COMMUNITY HEALTH NEEDS ASSESSMENT

REYNOLDS MEMORIAL HOSPITAL, INC.

SEPTEMBER, 2014



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SUMMARY

The Patient Protection and Affordable Care Act (PPACA) is a landmark federal law enacted in 2010. PPACA overhauls much of the healthcare delivery system in the United States. Its goal is to provide health insurance to about 30 million Americans who currently do not have coverage.

Among the many regulations under PPACA is a new requirement for tax exempt hospitals. Specifically, hospitals exempt from taxation under IRS Code section 501©3 must conduct a Community Health Needs Assessment (CHNA) every three years.

This CHNA must define the community to be served, assess the needs of that community, prioritize its findings, and adopt a strategy to implement its findings. The hospital must also make the results of the assessment available to the general public. Hospitals are also encouraged to include the implementation of the CHNA in their budgeting process.

Hospitals that fail to perform a CHNA every three years may be fined by the IRS, and they may also face possible revocation of their tax exempt status.

This CHNA was prepared by Reynolds Memorial Hospital, Inc., and it focuses on its primary service area, Marshall County, WV. It also describes its secondary service area in the adjacent counties of northern WV and south central Ohio. The study also includes a description of health services available in the region, population trends, and the socio-economics of the community. Information for this CHNA was obtained from several authoritative sources, as well as interviews with community leaders, and a broad survey of the community.

This CHNA is divided into specific sections:

- 1) Service Area Description
- 2) Health Status Indicators
- 3) Available Resources
- 4) Community Participation Survey
- 5) Summary of Findings

The goal of the CHNA is to align the services available in the community and at this hospital with the actual health needs of the community. Aside from the community survey and population trends, the CHNA also looks at risk factors, health status indicators, and historical service utilization.

SERVICE AREA DESCRIPTION

Reynolds Memorial Hospital is located in Marshall County, WV, which is about one hour southwest of Pittsburgh Pennsylvania. Its primary service area is Marshall County, where about 70% of its patients reside. The secondary service areas of the hospital are the adjacent counties (Wetzel, WV, Ohio, WV, and Belmont, OH).

The 2013 county population estimate of Marshall County is about 32,500, per the US Census Bureau. Marshall County is part of the Wheeling, WV-OH metropolitan statistical area, which also includes Ohio County (WV) and Belmont County (OH). Wetzel County (WV) is a rural county outside of the metropolitan statistical area, but its statistics area is included here because it is a secondary service area of the hospital.

The population in this area has been declining for some time, due primarily to a loss of employment in the industrial sector of the economy. The area's economy has historically been built on heavy industry, such as coal, steel, chemical and petrochemicals. As employment in these industries has declined, so has the population. The employment rate is as follows:

	2013 Estimate	2010 Census	2000 Census	Change
Marshall County, WV Ohio County, WV Belmont, OH Wetzel, WV	32,459 43,727 69,571 16,204	33,107 44,443 70,400 16,583	35,519 47,427 70,226 17,693	(8.6) % (7.8) % (1.0) % (8.4) %
Total	161,961	164,533	170,865	(5.2) %

(See Appendix #1)

Additionally, the population of hospital's service area has a higher percentage of individuals over age 65, which significantly influences the type and quantity of health care services needed by the population.

	% Over age 03
Marshall County, WV	19.1 %
Ohio County, WV	19.2 %
Belmont, OH	18.5 %
Wetzel, WV	21.3 %
West Virginia	17.3 %
United States	14.1%

From a socio-economic status, the four county area is somewhat economically depressed. The US Census reports that 2013 median household income ranges from \$37,897 in Wetzel County to \$41,676 in Belmont County. This compares to \$40,400 for the State of West Virginia as a whole and \$53,046 for the United States.

Additionally, with the expansion of the Medicaid program under the Patient Protection and Affordable Care Act, one in four West Virginians health care is now sponsored by Medicaid.

From an economic standpoint, the future of the immediate area appears much brighter than the present or the past three decades. Recent developments in mineral extraction technology now allow companies to recover natural gas and oil reserves that were once thought unreachable. Marshall County sits on top of the Marcellus Shale formation, one of the largest oil and gas reserves on earth. In the last seven years, large international companies have invested over

\$2 billion in the county for land acquisition, gas drilling pads, and methane fracking (separation). As natural gas is extracted and separated locally, it will create several new downstream chemical and petrochemical uses. Many new companies will locate close to the source of these elements. Therefore, the local area potentially sits on the threshold of an industrial economic expansion on a scale that has never been experienced before.

The characteristics of the population – size, demographics, and socioeconomics – have great influence over the type of healthcare services needed in a particular area. This area is characterized by an elderly, shrinking, economically depressed population. However, the potential for re-industrialization of the area could re-vitalize its economy and its demographics quickly.

While population and demographics are important, another salient factor in determining the need for health care is the health status of the population. (See appendix #3)

HEALTH STATUS INDICATORS

Personal health habits and practices are one of the greatest predictors of the need for healthcare. A chronic smoker can expect respiratory problems, and the need for a pulmonary medicine. An obese person will be more predisposed to cardiac health issues, diabetes, and hypertension. A sedentary lifestyle will also lead to several of the same health issues.

The West Virginia Department of Health publishes a comprehensive assessment of health, by county, every ten years. The latest version is attached as Appendix #4. The State's epidemiological profile of Marshall County shows the following:

- 1) Alcohol consumption in Marshall County is a considerable problem. Binge drinking (defined as 5 or more drinks on the same occasion) is 25% greater in the county than for the state as a whole. The county ranks 7th (out of 55 counties) in this statistic. Interestingly, the mortality rate for alcohol-related consequences is below the state average.
- 2) Tobacco consumption in Marshall County is below the state average, but still is quite high. About 1 in 4 individuals in the county routinely smoke or use smokeless tobacco. This rate ranks Marshall County 37th in WV. Mortality from cigarette smoking also ranks lower than the state average at 70.7 deaths per 100,000 individuals, ranking it 43rd.
- 3) The reported use of illegal drugs is also a significant problem in the state and in the county. The attendant health consequences of drug use show up indirectly as other health problems in the population.
- 4) The State also monitors suicide ideation, homelessness, and domestic violence. These conditions contribute greatly to health care costs in Marshall County as well as everywhere else. However, the actual numbers of people affected are small, because of their incidence.

In addition, the <u>2012 WV State Health Profile</u> published by the Department of Health and Human Services reveals some startling demographic information. Each leading cause of death

in West Virginia is significantly higher in West Virginia when compared to the United States as a whole. These include:

	WV	US	Variance
Death Rate per 100,000 population (Appendix 5) 1) Diseases of the Heart 2) Cancer 3) Chronic Respiratory Disease 4) Accidents 5) Stroke 6) Diabetes 7) Alzheimer's Disease 8) Nephritis, Nephrosis 9) Influenza and Pneumonia	280.1 263.3 83.5 63.2 60.1 41.6 30.7 26.2 22.0 19.3	195.0 185.2 44.7 38.2 41.9 22.3 25.7 15.9 17.5	44% 42% 87% 65% 43% 87% 19% 65% 26%
(, , , , , , , , , , , , , , , , , , ,	22.0	17.5	26%

Most of the leading causes of death are the consequence of the poor lifestyle choices mentioned above. However, information on mortality is important towards defining the healthcare services needed in a particular community. Deaths from heart disease, cancer, respiratory conditions and stroke comprise 60% of the lives lost in West Virginia. Therefore, a healthcare organization should respond by offering services for diagnosis, treatment and patient education in cardiology, oncology, pulmonary medicine and neurology.

AVAILABLE RESOURCES

Reynolds Memorial Hospital is a short-term acute care hospital located in the northern panhandle of West Virginia. Since its inception in 1899, the hospital has continuously provided health care services in this community.

The orientation of the hospital is primary acute care. In the past 15 years, the hospital has expanded its service complement to include skilled nursing care, home health services and advanced diagnostic cardiac care. However, the hospital has not expanded its services into tertiary areas such as open-heart surgery, radiation oncology or neurosurgery because the population base served by the hospital cannot support high cost, lower volume services.

