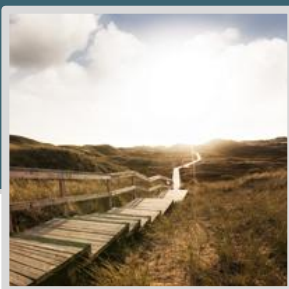# Student Home County Mapping

Prepared for Clarion University of Pennsylvania

September 2013

In the following report, Hanover Research presents maps that compare the wealth of the counties in Pennsylvania with the average number of students enrolled at Clarion University of Pennsylvania from those counties.

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EXECUTIVE SUMMARY AND KEY FINDINGS

INTRODUCTION

In the following repot, Hanover Research presents maps that compare wealth of counties in Pennsylvania (PA) with the number of students enrolled at Clarion University of Pennsylvania in Fall 2010, 2011, and 2012 from these counties. For this analysis, we use county-level per capita income as an indicator for the amount of wealth of these counties. In total, we created four different maps, with the first map (Figure 2.1) providing an overview of the distribution of per capita income among the counties in PA. The second and third maps (Figures 2.2 and 2.3) compare the wealth of the counties with the number of enrollments[1] at the university from the counties in PA. The final map (Figure 2.4) shows how the number of students at Clarion University from the various counties in PA changed between Fall 2010 and Fall 2012 in comparison to the wealth of the counties.

KEY FINDINGS

- Table 1 shows the counties with the highest and lowest per capita income in PA with the average number of freshmen and average overall enrollment between 2010 and 2012. Between the top three wealthiest counties in terms of per capita income, Clarion University enrolls more students from Montgomery County than either Chester County or Bucks County.

Table 1: Wealthiest and Poorest PA Counties

TOP THREE	PER CAPITA INCOME	AVERAGE NUMBER OF FRESHMEN (2010-12)	AVERAGE ENROLLMENT (2010-12)
Chester County	$42,042	6	32
Montgomery County	$41,163	13	43
Bucks County	$36,601	9	32
Bottom Three	**Per Capita Income**	**Average Number of Freshmen (2010-12)**	**Average Enrollment (2010-12)**
Forest County	$14,306	19	47
Fayette County	$19,717	9	21
Mifflin County	$19,758	2	15
PA	**$27,824**	**1,224**	**5,922**

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[1] Average number of freshmen and total enrollment at the University are mapped separately. While freshmen only indicate undergraduate students, total enrollment includes both undergraduate and graduate students.

- Table 2 indicates that approximately 40 percent of new students from PA who enrolled in an undergraduate program at Clarion University between 2010 and 2012, are from Allegheny County, Venango County, and Clarion County. Only Allegheny is considered a wealthy county, as its average per capita income is higher than the state average. Clarion University did not enroll any undergraduate students from Fulton County between 2010 and 2012.

Table 2: Average Number of Freshmen (2010 to 2012)

	AVERAGE NUMBER OF FRESHMEN	PER CAPITA INCOME
PA	**2,072**	**$27,824**
Top	**Average Number of Freshmen**	**County Per Capita Income**
Allegheny County	279 (13.5%)	Above State Average
Venango County	269 (13.0%)	Below State Average
Clarion County	268 (13.0%)	Below State Average
Bottom	**Average Number of Freshmen**	**County Per Capita Income**
Fulton County	0	Below State Average
Wyoming County	1	Below State Average
Sullivan County	1	Below State Average

- In terms of both undergraduate and graduate enrollment at Clarion University, approximately 38 percent of the all PA students come from Allegheny County, Clarion County, and Venango County. Between 2010 and 2012, an average of 814 students enrolled from Allegheny County, which is considered a wealthy state.

Table 3: Average Enrollment[2] (2010 to 2012)

	AVERAGE ENROLLMENT	PER CAPITA INCOME
PA	**5,922**	**$27,824**
Top	**Average Enrollment**	**County Per Capita Income**
Allegheny County	814 (13.7%)	Above State Average
Clarion County	758 (12.8%)	Below State Average
Venango County	673 (11.3%)	Below State Average
Bottom	**Average Enrollment**	**County Per Capita Income**
Sullivan County	1	Below State Average
Fulton County	2	Below State Average
Wyoming County	3	Below State Average

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[2] Total Enrollment includes both undergraduate and graduate students.

