

### Explanation of the 2010 Urban Area to County Relationship File:

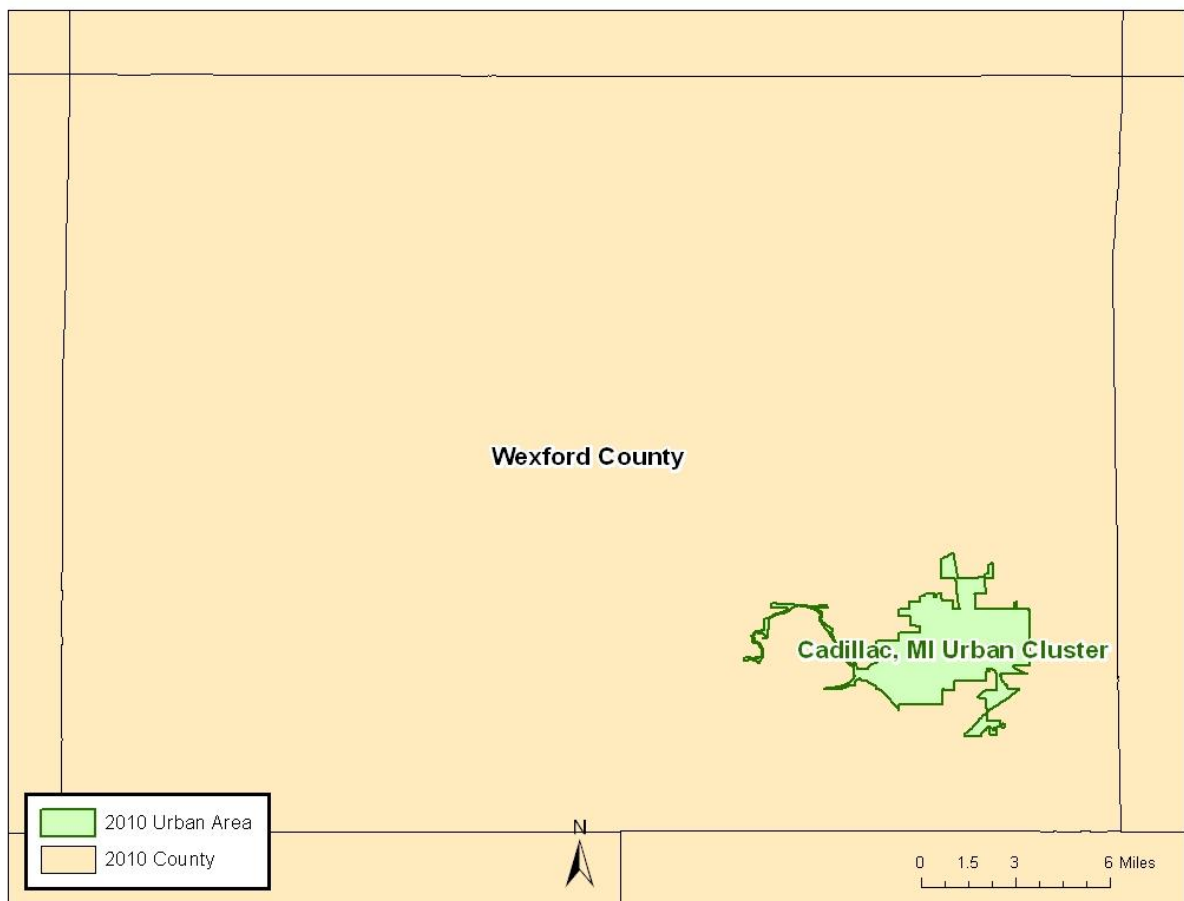
The 2010 Urban Area to County Relationship File provides relationships between the 2010 urban areas and the 2010 county or county equivalents. Urban areas include both urbanized areas (UA) and urban clusters (UC), and areas outside urban areas are considered rural. This list can be utilized to see if a county is urban, rural, or contains both urban and rural area. Each record in the relationship file represents one polygon that is formed when the 2010 urban areas overlay the county or county equivalents. The polygon may represent the intersection of a 2010 urban area and a county or the portion on the county that does not contain a 2010 urban area. It is important to note that all population and housing unit figures given in the file are from the 2010 Census population count.

### Explanation of Urban Area to County Relationship File: Example 1

This example describes when a county only contains one urban area and that urban area falls wholly within the county. In this example, the Cadillac, MI UC is in green below and falls wholly within Wexford County, which is outlined in black. There is only one record for the Cadillac, MI UC (Value 1). The 2010 population for this relationship record is 11,690 (POPPT) and is equal to the 2010 population of 11,690 for Cadillac, MI UC (UAPOP). Likewise, the 2010 housing unit count for both the relationship record (HUPT) and the urban area (UAHU) is 5,829. Therefore, the percentage of the total population of Cadillac, MI UC represented by the relationship record (UAPOPCT) is 100. Although Cadillac, MI UC falls entirely within Wexford County, Wexford County is bigger than the urban area. Since no other urban areas fall within Wexford County, there is only one additional record in the relationship file for the county. Value 2 represents the area of Wexford County that falls outside of the Cadillac, MI UC and is designated with the name 'Not in a 2010 urban area' (UANAME). The 2010 population living in the portion of Wexford County outside of any urban area is 21,045 (POPPT) and represents 64.29% of the total population living in Wexford County (CPOPCT). These numbers also represent the rural population in Wexford County.

