



Executive Summary

The present study set out to determine whether relationships existed between the change in tuition rates, tuition and fees rates, and tuition, fees, and room and board rates at Illinois State University and student application, admission, yield rate, and enrollments, in order to answer the question “To what extent have price changes at Illinois State University affected new freshman application and enrollment decisions by Illinois residents over the past five years?” The study found:

- Overall, tuition increases at Illinois State University have not affected application or enrollment behavior.
- In thirteen Illinois counties, there were strong negative application relationships, which mean that as tuition and fees increased at Illinois State University, applications decreased within those counties.
- Eight of the thirteen counties where there were strong negative application relationships fell along the western edge of the state; half of those eight focused around the St. Louis area.
- Seventy-five percent of the applications and enrollments for 2012 came from seven counties. Of those seven, Cook, Will, and McLean counties had an increase in applicants and enrollments as tuition increased. However DuPage, McHenry, and Kane counties had a decrease in applicants and enrollments as tuition increased. Lake county had an increase in applicants as tuition increased, however Lake county’s enrollment number moved in a pattern that was not related to the increase in tuition.
- Admissions and yield rate moved in opposite directions to each other in relation to tuition. As tuition increased, admissions increased and yield rate decreased.

Further analysis will be conducted to determine whether changes in student demographics, including racial/ethnic identity and median household income level, are present within the changes in student application, admission, and enrollment behavior as related to tuition. All data for the current study is available in Appendix A.

Research Question 1: Applications

Research question one considered whether there was a correlation between the change in full-time resident undergraduate tuition rates and first-time freshman applications in terms of a change in the number of applications from the previous year. The correlation coefficients of cost to number of applications per Illinois county spanned the full range of -1.0 to 1.0 when comparing change over the 5 year period (Table 1). The state as a whole had a correlation coefficient of -.16 which would indicate that applications as a whole have not followed a pattern that is relative to an increase in tuition costs at Illinois State.

Strong Negative

- 13 counties had strong negative correlations ranging between -1.0 and -.80.
- Eight of the thirteen counties fell along the western edge of the state; half of those eight focused around the St. Louis area. This may be an indication of student applying to out of state



institutions as Illinois State's costs increased or choosing to stay closer to home at institutions such as Southern Illinois University Edwardsville.

- DuPage county had a strong negative correlation to increased tuition costs. This matched findings of the 2012 Competitor Cost Analysis wherein the College of DuPage appeared for the first time among the top ten institutions that enrolled students from Illinois State University's matriculation pool.

Moderate Negative

- A quarter of Illinois counties (27) had moderate negative correlations with tuition costs ranging from $-.78$ through $-.40$.
- The greatest concentration of these counties was located in the northwestern quadrant of the state.
- These counties are also found surrounding those counties along the western edge of the state with strong negative correlations.

Weak Negative

- Five counties within Illinois had a weak negative correlation to the increasing tuition costs with coefficients ranging from $-.39$ to $-.21$.
- These five counties have no visible geographic relation.

Null

- One fifth (22) of Illinois counties are not correlated with the cost of tuition.
- These institutions had coefficients ranging from $-.19$ through $.19$.

Weak Positive

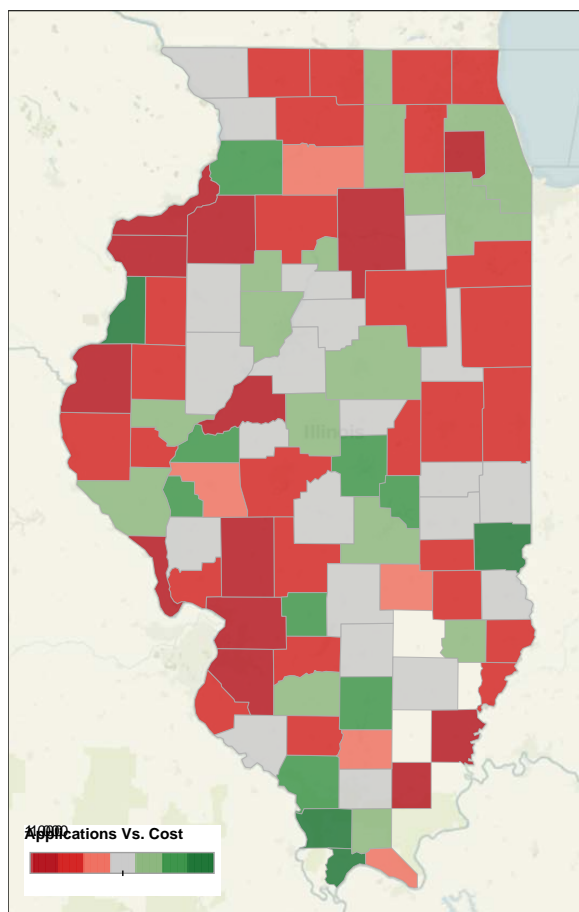
- Sixteen counties had coefficients ranging from $.20$ through $.36$.
- Geographically, five of these counties are concentrated in northwest surrounding Chicago, while the remainder of the counties were spread evenly throughout the state.

Moderate Positive

- Of the eight counties with positive moderate strength correlations, seven are located in the southern half of the state; however there is no geographical coordination between them.
- The coefficients ranged between $.42$ and $.79$.

Strong Positive

- Four counties had strong positive correlations to the increasing tuition costs at Illinois State.
- These counties were located on the edges of the state and had application counts of 6 or less students per year.
- Correlation coefficients ranged from $.84$ to 1.0 .