- Between 2010 and 2012, Clarion University experienced the highest increases in enrollment figures from Adams County, Lehigh County, and Schuylkill County. However, over the same time period, the number of students enrolled at Clarion University from Allegheny County, Erie County, and Mercer County decreased significantly.

Table 4: Difference in Enrollment Between 2010 and 2012

	CHANGE FROM 2010 TO 2012	PER CAPITA INCOME
PA	**-813**	**$27,824**
Increase in Enrollment	**Change from 2010 to 2012**	**County Per Capita Income**
Adams County	15	Below State Average
Lehigh County	12	Below State Average
Schuylkill County	10	Below State Average
Decrease in Enrollment	**Change from 2010 to 2012**	**County Per Capita Income**
Allegheny County	-106	Above State Average
Erie County	-75	Below State Average
Mercer County	-70	Below State Average

SECTION I: METHODOLOGY

Clarion University of Pennsylvania provided Hanover Research with student level data for Fall 2010, 2011, and 2012, which were used to compute the number of new students as well as the total number of students enrolled at Clarion University from each county in PA. In this report, we compare the three year average number of freshman and the three year average enrollment with the wealth of each of the counties in the state. In addition to this, we also created a separate map which indicates how the number of students enrolled at the university from PA counties varied between 2010 and 2012.

We used per capita income of each county as a standard indicator of the "wealth" of a county. County level per capita income is available from the U.S. Census Bureau, and is defined as the mean money income received in the past 12 months computed for everyone over the age of 15 in the geographic area.[3] The per capita income data used in this report use a five year estimate (2007-2011) in 2011 inflation adjusted dollars.
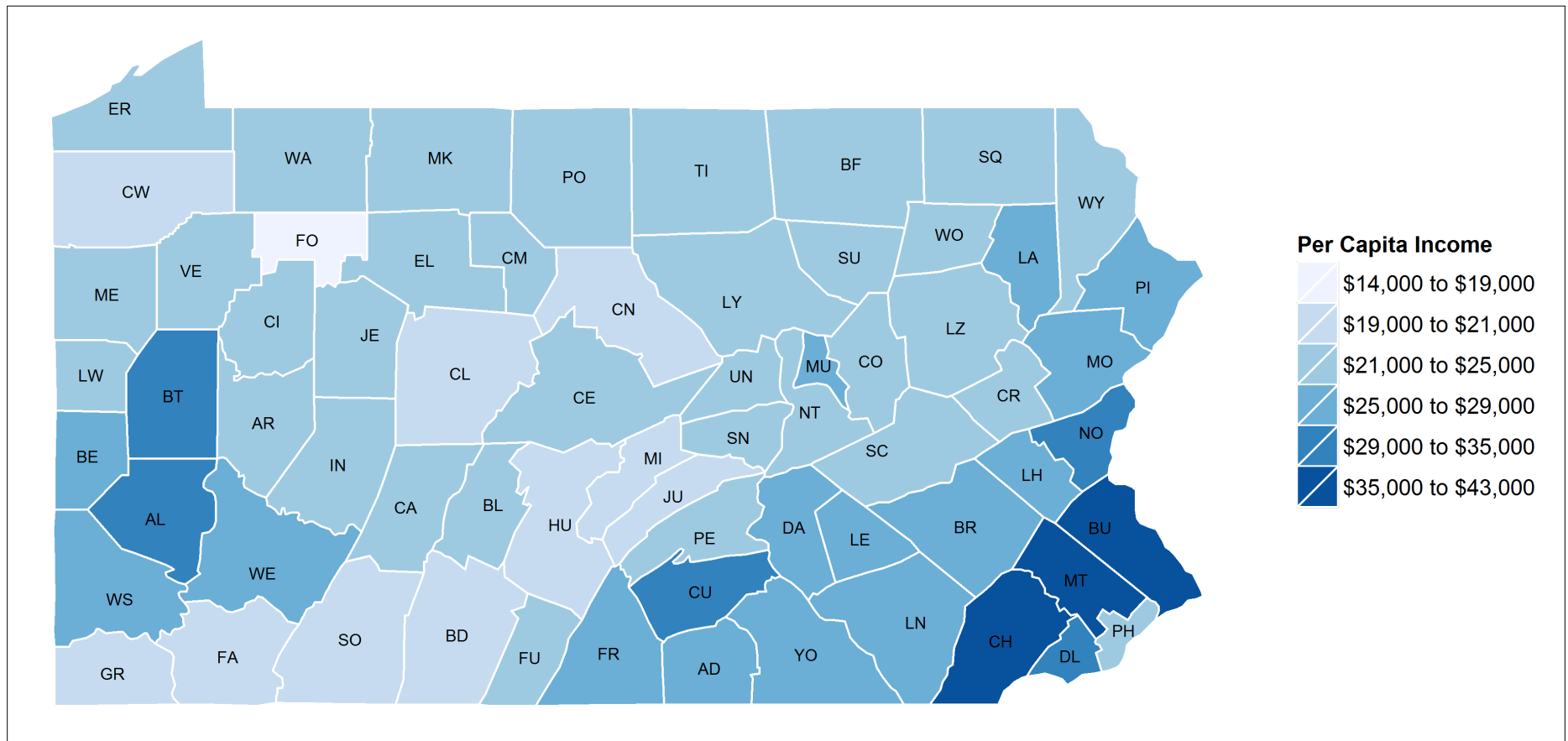
Figure 2.1 is a simple choropleth map that shows the distribution of per capita income among the various counties in PA (darker shade of blue indicating wealthier counties). In Figures 2.2 through 2.4, counties with per capita income higher than the state average are highlighted in **green**, while counties with per capita income lower than the state average are highlighted in **orange**. For each of the counties, different shades of green and orange are used to indicate the average number of new students, the average number of students enrolled at Clarion University and the difference in the number of students enrolled between 2010 and 2012. In our maps, **darker shades of green or orange indicate higher enrollment or higher differences in enrollment between years**.

