

Critical Access Hospital Health Needs Assessment Project

Indicator Data for Counties in the North West Region

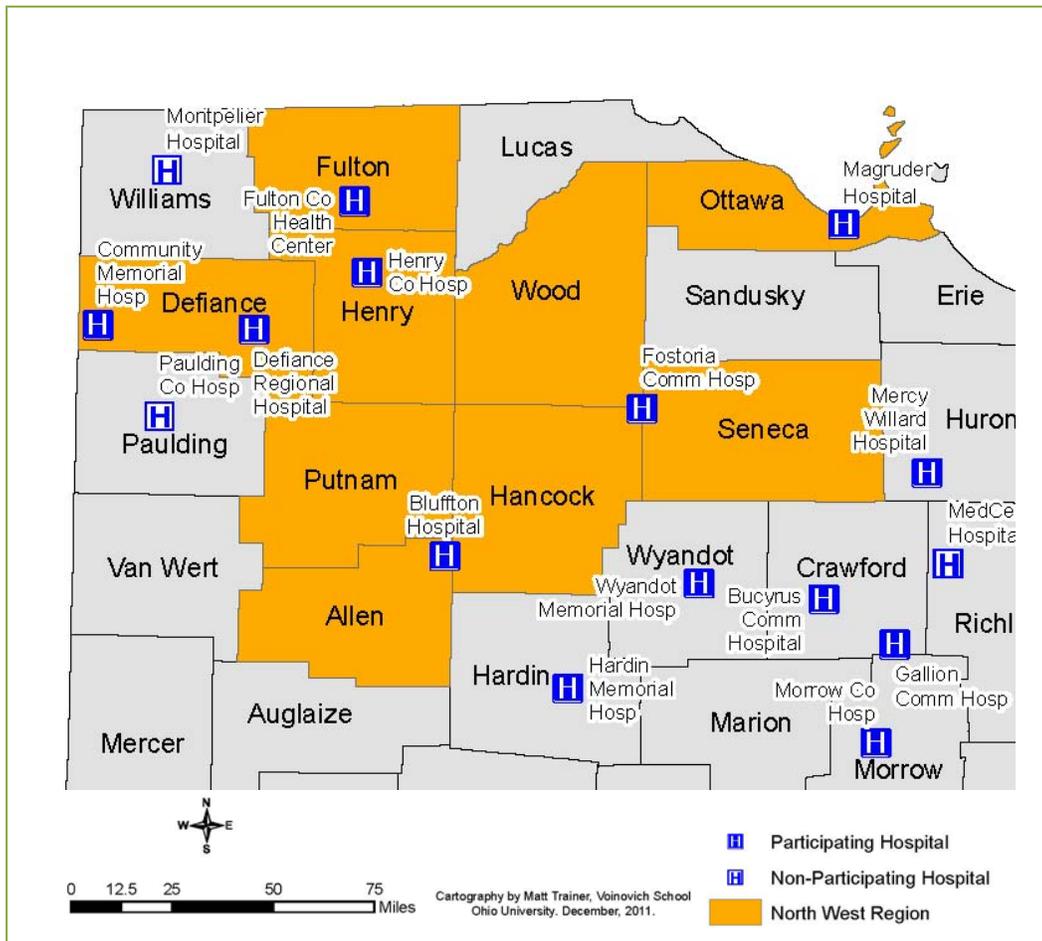
March 2012

Introduction

This document supplements the Health Needs Assessment Indicator Report for the North West Region by providing county-level data on selected health indicators. This information is designed to assist Critical Access Hospitals and their local partners in identifying local health needs. The data are drawn from state and national sources and provide measures and indicators of the health and wellbeing of the population in the counties of the region. Data labeled “estimates” have been calculated using methodologies recommended by the U. S. Department of Health and Human Services. Specific information on data sources and methodology can be found at the end of the report.

The North West region is comprised of nine Ohio counties, as designated by the critical access hospitals in November 2011. As seen in Figure 1, seven critical access hospitals serve predominately rural populations in the region.

Figure 1. Needs assessment region



Race and Ethnicity

The total population of the nine-county region in 2010 was 549,223 individuals.

Table 1. Population by race, 2010

County	White Only	Black Only	American Indian and Alaska Native Only	Asian Only	Native Hawaiian and Other Pacific Islander Only	One Other Race Only	Two or more races
Allen	89,089	12,639	207	740	15	845	2,796
Defiance	36,208	725	98	119	12	1,105	770
Fulton	40,538	183	124	183	4	1,034	632
Hancock	69,828	1,158	167	1,263	12	1,026	1,328
Henry	26,857	117	89	105	2	675	370
Ottawa	39,968	324	67	116	7	391	555
Putnam	33,012	94	74	81	4	921	313
Seneca	53,183	1,305	109	324	10	747	1,067
Wood	116,422	3,022	286	1,943	37	1,599	2,179

Table 2. Population by Hispanic or Latino ethnicity, 2010

County	Hispanic or Latino (All Races)
Allen	2,513
Defiance	3,409
Fulton	3,341
Hancock	3,363
Henry	1,860
Ottawa	1,755
Putnam	1,890
Seneca	2,524
Wood	5,663

Population Age

Table 3. Male population by age group, 2010

County	Males					
	Under 5	5 to 19	20 to 39	40 to 59	60 to 79	80 and Older
Allen	3,501	11,966	13,802	14,746	7,922	1,693
Defiance	1,298	4,198	4,551	5,478	3,143	557
Fulton	1,417	4,837	4,539	6,369	3,182	640
Hancock	2,400	7,626	9,228	10,364	5,572	1,094
Henry	951	3,072	3,240	4,070	2,163	478
Ottawa	1,005	3,850	3,961	6,450	4,407	764
Putnam	1,362	3,861	3,854	5,140	2,493	532
Seneca	1,852	6,181	7,070	8,033	4,261	940
Wood	3,521	13,355	18,169	16,380	8,333	1,589

Table 4. Female population by age group, 2010

County	Females					
	Under 5	5 to 19	20 to 39	40 to 59	60 to 79	80 and Older
Allen	3,260	10,671	12,208	14,385	8,967	3,210
Defiance	1,191	4,023	4,598	5,531	3,360	1,109
Fulton	1,338	4,457	4,814	6,507	3,437	1,161
Hancock	2,351	7,599	9,662	10,527	6,287	2,072
Henry	874	2,908	3,145	4,050	2,406	858
Ottawa	1,028	3,608	3,892	6,568	4,559	1,336
Putnam	1,204	3,678	3,766	4,934	2,709	966
Seneca	1,701	5,757	6,560	7,845	4,792	1,753
Wood	3,326	13,293	18,153	17,082	9,470	2,817