County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board	County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board
Calhoun	-1.00	-1.00	-1.00	Williamson	-0.12	-0.11	-0.09
Saline	-1.00	-1.00	-1.00	Christian	-0.11	-0.11	-0.10
White	-0.97	-0.98	-0.98	Fulton	-0.08	-0.09	-0.10
Henry	-0.93	-0.92	-0.92	Ford	-0.07	-0.06	-0.05
Dupage	-0.89	-0.89	-0.90	Coles	-0.05	-0.05	-0.06
Lasalle	-0.88	-0.88	-0.89	Greene	-0.04	-0.03	-0.03
Madison	-0.87	-0.87	-0.88	Randolph	-0.04	-0.04	-0.02
Saint Clair	-0.86	-0.86	-0.86	Carroll	-0.03	-0.02	-0.02
Mercer	-0.85	-0.85	-0.86	Menard	-0.02	-0.02	-0.02
Macoupin	-0.85	-0.86	-0.86	Marshall	0.01	0.01	0.01
Mason	-0.85	-0.85	-0.85	Fayette	0.06	0.05	0.06
Hancock	-0.81	-0.81	-0.81	Grundy	0.09	0.08	0.08
Rock Island	-0.80	-0.80	-0.80	Dewitt	0.11	0.11	0.11
Jasper	-0.78	-0.78	-0.77	Douglas	0.13	0.13	0.13
Warren	-0.76	-0.77	-0.76	Woodford	0.16	0.16	0.15
Ogle	-0.75	-0.76	-0.77	Jo Daviess	0.17	0.17	0.16
Adams	-0.75	-0.75	-0.74	Knox	0.18	0.18	0.17
McDonough	-0.74	-0.74	-0.74	Marion	0.19	0.19	0.19
Winnebago	-0.74	-0.74	-0.73	Will	0.20	0.20	0.20
Iroquois	-0.73	-0.73	-0.73	Kendall	0.25	0.25	0.24
Livingston	-0.72	-0.73	-0.72	Cook	0.25	0.25	0.24
Vermilion	-0.69	-0.69	-0.67	Schuyler	0.26	0.25	0.24
Brown	-0.67	-0.66	-0.65	Logan	0.26	0.26	0.27
McHenry	-0.66	-0.66	-0.65	Dekalb	0.27	0.26	0.24
Sangamon	-0.65	-0.65	-0.64	Peoria	0.29	0.29	0.30
Piatt	-0.58	-0.57	-0.56	Stark	0.30	0.30	0.31
Champaign	-0.53	-0.52	-0.50	Johnson	0.30	0.32	0.35
Jersey	-0.52	-0.52	-0.52	Pike	0.31	0.30	0.29
Montgomery	-0.51	-0.51	-0.49	Washington	0.31	0.32	0.34
Kankakee	-0.49	-0.50	-0.50	McLean	0.33	0.33	0.32
Stephenson	-0.47	-0.47	-0.48	Boone	0.33	0.34	0.33
Wabash	-0.46	-0.45	-0.43	Putnam	0.34	0.34	0.34
Bureau	-0.45	-0.45	-0.43	Richland	0.34	0.34	0.35
Perry	-0.45	-0.46	-0.47	Shelby	0.36	0.35	0.34
Lake	-0.42	-0.43	-0.44	Macon	0.42	0.42	0.42
Kane	-0.42	-0.42	-0.43	Jefferson	0.46	0.45	0.43
Cumberland	-0.42	-0.42	-0.41	Whiteside	0.53	0.52	0.51
Lawrence	-0.40	-0.40	-0.40	Bond	0.55	0.56	0.56
Monroe	-0.40	-0.39	-0.39	Cass	0.65	0.66	0.66
Clinton	-0.40	-0.40	-0.42	Jackson	0.67	0.67	0.66
Morgan	-0.39	-0.40	-0.39	Moultrie	0.77	0.77	0.76
Franklin	-0.35	-0.36	-0.36	Scott	0.79	0.80	0.81
Lee	-0.33	-0.32	-0.31	Clark	0.84	0.84	0.85
Massac	-0.26	-0.26	-0.24	Henderson	1.00	1.00	1.00
Effingham	-0.21	-0.20	-0.19	Pulaski	1.00	1.00	1.00
Edgar	-0.19	-0.19	-0.19	Union	1.00	1.00	1.00
Tazewell	-0.16	-0.17	-0.16	Wayne	-	-	-
Crawford	-0.14	-0.13	-0.13				

*Correlation Coefficient of 0 to .2 = no relationship, .21 to .39 = weak, .4 to .79 = moderate, .8 to 1.0 = strong

Research Question 2: Admissions

Research question two examined if there was a correlation between the change in full-time resident undergraduate tuition rates and the percent of first time freshman admissions in terms of a change in the percent of admissions from the previous year. The correlation coefficients of cost to percent of admissions per Illinois county spanned the full range of -1.0 to 1.0 when comparing change over the 5 year period (Table 2). The state as a whole had a correlation coefficient of .68, which would indicate that the percent of admissions to Illinois State University as a whole increased in a pattern that was moderately relative to the increase in tuition costs at Illinois State.

Strong Negative

- Three Illinois counties had strong negative correlations to tuition cost increases at Illinois State University.
- These counties all had coefficients of -1.0 and were located at the southern tip of the state.
- It should be noted that within the three counties, applications never numbered greater than three in any given year, indicating only a small change in number of admissions for Illinois State as a whole.

Moderate Negative

- There were eight counties with correlations of -.74 to -.40.
- These were located primarily in the lower half of the state with two in the southern tip.
- The other six counties were spread out with four on the edges of the state.