The majority of the hospital's services are provided to patients emanating from the immediate county in which the hospital resides, Marshall County. Secondary markets for the hospital include the three counties contiguous to Marshall County: Ohio County, WV, Wetzel County, WV, and Belmont County, OH.

The hospital resides in an area with a significant oversupply of hospitals and beds; consequently, it highly competitive for hospital care. According to American Hospital Association statistics, there are 7 hospitals operating 641 acute and 186 non-acute (skilled nursing, Long Term Acute Care, and psychiatric) beds. Based on a 2013 estimated population of 162,000 people, this is over 5.1 beds per 100,000 of population, which is twice the national rate.

Hospital	Staffed Beds	Non- Acute	Census
Barnesville Hospital	25	0	12
Belmont Community	66	32	Non-Reporting
East Ohio Regional	161	50	73
Ohio Valley Medical Center	185	60	91
Reynolds Memorial Hospital	90	20	41
Wetzel County Hospital	44	0	15
Wheeling Hospital	247	24	132
Total	827	186	364

The excess hospital bed capacity (see Appendix 6) in this area has led to the duplication of services, the proliferation of managed care organizations, and poor financial performance for the hospitals in the area as a group. The overcapacity, coupled with federal payment reform efforts and the explosion of information in the hands of consumers, will eventually lead to shrinkage and consolidation in the local healthcare market.

Mindful of these factors, the hospital must be able to provide services that are:

- a) targeted to the demographic makeup of Marshall County, its primary service area, and
- b) provided as efficiently as possible, recognizing resource limitations as well as the potential for redundancy in an overcrowded market, and
- c) meet or exceed patient expectations; if they cannot, they should not be provided.

Additionally, the PPACA promotes the concept of population health management through accountable care organizations (ACO). Under this concept, a group of related or aligned health providers and insurers (the ACO) takes the entire risk and responsibility for all health care needs of a population segment — a city, county, or other group. The ACO would have to coordinate preventative and primary care, acute inpatient care, post-acute care, pharmaceuticals, long-term care, etc.

This will make it extremely difficult for small, stand-alone hospitals to survive in the future. Therefore, the hospital must give serious consideration to alignment with a larger organization.

No discussion of healthcare resources is complete without an evaluation of the complement of physicians in the area. Doctors are the patient's first contact with, and the focal point of the healthcare system. Almost all healthcare services provided begin with an order from a physician.

Hospitals have historically been the main group to recruit physicians to a given community. However, large physician practice groups have formed in the past two decades, and they have also been instrumental in bringing physicians to a given community.

In order to best serve the community, there must be the right mix of physicians appropriate to the community's health needs. This means not only the appropriate number of physicians, but also the appropriate mix of physician specialties. If there is a shortage of physicians in a community, residents will undoubtedly seek services elsewhere. If there are too many

physicians in a community, economics will cause discontent that will eventually drive away qualified practitioners.

There are many ways to evaluate medical staff composition. The first recognized evaluation came from the Graduate Medical Education National Advisory Council (GMENAC.) GMENAC developed suggested physician to population ratios around 1985. However, the dynamics of physician supply and demand have changed dramatically since 1985 with the growth of managed care (HMOs, PPOs, point of care plans, etc.). The Dartmouth Atlas of Healthcare began in 1998, and it analyzed variances in physician supply in the US, as well as variances in utilization rates for certain medical and surgical procedures. Several other independent companies also evaluate physician supply. This data should be used as a guideline, not the definitive evaluation of need. Evaluating physician supply also must take into account local resources, historic utilization trends, and special needs groups in the community, and involve discussions with current physicians in the community. Based only on GMENAC, a sample of the current physician supply for Marshall Count appears as follows:

BENCHMARKS FOR PHYSICIAN SUPPLY Population needed to support a particular specialty

Source: GMENAC

Physician		Need for		
Specialty	Rate	Marshall Co.	Supply	Need
Anesthesiology	15,332	2.1	2	
Cardiology	31,420	1.1	2	
Emergency Medicine	18,000	1.8	4	
Gastroenterology	37,000	.9	-0-	1
Neurology	44,000	.7	-0-	1
Oncology	27,000	1.2	-0-	1
Orthopedics	16,130	2.0	-0-	2
Primary Care	3,461	9.4	11	

COMMUNITY PARTICIPATION

In connection with this Community Health Needs Assessment, Reynolds Memorial Hospital conducted an extensive survey of its community in the spring and summer of 2014. Surveys were mailed to 15,000 homes in the local community, and over 1,100 of them were returned. The community was surveyed not only about the hospital's services, but also about their perception of the most important social problems, healthcare issues, and barriers to obtaining health care. The questions were complied and asked after gaining insight from hospital executives, physicians, members of the Board and Directors and the community. Participants were asked to rank their findings in order of importance to not only themselves, but their family. The results are reported in Appendix 7, and are summarized below:

- 1) Most important social problems in our area:
 - a. Drug abuse
 - b. Lack of Jobs

(Access to medical care and housing were last of 6 choices)

- 2) Major health issues facing community:
 - a. Obesity
 - b. Drug abuse
 - c. Heart Disease
- 3) Who is best able to solve these problems?
 - a. Local physicians
 - b. Local hospitals
 - c. Local Health Department
- 4) Barriers to receiving health care?
 - a. 80% reported none
 - b. 6% lack of transportation
 - c. 5% services not offered
 - d. 4% no medical insurance
- 5) What healthcare services are lacking in our community?
 - a. Assisted Living
- 45%
- b. Behavioral Health
- 37%
- c. Cancer Care
- 32%
- d. Long Term Care
- 31%
- 6) What physician specialties are needed in the community?
 - a. Primary Care
 - b. Oncology
 - c. Ob/Gyn
 - d. Orthopedics
- 7) For immediate health needs, where do you go?
 - a. Family doctor
 - b. Emergency Room
- 8) How can Reynolds Memorial Hospital help with these issues?
 - a. Partner with another organization
 - b. Offer community programs
 - c. Offer workshops

SUMMARY OF FINDINGS

The results of the hospital's community survey reinforce many of the same findings as those based on the demographic profile of the community. Those include:

1) The need for enhanced healthcare services in the specialties of oncology, pulmonary medicine and neurology.

- 2) Partnering with other community organizations, such as law enforcement and the Marshall County Health Department to combat drug abuse.
- 3) Partnering with other health providers to bring some high cost, low volume tertiary care to the community.
- 4) Offering education to the community on health related issues.
- 5) Promoting Cardiology and Primary Care physicians to the community.

This Community Health Needs Assessment has been presented to the hospital's Board of Directors, and its results will be incorporated in future long range plans of the organization.

LONG RANGE PLANNING

The hospital will implement programming and educational sessions with the help of the Marshall County, WV Health Department and the Marshall County, WV Drug Task Force. These programs will be offered as a direct result of the findings in the Community Health Needs Assessment.

Appendix 1:

U.S. Census Bureau



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Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see http://www.census.gov/prod/cen2010/doc/dpsf.pdf.

Geography: Marshall County, West Virginia

Subject	Number	Percent
EX AND AGE	33,107	100.0
Total population	1,742	5.3
Under 5 years	1,854	5.6
5 to 9 years	1,954	5.9
10 to 14 years	2,088	6.3
15 to 19 years	1,639	5.0
20 to 24 years	1,677	5.1
25 to 29 years	1,811	5.5
30 to 34 years	1,967	5.9
35 to 39 years	2,153	6.5
40 to 44 years	2,340	7.1
45 to 49 years	2,738	8.3
50 to 54 years	2,758	8.3
55 to 59 years	2,572	7.8
60 to 64 years	1,707	5.2
65 to 69 years	1,372	4.1
70 to 74 years	1,039	3.1
75 to 79 years	957	2.9
80 to 84 years 85 years and over	739	2.2
Median age (years)	44.3	(X
16 years and over	27,125	81.9
18 years and over	26,215	79.2
21 years and over	25,139	75.9
62 years and over	7,329	22.1
65 years and over	5,814	17.0
Male population	16,154	48.
Under 5 years	862	2.
5 to 9 years	934	2.
10 to 14 years	966	2.
15 to 19 years	1,069	3.
20 to 24 years	872	2.
25 to 29 years	839	2.
30 to 34 years	916	2.
35 to 39 years	1,017	3.
40 to 44 years	1,080	3.
45 to 49 years	1,135	3
50 to 54 years	1,350	4
55 to 59 years	1,364	4
60 to 64 years	1,248	3
65 to 69 years	836	2
70 to 74 years	589	1

U.S. Census Bureau



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Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see http://www.census.gov/prod/cen2010/doc/dpsf.pdf.