Table 5. Total population by age group, 2010

County	Total						Total Population
	Under 5	5 to 19	20 to 39	40 to 59	60 to 79	80 and Older	
Allen	22,637	26,010	29,131	16,889	4,903	106,331	22,637
Defiance	8,221	9,149	11,009	6,503	1,666	39,037	8,221
Fulton	9,294	9,353	12,876	6,619	1,801	42,698	9,294
Hancock	15,225	18,890	20,891	11,859	3,166	74,782	15,225
Henry	5,980	6,385	8,120	4,569	1,336	28,215	5,980
Ottawa	7,458	7,853	13,018	8,966	2,100	41,428	7,458
Putnam	7,539	7,620	10,074	5,202	1,498	34,499	7,539
Seneca	11,938	13,630	15,878	9,053	2,693	56,745	11,938
Wood	26,648	36,322	33,462	17,803	4,406	125,488	26,648

Educational Attainment

Table 6. Educational attainment of the population age 25 and older, 2006 to 2010

County	Less Than 9 th Grade	9 th to 12 th Grade, No Diploma	High School Graduate (Includes Equivalency)	Some College, No Degree	Associate's Degree	Bachelor's Degree	Graduate or Professional Degree
Allen	1,696	7,191	29,125	14,040	6,216	6,826	4,130
Defiance	628	2,534	11,692	4,774	2,040	2,509	1,716
Fulton	775	2,523	12,276	6,315	2,156	2,904	1,316
Hancock	956	3,623	18,571	9,951	4,096	7,758	4,227
Henry	572	1,792	8,708	3,825	1,645	1,726	772
Ottawa	773	2,301	10,936	7,351	2,951	3,471	2,206
Putnam	672	1,382	10,408	3,376	2,578	2,734	1,346
Seneca	1,136	3,553	16,388	7,052	3,247	3,666	2,369
Wood	1,483	4,517	26,141	14,751	7,145	13,564	8,867

Income, Poverty and Payer Mix

Table 7. Income and poverty, 2006 to 2010

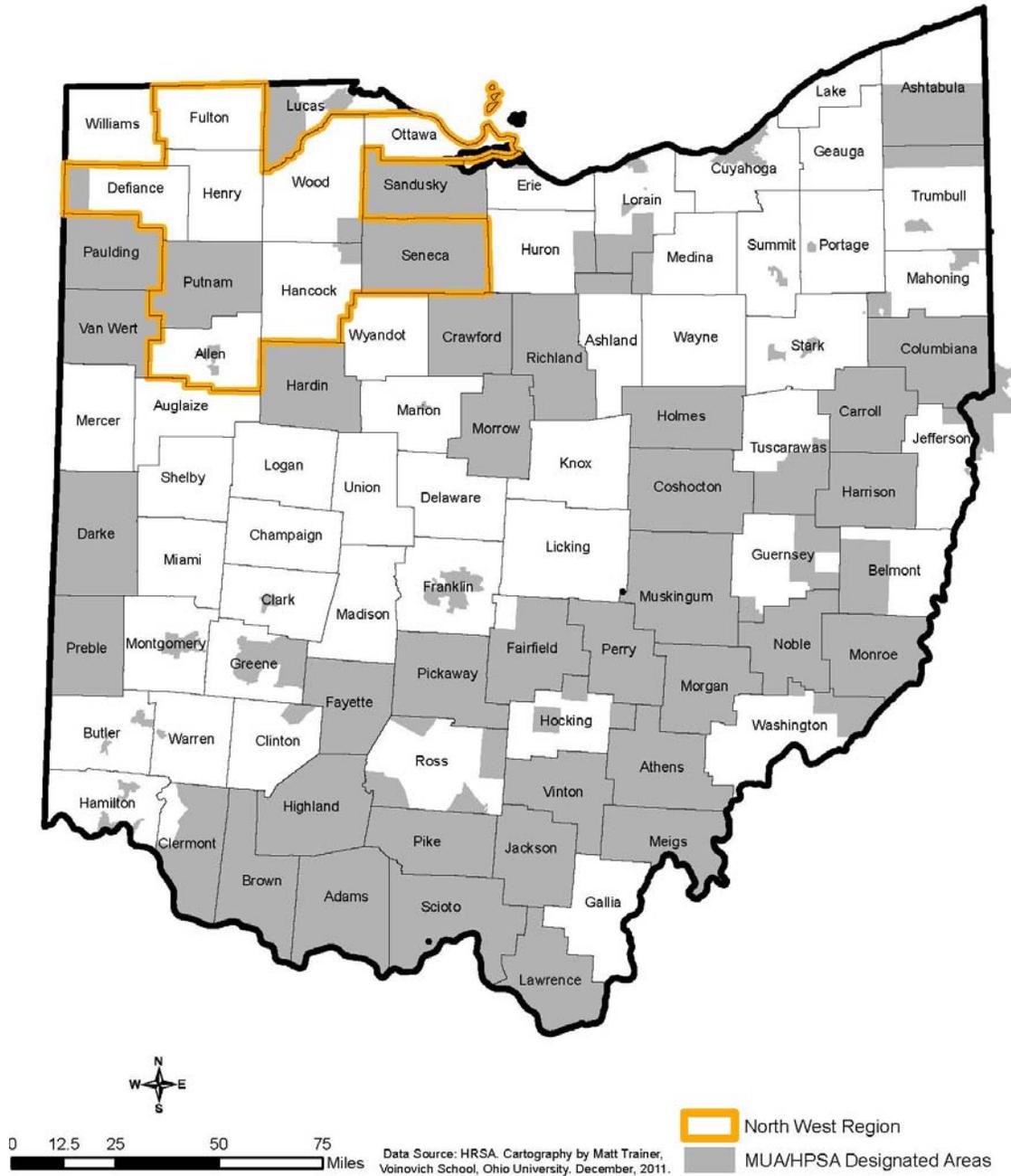
County	Total Number for Whom Poverty has been Determined	Number Below 100% of Poverty	Number Between 100 and 199% of Poverty (Low-Income)	Total with Income Below 200% of Poverty
Allen	102,319	16,655	35,145	51,800
Defiance	38,358	4,875	12,049	16,924
Fulton	42,263	4,417	12,325	16,742
Hancock	72,385	8,217	21,505	29,722
Henry	27,812	2,945	8,101	11,046
Ottawa	41,191	3,714	9,433	13,147
Putnam	34,332	2,447	7,183	9,630
Seneca	54,972	6,562	18,847	25,409
Wood	116,374	14,156	31,628	45,784

Table 8. Estimated Payer Mix

County	Total Population	Number of Uninsured	Number with Medicaid	Number with Medicare	Number of Privately Insured
Allen	106,331	13,574	18,305	18,074	56,378
Defiance	39,037	4,153	6,438	7,323	21,123
Fulton	42,698	4,393	5,620	7,572	25,113
Hancock	74,782	7,671	9,374	11,399	46,338
Henry	28,215	3,205	3,864	5,031	16,115
Ottawa	41,428	4,388	5,052	8,976	23,012
Putnam	34,499	3,345	3,307	5,500	22,347
Seneca	56,745	6,924	9,443	11,034	29,344
Wood	125,488	12,787	11,890	17,504	83,307