Weak Negative

- The majority of the five counties with weak negative correlations were located in the northern half of the state with two located in the northwest corner.
- The coefficients for these counties ranged from -.39 to -.26.

Null

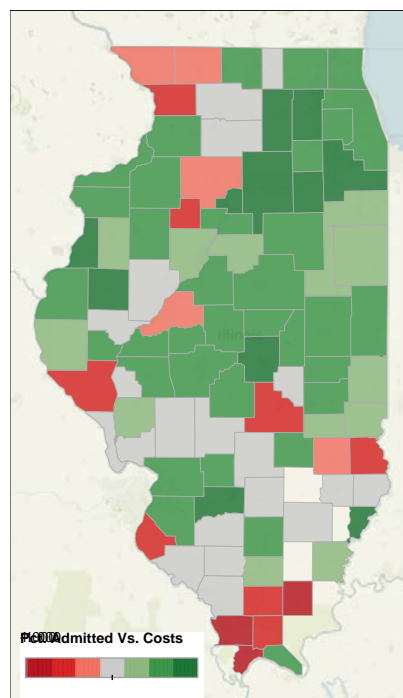
- Twenty counties had correlation coefficients between -.15 and .18.
- The majority of these counties (15) were in the lower half of the state.
- There were more counties with no correlation between admission and tuition in the lower half of the state than any other strength of correlation.

Weak Positive

- Among those counties with weak positive correlations, the majority (6) were located on the eastern edge of the state.
- The coefficients of the thirteen counties ranged from .20 through .39.

Moderate Positive

- A large portion of counties (35) fell within a moderate positive correlation strength having coefficients between .41 and .79.





- These counties were located primarily around the middle of the state and extended into the northern half of Illinois with McLean County near the center of the trend.

Strong Positive

- Eleven counties had strong positive correlation coefficients ranging from .80 to 1.0.
- About half of these counties (6) were grouped just southwest of the Chicago area, with the remaining five counties spread throughout the state.

County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board	County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board
Pulaski	-1.00	-1.00	-1.00	Cook	0.46	0.47	0.47
Saline	-1.00	-1.00	-1.00	Madison	0.46	0.47	0.47
Union	-1.00	-1.00	-1.00	Livingston	0.47	0.48	0.49
Pike	-0.74	-0.74	-0.73	McLean	0.47	0.48	0.47
Johnson	-0.74	-0.75	-0.77	Jefferson	0.50	0.49	0.49
Stark	-0.65	-0.65	-0.64	Effingham	0.50	0.50	0.50
Crawford	-0.62	-0.62	-0.63	Marshall	0.50	0.50	0.50
Williamson	-0.55	-0.55	-0.56	Rock Island	0.53	0.54	0.54
Carroll	-0.50	-0.50	-0.51	Tazewell	0.55	0.56	0.57
Monroe	-0.43	-0.42	-0.41	Dewitt	0.55	0.55	0.54
Shelby	-0.40	-0.40	-0.40	Knox	0.55	0.56	0.56
Bureau	-0.39	-0.39	-0.38	Kendall	0.59	0.60	0.60
Jo Daviess	-0.37	-0.37	-0.37	Sangamon	0.60	0.61	0.62
Jasper	-0.36	-0.36	-0.35	Hancock	0.60	0.61	0.60
Stephenson	-0.34	-0.34	-0.33	Menard	0.64	0.65	0.66
Mason	-0.26	-0.26	-0.26	Whiteside	0.64	0.65	0.64
Schuyler	-0.15	-0.14	-0.13	Vermilion	0.67	0.68	0.69
Jersey	-0.11	-0.11	-0.11	Coles	0.67	0.68	0.68
Scott	-0.11	-0.10	-0.08	Cass	0.68	0.67	0.67
Fayette	-0.10	-0.09	-0.08	Brown	0.68	0.68	0.69
Marion	-0.06	-0.06	-0.04	Henry	0.70	0.70	0.70
Macoupin	-0.04	-0.04	-0.05	Mercer	0.72	0.73	0.74
Boone	0.01	0.02	0.02	Bond	0.73	0.72	0.71
Lee	0.04	0.04	0.03	Douglas	0.73	0.73	0.74
Lawrence	0.07	0.08	0.09	Winnebago	0.73	0.74	0.75
Jackson	0.09	0.09	0.09	Piatt	0.74	0.74	0.74
Montgomery	0.10	0.10	0.09	McHenry	0.75	0.76	0.76
Moultrie	0.13	0.13	0.14	Dupage	0.76	0.76	0.77
Randolph	0.14	0.14	0.14	Lake	0.77	0.78	0.79
Fulton	0.15	0.14	0.13	Massac	0.78	0.78	0.79
Washington	0.16	0.17	0.19	Saint Clair	0.78	0.79	0.79
Ogle	0.18	0.19	0.20	Champaign	0.79	0.79	0.80
Warren	0.20	0.20	0.21	Macon	0.80	0.81	0.81
Ford	0.21	0.22	0.23	Lasalle	0.81	0.81	0.81
White	0.23	0.22	0.20	Will	0.81	0.81	0.82
Franklin	0.26	0.25	0.24	Grundy	0.82	0.82	0.82
Clark	0.26	0.27	0.29	Clinton	0.84	0.84	0.84
Kankakee	0.28	0.29	0.30	Kane	0.90	0.90	0.90
Iroquois	0.29	0.30	0.32	McDonough	0.91	0.91	0.92
Greene	0.30	0.31	0.31	Putnam	0.96	0.96	0.96
Woodford	0.31	0.31	0.30	Wabash	0.98	0.98	0.97
Adams	0.31	0.31	0.32	Dekalb	0.98	0.98	0.98
Edgar	0.32	0.32	0.31	Henderson	1.00	1.00	1.00
Cumberland	0.39	0.39	0.38	Calhoun	-	-	-
Peoria	0.39	0.40	0.40	Perry	-	-	-
Christian	0.41	0.40	0.39	Richland	-	-	-
Morgan	0.41	0.42	0.43	Wayne	-	-	-
Logan	0.42	0.42	0.41				