Geography: Ohio County, West Virginia

Subject	Number	Percent
EX AND AGE		
Total population	44,443	100.0
Under 5 years	2,246	5.1
5 to 9 years	2,238	5.0
10 to 14 years	2,446	5.5
15 to 19 years	3,236	7.3
20 lo 24 years	3,206	7.3
25 to 29 years	2,360	5,
30 to 34 years	2,332	5.
35 to 39 years	2,397	5.
40 to 44 years	2,516	5.
45 to 49 years	3,062	6.
50 to 54 years	3,614	8.
55 to 59 years	3,529	7.
60 to 64 years	3,048	6
65 to 69 years	2,102	4
70 to 74 years	1,771	4
75 to 79 years	1,548	3
80 to 84 years	1,427	3
85 years and over	1,365	3
Median age (years)	43,5	(×
45	26 008	83
16 years and over	36,998 35,978	
18 years and over	35,978	81
18 years and over 21 years and over	35,978 33,480	81 75
18 years and over 21 years and over 62 years and over	35,978 33,480 9,930	81 75 22
18 years and over 21 years and over	35,978 33,480	81 75 22
18 years and over 21 years and over 62 years and over 65 years and over	35,978 33,480 9,930	81 75 22 18
18 years and over 21 years and over 62 years and over 65 years and over	35,978 33,480 9,930 8,213	81 75 22 18
18 years and over 21 years and over 62 years and over 65 years and over Male population	35,978 33,480 9,930 8,213	81 75 22 18 47
18 years and over 21 years and over 62 years and over 65 years and over Male population Under 5 years	35,978 33,480 9,930 8,213 21,165 1,152	81 75 22 18 47 2
18 years and over 21 years and over 62 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123	81 75 22 18 47 2
18 years and over 21 years and over 62 years and over 65 years and over Male population Under 5 years 5 to 9 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252	81 75 22 18 47
18 years and over 21 years and over 62 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565	81 75 22 18 47
18 years and over 21 years and over 62 years and over 65 years and over Male population Under 5 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568	81 75 22 18 47 2 2 2 3
18 years and over 21 years and over 62 years and over 65 years and over Male population Under 5 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years 30 to 34 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568 1,235	81 75 22 18 47 2 2 2 3
18 years and over 21 years and over 62 years and over 65 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years 20 to 24 years 20 to 24 years 30 to 34 years 35 to 39 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568 1,235	81 75 22 18 47 2 2 2 3
18 years and over 21 years and over 62 years and over 65 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568 1,235 1,190 1,157	81 75 22 18 47 2 2 2 3
18 years and over 21 years and over 62 years and over 65 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568 1,235 1,190 1,157 1,234	81 75 22 18 47 2 2 2 2 3
18 years and over 21 years and over 62 years and over 65 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years 30 to 34 years 30 to 34 years 40 to 44 years 45 to 49 years 50 to 54 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568 1,235 1,190 1,157 1,234 1,475	81 75 22 18 47 2 2 2 2 3 3 3 2 2
18 years and over 21 years and over 62 years and over 65 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years 50 to 54 years 50 to 55 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568 1,235 1,190 1,157 1,234 1,475 1,763	81 75 22 18 47 2 2 2 3 3 2 2 2 2 2 3
18 years and over 21 years and over 62 years and over 65 years and over 65 years and over Male population Under 5 years 5 to 9 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years 50 to 54 years	35,978 33,480 9,930 8,213 21,165 1,152 1,123 1,252 1,565 1,568 1,235 1,190 1,157 1,234 1,475 1,763 1,703	83 81 75 22 18 47 2 2 2 3 3 3 2 2 2 2 3

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U.S. Census Bureau

FactFinder

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Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see http://www.census.gov/prod/cen2010/doc/dpsf.pdf.

Geography: Belmont County, Ohio

	Subject	Number	Percent
SEX AND AGE		Wa 100	100.0
Total population		70,400	5.1
Under 5 years		3,575	5.1
5 to 9 years		3,690	5.6
10 to 14 years		3,916	6.2
15 to 19 years		4,368	
20 to 24 years		4,170	5.9
25 to 29 years		4,225	6.0
30 to 34 years		3,972	5.6
35 to 39 years		4,324	6.1
40 to 44 years		4,414	6.3
45 to 49 years		5,177	7.4
50 to 54 years		5,880	8.4
55 to 59 years		5,519	7.8
60 to 64 years		4,751	6.7
65 to 69 years	and the second s	3,286	4.7
70 to 74 years		2,882	4.1
75 to 79 years		2,234	3.2
80 to 84 years	3 4 3 4 4 4 4	2,029	2.9
85 years and over		1,988	2.8
Median age (years		43.4	(X)
16 years and over		58,360	82.9
18 years and over		56,545	80.3
21 years and over		54,061	76.8
62 years and over		15,167	21.5
65 years and over		12,419	17.6
Male population	and the second second second	35,492	50.4
Under 5 years		1,811	2.6
	Contract to the second	1,941	2.8
5 to 9 years		1,993	2.8
10 to 14 years		2,338	3.3
15 to 19 years		2,434	3.5
20 to 24 years		2,399	3.4
25 to 29 years	and the second second of the	2,190	3.1
30 to 34 years		2,366	3.4
35 to 39 years	National Control of the Control of t	2,290	3.3
40 to 44 years		2,598	3.7
45 to 49 years		2,931	4.3
50 to 54 years		2,735	3.
55 to 59 years		2,755	3.
60 to 64 years	Control of the second		2.
65 to 69 years		1,567	1.
70 to 74 years		1,246	L

U.S. Census Bureau



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Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

. NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see http://www.census.gov/prod/cen2010/doc/dpsf.pdf.

Geography: Wetzel County, West Virginia

Subject	Number	Percent
EX AND AGE		
Total population	16,583	100.0
Under 5 years	848	5.1
5 to 9 years	913	5.5
10 to 14 years	1,027	6.2
15 to 19 years	1,075	6.5
20 to 24 years	797	4.8
25 to 29 years	802	4.8
30 to 34 years	823	5.0
35 to 39 years	968	5.8
40 to 44 years	1,095	6.6
45 to 49 years	1,267	7.0
50 to 54 years	1,295	7.8
55 to 59 years	1,263	7.0
60 to 64 years	1,171	7.
65 to 69 years	963	5.4
70 to 74 years	843	5.
75 to 79 years	637	3.
80 to 84 years	450	2.
85 years and over	346	2.
Median age (years)	44.8	(X
16 years and over	13,575	81.
18 years and over	13,119	79.
21 years and over	12,547	75.
62 years and over	3,948	23
65 years and over	3,239	19
Male population	8,139	49
Under 5 years	448	2
5 to 9 years	470	2
10 to 14 years	537	3
15 to 19 years	559	3
20 to 24 years	391	2
	410	2
		2
25 to 29 years	395	
25 to 29 years 30 to 34 years	395 488	
25 to 29 years 30 to 34 years 35 to 39 years	1	
25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years	488	2
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25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years 50 to 54 years	488 543 612 654 617	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Appendix 2:

WV Medicaid Beneficiary Populations

As of December 2012

Medicaid Type	Population	%
SSI	128,903	39%
TANF	193,006	58%
Foster	12,260	4%
Total	334,169	100%

Estimated July 2014

Medicaid Type	Population	%
SSI	130,000	28%
TANF	194,000	41%
Foster	13,000	3%
Expanded	135,000	29%
Total	472,000	100%

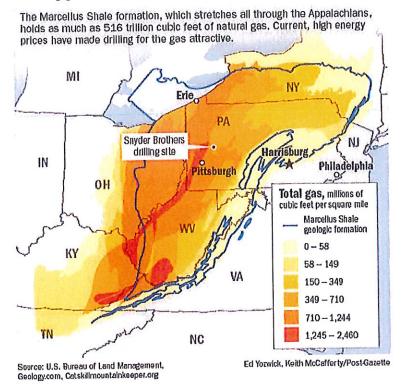
Appendix 3:

Site Builder

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Untapped riches



Appendix 4:

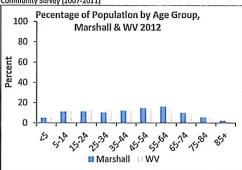
Prepared by the WV Department of Health and Human Resources Bureau for Behavioral Health and Health Facilities

MARSHALL COUNTY



		Marshall	WV
Popula	tion	32,674	1,855,413
	White	97.9%	94.0%
Race	Black	0.6%	3.5%
	Other	1.5%	2.5%
Median	Median age		41.7
Labor force* 53.		53.8%	54.9%
Median household income*		\$37,313	\$39,550
Income below poverty level*		16.9%	17.5%
High school graduate or higher*		86.6%	82.6%
Civilian	veterans*	13.2%	11.4%

Source: US Census Bureau, 2012 population estimates, *American Community Survey (2007-2011)



Population by Age Group 2012				
	Marshall		W	V
Age	#	%	#	%
<5	1,711	5.2%	103,071	5.6%
5-14	3,706	11.3%	214,618	11.6%
15-24	3,724	11.4%	237,491	12.8%
25-34	3,420	10.5%	220,220	11.9%
35-44	3,973	12.2%	232,341	12.5%
45-54	4,797	14.7%	263,998	14.2%
55-64	5,369	16.4%	271,725	14.6%
65-74	3,320	10.2%	176,314	9.5%
75-84	1,846	5.6%	97,902	5.3%
85+	808	2.5%	37,733	2.0%
Source: US Census Bureau, 2012 population estimates				

Marshall County is located in the northern panhandle of West Virginia. According the U.S. Census (2012) Marshall County residents constitute 1.8% of the population of the state.

February 2014

Adult Behavioral Health Risk Factors: 2007-2011

Indicator	Marshall	wv	Rank in WV*
Fair/Poor Health	19.6%	23.6%	43
No Health Insurance (ages 18-64)	22.3%	21.7%	31
No Leisure Time Physical Activity	31.4%	32.1%	31
Obesity	29.0%	31.8%	46
Diabetes	9.8%	11.8%	44
Cardiovascular Disease	11.9%	12.6%	38
Hypertension (2003, 2005, 2007, 2009, 2011)	32.0%	34.6%	44
High Cholesterol (2003, 2005, 2007, 2009, 2011)	46.6%	39.9%	11
Current Asthma	9.1%	8.8%	30
Disability	20.5%**	28.4%	52
Arthritis (2005, 2007, 2009- 2011)	42.1% [†]	35.2%	10

Source: WV Health Statistics Center, Behavioral Risk Factor Surveillance System.

*There are 55 counties in West Virginia; 1st highest rate and 55th lowest rate. Significance: † Indicates county was significant higher than state. †† Indicates state was significant higher than county. § Indicates unreliable prevalence estimate – use caution when reporting and interpreting.

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Alcohol Consumption

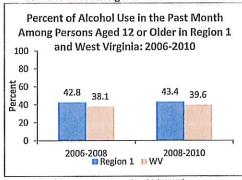
Alcohol Use Among Adults

Indicator	Marshall	wv	Rank in WV*
Binge drinking	11.6%	9.4%	7

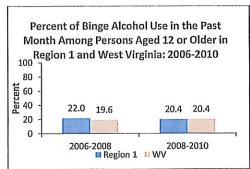
Source: WV Health Statistics Center, Behavioral Risk Factor Surveillance System.

System.
*There are 55 counties in West Virginia; 1th highest rate and 55th fowest rate.
Significance: † Indicates county was significant higher than state. †† Indicates state was significant higher than county. § Indicates unreliable prevalence estimate - use caution when reporting and interpreting.

Alcohol Use Among Persons 12 and Older



Source: National Survey on Drug Use and Health (NSDUH)
Note: Any use of alcohol in the past month. 2006-2008 & 2008-2011 data
was revised March 2012. Region 1 is made up of the following counties:
Brooke, Hancock, Marshall, Ohio, and Wetzel.



Source: NSDUH

Note: Binge Alcohol Use is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days. 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.

Underage Drinking (Those Aged 12-20)

Alcohol Use in the Past Month Among Persons Aged 12 to 20 in Region 1 and WV: 2006-2010

	2006-2008	2008-2010
Region 1	26.3%	24.0%
West Virginia	25.3%	23.4%

Binge Alcohol Use in the Past Month Among Persons Aged 12 to 20 in Region 1 and WV: 2006-2010

	2006-2008	2008-2010
Region 1	20.1%	16.8%
West Virginia	17.8%	15.9%

Source: NSDUH

Note: See pervious definitions for alcohol use and binge drinking among persons 12 and older. See previous definition of Region 1.

Alcohol Risk & Protective Factors

Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week Among Persons Aged 12 or Older in Region 1 and WV: 2006-2010

	2006-2008	2008-2010	
Region 1	41.4%	42.1%	
West Virginia	42.0%	43.3%	

Alcohol Dependence or Abuse in the Past Year Among Persons Aged 12 or Older in Region 1 and WV: 2006-2010

	2006-2008	2008-2010
Region 1	7.0%	6.1%
West Virginia	6.4%	6.1%

Alcohol Dependence in the Past Year Among Persons Aged 12 or Older in Region 1 and WV: 2006-2010

	2006-2008	2008-2010
Region 1	3.5%	3.3%
West Virginia	3.2%	3.2%

Needing But Not Receiving Treatment for Alcohol Use in the Past Year Among Persons Aged 12 or Older in Region 1 and WV: 2006-2010

	2006-2008	2008-2010
Region 1	6.6%	5.6%
West Virginia	6.0%	5.6%

Source: NSDUH

Note: Dependence or abuse Is based on definitions found in the 4th edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). Needing But Not Receiving Treatment refers to respondents classified as needing treatment for alcohol, but not receiving treatment for an alcohol problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities (inpatient or outpatient), hospitals (inpatient only), and mental health centers). 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.

Alcohol Related Consequences

2011 Morbidity Rates	per 10,000	Dischar	ges
	Marshall	wv	Rank in WV*
Alcohol Related Diagnosis	362.8	407.9	21
Alcohol Dependence Diagnosis	188.3	236.6	27

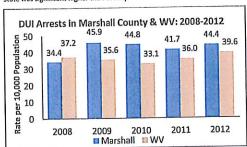
Source: WV Health Care Authority

*There are 55 countles in West Virginia; 1st highest rate and 55th lowest rate.

2006-2010 Mortality Ra	tes per 100,	000 pop	ulation
	Marshall	wv	Rank in WV*
Chronic Liver-Cirrhosis	12.0	13.4	31

Source: WV Health Statistics Center, Vital Statistics System

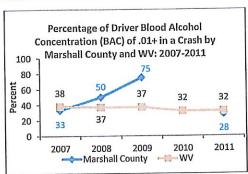
*There are 55 countles in West Virginia; 1st highest rate and 55th lowest rate. Significance: † Indicates county was significant higher than state. †† Indicates state was significant higher than county.



DUI Arrests in N	/arshall	County	and WV	/: 2008-2	2012
	2008	2009	2010	2011	2012
	M	arshall			
Number of DUI arrests	114	152	148	137	145
DUI rate per 10,000 population	34.4	45.9	44.8	41.7	44.4
		WV			
Number of DUI arrests	6,842	6,587	6,134	6,680	7,355
DUI rate per 10,000 population	37.2	35.6	33.1	36.0	39.6

Source: WV State Police CIB Section

Note: The DUI arrest data should be interpreted with caution due to the fact that not all law enforcement agencies have reported their DUI arrests (approximately 200 agencies are missing from this dataset).



Source: National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS)

Note: NHTSA estimates alcohol involvement when alcohol test results are unknown. No fatal crashes were reported in 2010 in Marshall County.