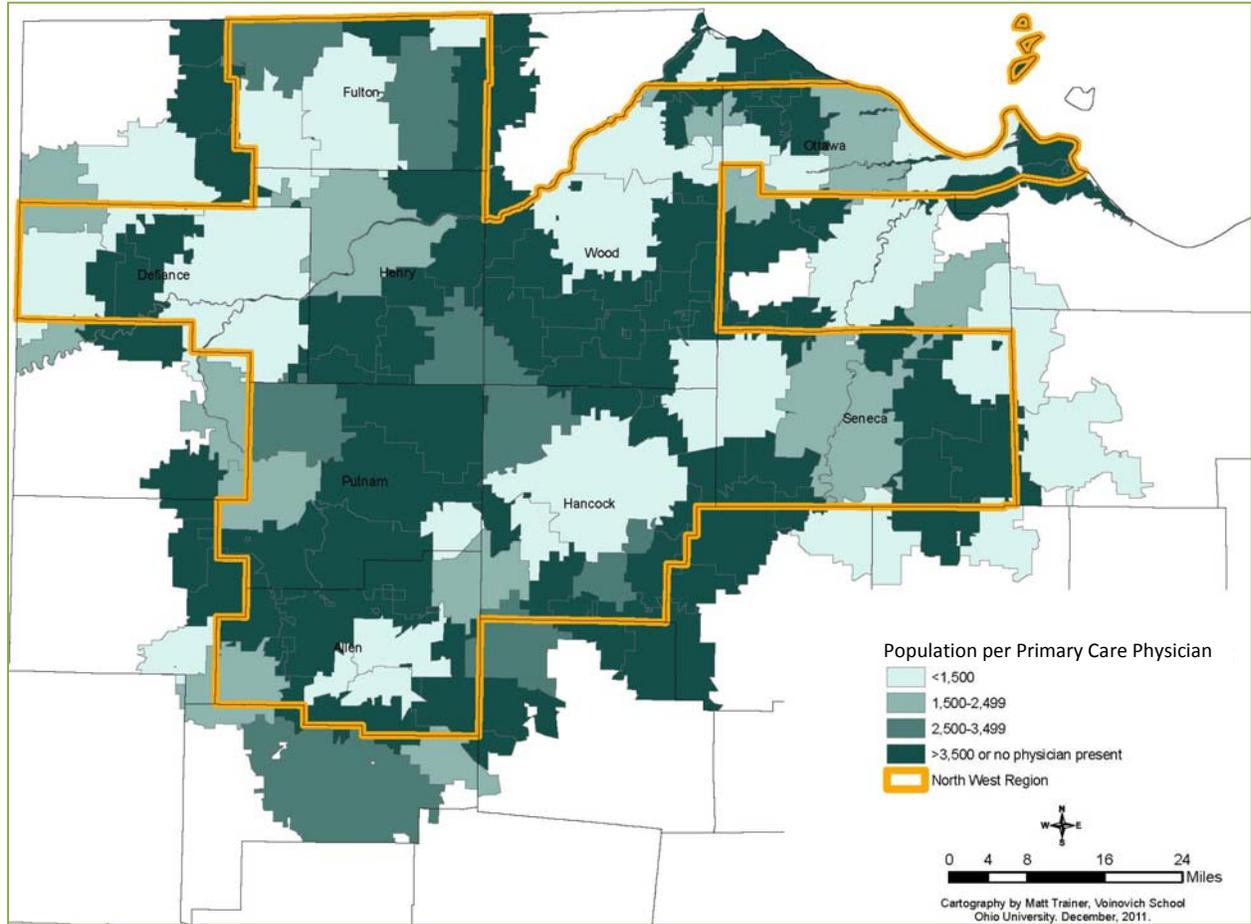
Primary Care Health Professional Shortage and Medically Underserved Areas

Figure 2. Medical primary care health professional shortage and medically underserved areas, 2010



Population to Physician Ratios

Figure 3. Population to physician ratio, 2007



Leading Causes of Death

Table 9. Number and rate (per 100,000 people) of deaths due to heart disease, 2006 to 2008

County	Population	Number of Deaths: Heart Disease	Rate of Deaths: Heart Disease (per 100,000 People)
Allen	315,503	863	273.5
Defiance	115,967	254	219.0
Fulton	127,479	286	224.4
Hancock	222,255	504	226.8
Henry	86,953	183	210.5
Ottawa	123,092	380	308.7
Putnam	103,789	208	200.4
Seneca	170,009	481	282.9
Wood	374,278	855	228.4

Table 10. Number and rate (per 100,000 people) of deaths due to cancer, 2006 to 2008

County	Population	Number of Deaths: Cancer	Rate of Deaths: Cancer (per 100,000 People)
Allen	315,503	705	223.5
Defiance	115,967	266	229.4
Fulton	127,479	264	207.1
Hancock	222,255	433	194.8
Henry	86,953	193	222.0
Ottawa	123,092	345	280.3
Putnam	103,789	182	175.4
Seneca	170,009	366	215.3
Wood	374,278	663	177.1

Table 11. Number and rate (per 100,000 people) of deaths due to cerebrovascular disease (stroke), 2006 to 2008

County	Population	Number of Deaths: Cerebrovascular Disease (Stroke)	Rate of Deaths: Cerebrovascular Disease (per 100,000 People)
Allen	315,503	191	60.5
Defiance	115,967	74	63.8
Fulton	127,479	67	52.6
Hancock	222,255	125	56.2
Henry	86,953	59	67.9
Ottawa	123,092	63	51.2
Putnam	103,789	54	52.0
Seneca	170,009	110	64.7
Wood	374,278	164	43.8

Table 12. Number and rate (per 100,000 people) of deaths due to chronic lower respiratory diseases, 2006 to 2008

County	Population	Number of Deaths: Chronic Lower Respiratory Diseases	Rate of Deaths: Chronic Lower Respiratory Diseases (per 100,000 People)
Allen	315,503	202	64.0
Defiance	115,967	75	64.7
Fulton	127,479	50	39.2
Hancock	222,255	119	53.5
Henry	86,953	31	35.7
Ottawa	123,092	84	68.2
Putnam	103,789	47	45.3
Seneca	170,009	144	84.7
Wood	374,278	151	40.3

Table 13. Number and rate (per 100,000 people) of deaths due to accidents and unintentional injuries, 2006 to 2008

County	Population	Number of Deaths: Accidents and Unintentional Injuries	Rate of Deaths: Accidents and Unintentional Injuries (per 100,000 People)
Allen	315,503	115	36.4
Defiance	115,967	57	49.2
Fulton	127,479	66	51.8
Hancock	222,255	73	32.8
Henry	86,953	46	52.9
Ottawa	123,092	52	42.2
Putnam	103,789	45	43.4
Seneca	170,009	83	48.8
Wood	374,278	135	36.1

Table 14. Number and rate (per 100,000 people) of deaths due to Alzheimer's disease, 2006 to 2008

County	Population	Number of Deaths: Alzheimer's Disease	Rate of Deaths: Alzheimer's Disease (per 100,000 People)
Allen	315,503	124	39.3
Defiance	115,967	37	31.9
Fulton	127,479	51	40.0
Hancock	222,255	82	36.9
Henry	86,953	33	38.0
Ottawa	123,092	72	58.5
Putnam	103,789	29	27.9
Seneca	170,009	74	43.5
Wood	374,278	105	28.1