*Correlation Coefficient of 0 to .2 = no relationship, .21 to .39 = weak, .4 to .79 = moderate, .8 to 1.0 = strong

Research Question 3: Yield Rate

Research question three looked at whether there was a correlation between the change in full-time resident undergraduate tuition rates and first-time freshman yield rates in terms of the previous year. Yield rate was defined as the percentage of students who were admitted and then enrolled at Illinois State. The correlation coefficients of tuition cost to yield rate per Illinois county spanned the full range of -1.0 to 1.0 when comparing change over the 5 year period (Table 3). The state as a whole had a correlation coefficient of -0.77 , which would indicate that yield rate as a whole decreased in a manner semi-relative to the increase in tuition costs at Illinois State. Looking at the moderately strong negative correlation of yield rate to tuition costs may be the result of the observed increase in admission trends.

Strong Negative

- Eight counties with strong negative correlations were primarily located in the southern half of the state with two counties falling on either side of the northern half of the state.
- The coefficients for these counties ranged from -1.0 through -0.86 .

Moderate Negative

- One-fifth (22) of Illinois counties exhibited a moderate negative correlation with coefficients between -0.79 and -0.41 .
- The counties were spread throughout the state with large groupings along the northeastern and central eastern edges of the state.

Weak Negative

- Sixteen counties had weak negative correlations with coefficients ranging from -0.38 to -0.21 .
- These counties were located primarily in a large cluster at the center of the state.

Null

- A quarter of the state (25) contained counties that had coefficients between -0.19 and 0.17 .
- There were groups of these counties in the southeastern quadrant of the state as well as a large grouping on the central western edge of the state.

Weak Positive

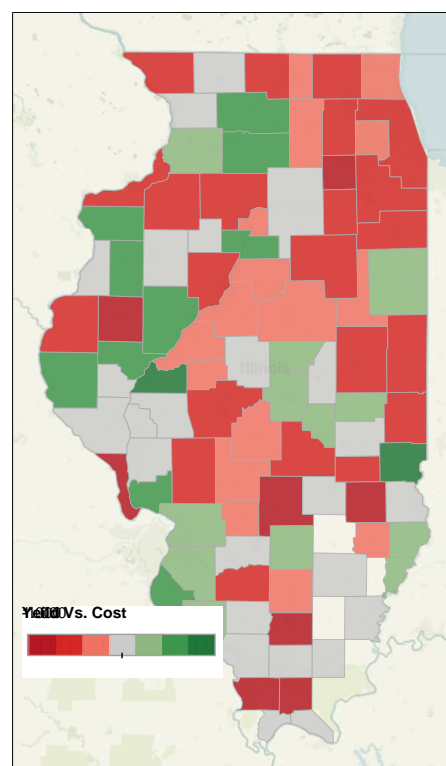
- Twelve counties had coefficients between 0.20 to 0.34 .
- These counties were located primarily in two groups; one along the southwestern edge of the state and one just east of the center of the state.

Moderate Positive

- A tenth (10) of Illinois counties had coefficients falling between 0.41 and 0.74 .
- These counties were primarily located in the northwestern quadrant of the state with two counties on the south western edge of the state.

Strong Positive

- Only two counties had strong positive correlation strength between yield rate and tuition costs with coefficients of 0.81 and 1.0 .





- One county was located along the eastern edge of the state while the other was located in central western Illinois.

