	140	5,884	495	10,598	854
129	S000380	1,373	106	7,237	575	10,960	890
130	S100389	899	52	2,409	168	4,667	321
131	S007383	2,183	89	7,747	586	11,240	929
132	S008879	848	85	3,829	381	8,128	740
133	S018875	2,188	92	7,652	575	11,149	921
134	S103086	1,066	60	2,889	192	5,785	408
135	S106786	690	64	2,857	285	7,744	754
136	S103487	3,247	288	8,841	748	12,611	1,063
137	S106191	2,510	142	7,511	570	10,810	888
138	S010775	2,323	230	7,864	736	11,813	1,049
139	S106386	3,772	351	8,911	761	12,564	1,096
140	C000184	3,117	199	8,433	674	11,910	998
141	S007078	687	54	2,585	242	7,067	702
142	S004679	2,298	235	7,589	698	12,522	1,089
143	S002383	1,900	184	6,722	650	9,988	873

Site No	Permit ID	Emp_05	Unemp_05	Emp_10	Unemp_10	Emp_15	Unemp_15
144	I063600	1,724	177	7,039	637	11,920	978
145	Z000581	1,304	88	3,525	242	7,421	569
146	S007574	1,745	84	7,901	618	11,279	924
147	S007579	2,062	204	7,422	702	12,231	1,092
148	Z002481	1,295	126	5,249	404	9,670	773
149	S004073	2,035	81	7,457	553	11,041	908
150	S003385	2,759	270	7,704	687	10,640	920
151	S104286	1,312	136	6,474	561	11,089	899
152	S103889	1,063	104	4,837	475	8,842	781
153	S103887	707	56	2,707	254	7,247	717
154	S002783	1,362	96	7,012	541	10,748	872
155	S010282	1,201	44	4,017	188	9,234	723
156	S012282	1,395	122	7,153	600	11,234	914
157	S003685	1,731	169	6,312	613	9,720	850
158	S003684	3,822	352	8,159	686	11,391	980
159	S101488	1,226	106	5,328	438	8,965	738
160	S101487	1,456	56	5,467	335	10,149	815
161	S003579	986	85	2,563	207	5,526	420
162	S003574	1,289	131	5,664	449	10,077	809
163	S010377	2,298	222	7,331	681	10,373	902
164	S010375	1,309	115	6,661	528	10,687	865
165	S015775	4,213	386	8,735	739	12,292	1,073
166	S015776	593	31	1,793	134	3,599	262
167	S006079	543	35	1,712	142	3,559	274
168	S103691	1,158	117	4,822	485	8,825	791
169	S004481	943	94	4,153	415	8,399	758
170	S005283	2,281	223	7,522	707	10,605	926
171	S005285	1,221	80	3,135	218	6,569	491
172	S005284	1,161	103	5,176	432	8,889	735
173	S021575	848	56	2,267	168	4,482	318
174	S031571	972	98	4,254	426	8,472	763
175	S025474	2,201	196	8,149	702	12,179	1,006
176	S102587	1,805	172	6,411	603	9,710	843
177	S103191	2,883	179	7,740	597	11,082	918
178	S021173	1,271	143	5,447	451	10,104	811
179	S101588	1,282	135	5,845	477	10,373	835
180	S024674	2,035	81	7,457	553	11,041	908
181	S008482	2,427	135	7,461	565	10,771	883
182	S009375	857	68	2,307	186	4,784	355