Field	Value 1	Value 2
UA	12160	99999
UANAME	Cadillac, MI Urban Cluster	Not in a 2010 urban area
STATE	26	26
COUNTY	165	165
GEOID	26165	26165
CNAME	Wexford County	Wexford County
POPPT	11690	21045
HUPT	5829	10907
AREAPT	27398616	1463050467
AREALANDPT	22635287	1440712571
UAPOP	11690	
UAHU	5829	
UAAREA	27398616	
UAAREALAND	22635287	
CPOP	32735	32735
CHU	16736	16736

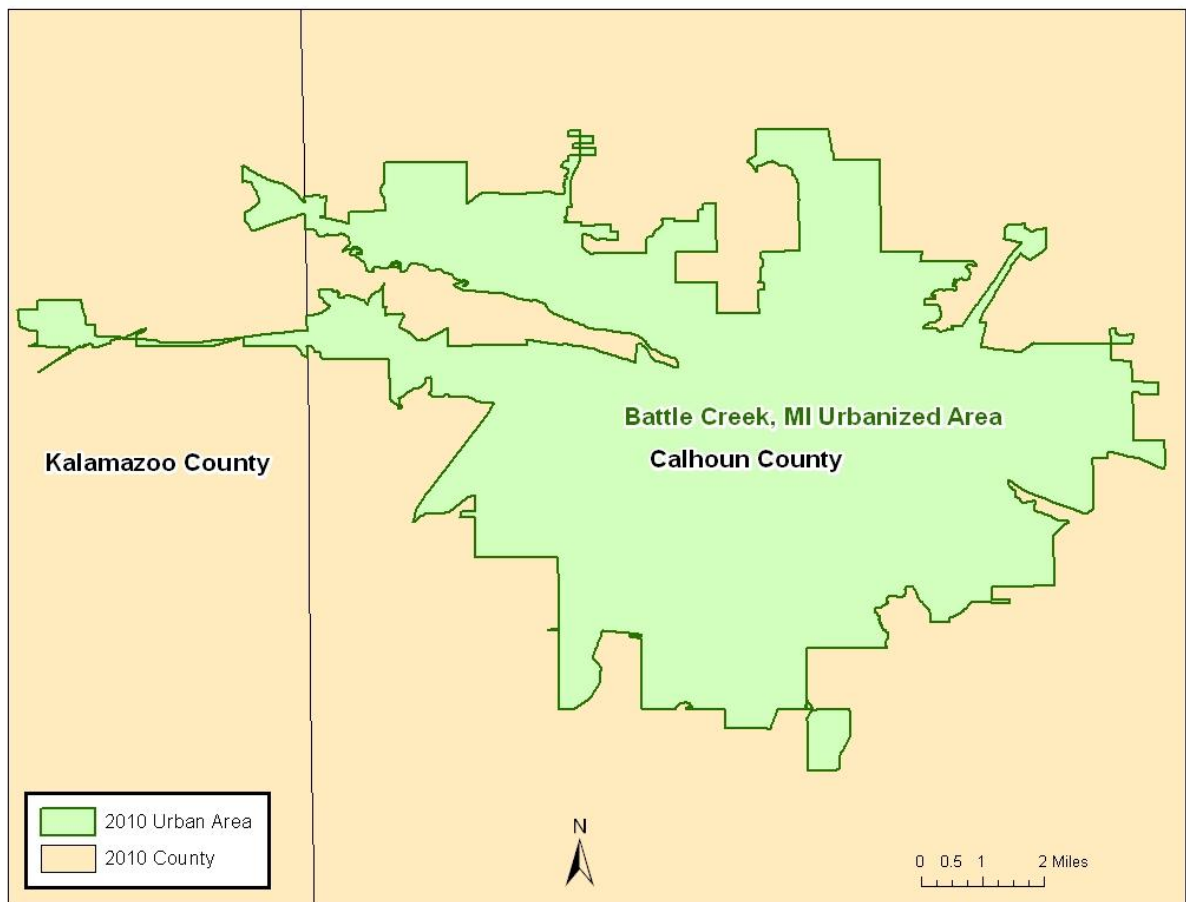
Field	Value 1	Value 2
CAREA	1463347858	1463347858
CAREALAND	1490449083	1490449083
UAPOPCT	100	
UAHUPCT	100	
UAAREAPCT	100	
UAAREALANDPCT	100	
CPOPCT	35.71	64.29
CHUPCT	34.83	65.17
CAREAPCT	1.87	99.98
CAREALANDPCT	1.52	96.66