Table 3
Correlation Coefficient of Change in Yield Rate to Change in Cost

County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board	County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board
Calhoun	-1.00	-1.00	-1.00	Logan	-0.17	-0.17	-0.16
Jasper	-1.00	-1.00	-1.00	Effingham	-0.16	-0.17	-0.17
Union	-1.00	-1.00	-1.00	Coles	-0.16	-0.15	-0.14
Johnson	-0.95	-0.95	-0.94	Piatt	-0.16	-0.16	-0.17
Franklin	-0.90	-0.90	-0.89	Clinton	-0.14	-0.14	-0.14
Kendall	-0.89	-0.89	-0.89	Lasalle	-0.12	-0.12	-0.12
Fayette	-0.89	-0.89	-0.89	Pike	-0.11	-0.11	-0.11
McDonough	-0.86	-0.86	-0.86	Stark	-0.10	-0.09	-0.08
Cook	-0.79	-0.79	-0.78	Carroll	0.04	0.04	0.04
Shelby	-0.79	-0.79	-0.78	Brown	0.07	0.06	0.05
Grundy	-0.72	-0.72	-0.72	Greene	0.08	0.07	0.06
Rock Island	-0.70	-0.70	-0.70	Stephenson	0.12	0.13	0.14
Winnebago	-0.70	-0.70	-0.71	Knox	0.14	0.13	0.13
Livingston	-0.68	-0.68	-0.67	Williamson	0.14	0.13	0.12
Cumberland	-0.68	-0.67	-0.67	Jackson	0.17	0.18	0.19
Jo Daviess	-0.68	-0.67	-0.67	Lawrence	0.20	0.19	0.18
Sangamon	-0.66	-0.66	-0.66	Wabash	0.22	0.20	0.17
Henry	-0.63	-0.62	-0.62	Iroquois	0.24	0.23	0.24
Kane	-0.61	-0.60	-0.59	Marion	0.24	0.24	0.24
Bureau	-0.59	-0.59	-0.60	Douglas	0.26	0.27	0.29
Hancock	-0.51	-0.51	-0.53	Macon	0.29	0.30	0.30
Champaign	-0.50	-0.49	-0.48	Randolph	0.30	0.30	0.29
Vermilion	-0.49	-0.50	-0.50	Moultrie	0.31	0.31	0.33
Macoupin	-0.48	-0.48	-0.47	Dewitt	0.32	0.32	0.34
Will	-0.46	-0.46	-0.45	Whiteside	0.32	0.32	0.31
McHenry	-0.45	-0.45	-0.44	Madison	0.33	0.33	0.33
Edgar	-0.44	-0.44	-0.42	Saint Clair	0.34	0.35	0.36
Kankakee	-0.43	-0.42	-0.40	Schuyler	0.41	0.42	0.43
Peoria	-0.42	-0.42	-0.41	Adams	0.47	0.47	0.49
Washington	-0.41	-0.41	-0.43	Jersey	0.50	0.49	0.49
Bond	-0.38	-0.38	-0.38	Ogle	0.52	0.51	0.49
Montgomery	-0.36	-0.35	-0.35	Warren	0.52	0.52	0.53
McLean	-0.34	-0.33	-0.32	Fulton	0.54	0.54	0.54
Lake	-0.34	-0.34	-0.33	Monroe	0.56	0.56	0.55
Putnam	-0.33	-0.34	-0.33	Marshall	0.63	0.62	0.61
Jefferson	-0.31	-0.31	-0.32	Lee	0.71	0.70	0.70
Tazewell	-0.31	-0.32	-0.32	Mercer	0.74	0.74	0.75
Dekalb	-0.29	-0.29	-0.29	Cass	0.81	0.82	0.82
Mason	-0.29	-0.28	-0.27	Clark	1.00	1.00	1.00
Menard	-0.29	-0.28	-0.27	Crawford	-	-	-
Boone	-0.28	-0.28	-0.28	Henderson	-	-	-
Dupage	-0.26	-0.26	-0.25	Massac	-	-	-
Richland	-0.24	-0.25	-0.23	Perry	-	-	-
Christian	-0.22	-0.22	-0.22	Pulaski	-	-	-
Woodford	-0.21	-0.21	-0.20	Saline	-	-	-
Ford	-0.21	-0.20	-0.19	Wayne	-	-	-
Scott	-0.19	-0.18	-0.17	White	-	-	-
Morgan	-0.19	-0.19	-0.19				

*Correlation Coefficient of 0 to .2 = no relationship, .21 to .39 = weak, .4 to .79 = moderate, .8 to 1.0 = strong

Research Question 4: Enrollment

Research question four looked at whether there was a correlation between the change in full-time resident undergraduate tuition rates and first-time freshman enrollment in terms of a change in the number of students who enroll at Illinois State University from the previous year. The correlation coefficients of cost to number of enrolled students per Illinois county ranged from -1.0 to .94 when comparing change over the 5 year period (Table 4). The state as a whole had a correlation coefficient of -.13 which would indicate that enrollment as a whole has not followed a pattern that is relative to an increase in tuition costs at Illinois State.

Strong Negative

- Eight of the counties had correlations between -1.0 and -.81.
- The counties were dispersed throughout Illinois with no particular geographical pattern.

Moderate Negative

- The fifteen moderately negative correlated counties were located primarily in two lateral lines across the state of Illinois, one in the northern part of the state and one across the southern part of the state.
- The strength of this group of correlations varied between -.79 and -.44.

Weak Negative

- There were thirteen counties with weak negative correlations with coefficients ranging from -.38 to -.23.
- These counties were dispersed throughout the state with no geographical pattern.

Null

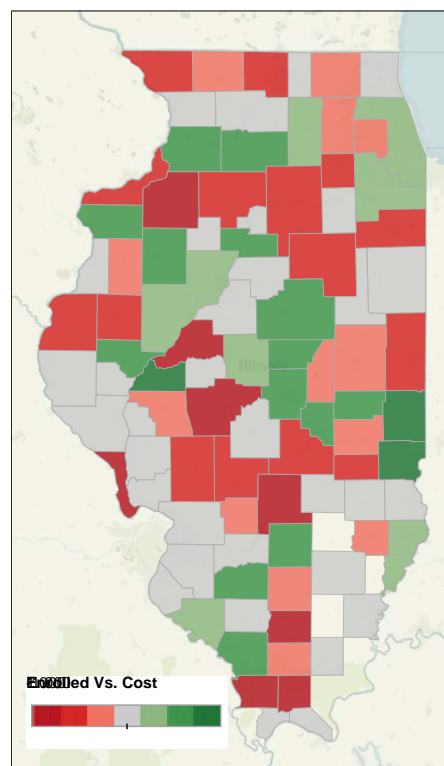
- Thirty-three counties showed no meaningful enrollment trends in relation to the increase of tuition costs at Illinois State University.
- These counties had correlation coefficients from -.17 through .19 and were primarily located along the outer edges of the state.

Weak Positive

- Among Illinois counties, nine had weak positive correlations with coefficients between .21 and .37.
- The counties were located throughout the state with two groupings forming around the Chicago and Peoria locales.

Moderate Positive

- Fourteen counties located throughout the state of Illinois, with no apparent geographical pattern, had correlations of .40 to .63.





Strong Positive

- Three Illinois counties had coefficients ranging from .81 to .94.
- Two of the three counties were located together along the eastern edge of the state with the third being in the central western parts of the state.