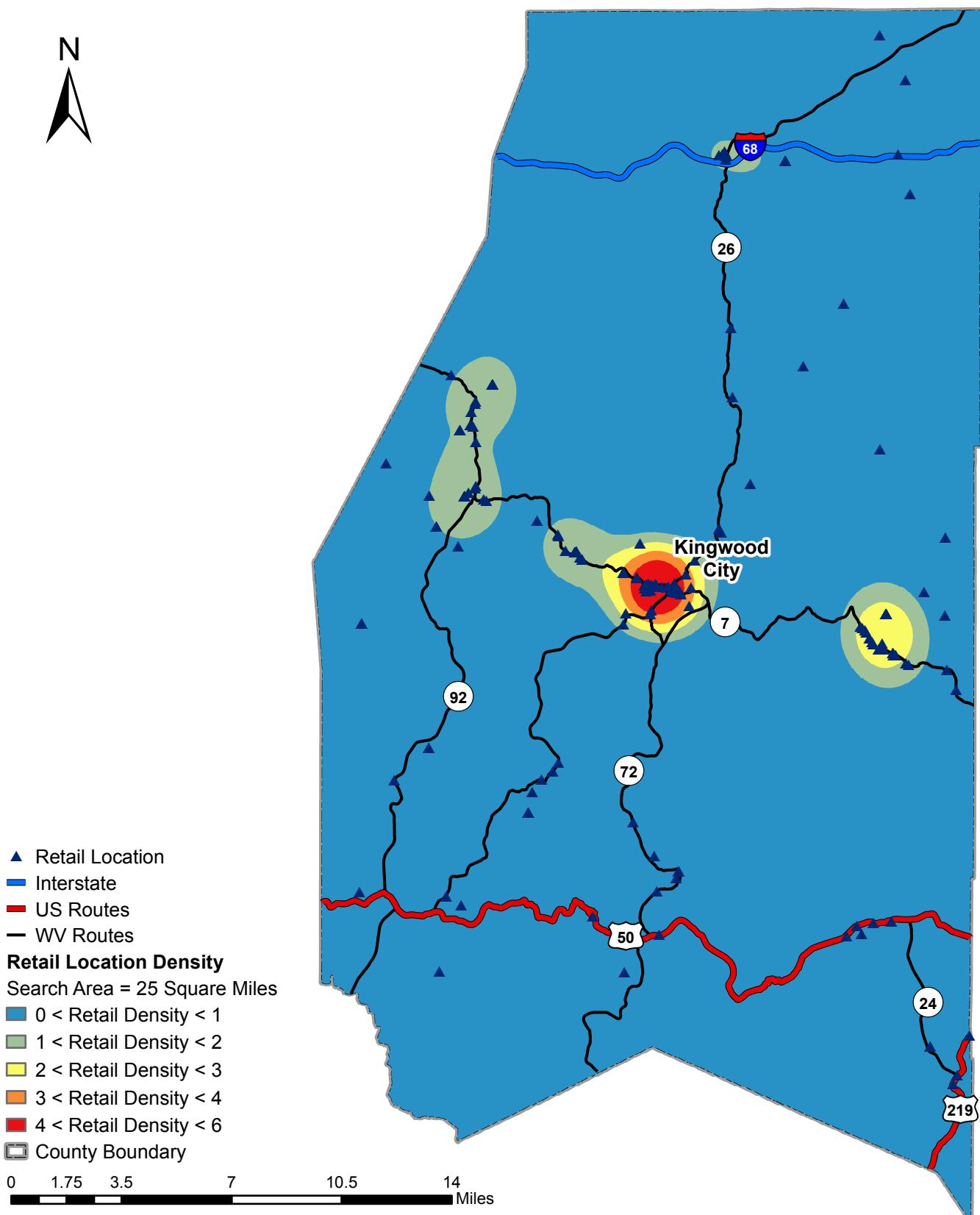
Site No	Permit ID	Emp_05	Unemp_05	Emp_10	Unemp_10	Emp_15	Unemp_15
183	S103586	2,112	85	7,600	571	11,134	919
184	S100595	1,293	48	4,338	216	9,523	753
185	S100590	1,907	81	6,963	500	10,557	858
186	S010980	1,080	115	3,645	369	8,167	765
187	S011277	3,956	368	8,293	697	11,618	1,005
188	S010582	1,843	103	8,213	660	11,559	949
189	S004984	1,173	44	4,135	195	9,394	736
190	S100197	2,283	227	7,712	726	12,026	1,073
191	S102286	2,447	134	7,502	567	10,817	889
192	S102288	2,944	291	7,949	709	10,991	955
193	S006678	1,924	123	8,312	682	11,714	963
194	S101088	2,587	260	8,036	746	11,890	1,055
195	S003982	1,958	192	7,006	680	10,224	895
196	S005777	3,256	211	8,158	642	11,658	978
197	S000981	1,336	95	3,849	266	7,987	624
198	S000983	1,154	67	3,114	206	6,452	472
199	S102887	1,694	71	6,430	445	10,232	824
200	S012774	1,684	180	6,822	630	11,955	985
201	S012776	2,253	219	7,365	690	10,436	910
202	S013579	1,304	120	6,195	483	10,380	837
203	S017077	2,389	202	8,477	721	12,194	1,008
204	Z002281	1,337	95	5,566	393	9,794	786
205	S013076	1,362	87	6,712	502	10,541	855
206	S001876	1,239	52	3,750	215	7,918	604
207	S000476	1,306	118	6,564	521	10,650	861
208	S104090	972	98	4,254	426	8,472	763
209	S003881	2,499	128	7,748	589	11,128	921
210	S003884	2,635	144	7,785	595	11,160	924
211	S023176	1,317	105	3,341	246	7,311	566
212	S101686	3,821	366	8,861	769	12,426	1,091
213	I064100	1,233	45	4,168	200	9,403	741
214	S015774	2,793	283	8,041	744	12,088	1,072
215	S023776	1,850	77	7,840	605	11,255	923
216	S008285	2,161	221	7,557	686	12,470	1,057
217	S008280	1,834	178	7,203	689	12,126	1,086
218	S017177	2,076	202	7,740	733	11,624	1,034
219	S006284	3,818	369	8,824	767	12,354	1,086
220	S107386	996	109	4,273	416	9,041	853
221	S012280	219	16	786	60	1,819	152

Retail Location Analysis

A retail location analysis is a hot spot analysis that depicts a number of retailers within 25 square miles of any certain location in the county (Map 41). The result, as shown on the map, is displayed in blue-to-red color for retail's density from low to high. Normally, the area with a high density of retailers indicates an already developed and populated community, which possibly has the highest opportunity as well as the heaviest competition. The areas with low retail density showcase where population is lowest, but also where competition is lowest and which may provide retail opportunities.

Retail Location Density

Preston County



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VI. Conclusion

Based on historical trends and future population projections, Preston County is well-positioned for economic stability. Despite an anticipated decline in the State population, Preston County is expected to grow by more than 13 percent from 201 to 2030. Employment in Government and Education and Health Services sectors has experienced steady growth in the last decade, coupled with relatively steady increases in wages. However, a substantial portion of Preston County's total personal income is derived from government transfers. Better diversification and concentrated growth among its sectors is beneficial in ensuring that the County will grow and thrive. This plan could be useful in that respect by assisting Preston County in creating a development plan using their post-mine sites.

This plan has identified and displayed the five post-mine sites that are most suitable for development. These sites have the integral tools that researchers have shown can assist in spatial development. Though success is not guaranteed, this overview combined with careful strategic planning can bring about the changes in the trends that are necessary for Preston County to thrive.

Through a site distance analysis and complete demographic calculation, this plan provides the most comprehensive understanding of the economic state of Preston County and the potential of its land. By analyzing specific infrastructures and demographics, policymakers can begin attracting investors to post-mine sites, and continue the process of developing the economy. This plan provides strategic information; the choice as to how to utilize this information belongs with the administrators and people of the county.