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[3] These data are collected in the American Community Survey (ACS). The data are estimates and are subject to sampling variability. The data for each geographic area are presented together with margins of error at factfinder2.census.gov. The data are period estimates, that is, they represent the characteristics of the population over a specific 60-month data collection period.
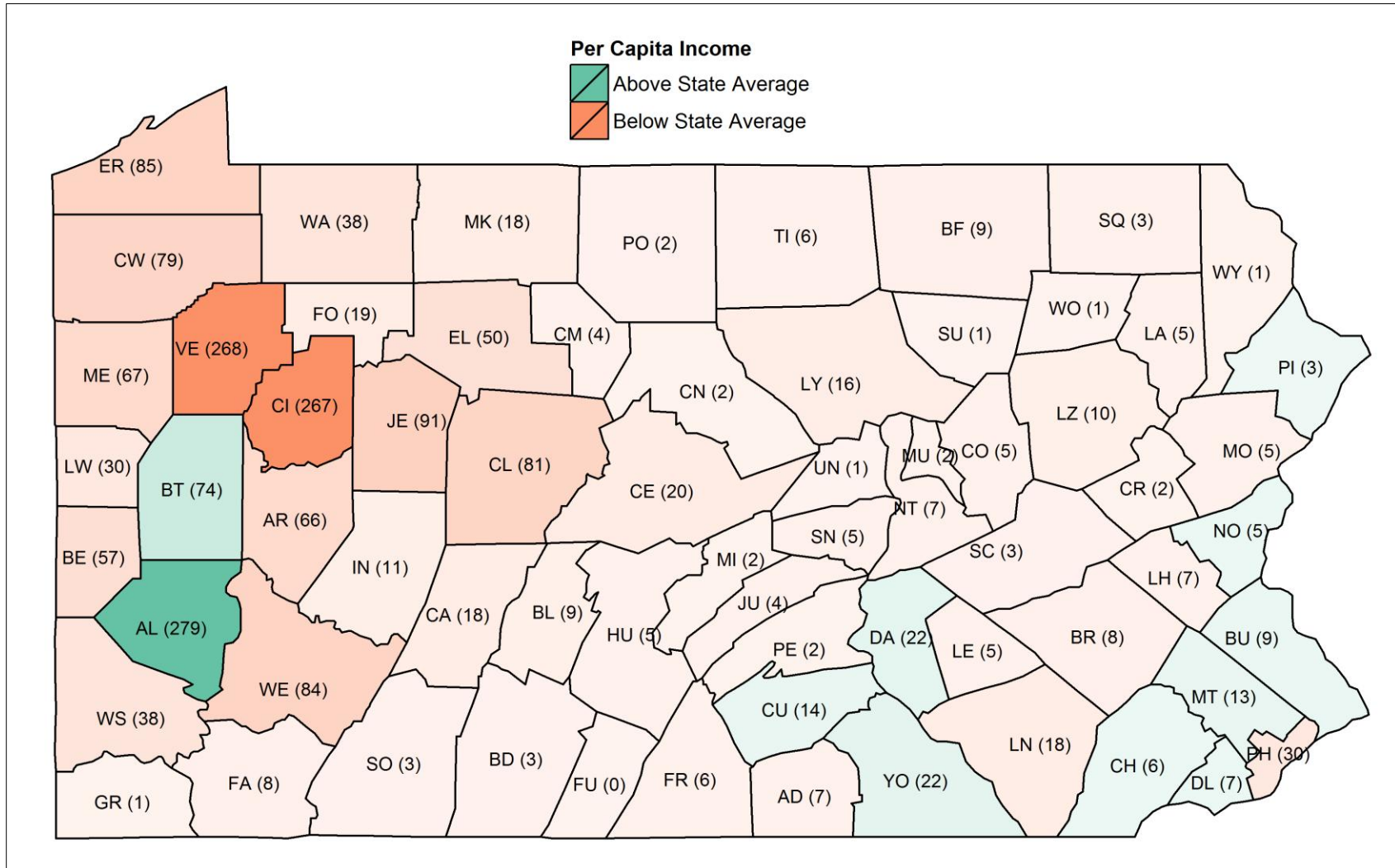
SECTION II: MAPS