Tobacco Consumption

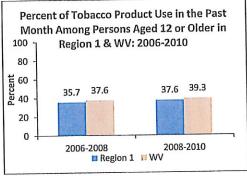
Tobacco Use Among Adults

Indicator	Marshall	wv	Rank in WV*	
Cigarette smoking	24.1%	26.9%	37	

Source: WV Health Statistics Center, Behavloral Risk Factor Surveillance

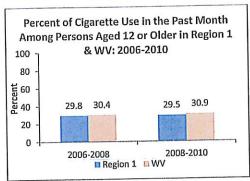
System.
*There are 55 counties in West Virginia; 1th highest rate and 55th lowest rate.
Significance: † indicates county was significant higher than state. †† indicates state was significant higher than county.

Tobacco Use Among Persons 12 and Older



Source: NSDUH

Note: Tobacco products include cigarettes, smokeless tobacco (i.e., chewing tobacco or snuff), clgars, or pipe tobacco. 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.



Source: NSDUH

Note: Any use of cigarettes in the past month. 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.

Tobacco Risk & Protective Factors

Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day Among Persons Aged 12 or Older in Region 1 & WV: 2006-2010

	2006-2008	2008-2010
Region 1	67.6%	66.4%
West Virginia	68.1%	66.0%

Source: NSDUH

Note: 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.



Tobacco Consequences

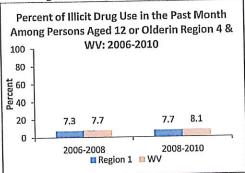
2006-2010 Mortality Ra	tes per 100,	000 pop	ulation
	Marshall	wv	Rank in WV*
Lung/Bronchus/Trachea Cancer	70.7	83.7	43
Chronic Obstructive Pulmonary Disease	85.1	76.7	20
Cardiovascular Disease	429.7	367.3	11

Source: WV Health Statistics Center, Vital Statistics System
*There are 55 countles in West Virginia; 1th highest rate and 55th lowest rate.
Significance: † Indicates county was significant higher than state. †† Indicates state was significant higher than county.



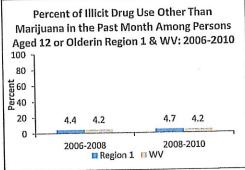
Drug Consumption

Drug Use Among Persons 12 and Older



Source: NSDUH

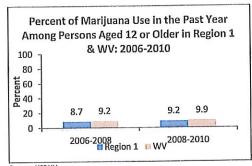
Note: Illicit Drugs Include marijuana/hashish, cocalne (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically, including data from original methamphetamine questions but not including new methamphetamine items added in 2005 and 2006. The 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.



Source: NSDUH

Note: Illicit Drugs Other Than Marijuana includes cocalne (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically, including data from original methamphetamine questions but not including new methamphetamine Items added in 2005 and

2006. The 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.



Source: NSDUH Note: 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.

Marijuana Use in the Past Month Among Persons Aged 12 or Older in Region 1 and West Virginia: 2006-2010

	2006-2008	2008-2010	
Region 1	5.1%	5.1%	
West Virginia	5.4%	5.8%	

Source: NSDUH

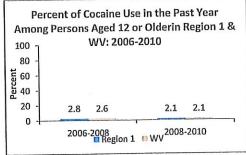
Note 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.

First Use of Marijuana Among Persons Aged 12 or Older in Region 1 and West Virginia: 2006-2010

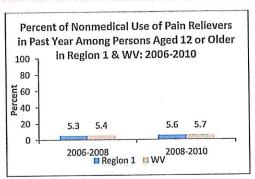
	2006-2008	2008-2010	
Region 1	1.3%	1.3%	
West Virginia	1.2%	1.3%	

Source: NSDUH

Note: Average annual marijuana initiation rate = 100 * { $[X1 \div (0.5 * X1 + X2)]$ ÷ 2), where X1 is the number of marijuana initiates in the past 24 months and X2 is the number of persons who never used marijuana. Both of the computation components, X1 and X2, are based on a survey-weighted hierarchical Bayes estimation approach. The age group is based on a respondent's age at the time of the interview, not his or her age at first use. 2005-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.



Source: NSDUH Note: 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.



Source: NSDUH

Note: 2006-2008 & 2008-2011 data was revised March 2012. See previous

Drug Risk & Protective Factors

Perceptions of Great Risk of Smoking Marijuana Once a Month Among Persons Aged 12 or Older in Region 1 & WV: 2006-2010

	2006-2008	2008-2010
Region 1	45.0%	41.6%
West Virginia	44.3%	42.0%

Illicit Drug Dependence or Abuse in the Past Year Among Persons Aged 12 or Older in Region 1 & WV: 2006-2010

	2006-2008	2008-2010
Region 1	3.2%	2.9%
West Virginia	2.9%	2.9%

Illicit Drug Dependence in the Past Year Among Persons Aged 12 or Older in Region 1 & WV: 2006-2010

2008-2010 2006-20 2.4% 2.3% Region 1 2.3% 2.1% West Virginia

Needing But Not Receiving Treatment for Illicit Drug Use in the Past Year Among Persons Aged 12 or Older in Region 1 & WV: 2006-2010

	2006-2008	2008-2010
Region 1	2.8%	2.5%
West Virginia	2.6%	2.6%

Source: NSDUH

Note: Illicit Drugs Include marijuana/hashish, cocalne (including crack), heroin, hallucinogens, inhalants, or prescription-type psychotherapeutics used nonmedically, including data from original methamphetamine questions but not including new methamphetamine items added in 2005 and 2006. Dependence or abuse is based on definitions found in the 4th edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). Needing But Not Receiving Treatment refers to respondents classified as needing treatment for illicit drugs, but not receiving treatment for an Illicit drug problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities [inpatient or outpatient], hospitals [inpatient only], and mental health centers). 2006-2008 & 2008-2011 data was revised March 2012. See previous definition of Region 1.

Appendix5:

Demographics

Geography & Population

West Virginia's population is increasing and growing older, a combination that holds important implications for healthcare and public health infrastructure. The entire population increased to 1,855,364 as of July 2011 [1], a 3 percent increase from 2000 [2]. The population increase varied by county, however, with counties such as Berkeley seeing a steady population growth (78 percent from 1990 to 2011 due to its proximity to Washington, D.C.), and other counties such as McDowell experiencing a population decrease (31 percent from 1990 to 2011). Table 1 provides population change data from 1990 to 2011 for each county in West Virginia [3, 4].

The largest cities in West Virginia are Charleston (population 51,177), Huntington (population 49,253) and Parkersburg (population 31,557).

Rural West Virginia

The majority of West Virginia's population remains rural with a

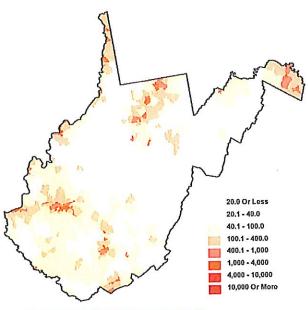


Figure 1, Population density per square mile Source: U.S. Census 2010 data, Communitycommons.org

population density of less than 100 persons per square mile (see Figure 1) and an average of 77.1 persons per square mile throughout the state's 24,038 square miles [1]. Rural residents of West Virginia face unique challenges to health and wellness, such as greater distances between people and resources, lack of access to healthcare facilities and infrastructures that

support healthy behaviors.

Aging Population

West Virginia's population is among the oldest in the country and the median age of West Virginia residents is rising, increasing from 38.9 in 2000 [2] to 41.3 in 2010 [5]. According to the 2010 U.S. Census, West Virginia was one of only seven states with a median age above 40 and was surpassed only by

Maine and Vermont with median ages of 42.7 and 41.5, respectively [5]. Such an aging population requires greater emphasis on providing services and resources for elderly residents.