Table 15. Number and rate (per 100,000 people) of deaths due to diabetes mellitus, 2006 to 2008

County	Population	Number of Deaths: Diabetes Mellitus	Rate of Deaths: Diabetes Mellitus (per 100,000 People)
Allen	315,503	106	33.6
Defiance	115,967	39	33.6
Fulton	127,479	61	47.9
Hancock	222,255	74	33.3
Henry	86,953	28	32.2
Ottawa	123,092	57	46.3
Putnam	103,789	38	36.6
Seneca	170,009	89	52.4
Wood	374,278	111	29.7

Table 16. Number and rate (per 100,000 people) of deaths due to influenza and pneumonia, 2006 to 2008

County	Population	Number of Deaths: Influenza and Pneumonia	Rate of Deaths: Influenza and Pneumonia (per 100,000 People)
Allen	315,503	42	13.3
Defiance	115,967	16	13.8
Fulton	127,479	19	14.9
Hancock	222,255	28	12.6
Henry	86,953	13	15.0
Ottawa	123,092	21	17.1
Putnam	103,789	17	16.4
Seneca	170,009	20	11.8
Wood	374,278	37	9.9

Table 17. Number and rate (per 100,000 people) of deaths due to kidney disease, 2006 to 2008

County	Population	Number of Deaths: Kidney Disease	Rate of Deaths: Kidney Disease (per 100,000 People)
Allen	315,503	37	11.7
Defiance	115,967	19	16.4
Fulton	127,479	15	11.8
Hancock	222,255	11	4.9
Henry	86,953	10	11.5
Ottawa	123,092	17	13.8
Putnam	103,789	14	13.5
Seneca	170,009	19	11.2
Wood	374,278	42	11.2

Table 18. Number and rate (per 100,000 people) of deaths due to infections of the blood, 2006 to 2008

County	Population	Number of Deaths: Infections of the Blood	Rate of Deaths: Infections of the Blood (per 100,000 People)
Allen	315,503	30	9.5
Defiance	115,967	7	6.0
Fulton	127,479	3	2.4
Hancock	222,255	5	2.2
Henry	86,953	4	4.6
Ottawa	123,092	11	8.9
Putnam	103,789	12	11.6
Seneca	170,009	5	2.9
Wood	374,278	15	4.0

Health Risk Factors

Table 19. Estimated number and percentage of adults who are overweight, 2010

County	Total Number of Adults	Estimated Number Overweight	Estimated Percent Overweight
Allen	80,886	29,170	36.1%
Defiance	29,434	10,621	36.1%
Fulton	31,689	11,436	36.1%
Hancock	57,154	20,492	35.9%
Henry	21,121	7,657	36.3%
Ottawa	32,833	12,043	36.7%
Putnam	25,299	9,167	36.2%
Seneca	43,377	15,634	36.0%
Wood	98,213	34,707	35.3%

Table 20. Estimated number and percentage of adults who are obese, 2010

County	Total Number of Adults	Estimated Number Obese	Estimated Percent Obese
Allen	80,886	24,161	29.9%
Defiance	29,434	8,845	30.0%
Fulton	31,689	9,582	30.2%
Hancock	57,154	17,093	29.9%
Henry	21,121	6,352	30.1%
Ottawa	32,833	10,010	30.5%
Putnam	25,299	7,615	30.1%
Seneca	43,377	12,993	30.0%
Wood	98,213	29,107	29.6%

Table 21. Estimated number and percentage of adults who are current smokers, 2010

County	Total Number of Adults	Estimated Number Current Smokers	Estimated Percent Current Smokers
Allen	80,886	18,032	22.3%
Defiance	29,434	6,526	22.2%
Fulton	31,689	7,041	22.2%
Hancock	57,154	12,872	22.5%
Henry	21,121	4,657	22.1%
Ottawa	32,833	6,983	21.3%
Putnam	25,299	5,630	22.3%
Seneca	43,377	9,681	22.3%
Wood	98,213	22,745	23.2%

Table 22. Estimated number and percentage of adults who are heavy drinkers (men > 2 drinks/day, women > 1 drink/day), 2010

County	Total Number of Adults	Estimated Number of Heavy Drinkers	Estimated Percent of Heavy Drinkers
Allen	80,886	4,528	5.6%
Defiance	29,434	1,633	5.5%
Fulton	31,689	1,760	5.6%
Hancock	57,154	3,226	5.6%
Henry	21,121	1,171	5.5%
Ottawa	32,833	1,751	5.3%
Putnam	25,299	1,419	5.6%
Seneca	43,377	2,452	5.7%
Wood	98,213	5,844	6.0%

Table 23. Estimated number and percentage of adults who reported their health status as “fair” or “poor”, 2010

County	Total Number of Adults	Estimated Number Fair/Poor Health	Estimated Percent Fair/Poor Health
Allen	80,886	13,254	16.4%
Defiance	29,434	4,636	15.8%
Fulton	31,689	4,896	15.5%
Hancock	57,154	8,727	15.3%
Henry	21,121	3,296	15.6%
Ottawa	32,833	5,430	16.5%
Putnam	25,299	3,887	15.4%
Seneca	43,377	6,725	15.5%
Wood	98,213	14,431	14.7%

Heart Disease and Stroke

Table 24. Estimated number and percentage of adults who have not had their cholesterol checked in the past 5 years, 2009

County	Total Number of Adults	Estimated Number No Cholesterol Check in 5 Years*	Estimated Percent No Cholesterol Check in 5 Years*
Allen	80,886	18,318	22.6%
Defiance	29,434	6,329	21.5%
Fulton	31,689	6,646	21.0%
Hancock	57,154	12,797	22.4%
Henry	21,121	4,443	21.0%
Ottawa	32,833	6,123	18.6%
Putnam	25,299	5,386	21.3%
Seneca	43,377	9,595	22.1%
Wood	98,213	24,150	24.6%

*Includes adults who have never had their blood cholesterol checked.

Table 25. Estimated number and percentage of adults who have never had their cholesterol checked, 2009

County	Total Number of Adults	Estimated Number Never Had Cholesterol Checked	Estimated Percent Never Had Cholesterol Checked
Allen	80,886	15,392	19.0%
Defiance	29,434	5,211	17.7%
Fulton	31,689	5,398	17.0%
Hancock	57,154	10,597	18.5%
Henry	21,121	3,629	17.2%
Ottawa	32,833	4,890	14.9%
Putnam	25,299	4,396	17.4%
Seneca	43,377	7,951	18.3%
Wood	98,213	20,385	20.8%

Table 26. Estimated number and percentage of adults who have ever been told they have high cholesterol (of those tested), 2009

County	Total Number of Adults	Estimated Number Ever Told High Cholesterol	Estimated Percent Ever Told High Cholesterol
Allen	80,886	30,520	37.7%
Defiance	29,434	11,355	38.6%
Fulton	31,689	12,273	38.7%
Hancock	57,154	21,547	37.7%
Henry	21,121	8,200	38.8%
Ottawa	32,833	13,468	41.0%
Putnam	25,299	9,768	38.6%
Seneca	43,377	16,549	38.2%
Wood	98,213	35,197	35.8%