Figure 2.1: Pennsylvania per Capita Income in the Past 12 Months (in 2011 Inflation-Adjusted Dollars), 2007-2011 by County[4]
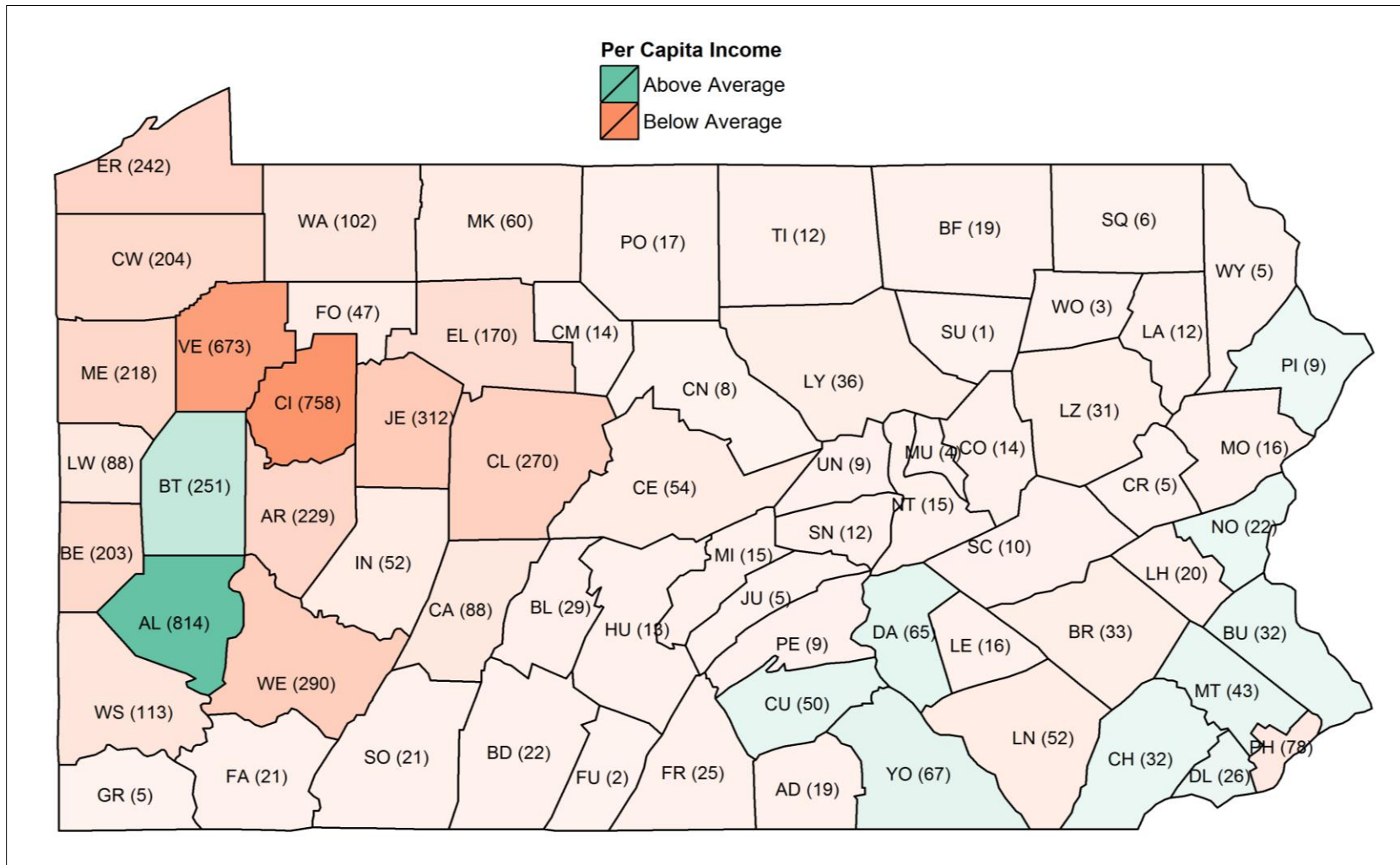