Table 4
Correlation Coefficient of Change in Enrollment to Change in Cost

County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board	County	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board
Calhoun	-1.00	-1.00	-1.00	Woodford	-0.01	0.00	-0.01
Union	-1.00	-1.00	-1.00	Christian	0.01	0.01	0.01
Johnson	-0.95	-0.95	-0.94	Pike	0.01	0.01	0.01
Sangamon	-0.92	-0.92	-0.91	Grundy	0.01	0.01	0.01
Franklin	-0.90	-0.90	-0.89	Ford	0.04	0.05	0.07
Fayette	-0.90	-0.90	-0.89	Menard	0.07	0.07	0.09
Mason	-0.83	-0.82	-0.82	Scott	0.11	0.12	0.13
Henry	-0.81	-0.81	-0.80	Carroll	0.11	0.11	0.11
Rock Island	-0.79	-0.78	-0.78	Brown	0.13	0.14	0.14
Macoupin	-0.78	-0.78	-0.78	Stark	0.16	0.17	0.19
McDonough	-0.78	-0.78	-0.78	Saint Clair	0.18	0.19	0.20
Winnebago	-0.72	-0.72	-0.72	Putnam	0.19	0.19	0.19
Hancock	-0.71	-0.71	-0.72	Cook	0.21	0.21	0.20
Vermilion	-0.69	-0.69	-0.68	Wabash	0.22	0.20	0.17
Cumberland	-0.68	-0.67	-0.67	Peoria	0.28	0.29	0.29
Bureau	-0.66	-0.66	-0.65	Will	0.28	0.27	0.28
Kendall	-0.66	-0.66	-0.65	Fulton	0.28	0.28	0.27
Livingston	-0.61	-0.61	-0.60	Dekalb	0.34	0.33	0.33
Jo Daviess	-0.57	-0.57	-0.57	Lawrence	0.36	0.35	0.34
Montgomery	-0.53	-0.53	-0.52	Randolph	0.37	0.37	0.36
Shelby	-0.53	-0.53	-0.53	Logan	0.37	0.37	0.38
Lasalle	-0.51	-0.51	-0.51	McLean	0.40	0.41	0.40
Kankakee	-0.44	-0.43	-0.41	Schuyler	0.41	0.42	0.43
Champaign	-0.38	-0.37	-0.36	Knox	0.46	0.45	0.45
Bond	-0.38	-0.38	-0.38	Douglas	0.46	0.47	0.48
Jefferson	-0.31	-0.31	-0.32	Washington	0.48	0.47	0.47
Williamson	-0.29	-0.29	-0.30	Dewitt	0.52	0.52	0.53
Coles	-0.28	-0.28	-0.27	Moultrie	0.53	0.53	0.54
Stephenson	-0.28	-0.27	-0.26	Jackson	0.56	0.56	0.57
Piatt	-0.27	-0.26	-0.26	Lee	0.57	0.57	0.58
Morgan	-0.25	-0.25	-0.25	Whiteside	0.58	0.57	0.56
Kane	-0.24	-0.24	-0.23	Marshall	0.59	0.59	0.58
Richland	-0.24	-0.25	-0.23	Macon	0.60	0.60	0.60
McHenry	-0.24	-0.23	-0.22	Marion	0.62	0.63	0.62
Dupage	-0.23	-0.24	-0.23	Mercer	0.63	0.64	0.65
Warren	-0.23	-0.23	-0.22	Cass	0.81	0.82	0.83
Iroquois	-0.17	-0.17	-0.17	Edgar	0.91	0.91	0.90
Effingham	-0.17	-0.17	-0.18	Clark	0.94	0.94	0.93
Tazewell	-0.14	-0.14	-0.14	Crawford	-	-	-
Adams	-0.13	-0.13	-0.11	Henderson	-	-	-
Greene	-0.12	-0.11	-0.10	Jasper	-	-	-
Madison	-0.12	-0.12	-0.13	Massac	-	-	-
Boone	-0.08	-0.08	-0.08	Perry	-	-	-
Clinton	-0.07	-0.07	-0.07	Pulaski	-	-	-
Jersey	-0.06	-0.06	-0.06	Saline	-	-	-
Monroe	-0.05	-0.04	-0.04	Wayne	-	-	-
Ogle	-0.03	-0.04	-0.05	White	-	-	-
Lake	-0.03	-0.03	-0.03				

*Correlation Coefficient of 0 to .2 = no relationship, .21 to .39 = weak, .4 to .79 = moderate, .8 to 1.0 = strong

Methodology/Definitions

Illinois counties were utilized to isolate areas of change within the state. Data were analyzed over a five year period, starting with the fall of 2007 and continuing to the fall of 2012. Of the 102 counties in Illinois, seven did not have any individuals with applications within the five year analysis period and thus were not included in the findings. These counties were Alexander, Clay, Edwards, Gallatin, Hamilton, Hardin, and Pope. All of which are in the southern and southwestern parts of Illinois.

The data were analyzed using correlation coefficients to determine if a relationship existed between tuition costs and student numbers as well as the strength of those relationships. The correlation coefficients of tuition, tuition and fees, and tuition, fees, and room and board, when calculated against the variables of applications, admissions, enrollments, and yield rate, were all within .05 of each other. For example, when looking at the correlations of Mclean County's application numbers to the differing cost variables, the coefficient of tuition was at .33, tuition and fees was at .33, and tuition, fees, and room and board was at .32. This minimal variance of correlation coefficient rendered the difference between the cost coefficients to be indistinguishable from an analysis perspective. Therefore, the report summarized only the correlation coefficients derived from the interaction of the cost of tuition with the application, admission, enrollment, and yield categories.