Table 27. Estimated number and percentage of adults who have ever been told they have high blood pressure, 2009

County	Total Number of Adults	Estimated Number Ever Told High Blood Pressure	Estimated Percent Ever Told High Blood Pressure
Allen	80,886	26,540	32.8%
Defiance	29,434	9,635	32.7%
Fulton	31,689	10,280	32.4%
Hancock	57,154	18,036	31.6%
Henry	21,121	6,940	32.9%
Ottawa	32,833	11,696	35.6%
Putnam	25,299	8,182	32.3%
Seneca	43,377	13,987	32.2%
Wood	98,213	28,961	29.5%

Table 28. Estimated number and percentage of adults who have ever been told they have angina or coronary heart disease, 2010

County	Total Number of Adults	Estimated Number Have Angina or CHD	Estimated Percent Have Angina or CHD
Allen	80,886	3,658	4.5%
Defiance	29,434	1,375	4.7%
Fulton	31,689	1,460	4.6%
Hancock	57,154	2,528	4.4%
Henry	21,121	997	4.7%
Ottawa	32,833	1,779	5.4%
Putnam	25,299	1,165	4.6%
Seneca	43,377	1,978	4.6%
Wood	98,213	3,879	3.9%

Table 29. Estimated number and percentage of adults who have ever been told they had a stroke, 2010

County	Total Number of Adults	Estimated Number Had Stroke	Estimated Percent Had Stroke
Allen	80,886	2,544	3.1%
Defiance	29,434	922	3.1%
Fulton	31,689	969	3.1%
Hancock	57,154	1,702	3.0%
Henry	21,121	669	3.2%
Ottawa	32,833	1,167	3.6%
Putnam	25,299	777	3.1%
Seneca	43,377	1,325	3.1%
Wood	98,213	2,615	2.7%

Table 30. Estimated number and percentage of adults who have ever been told they had a heart attack, 2010

County	Total Number of Adults	Estimated Number Had Heart Attack	Estimated Percent Had Heart Attack
Allen	80,886	3,707	4.6%
Defiance	29,434	1,361	4.6%
Fulton	31,689	1,434	4.5%
Hancock	57,154	2,493	4.4%
Henry	21,121	985	4.7%
Ottawa	32,833	1,753	5.3%
Putnam	25,299	1,147	4.5%
Seneca	43,377	1,958	4.5%
Wood	98,213	3,838	3.9%

Cancer Mortality

Table 31. Number and rate (per 100,000 people) of deaths due to lung, tracheal and bronchial cancer, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Lung, Trachea and Bronchus	Rate of Deaths: Type/Site of Cancer: Lung, Trachea and Bronchus (per 100,000)
Allen	315,503	213	67.5
Defiance	115,967	81	69.8
Fulton	127,479	59	46.3
Hancock	222,255	111	49.9
Henry	86,953	40	46.0
Ottawa	123,092	97	78.8
Putnam	103,789	46	44.3
Seneca	170,009	113	66.5
Wood	374,278	195	52.1

Table 32. Number and rate (per 100,000 people) of deaths due to colon, rectal and anal cancer, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Colon, Rectum and Anus	Rate of Deaths: Type/Site of Cancer: Colon, Rectum and Anus (per 100,000)
Allen	315,503	47	14.9
Defiance	115,967	22	19.0
Fulton	127,479	34	26.7
Hancock	222,255	37	16.6
Henry	86,953	29	33.4
Ottawa	123,092	35	28.4
Putnam	103,789	18	17.3
Seneca	170,009	34	20.0
Wood	374,278	68	18.2

Table 33. Number and rate (per 100,000 people) of deaths due to breast (female) cancer, 2006 to 2008

County	Population (of Females)	Number of Deaths: Type/Site of Cancer: Breast (Female)	Rate of Deaths: Type/Site of Cancer: Breast (per 100,000 Females)
Allen	159,336	60	37.7
Defiance	58,783	14	23.8
Fulton	64,736	26	40.2
Hancock	114,107	34	29.8
Henry	43,876	16	36.5
Ottawa	62,242	26	41.8
Putnam	51,928	10	19.3
Seneca	85,442	22	25.7
Wood	192,128	41	21.3

Table 34. Number and rate (per 100,000 people) of deaths due to pancreatic cancer, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Pancreas	Rate of Deaths: Type/Site of Cancer: Pancreas (per 100,000)
Allen	315,503	43	13.6
Defiance	115,967	10	8.6
Fulton	127,479	14	11.0
Hancock	222,255	25	11.2
Henry	86,953	12	13.8
Ottawa	123,092	30	24.4
Putnam	103,789	15	14.5
Seneca	170,009	25	14.7
Wood	374,278	39	10.4

Table 35. Number and rate (per 100,000 people) of deaths due to prostate cancer, 2006 to 2008

County	Population (of Males)	Number of Deaths: Type/Site of Cancer: Prostate	Rate of Deaths: Type/Site of Cancer: Prostate (per 100,000 Males)
Allen	156,167	33	21.1
Defiance	57,184	21	36.7
Fulton	62,743	12	19.1
Hancock	108,148	17	15.7
Henry	43,077	7	16.2
Ottawa	60,850	7	11.5
Putnam	51,861	11	21.2
Seneca	84,567	18	21.3
Wood	182,150	31	17.0

Table 36. Number and rate (per 100,000 people) of deaths due to non-Hodgkin's lymphoma, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Non-Hodgkin's Lymphoma	Rate of Deaths: Type/Site of Cancer: Non-Hodgkin's Lymphoma (per 100,000)
Allen	315,503	27	8.6
Defiance	115,967	5	4.3
Fulton	127,479	8	6.3
Hancock	222,255	26	11.7
Henry	86,953	8	9.2
Ottawa	123,092	15	12.2
Putnam	103,789	10	9.6
Seneca	170,009	16	9.4
Wood	374,278	37	9.9

Table 37. Number and rate (per 100,000 people) of deaths due to leukemia, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Leukemia	Rate of Deaths: Type/Site of Cancer: Leukemia (per 100,000)
Allen	315,503	31	9.8
Defiance	115,967	14	12.1
Fulton	127,479	12	9.4
Hancock	222,255	18	8.1
Henry	86,953	11	12.7
Ottawa	123,092	12	9.7
Putnam	103,789	12	11.6
Seneca	170,009	12	7.1
Wood	374,278	25	6.7

Table 38. Number and rate (per 100,000 people) of deaths due to esophageal cancer, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Esophagus	Rate of Deaths: Type/Site of Cancer: Esophagus (per 100,000)
Allen	315,503	19	6.0
Defiance	115,967	7	6.0
Fulton	127,479	10	7.8
Hancock	222,255	18	8.1
Henry	86,953	4	4.6
Ottawa	123,092	9	7.3
Putnam	103,789	7	6.7
Seneca	170,009	9	5.3
Wood	374,278	14	3.7

Table 39. Number and rate (per 100,000 people) of deaths due to bladder cancer, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Bladder	Rate of Deaths: Type/Site of Cancer: Bladder (per 100,000)
Allen	315,503	18	5.7
Defiance	115,967	9	7.8
Fulton	127,479	6	4.7
Hancock	222,255	11	4.9
Henry	86,953	9	10.4
Ottawa	123,092	6	4.9
Putnam	103,789	3	2.9
Seneca	170,009	11	6.5
Wood	374,278	17	4.5