Age Distribution

West Virginia's population is changing (Figure 2). From 2000 to 2010 the state's percentage of youth aged 0 to 14 decreased by four percent, while the population ages 35 to 44 fell 13 percent [2, 5]. At the same time, the population ages 45 and

Geographic Area	1990 Census	July 1, 2011 Estimate	Percent Change	Geographic Area	1990 Census	July 1, 2011 Estimate	Percent Change
West Virginia	1,793,477	1,855,364	3%	Mercer	64,980	62,465	-4%
Barbour	15,699	16,520	5%	Mineral	26,697	28,192	6%
Berkeley	59,253	105,750	78%	Mingo	33,739	26,563	-21%
Boone	25,870	24,444	-6%	Monongalia	75,509	98,528	30%
Braxton	12,998	14,485	11%	Monroe	12,406	13,534	9%
Brooke	26,992	23,844	-12%	Morgan	12,128	17,535	45%
Cabell	96,827	96,653	0%	Nicholas	26,775	26,268	-2%
Calhoun	7,885	7,652	-3%	Ohio	50,871	44,246	-13%
Clay	9,983	9,357	-6%	Pendleton	8,054	7,673	-5%
Doddridge	6,994	8,171	17%	Pleasants	7,546	7,611	1%
Fayette	47,952	45,699	-5%	Pocahontas	9,008	8,786	-2%
Gilmer	7,669	8,705	14%	Preston	29,037	33,723	16%
Grant	10,428	11,891	14%	Putnam	42,835	56,008	31%
Greenbrier	34,693	35,800	3%	Raleigh	76,819	79,127	3%
Hampshire	16,498	23,812	44%	Randolph	27,803	29,465	6%
Hancock	35,233	30,571	-13%	Ritchie	10,233	10,295	1%
Hardy	10,977	13,912	27%	Roane	15,120	14,858	-2%
Harrison	69,371	69,436	0%	Summers	14,204	13,867	-2%
Jackson	25,938	29,241	13%	Taylor	15,144	16,916	12%
Jefferson	35,926	54,225	51%	Tucker	7,728	7,021	-9%
Kanawha	20,7619	192,315	-7%	Tyler	9,796	9,121	-7%
Lewis	17,223	16,416	-5%	Upshur	22,867	24,322	6%
Lincoln	21,382	21,550	1%	Wayne	41,636	42,126	1%
Logan	43,032	36,457	-15%	Webster	10,729	9,143	-15%
McDowell	35,233	21,729	-38%	Wetzel	19,258	16,351	-15%
Marion	57,249	56,586	-1%	Wirt	5,192	5,762	11%
Marshall	37,356	32,800	-12%	Wood	86,915	87,025	0%
Mason	25,178	27,298	8%	Wyoming	28,990	23,738	-18%

Table 1. West Virginia population by county Source: U.S. Census data, 1990 and 2011

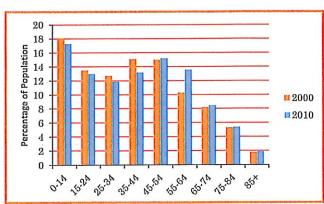


Figure 2. Age distribution of West Virginia population Source: U.S. Census data, 2000 and 2010

older has risen, with the most dramatic increase in the 55.64 age group (32 percent).

Race/Ethnicity

West Virginia's population has become slightly more diverse; as illustrated in Table 2, 95.3 percent of the

population is white, a slight decrease from 95.9 percent in 2000. The black or African American population, however, has increased by 20 percent and now makes up 4.2 percent of the state's population. The state's Hispanic or

Latino population has also experienced substantial growth since 2000, increasing by 71 percent to make up 1.2 percent of the population.

In 2011, 1.3 percent of the population was foreign born, and 2.3 percent of the population did not speak English at home [1]. This diversity brings new challenges for public health, including language barrier issues. As more residents are non-native English speakers, it becomes necessary to have materials and staff to communicate in languages other than English.

Race alone or in combination with one	20	00	2010		
or more races*	Population	Percentage	Population	Percentage	
White	1,733,390	95.9	1,765,642	95.3	
Black or African American	62,817	3.5	76,945	4.2	
American Indian and Alaska Native	10,644	0.6	13,314	0.7	
Asian	11,873	0.7	16,465	0.9	
Native Hawaiian and Other Pacific Islander	887	0.0	1,254	0.1	
Other Race	5,579	0.3	8,164	0.4	
Hispanic Origin					
Hispanic or Latino	12,279	0.7	22,268	1.2	
Not Hispanic or Latino	1.796.065	99.3	1.830.726	98.8	

Not Hispanic or Latino 1,796,065 99.3 1,830,726 98.8

Table 2. West Virginia Population by Race/Ethnicity Source: U.S. Census data, 2000 and 2010

*The six numbers may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may report more than one race.

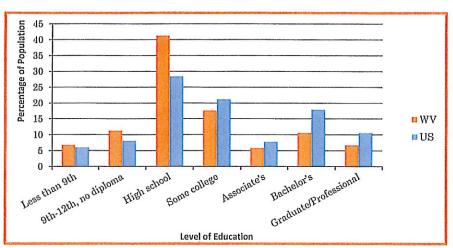


Figure 3. Highest level of education attained by West Virginia population Source: U.S. Census data, 2010

Education

Education is an important factor for

gauging health behaviors, as persons with less education are

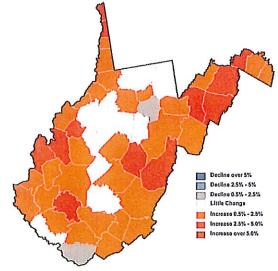


Figure 4. Unemployment change from 2000 to 2010 Source: U.S. Census data, Communityconumons.org

more likely to smoke and to be diagnosed with a chronic condition such as diabetes. Adults who attained education beyond a high school degree were much less likely to be smokers [6].

West Virginia's population has a large disparity in level of education. As shown in Figure 3, the highest education level achieved by the majority of the population is a high school diploma (41.3 percent). Compared to this, a significantly small percentage of the population has completed either an associate's degree (5.8 percent) or a

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bachelor's degree (10.6 percent). These numbers

are especially low when compared to the United

States population, of which 28.4 percent have

County	Percentag	e in Poverty	Median Household Income	County	Median Household	Percentage	in Poverty
	2000	2010	2010		Income 2010	2000	2010
Barbour	19,4	18.2	\$31,634	Mineral	\$38,279	13.8	16.7
Berkeley	10.4	127	\$50,923	Mingo	\$31,915	24.4	23.7
Boone	18,4	18.9	\$38,126	Monongalia	\$42,247	14.2	22.2
Braxton	20.4	23.6	\$32.606	Monroe	\$34,637	16.3	17.9
Brooke	10.4	14.7	\$38,197	Morgan	\$40,636	10.8	13.5
Cabell	15.4	23.3	\$36,274	Nicholas	\$35,945	18.7	18.6
Calhoun	21.2	24.2	\$29,084	Ohio	\$38,997	13.2	16.6
Clay	24.2	26	\$31,232	Pendleton	\$36,997	12.2	15.3
Doddridge	16.6	20.6	\$34,444	Plensants	\$40,416	12	15.1
Fayette	20.6	22.6	\$30,856	Pocahontas	\$31,289	16.5	19.9
Gilmer	22,2	29.1	\$31,558	Preston	\$42,529	15.2	15.8
Grant	13,3	17.6	\$36,487	Putnam	\$52,912	8.6	10.4
Greenbrier	15.9	20.8	\$35,456	Raleigh	\$37,915	17.2	18
Hampshire	13.8	18.4	\$33,991	Randolph	\$35,176	16.7	18.7
Hancock	9.7	13.6	\$38,501	Ritchie	\$35,170	16.3	19.9
Hardy	12.1	16.3	\$37,002	Ronne	\$31,362	19.5	23.2
Harrison	15.3	17.3	\$40,441	Summers	\$29,261	22,3	23
Jackson	14.1	20.2	\$38,600	Taylor	\$36,846	17.8	20.3
Jefferson	8.8	11.1	\$63,156	Tucker	\$33,915	14.3	19.2
Kanawha	13	14.8	\$43,110	Tyler	\$36,122	15	16.2
Lewis	17.2	19.2	\$34,734	Upshur	\$35,893	18,9	21.9
Lincoln	22.2	24.2	\$34,119	Wayne	\$36,360	16.9	20.2
Logan	21.8	22.3	\$33,202	Webster	\$29,083	26.7	26.5
McDowell	32.1	33.6	\$24,133	Wetzel	\$36,390	15.9	18.3
Marion	14.4	16,8	\$38,856	Wirt	\$36,037	17.6	22.1
Marshall	13.4	17	\$37,206	Wood	\$39,456	13.2	15.5
Mason	16.3	18.4	\$36,279	Wyoming	\$35,872	22.2	20
Mercer	17.8	21.6	\$32,366				CONTRACTOR OF THE PARTY OF THE

Table 3. West Virginia percent in poverty by county Source: U.S. Census data, 2000 and 2010

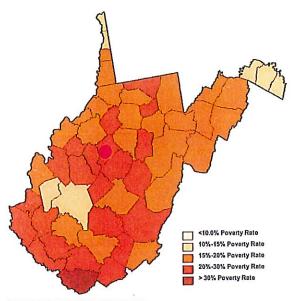


Figure 5. Percent living in poverty Source: SAIP Poverty Estimates, 2010, Communitycommons.org

earned a high school diploma; 7.8 percent and 17.9 percent have an associate's degree and a bachelor's degree respectively.