When looking at correlations, one must keep in mind that a correlational relationship does not in any way indicate that there is causation between the two variables. Instead, the coefficient merely identifies how linear each variable appears over time, and calculates the intensity of the relationship between the two progressions with a numeric ranging from -1.0 to 1.0. For the present study the strength of the correlational relationship was divided into groups with coefficients from:

- **-1.0 to -.80** were labeled as a **strong negative** relationship, signifying that the selected variable decreased in a manner that was closely proportionate to the increase in tuition costs.
- **-.79 to -.40** = **moderate negative** relationship. The selected variable decreased in a manner that was semi-proportionate to the increase in tuition costs.
- **-.39 to -.20** = **weak negative** relationship. The selected variable decreased in a manner that was loosely-proportionate to the increase in tuition costs.
- **-.19 to .19** = **no meaningful relationship**. The selected variable behaved in a manner that did not signify a movement in one direction or the other that was proportionate to the increase in tuition costs.
- **.20 to .39** = **weak positive** relationship. The selected variable increased in a manner that was loosely-proportionate to the increase in tuition costs.
- **.40 to .79** = **moderate positive** relationship. The selected variable increased in a manner that was semi-proportionate to the increase in tuition costs.
- **.80 to 1.0** = **strong positive** relationship. The selected variable increased in a manner that was closely proportionate to the increase in tuition costs.



Research Questions

The following research questions describe the relationships that were analyzed. The research questions were applied to each of the cost variables of tuition rate, tuition and fee rate, as well as tuition, fee, and room and board rate.

1. Is there a correlation between the change in full-time resident undergraduate tuition rates and first time freshman applications in terms of a change in the number of applications from the previous year?
2. Is there a correlation between the change in full-time resident undergraduate tuition rates and the percent of first time freshman admissions in terms of a change in the percent of admissions from the previous year?
3. Is there a correlation between the change in full-time resident undergraduate tuition rates and first time freshman yield rates in terms of the previous year?
4. Is there a correlation between the change in full-time resident undergraduate tuition rates and first time freshman enrollment in terms of a change in the number who enroll at ISU from the previous year?

Definitions

For the purpose of this research, the following terms were defined as follows:

Applications: The number of first-time full-time students who submitted a completed application to Illinois State University.

Percent of Admissions: The percent of first-time full-time students who submitted a completed application to Illinois State University and were then admitted to the University, including those students who were admitted conditionally and those students that withdrew their applications after they were admitted.

Yield Rate: The percent of first-time full-time students who were admitted to Illinois State University who also enrolled at the university.

Enrollment: The number of first-time full-time students who enrolled for courses at Illinois State University.