Table 40. Number and rate (per 100,000 people) of deaths due to brain and central nervous system cancer, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Brain and Central Nervous System	Rate of Deaths: Type/Site of Cancer: Brain and Central Nervous System (per 100,000)
Allen	315,503	17	5.4
Defiance	115,967	6	5.2
Fulton	127,479	9	7.1
Hancock	222,255	7	3.1
Henry	86,953	2	2.3
Ottawa	123,092	8	6.5
Putnam	103,789	2	1.9
Seneca	170,009	11	6.5
Wood	374,278	24	6.4

Table 41. Number and rate (per 100,000 people) of deaths due to all other cancers not previously listed, 2006 to 2008

County	Population	Number of Deaths: Type/Site of Cancer: Other	Rate of Deaths: Type/Site of Cancer: Other (per 100,000)
Allen	315,503	194	61.5
Defiance	115,967	77	66.4
Fulton	127,479	74	58.0
Hancock	222,255	129	58.0
Henry	86,953	55	63.3
Ottawa	123,092	100	81.2
Putnam	103,789	48	46.2
Seneca	170,009	95	55.9
Wood	374,278	172	46.0

Cancer Screening

Table 42. Estimated number and percentage of women (18+) with no Pap test in the past 3 years, 2010

County	Total Number of Women 18+	Estimated Number No Pap Test, Past 3 Years	Estimated Percent No Pap Test, Past 3 Years
Allen	40,299	8,682	21.5%
Defiance	15,116	3,224	21.3%
Fulton	16,404	3,424	20.9%
Hancock	29,800	6,330	21.2%
Henry	10,793	2,308	21.4%
Ottawa	16,790	3,713	22.1%
Putnam	12,792	2,706	21.2%
Seneca	21,961	4,751	21.6%
Wood	50,905	10,813	21.2%

Table 43. Estimated number and percentage of women (40+) with no mammogram in the past 2 years, 2010

County	Total Number of Women 40+	Estimated Number No Mammogram, Past 2 Years (40+)	Estimated Percent No Mammogram, Past 2 Years (40+)
Allen	26,562	6,823	25.7%
Defiance	10,000	2,582	25.8%
Fulton	11,105	2,920	26.3%
Hancock	18,886	4,912	26.0%
Henry	7,314	1,902	26.0%
Ottawa	12,463	3,172	25.5%
Putnam	8,609	2,256	26.2%
Seneca	14,390	3,728	25.9%
Wood	29,369	7,664	26.1%

Table 44. Estimated number and percentage of women (50+) with no mammogram in the past 2 years, 2010

County	Total Number of Women 50+	Estimated Number No Mammogram, Past 2 Years (50+)	Estimated Percent No Mammogram, Past 2 Years (50+)
Allen	19,741	4,562	23.1%
Defiance	7,411	1,720	23.2%
Fulton	7,959	1,863	23.4%
Hancock	13,775	3,206	23.3%
Henry	5,397	1,260	23.4%
Ottawa	9,487	2,182	23.0%
Putnam	6,211	1,458	23.5%
Seneca	10,785	2,526	23.4%
Wood	21,154	4,920	23.3%

Table 45. Estimated number and percentage of adults (50+) with no blood stool test in the past 2 years, 2010

County	Total Number of Adults 50+	Estimated Number No Blood Stool Test in 2 Years	Estimated Percent No Blood Stool Test in 2 Years
Allen	37,242	30,203	81.1%
Defiance	14,046	11,442	81.5%
Fulton	15,109	12,363	81.8%
Hancock	25,731	20,984	81.6%
Henry	10,202	8,325	81.6%
Ottawa	18,222	14,833	81.4%
Putnam	11,914	9,742	81.8%
Seneca	20,283	16,553	81.6%
Wood	39,620	32,399	81.8%

Table 46. Estimated number and percentage of adults (50+) who have never had a colonoscopy or sigmoidoscopy, 2010

County	Total Number of Adults 50+	Estimated Number No Colonoscopy	Estimated Percent No Colonoscopy
Allen	37,242	13,338	35.8%
Defiance	14,046	5,000	35.6%
Fulton	15,109	5,429	35.9%
Hancock	25,731	9,135	35.5%
Henry	10,202	3,619	35.5%
Ottawa	18,222	6,380	35.0%
Putnam	11,914	4,260	35.8%
Seneca	20,283	7,208	35.5%
Wood	39,620	14,237	35.9%

Table 47. Estimated number and percentage of men (40+) who have not had a PSA test in the past 2 years, 2010

County	Total Number of Men 40+	Estimated Number No PSA Test, Past 2 Years	Estimated Percent No PSA Test, Past 2 Years
Allen	24,361	10,866	44.6%
Defiance	9,178	4,056	44.2%
Fulton	10,191	4,626	45.4%
Hancock	17,030	7,670	45.0%
Henry	6,711	2,982	44.4%
Ottawa	11,621	4,924	42.4%
Putnam	8,165	3,714	45.5%
Seneca	13,234	5,885	44.5%
Wood	26,302	11,933	45.4%

Respiratory Disease

Table 48. Estimated number and percentage of adults currently diagnosed with asthma, 2010

County	Total Number of Adults	Estimated Number Current Asthma	Estimated Percent Current Asthma
Allen	80,886	7,705	9.5%
Defiance	29,434	2,726	9.3%
Fulton	31,689	2,898	9.1%
Hancock	57,154	5,316	9.3%
Henry	21,121	1,926	9.1%
Ottawa	32,833	2,949	9.0%
Putnam	25,299	2,300	9.1%
Seneca	43,377	3,990	9.2%
Wood	98,213	9,261	9.4%

Table 49. Estimated number and percentage of adults ever diagnosed with asthma, 2010

County	Total Number of Adults	Estimated Number Ever Had Asthma	Estimated Percent Ever Had Asthma
Allen	80,886	11,121	13.7%
Defiance	29,434	3,940	13.4%
Fulton	31,689	4,185	13.2%
Hancock	57,154	7,719	13.5%
Henry	21,121	2,789	13.2%
Ottawa	32,833	4,214	12.8%
Putnam	25,299	3,339	13.2%
Seneca	43,377	5,808	13.4%
Wood	98,213	13,591	13.8%

Table 50. Estimated number and percentage of adults (65+) who have not had a flu shot in the past year, 2010

County	Total Number of Adults 65+	Estimated Number No Flu Shot in Past Year	Estimated Percent No Flu Shot in Past Year
Allen	15,697	5,426	34.6%
Defiance	5,857	1,973	33.7%
Fulton	6,000	2,013	33.6%
Hancock	10,673	3,583	33.6%
Henry	4,349	1,458	33.5%
Ottawa	7,868	2,647	33.6%
Putnam	4,930	1,654	33.5%
Seneca	8,425	2,839	33.7%
Wood	15,389	5,176	33.6%

Table 51. Estimated number and percentage of adults (65+) who have never had a pneumonia vaccination, 2010