Income

Income is another factor that directly relates to the health of West Virginia residents, as persons with lower income often have less access to necessary healthcare. In addition, persons with lower income are more likely to engage in negative health behaviors. For example,

the highest smoking prevalence in West Virginia is among those earning less than \$15,000 per year, while the lowest prevalence is among those earning \$75,000 or more per year. [6] During 2006-2010, the median household income for West Virginia's 740,874 households was \$38,380 and the per capita income was \$21,232. The percentage of the population living below the poverty line was 17.4 percent [1].

Disability

In 2011, 18.9 percent of West Virginia's population reported some type of disability, compared to 12.1 percent of the United States population. Among West Virginia's population aged 18-64, 17.3 percent reported a disability, while 43.5 percent of the population over 65 reported some type of disability. Nationally, 10.2 percent of the population aged 18-64 reported a disability, and

		West Virgin	ıia -		
Subject	Total	With a disability	Percent with a disability		
Total civilian noninstitutionalized population	1,826,485	345,931	18.90%		
Under 5 years	103,978	941	0.90%		
5 to 17 years	281,324	19,086	6.80%		
18 to 64 years	1,148,554	198,721	17.30%		
65 years and over	292,629	127,183	43.50%		

Table 4. West Virginia residents with disabilities by age Source: American Community Survey, 2011

West Virginia Population with a Disability	Percentage	Total
Total:	100%	1,148,554
In the labor force:	67%	774,380
Employed:	61%	705,626
With a disability	4%	48,218
With a hearing difficulty	1%	15,745
With a vision difficulty	0%	5,611
With a cognitive difficulty	1%	11,370
With an ambulatory difficulty	2%	21,333
With a self-care difficulty	0.003%	3,594
With an independent living difficulty	1%	7,140
No disability	57%	657,408
Unemployed:	6%	68,754
With a disability	1%	8,841
With a hearing difficulty	0.002%	2,279
With a vision difficulty	0.002%	1,923
With a cognitive difficulty	0.004%	4,475
With an ambulatory difficulty	0.002%	2,712
With a self-care difficulty	0.0005%	546
With an independent living difficulty	0.002%	2,507
No disability	5%	59,913
Not in labor force:	33%	374,174
With a disability	12%	141,662
With a hearing difficulty	2%	26,870
With a vision difficulty	2%	27,109
With a cognitive difficulty	6%	66,440
With an ambulatory difficulty	8%	93,368
With a self-care difficulty	3%	30,899
With an independent living difficulty	G %	64,239
No disability	20%	232,512

Table 5. West Virginia residents with disabilities by employment status Source: American Community Survey, 2011

that number increased to 36.6 percent for the population over 65.

Individuals with disabilities make up 12 percent of West Virginia's population that is unemployed and not actively seeking a job (compared to 6 percent nationally). An additional one percent of those temporarily unemployed reported a disability (similar to the national rate of 1 percent) and 4 percent of the working population reported some type of disability (compared to 3 percent nationally) [7].

These percentages of individuals with disabilities bring additional challenges for healthcare. Those with disabilities are more likely to have poor health overall, to be physically inactive and to smoke [8]. They may also have less access to healthcare or health insurance and may not be able to afford the care they need.

In addition, those with disabilities may suffer from multiple secondary conditions that decrease

Health Risk Factors (percent of population)	Non- Hispanic White	Non- Hispanic Black	Hispanie
Dingnosed high blood pressure (2007-2009)	32.4	44.7	33.7
Obesity age 20 & over (2008-2010)	32.7	46.3	29.6
No leisure-time physical activity (2008-2010)	31.6	36.4	31
Smoking currently (2008-2010)	27.4	28.8	26.5
Eats 5+ fruits and vegetables a day (2007-2009)	17.3	18,5	21.8
Preventive Care (percent of population)			
Cholesterol screening in past 5 yrs. (2007-2009)	76.7	74	77.5
Routine check-up in past 2 yrs. (2008-2010)	83	94.7	86,6
Dental visit within the past year (2008-2010)	60	62.5	52.7
Health Insurance Coverage (percent of population)			
Health insurance coverage ages 18-64 (2008-2010)	78.9	78.5	80.8

Table 6. West Virginia health disparities profile Source: U.S. Department of Health and Human Services, 2011

their quality of life and require additional medical treatment [8].

Health Disparities

West Virginia has one of the highest death rates in the United States and consistently ranks among the bottom tier of states in all major causes of death except for deaths due to influenza and pneumonia [9]. Additionally, West
Virginia's population also
ranks among the bottom
tier of states in health
risk factor categories
such as the state's obesity
rate, which exceeds 30
percent and is among the
highest in the nation.
These numbers are even
higher among West
Virginia's minority
population, as the state's
black population has
significantly higher rates

of obesity (39.5 percent compared to 32.1 percent among whites and 29.7 percent among Hispanics in 2011) and high blood pressure (44.7 percent compared to 32.4 percent of whites and 33.7 percent of Hispanics in 2009). [9,10].

Additionally, diabetes rates also vary by race and ethnicity, as 15.2 percent of the non-Hispanic black population is diabetic, compared to 11.8 percent of the white population and 11.7 percent of the Hispanic population [10].

Disparities exist in other chronic disease rates as well, including cardiovascular disease (5.9 percent of the white population reported having had a heart attack, compared to 7.2 percent of the black population) [11].

Leading Causes of Death

West Virginia's rates for all leading causes of death are significantly higher than those of the United States as a whole (Figure 6). The leading cause of death is heart

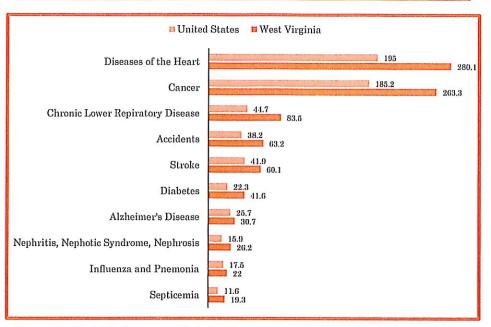


Figure 6. West Virginia leading causes of death (rate per 100,000 population) Source: West Virginia Bureau for Public Health, Health Statistics Center (2012) WV Vital Statistics, 2009

disease, followed closely by cancer. Each of these claim more than 250 out of every 100,000 lives in West Virginia, compared to the national rates, which are both under 200 per 100,000. The next highest causes of death in West Virginia are chronic lower respiratory disease, accidents and stroke, with rates of 60 to 84 residents per 100,000 [12].

Life Expectancy & Years of Life Lost
Years of potential life lost

(YPLL) is an estimate of the average years a person would have lived if he or she had not died prematurely. In the West Virginia Vital Statistics, 2009, YPLL was calculated as the difference between age 75 (an average life span) and the age at death [12]. Calculating years of potential life lost highlights causes of mortality during childhood and can be used to identify

important causes of

premature death. This calculation gives more weight to deaths occurring among younger people.