## Explanation of Urban Area to County Relationship File: Example 2

This example describes when a 2010 urban area falls into more than one county. In this example, the Battle Creek, MI UA is in green below and falls in two Counties: Calhoun and Kalamazoo, which are outlined in black. The first record describes the relationship between the Battle Creek, MI UA and Calhoun County. The 2010 population living within the Battle Creek, MI UA is 78,393 (UAPOP) but only 77,325 (POPPT) also live within Calhoun County. This represents 98.64% of the total population (UAPOPCT) for the Battle Creek, MI UA. Furthermore, out of the total population living within Calhoun County, only 56.8% (CPOPCT) live within the Battle Creek, MI UA. The second record describes the relationship between the Battle Creek, MI UA and Kalamazoo County. The 2010 population living in the Battle Creek, MI UA and in Kalamazoo County is 1,068 (POPPT) and represents 1.36% (UAPOPCT) of the total population in the Battle Creek, MI UA. Furthermore, 0.43% (CPOPCT) of the total population in Kalamazoo County also lives in the Battle Creek, MI UA. Both Calhoun and Kalamazoo Counties contain additional urban areas and area outside of a 2010 UA. Therefore, there are additional records in the relationship file for these records that are not shown below.

Field	Value 1	Value 2
UA	05707	05707
UATYPE	Battle Creek, MI Urbanized Area	Battle Creek, MI Urbanized Area
STATE	26	26
COUNTY	025	077
GEOID	26025	26077
CNAME	Calhoun County	Kalamazoo County
POPPT	77325	1068
HUPT	35750	450
AREAPT	137451130	3408345
AREALANDPT	133939917	3384190
UAPOP	78393	78393
UAHU	36200	36200
UAAREA	140859475	140859475
UAAREALAND	137324107	137324107
CPOP	136146	250331
CHU	61042	110007
CAREA	1829135298	1454688724
CAREALAND	1860525582	1502962768
UAPOPCT	98.64	1.36
UAHUPCT	98.76	1.24
UAAREAPCT	97.58	2.42
UAAREALANDPCT	97.54	2.46
CPOPCT	56.8	0.43
CHUPCT	58.57	0.41
CAREAPCT	7.51	0.23
CAREALANDPCT	7.2	0.23



### Explanation of Urban Area to County Relationship File: Example 3

This example describes when a county contains more than one urban area. In this example, Marquette County contains two urban areas: Marquette, MI UC (Value 1) and Ishpeming, MI UC (Value 2). In addition, there is a third record in the relationship file representing portions of the county are not in a 2010 urban area (Value 3). Both urban areas are shown in green below and Marquette County is outlined in black. In the first record, the Marquette, MI UC falls wholly within Marquette County. The 2010 population for this record is 26,946 (POPPT) which is equal to the total population of the Marquette, MI UC (UAPOP). The total population for Marquette County is 67,077 (CPOP) and 40.17% (CPOPPCT) of the population living with Marquette County also live within the Marquette, MI UC. In the second record, the Ishpeming MI, UC also falls wholly within Marquette County. The 2010 population for both Ishpeming and the polygon represented by this record is 12,301 (POPPT). In addition, 18.34% (CPOPPCT) living within Marquette County also live within the Ishpeming, MI UC. The third record represents the area not covered by a 2010 urban area and represents the rural population. The 2010 population that live is considered rural in Marquette County is 27,830 (POPPT) and represents 41.49% (CPOPPCT) of the total population in Marquette County.

Field	Value 1	Value 2	Value 3
UA	54874	41833	99999
UATYPE	Marquette, MI Urban Cluster	Ishpeming, MI Urban Cluster	Not in a 2010 urban area
STATE	26	26	26
COUNTY	103	103	103
GEOID	26103	26103	26103
CNAME	Marquette County	Marquette County	Marquette County
POPPT	26946	12301	27830
HUPT	11218	5672	17440
AREAPT	41904604	16951780	8810660600
AREALANDPT	40601343	16708481	4626427542
UAPOP	26946	12301	
UAHU	11218	5672	
UAAREA	41904604	16951780	
UAAREALAND	40601343	16708481	
CPOP	67077	67077	67077
CHU	34330	34330	34330
CAREA	4683737366	4683737366	4683737366
CAREALAND	8869516984	8869516984	8869516984
UAPOPPCT	100	100	
UAHUPCT	100	100	
UAAREAPCT	100	100	
UAAREALANDPCT	100	100	
CPOPPCT	40.17	18.34	41.49
CHUPCT	32.68	16.52	50.8
CAREAPCT	0.89	0.36	188.11
CAREALANDPCT	0.46	0.19	52.16