County	Total Number of Adults 65+	Estimated Number No Pneumonia Vaccination	Estimated Percent No Pneumonia Vaccination
Allen	15,697	4,916	31.3%
Defiance	5,857	1,818	31.0%
Fulton	6,000	1,859	31.0%
Hancock	10,673	3,305	31.0%
Henry	4,349	1,345	30.9%
Ottawa	7,868	2,441	31.0%
Putnam	4,930	1,526	30.9%
Seneca	8,425	2,612	31.0%
Wood	15,389	4,769	31.0%

Diabetes

Table 52. Estimated number and percentage of adults ever diagnosed with diabetes, 2010

County	Total Number of Adults	Estimated Number With Diabetes	Estimated Percent With Diabetes
Allen	80,886	8,363	10.3%
Defiance	29,434	2,938	10.0%
Fulton	31,689	3,088	9.7%
Hancock	57,154	5,426	9.5%
Henry	21,121	2,090	9.9%
Ottawa	32,833	3,606	11.0%
Putnam	25,299	2,446	9.7%
Seneca	43,377	4,212	9.7%
Wood	98,213	8,596	8.8%

Oral Health

Table 53. Estimated number and percentage of adults who did not visit a dentist in the past year, 2010

County	Total Number of Adults	Estimated Number No Dental Visit	Estimated Percent No Dental Visit
Allen	80,886	23,264	28.8%
Defiance	29,434	8,253	28.0%
Fulton	31,689	8,796	27.8%
Hancock	57,154	15,908	27.8%
Henry	21,121	5,899	27.9%
Ottawa	32,833	9,186	28.0%
Putnam	25,299	7,053	27.9%
Seneca	43,377	12,190	28.1%
Wood	98,213	27,366	27.9%

Table 54. Estimated number and percentage of adults who have ever had permanent teeth extracted, 2010

County	Total Number of Adults	Estimated Number With Teeth Extracted	Estimated Percent With Teeth Extracted
Allen	80,886	36,913	45.6%
Defiance	29,434	13,394	45.5%
Fulton	31,689	14,339	45.2%
Hancock	57,154	25,371	44.4%
Henry	21,121	9,630	45.6%
Ottawa	32,833	15,898	48.4%
Putnam	25,299	11,388	45.0%
Seneca	43,377	19,429	44.8%
Wood	98,213	41,423	42.2%

Perinatal and Early Childhood Health

Table 55. Number and rate (per 1,000 live births) of infant mortality, 2006 to 2008

County	Total Number of Live Births	Number of Infant Mortalities	Rate of Infant Mortality (per 1,000 Live Births)
Allen	4,251	31	7.3
Defiance	1,552	8	5.2
Fulton	1,598	8	5.0
Hancock	2,851	15	5.3
Henry	1,135	5	4.4
Ottawa	1,262	8	6.3
Putnam	1,512	4	2.6
Seneca	2,159	11	5.1
Wood	4,104	32	7.8

Table 56. Number and rate (per 100 live births) of low-weight births, 2006 to 2008

County	Total Number of Live Births*	Number Low-Weight Births	Rate of Low-Weight Births (per 100 Live Births)
Allen	4,246	355	8.4
Defiance	1,549	99	6.4
Fulton	1,597	102	6.4
Hancock	2,850	221	7.8
Henry	1,135	72	6.3
Ottawa	1,262	92	7.3
Putnam	1,512	74	4.9
Seneca	2,158	167	7.7
Wood	4,102	275	6.7

*Live births total only includes live births with a known weight.

Table 57. Number and rate (per 100 live births) of live births with late entry into prenatal care, 2006 to 2008

County	Total Number of Live Births*	Number with Late Entry into Prenatal Care	Rate of Late Entry into Prenatal Care (per 100 Live Births)
Allen	3,659	913	25.0
Defiance	1,252	266	21.2
Fulton	1,255	273	21.8
Hancock	2,727	553	20.3
Henry	967	166	17.2
Ottawa	1,056	252	23.9
Putnam	1,367	214	15.7
Seneca	1,767	364	20.6
Wood	3,353	885	26.4

*Live births total only includes live births with a known entry date into prenatal care

Table 58. Number and rate (per 1,000 females) of teen births (age 17 and younger), 2006 to 2008

County	Total Number of Females (Ages 10-17)	Number of Teen Births	Rate of Teen Births (per 1,000 Females Ages 10-17)
Allen	17,245	201	11.7
Defiance	6,213	47	7.6
Fulton	7,614	26	3.4
Hancock	11,980	79	6.6
Henry	4,933	32	6.5
Ottawa	5,958	32	5.4
Putnam	6,355	24	3.8
Seneca	9,097	63	6.9
Wood	18,450	88	4.8

Table 59. Number and percentage of children younger than 72 months who have not been tested for blood lead level, 2007

County	Total Number of Children <72 Months	Number of Children <72 Months Not Tested for Blood Lead Level	Percent of Children <72 Months Not Tested for Blood Lead Level
Allen	8,602	7,167	83.3%
Defiance	2,985	2,501	83.8%
Fulton	3,192	2,757	86.4%
Hancock	5,685	5,145	90.5%
Henry	2,174	1,841	84.7%
Ottawa	2,535	2,188	86.3%
Putnam	2,881	2,655	92.2%
Seneca	4,243	2,806	66.1%
Wood	8,302	6,812	82.1%

Mental Health and Substance Abuse

Table 60. Number and rate (per 100,000 people) of unintentional drug or medication mortality, 2005 to 2009

County	Total Population 2005 to 2009	Number of Unintentional Drug/Medication Deaths	Rate of Unintentional Drug/Medication Deaths (per 100,000 People)
Allen	524,732	30	5.7
Defiance	192,579	11	5.7
Fulton	212,408	7	3.3
Hancock	370,290	18	4.9
Henry	144,881	4	2.8
Ottawa	205,662	17	8.3
Putnam	172,645	6	3.5
Seneca	283,554	16	5.6
Wood	624,876	42	6.7

Table 61. Number and rate (per 100,000 people) of suicides, 2006 to 2008

County	Total Population 2006 to 2008	Number of Suicides	Rate of Suicides (per 100,000 People)
Allen	315,503	37	11.7
Defiance	115,967	10	8.6
Fulton	127,479	12	9.4
Hancock	222,255	19	8.5
Henry	86,953	9	10.4
Ottawa	123,092	14	11.4
Putnam	103,789	7	6.7
Seneca	170,009	14	8.2
Wood	374,278	41	11

Data Sources

The data for this report came from multiple sources as identified below. The sources for the tables are listed first, followed by the sources for the figures. All rates contained in this report represent crude rates and are not age adjusted.

Table 1. Population by race. U.S. Census Bureau, 2010 Census.

Table 2. Population by Hispanic or Latino ethnicity. U.S. Census Bureau, 2010 Census.

Table 3. Male population by age group. U.S. Census Bureau, 2010 Census.

Table 4. Female population by age group. U.S. Census Bureau, 2010 Census.

Table 5. Total population by age group. U.S. Census Bureau, 2010 Census.