The four greatest causes of potential life lost in both West Virginia and the United States are cancer, heart disease, unintentional injury and suicide. West Virginia's percentage of YPLL for chronic lower respiratory disease and diabetes are well above the national rates (4 percent and 3.2 percent compared to 2.7

Cause of Death	A STATE OF THE PARTY OF THE PAR	irginia	Years of I Life Lost B 75 United 200	efore Age ; States	West Virginia Actual Deaths 2009		
	Number	Percent	Number	Percent	Number	Percent	
All causes	174,632	100%	20,261,405	100%	21,385	100%	
Cancer	37,441	21.4%	4,397,332	21.7%	4,792	22,4%	
Heart disease	24,859	14.2%	3,038,728	15%	5,097	23.8%	
Unintentional injury	34,238	19.6%	2,928,868	14.5%	1284	6%	
Suicide	8,286	4.7%	1,063,300	5.2%	288	1.3%	
Chronic lower respiratory diseases	6,987	4%	543,247	2.7%	1,519	7.1%	
Diabetes	5,659	3.2%	494,484	2.4%	757	3.5%	
Stroke	4,238	2.4%	518,952	2.6%	1,093	5.1%	
Infectious and parasitic diseases	3,773	2.2%	NA	NA	553	2.6%	
Chronic liver disease and cirrhosis	3,733	2.1%	NA	NA	246	1.2%	
Congenital malformations	3,549	2%	548,362	2.7%	66	0.3%	
Homicide	3,445	2%	702,725	3.5%	99	0.5%	
Sudden infant death syndrome	2,384	1.4%	NA	NA	32	0.1%	
Nephritis, Nephrotic Syndrome, Nephrosis	2,328	1.3%	NA	NA	476	2.2%	
Disorders relating to short gestation and low birthweight	2,161	1.2%	NA	NA	29	0.1%	
Influenza and pneumonia	2,116	1.2%	NA	NA	401	1.9%	
Obesity	1,272	0.7%	NA	NA	62	0.3%	
Alcohol or drug psychoses, dependence or abuse	1,256	0.7%	NA	NA	57	0.3%	
Other newborn respiratory conditions	1,043	0.6%	NA	NA	57	0.3%	
All other causes (residual)	25,868	14.8%	5,043,144	24.9%	4,520	21.1%	

Table 7. West Virginia, U.S. years of potential life lost, 2009 Source: West Virginia Bureau for Public Health, Health Statistics Center, 2012 Centers for Disease Control & Prevention, WISQARS Years of Potential Life Lost Report 1999-2010

percent and 2.4 percent respectively).

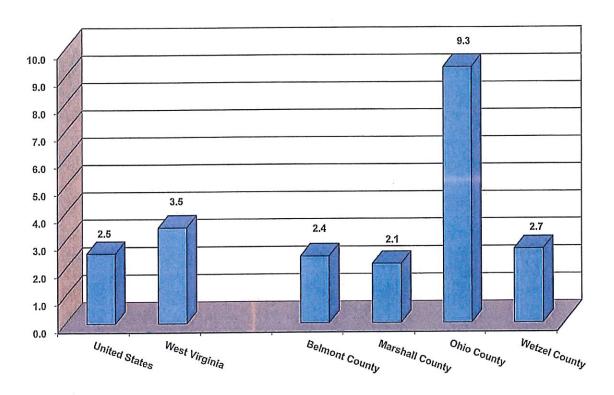
West Virginia is slightly below the national numbers in YPLL for stroke (2.4 percent), congenital malformations (2 percent) and homicide (2 percent), compared to the national YPLL (2.6 percent, 2.7 percent and 3.5 percent respectively) [12, 13].

YPLL draws attention to areas where West Virginia's public health system can be improved to help residents live longer, healthier lives.

Appendix 6:

Acute Hospital Beds per 1,000 People

source: 2010 US census & 2012 AHA Guide to Hospitals



Appendix7:

08-12-2014

Reynolds Memorial Hospital Community 1119 Surveys Returned

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1. Which social problems are the most significant in our area?

	N/A		Rar	Rank 1 Rar		nk 2 Rai		nk 3 T		otal	
Drug Abuse	130	12%	632	56%	228	20%	129	12%	989	88%	
Binge Drinking	749	67%	47	4%	197	18%	126	11%	370	33%	
Lack of Housing	905	81%	23	2%	82	7%	109	10%	214	19%	
Lack of Jobs	338	30%	298	27%	274	24%	209	19%	781	70%	
Access to Medical Care	849	76%	58	5%	97	9%	115	10%	270	24%	
Crime	585	52%	43	4%	178	16%	313	28%	534	48%	

2. What do you feel are the major health issues facing citizens in our community?

	N	N/A		Rank 1 Ran		nk 2 Ra		ık 3	То	tal
Obesity	272	24%	389	35%	226	20%	232	21%	847	76%
Drug Abuse	338	30%	396	35%	248	22%	137	12%	781	70%
Drinking	724	65%	39	3%	173	15%	183	16%	395	35%
Diabetes	564	50%	102	9%	251	22%	202	18%	555	50%
Heart Disease	550	49%	159	14%	175	16%	235	21%	569	51%
Other	1019	91%	25	2%	13	1%	62	6%	100	9%

3. Who is best able to solve these problems?

	· N	'A	Rank 1		Rar	Rank 2 Rai		ık 3	Rank 4		Total	
State/Federal Gov	311	28%	383	34%	68	6%	102	9%	255	23%	808	72%
Local Health Dept	269	24%	84	8%	257	23%	345	31%	164	15%	850	76%
Local Hospitals	224	20%	66	6%	412	37%	302	27%	115	10%	895	80%
Local Physicians	190	17%	397	35%	231	21%	172	15%	129	12%	929	83%
Other	884	79%	141	13%	29	3%	23	2%	42	4%	235	21%

4. Do you have any barriers to receiving health care?

Lack of transportation	62	6%
No medical insurance	45	4%
The service(s) I require are not offered in the community	54	5%
Other	91	8%
I do not have any barriers to receiving health care	892	80%

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5. What healthcare services, if any, do you believe are lacking in our community?

Cancer Care	359	32%
Long Term Care	344	31%
Women's Health	192	17%
Assisted Living Facilities	505	45%
Geriatric Services	259	23%
Behavioral Services	419	37%
Other	173	15%

6. What physician specialties are needed in our community?

	N/	N/A		Rank 1		nk 2	Rar	ık 3	To	otal
Family Medicine	510	46%	441	39%	92	8%	76	7%	609	54%
OB / GYN	712	64%	128	11%	183	16%	96	9%	407	36%
Oncology	598	53%	162	14%	193	17%	166	15%	521	47%
Orthopedics	734	66%	55	5%	177	16%	153	14%	385	34%
Urology	797	71%	64	6%	107	10%	151	13%	322	29%
Other	950	85%	80	7%	39	3%	50	4%	169	15%

7. For your immediate healthcare needs, where do you go?

	N/A		Rai	Rank 1 Rai		ık 2	Rar	Rank 3		tal
Family Doctor	134	12%	895	80%	60	5%	30	3%	985	88%
Emergency Deptartment	399	36%	68	6%	442	39%	210	19%	720	64%
Urgent Care Center	507	45%	65	6%	220	20%	327	29%	612	55%

8. How can Reynolds Memorial Hospital help with these issues?

	N/	Α	Ran	k 1	Ran	k 2	Ran	ık 3	Ranl	4	То	tal
Community Programs	497	44%	210	19%	255	23%	153	14%	4	0%	622	56%
Offering workshops	518	46%	139	12%	210	19%	248	22%	4	0%	601	54%
Partnering with Orgs	359	32%	472	42%	150	13%	135	12%	3	0%	760	68%
Other	1030	92%	62	6%	15	1%	5	0%	7	1%	89	8%

9. In the past twelve months, have you used the services of Reynolds Memorial Hospital?

Yes 671 60% No 364 33% 08-12-2014

Reynolds Memorial Hospital Community 1119 Surveys Returned

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10. How would you rate your experience?

Excellent	386	34%
Good	305	27%
Needs Improvement	51	5%
Poor	21	2%
N/A	355	32%

11. If you did not choose Reynolds Memorial Hospital for your care, why?

Insurance Reason	54	5%
They do not offer the service(s) I need	72	6%
The ambulance would not stop at RM	8	1%
Other	297	27%
N/A	707	63%

12. Do you, or your family, use the internet at home?

Yes	701	63%
No	330	29%
N/A	87	8%

13. If you answered yes, would you like to receive notifications from RMH about services and community programming in theis manner?

```
Yes 189 17%
No 546 49%
N/A 383 34%
```

14. Gender?

Male	299	27%
Femal	723	65%

15. How many years have you lived in the community?

```
0 - 5 Years 25 2% 5 + Years 1009 90%
```

16. Which category best represents the age of the head of the household?

30 or younger	21	2%
30 - 45	115	10%
46 - 64	381	34%
65 +	524	47%