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[4] Please refer to Figure A.1 in Appendix A for the county codes.

Figure 2.2: Per Capita Income and Average Number of Freshmen at Clarion University of Pennsylvania between 2010 and 2012 by Counties in Pennsylvania
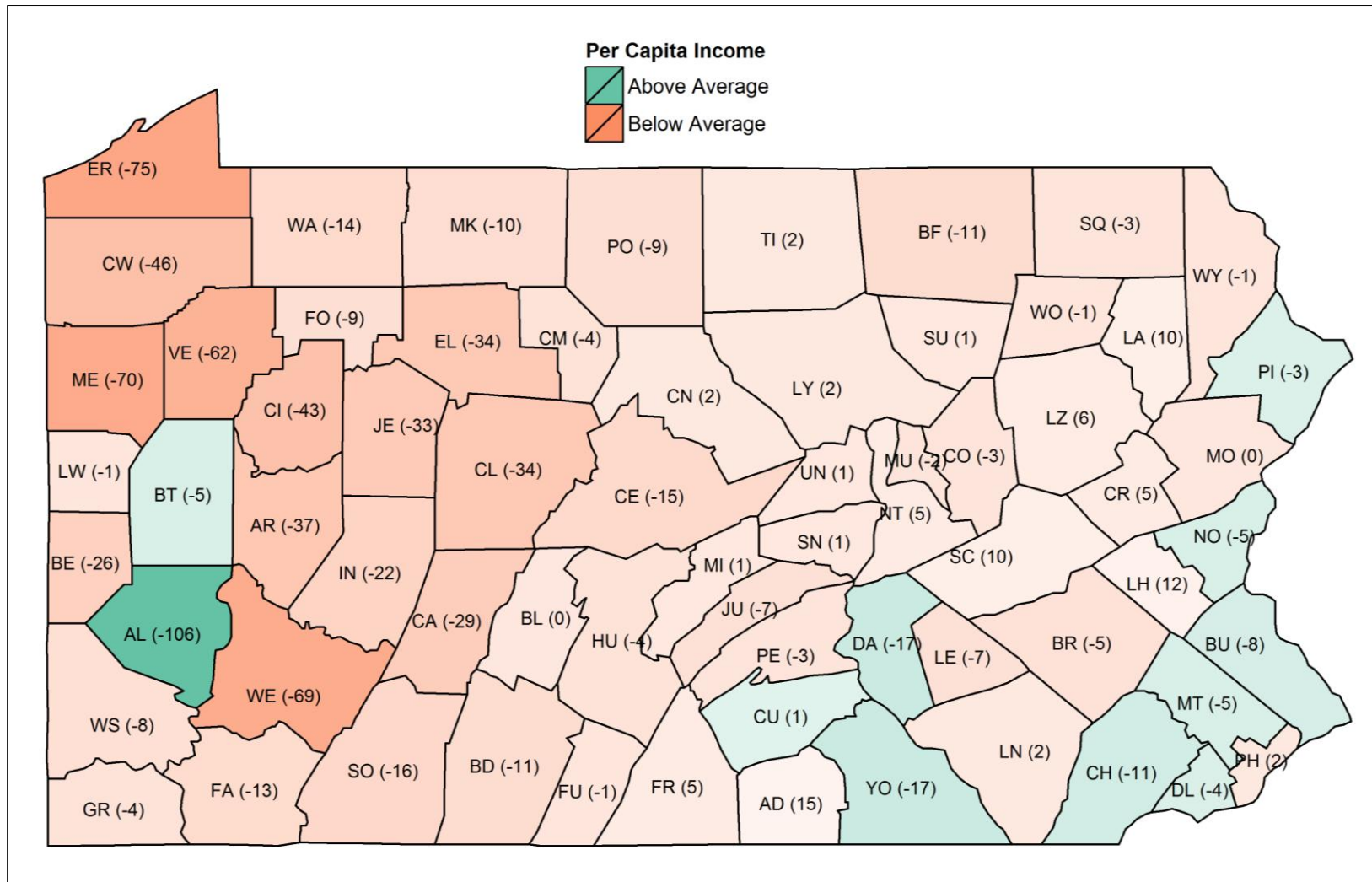
Figure 2.3: Per Capita Income and Average Number of Students Enrolled at Clarion University of Pennsylvania between 2010 and 2012 by Counties in Pennsylvania

Figure 2.4: Per Capita Income and the Difference in Student Enrollment at Clarion University of Pennsylvania between 2010 and 2012 by Counties in Pennsylvania

APPENDIX A: COUNTY CODES

Figure A.1: County Codes Used in the Maps

COUNTY NAMES	CODE	COUNTY NAMES	CODE
Adams County	AD	Juniata County	JU
Allegheny County	AL	Lackawanna County	LA
Armstrong County	AR	Lancaster County	LN
Beaver County	BE	Lawrence County	LW
Bedford County	BD	Lebanon County	LE
Berks County	BR	Lehigh County	LH
Blair County	BL	Luzerne County	LZ
Bradford County	BF	Lycoming County	LY
Bucks County	BU	McKean County	MK
Butler County	BT	Mercer County	ME
Cambria County	CA	Mifflin County	MI
Cameron County	CM	Monroe County	MO
Carbon County	CR	Montgomery County	MT
Centre County	CE	Montour County	MU
Chester County	CH	Northampton County	NO
Clarion County	CI	Northumberland County	NT
Clearfield County	CL	Perry County	PE
Clinton County	CN	Philadelphia County	PH
Columbia County	CO	Pike County	PI
Crawford County	CW	Potter County	PO
Cumberland County	CU	Schuylkill County	SC
Dauphin County	DA	Snyder County	SN
Delaware County	DL	Somerset County	SO
Elk County	EL	Sullivan County	SU
Erie County	ER	Susquehanna County	SQ
Fayette County	FA	Tioga County	TI
Forest County	FO	Union County	UN
Franklin County	FR	Venango County	VE
Fulton County	FU	Warren County	WA
Greene County	GR	Washington County	WS
Huntingdon County	HU	Wayne County	WY
Indiana County	IN	Westmoreland County	WE
Jefferson County	JE	Wyoming County	WO
		York County	YO

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1750 H Street NW, 2nd Floor
Washington, DC 20006

P 202.756.2971 F 866.808.6585
www.hanoverresearch.com