Table 6. Educational attainment of the population age 25 and older. U.S. Census Bureau, 2006 to 2010 American Community Survey.

Table 7. Income and poverty. U.S. Census Bureau, 2006 to 2010 American Community Survey.

Table 8. Estimated payer mix. Multiple sources of data were utilized:

- *Medicare* coverage is based on enrollment as of July 1, 2010, as reported by the Centers for Medicare and Medicaid Services <https://www.cms.gov/MedicareEnrpts/>
- *Medicaid* coverage is based on enrollment as of January, 2010 for the population less than 65 years of age as reported by the Ohio Department of Job and Family Services. <http://jfs.ohio.gov/OHP/reports/data/MedDataTotalElig.stm>.
- *Uninsured* rates for the population less than 65 years of age were obtained from the U.S. Census Bureau's Model-Based Small Area Health Insurance Estimates (SAHIE) for Counties and States (<http://www.census.gov/did/www/sahie/data/2009/dataset.html>). The Census Bureau does not produce SAHIE estimates for the population age 65 and older. To adjust for differences in reporting year between the 2009 SAHIE and the 2010 Medicare and Medicaid enrollment values, the 2009 SAHIE uninsured rates were applied to the 2010 Census population counts to estimate the number of individuals in the region that were uninsured.
- The remainder of the population (those not covered through Medicare or Medicaid or identified as uninsured) were classified as being covered by private insurance. Note: some individuals may not have been covered by private insurance for the entire period and many of these individuals may have been underinsured.

Tables 9 to 18: Leading Causes of Mortality. Ohio Department of Health's Data Warehouse, 2006 to 2008.

Tables 19 to 23: Health Risk Factors. Data from the 2010 Ohio Behavioral Risk Factor Surveillance System were used to generate synthetic estimates for the counties by applying age-, gender- and/or race specific Ohio rates to the respective county 2010 census population totals.

Tables 24 to 30. Heart Disease and Stroke. Data from the Ohio Behavioral Risk Factor Surveillance System were used to generate synthetic estimates for the counties by applying age-, gender- and/or race-specific Ohio rates to the respective county 2010 census population totals.

- **Table 24. Estimated number and percentage of adults who have not had their cholesterol checked in the past 5 years.** Behavioral Risk Factor Surveillance System, 2009. Note: individuals who have never had their cholesterol checked are included in the reported rates and counts.
- **Table 25. Estimated number and percentage of adults who have never had their cholesterol checked.** Behavioral Risk Factor Surveillance System, 2009.
- **Table 26. Estimated number and percentage of adults who have ever been told they have high cholesterol (of those tested).** Behavioral Risk Factor Surveillance System, 2009. Note: Only individuals who reported previously having undergone a blood cholesterol test were included in the calculation of this rate.
- **Table 27. Estimated number and percentage of adults who have ever been told they have high blood pressure.** Behavioral Risk Factor Surveillance System, 2009.
- **Table 28. Estimated number and percentage of adults who have ever been told they have angina or coronary heart disease.** Behavioral Risk Factor Surveillance System, 2010.
- **Table 29. Estimated number and percentage of adults who have ever been told they had a stroke.** Behavioral Risk Factor Surveillance System, 2010.
- **Table 30. Estimated number and percentage of adults who have ever been told they had a heart attack.** Behavioral Risk Factor Surveillance System, 2010.

Tables 31 to 41. Cancer Mortality. Ohio Department of Health's Data Warehouse, 2006 to 2008. Note: Prostate cancer and female breast cancer and mortality rates were calculated using gender-specific population totals.

Tables 42 to 47. Cancer Screening. Data from the 2010 Ohio Behavioral Risk Factor Surveillance System were used to generate synthetic estimates for the counties by applying age-, gender- and/or race-specific Ohio rates to the respective county 2010 census population totals. Behavioral Risk Factor Surveillance System, 2010.

Tables 48 to 51. Respiratory Disease. Data from the 2010 Ohio Behavioral Risk Factor Surveillance System were used to generate synthetic estimates for the counties by applying age-, gender- and/or race-specific Ohio rates to their respective county 2010 census population totals.

Table 52. Diabetes. Data from the 2010 Ohio Behavioral Risk Factor Surveillance System were used to generate synthetic estimates for the counties by applying age-, gender- and/or race-specific Ohio rates to the respective county 2010 census population totals.

Table 53 to 54. Oral Health. Data from the 2010 Ohio Behavioral Risk Factor Surveillance System were used to generate synthetic estimates for the counties by applying age-, gender- and/or race-specific Ohio rates to the respective county 2010 census population totals.

Tables 55 to 59. Perinatal and Early Childhood Health. Data on, infant mortality, low-weight births, live births with late entry into prenatal care and births to teens age 17 and younger were obtained from the Ohio Department of Health's Data Warehouse and represent a 3-year period ending in 2008. Data on children not tested for blood lead levels were obtained from the Centers for Disease Control and Prevention and are for the year 2007.

- **Table 55. Number and rate (per 1,000 live births) of infant mortality.** Ohio Department of Health's Data Warehouse, 2006 to 2008.
- **Table 56. Number and rate (per 100 live births) of low-weight births.** Ohio Department of Health's Data Warehouse, 2006 to 2008. Note: Live births total only includes live births for which there was a known weight.
- **Table 57. Number and rate (per 100 live births) of live births with late entry into prenatal care.** Ohio Department of Health's Data Warehouse, 2006 to 2008. Note: Live births total only includes live births for which there was a known entry date into prenatal care.
- **Table 58. Number and rate (per 1,000 females) of teen births (age 17 and younger).** Ohio Department of Health's Data Warehouse, 2006 to 2008. Note: Teen female population only includes females ages 10 to 17.
- **Table 59. Number and percentage of children younger than 72 months who have not been tested for blood lead level.** Centers for Disease Control and Prevention, 2007.

Table 60 to 61. Mental Health and Substance Abuse. Data on unintentional drug and medication mortality for 2005 to 2009 were obtained from the following report produced by the Ohio Department of Health: Unintentional Drug Overdose Death Rates by County, Ohio Department of Health. <http://www.healthyohioprogram.org/ASSETS/2A9C2B99A15F44839F3E9125DD0B40B4/countypoisondeaths04to09.pdf>. Data on suicides for 2006 to 2008 were obtained from the Ohio Department of Health's data warehouse.

- **Table 60. Number and rate (per 100,000 people) of unintentional drug or medication mortality.** Ohio Department of Health: Unintentional Drug Overdose Death Rates by County, 2005 to 2009.
- **Table 61. Number and rate (per 100,000 people) of suicides.** Ohio Department of Health's Data Warehouse, 2006 to 2008.

Figure 1. Needs assessment region. The counties comprising the region as shown in Figure 1 were selected by critical access hospitals in November 2011.

Figure 2. Medial primary care health professional shortage and medically underserved areas. Data were downloaded from the US Department of Health and Human Services Health Resources and Services Administration (HRSA) website on Oct 24, 2011.

Figure 3. Population by physician ratio. Data were obtained from the Dartmouth Atlas of Health Care and are derived from the 2007 HRSA American Medical Association physician master file.