**Supplemental Table 1. Modified Rural-Urban Continuum Codes Defined**

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| Code | Definition |
| 0 | Central counties of metropolitan areas of 1 million population or more |
| 1 | Fringe counties of metropolitan areas of 1 million population or more |
| 2 | Counties of metropolitan areas of 1million population or more |
| 3 | Counties in metropolitan areas of fewer than 250,000 population |
| 4 | Adjacent to a metropolitan area, urban population of 20,000 or more |
| 5 | Not adjacent to a metropolitan area, urban population of 20,000 or more |
| 6 | Adjacent to a metropolitan area, urban population of 2,500-19,999 |
| 7 | Not adjacent to a metropolitan area, urban population of 2,500-19,9000 |
| 8 | Adjacent to a metropolitan area, less than 2,500 urban population |
| 9 | Not-adjacent to a metropolitan area, less than 2,500 urban population |

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| **Supplemental Table 2. Individual Demographic Variables and Data Sources for Composite Variables Derived by Factor Analysis** | | |
| **Composite Variable** | **Individual Variables** | **Sources** |
| Income | Per Capita Income | Neilsen/Claritas |
| Per Capita Income | 2005-2009 ACS (BG) |
| Median Household Income | 2005-2009 ACS (BG) |
| Median Family Income | 2005-2009 ACS (BG) |
| Poverty | % Population Under 18 Living in Poverty | 2005-2009 ACS (CT) |
| % Population 18 to 64 Living in Poverty | 2005-2009 ACS (CT) |
| % Population 65 and Over Living in Poverty | 2005-2009 ACS (CT) |
| % Total Population Living in Poverty | 2005-2009 ACS (CT) |
| % of Households Receiving Public Assistance Income | 2005-2009 ACS (BG) |
| % of Families with Income Below the Poverty Level | 2005-2009 ACS (BG) |
| Uninsured | % Under 19 without Health Insurance 2009 | 2011-2012 ARF |
| % Under 65 without Health Insurance 2009 | 2011-2012 ARF |
| CMS Eligibles | % Eligible for Medicare | 2011-2012 ARF |
| % Eligible for Medicaid | 2011-2012 ARF |
| Education – Dropouts | % Population 25 or Over with Less than High School Degree | 2005-2009 ACS (BG) |
| % Population 25 or Over with Some College Education | 2005-2009 ACS (BG) |
| Education - Degrees | % Population 25 or Over, High School Graduate | 2005-2009 ACS (BG) |
| % Population 25 or Over, Bachelors Degree | 2005-2009 ACS (BG) |
| % Population 25 or Over, Master’s Degree | 2005-2009 ACS (BG) |
| % Population 25 or Over, Professional Degree | 2005-2009 ACS (BG) |
| % Population 25 or Over, Doctoral Degree | 2005-2009 ACS (BG) |
| Employment | % in Labor Force who are Employed | Neilsen/Claritas |
| Black/Non-White | % Black | Neilsen/Claritas |
| % Non-White | Neilsen/Claritas |
| Hispanic/Foreign Born | % Hispanic | Neilsen/Claritas |
| % Foreign Born | Neilsen/Claritas |
| Healthcare Utilization | Per Capita Total Hospital Admissions 2008 | 2011-2012 ARF |
| Per Capita Total Hospital Beds 2008 | 2011-2012 ARF |
| Per Capita Total Hospital Inpatient Days 2008 | 2011-2012 ARF |
| Per Capita Total Hospital ED  Visits 2008 | 2011-2012 ARF |
| Healthcare Resources – Doctors | Per Capita Non-Federal MDs in General Surgery Devoted to Total Patient Care 2010 | 2011-2012 ARF |
| Per Capita Non-Federal MDs in Emergency Medicine Devoted to Total Patient Care 2010 | 2011-2012 ARF |
| Healthcare Resources – Hospitals | Per Capita Total Number of Hospitals 2008 | 2011-2012 ARF |
| Per Capita Total Number of Critical Access Hospitals 2008 | 2011-2012 ARF |
| Per Capita STG Hospitals With ED 2008 | 2011-2012 ARF |
| BG = block group level data  CT = census tract level data  ACS = American Community Survey  ARF = Area Resource File | | |