Appendix A

County	Applications to Change in Cost												Correlation Coefficients			Correlation Coefficients						
	Year						County	Correlation Coefficients			Year						Correlation Coefficients					
	2007	2008	2009	2010	2011	2012		Tuition	Tuition and Fees	Tuition, Fees, and Room & Board	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board	2007	2008	2009	2010	2011	2012	Tuition	Tuition and Fees	Tuition, Fees, and Room & Board
Calhoun				3	1		Williamson	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	4	5	3	1	6	3	-0.12	-0.11	-0.09
Saline		2			1		Christian	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	19	21	19	30	10	-0.11	-0.11	-0.10	
White			2		1	1	Fulton	-0.98	-0.98	-0.98	-0.98	-0.98	-0.98	15	15	24	22	13	-0.08	-0.09	-0.10	
Henry	55	55	48	38	40	39	Ford	-0.93	-0.92	-0.92	-0.92	-0.92	-0.92	16	21	19	11	18	-0.07	-0.06	-0.05	
Dupage	1612	1628	1613	1568	1450	1399	Coles	-0.89	-0.89	-0.89	-0.89	-0.89	-0.89	21	12	30	11	7	-0.05	-0.05	-0.06	
Lasalle	110	82	81	84	68	66	Greene	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	11	6	1	3	7	-0.04	-0.04	-0.03	
Madison	95	96	90	90	69	75	Madison	-0.87	-0.87	-0.87	-0.87	-0.87	-0.87	4	4	2	6	2	-0.04	-0.04	-0.02	
Saint Clair	107	108	96	87	91	58	Carroll	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	12	6	12	13	7	-0.03	-0.02	-0.02	
Mercer	13	7	8	8	6	3	Menard	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	8	16	17	10	13	-0.02	-0.02	-0.02	
Macoupin	22	28	20	20	12	10	Marshall	-0.86	-0.86	-0.86	-0.86	-0.86	-0.86	11	5	8	5	3	0.01	0.01	0.01	
Mason	24	15	9	7	5	9	Fayette	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	1	3	3	3	1	0.06	0.05	0.06	
Hancock	17	5	10	6	5	1	Grundy	-0.81	-0.81	-0.81	-0.81	-0.81	-0.81	86	126	83	123	103	0.09	0.08	0.08	
Rock Island	80	94	81	73	70	65	Dewitt	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	23	13	26	16	17	0.11	0.11	0.11	
Jasper	2		2	1			Douglas	-0.78	-0.78	-0.78	-0.78	-0.78	-0.78	12	14	9	17	16	0.13	0.13	0.13	
Warren	11	15	8	7	3	7	Woodford	-0.76	-0.77	-0.77	-0.76	-0.76	-0.76	59	50	52	68	58	0.16	0.16	0.15	
Ogle	43	40	49	42	28	22	JoDawless	-0.75	-0.76	-0.76	-0.75	-0.75	-0.75	12	12	18	23	19	0.17	0.17	0.16	
Adams	32	39	34	29	30	22	Knox	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	21	17	30	24	22	0.18	0.18	0.17	
McDonough	26	30	37	16	17	10	Marion	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74	3	1	5	1	4	0.19	0.19	0.19	
Winnebago	231	228	169	200	188	176	Will	-0.74	-0.74	-0.74	-0.74	-0.74	-0.74	917	1061	1048	1109	1073	0.20	0.20	0.20	
Iroquois	52	41	40	31	40	40	Kendall	-0.73	-0.73	-0.73	-0.73	-0.73	-0.73	86	100	93	116	104	0.25	0.25	0.24	
Livingston	53	73	57	47	49	31	Cook	-0.72	-0.73	-0.73	-0.72	-0.72	-0.72	4571	4976	5406	5276	5025	0.25	0.25	0.24	
Vermilion	68	65	40	41	54	42	Schuyler	-0.69	-0.69	-0.69	-0.67	-0.67	-0.67	1	2		2	1	0.26	0.25	0.24	
Brown	3	3	3	2	3	1	Logan	-0.66	-0.66	-0.66	-0.65	-0.65	-0.65	13	22	19	13	14	0.26	0.26	0.27	
McHenry	434	470	468	387	410	402	Dekalb	-0.66	-0.66	-0.66	-0.65	-0.65	-0.65	68	59	73	86	57	0.27	0.26	0.24	
Sangamon	163	201	188	161	164	119	Peoria	-0.65	-0.65	-0.65	-0.64	-0.64	-0.64	134	142	177	142	166	0.29	0.29	0.30	
Piatt	31	31	15	20	26	18	Stark	-0.58	-0.57	-0.57	-0.56	-0.56	-0.56	2	6	2	4	7	0.30	0.30	0.31	
Champaign	218	214	178	164	204	186	Johnson	-0.53	-0.53	-0.53	-0.50	-0.50	-0.50		2	1	3			0.30	0.32	0.35
Jersey	9	14	15	7	7	8	Pike	-0.52	-0.52	-0.52	-0.52	-0.52	-0.52	5	2	8	9	6	0.31	0.30	0.29	
Montgomery	27	22	15	17	25	14	Washington	-0.51	-0.51	-0.51	-0.49	-0.49	-0.49	2	7	2	1	8	0.31	0.32	0.34	
Kankakee	104	116	107	114	108	83	McLean	-0.49	-0.49	-0.49	-0.50	-0.50	-0.50	305	332	390	380	364	0.33	0.33	0.32	
Stephenson	24	16	23	18	17	19	Boone	-0.47	-0.47	-0.47	-0.48	-0.48	-0.48	34	22	43	31	31	0.33	0.34	0.33	
Wabash	3	4		2	3		Putnam	-0.46	-0.45	-0.45	-0.43	-0.43	-0.43	1	6	2	2	6	0.34	0.34	0.34	
Bureau	26	33	27	19	31	18	Richland	-0.45	-0.45	-0.45	-0.43	-0.43	-0.43	1	5	1	4		0.34	0.34	0.35	
Perry	3	2	1	3	1		Shelby	-0.45	-0.46	-0.46	-0.47	-0.47	-0.47	2	5	12	11	8	0.36	0.35	0.34	
Lake	953	1091	1129	1047	919	922	Macon	-0.42	-0.43	-0.43	-0.44	-0.44	-0.44	87	74	87	88	96	0.42	0.42	0.42	
Kane	653	667	716	718	643	574	Jefferson	-0.42	-0.42	-0.42	-0.43	-0.43	-0.43	1	2	4	4	2	0.46	0.45	0.43	
Cumberland	1	2	2	1	1	1	Whiteside	-0.42	-0.42	-0.42	-0.41	-0.41	-0.41	24	21	31	34	32	0.53	0.52	0.51	
Lawrence	3	3	3	2	2	3	Bond	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	2	2	2	2	5	0.55	0.56	0.56	
Monroe	38	12	21	12	29	14	Cass	-0.39	-0.39	-0.39	-0.39	-0.39	-0.39	3	1	5	3	8	0.65	0.66	0.66	
Clinton	16	16	18	18	15	14	Jackson	-0.40	-0.40	-0.40	-0.42	-0.42	-0.42	6	6	10	8	7	0.67	0.67	0.66	
Morgan	20	36	22	29	22	15	Moultrie	-0.39	-0.40	-0.40	-0.39	-0.39	-0.39	1	5	4	6	4	0.77	0.77	0.76	
Franklin	1	3	3	2	1	1	Scott	-0.36	-0.36	-0.36	-0.36	-0.36	-0.36	2	2	2	2	3	0.79	0.80	0.81	
Lee	16	14	15	10	17	12	Clark	-0.32	-0.32	-0.32	-0.31	-0.31	-0.31		1	2	1	4	6	0.84	0.84	0.85
Massac	2	1		2	1		Henderson	-0.26	-0.26	-0.26	-0.24	-0.24	-0.24	2					1.00	1.00	1.00	
Effingham	19	9	13	9	17	12	Pulaski	-0.21	-0.20	-0.20	-0.19	-0.19	-0.19		1					1.00	1.00	1.00
Edgar	3	4	8	5	5	1	Union	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	2	3				1.00	1.00	1.00	
Tazewell	122	148	113	143	123	121	Wayne	-0.16	-0.17	-0.17	-0.16	-0.16	-0.16	1								
Crawford	2	4	6	2	5	1	Grand Total	-0.13	-0.13	-0.13	-0.13	-0.13	-0.13	12552	13557	14100	13629	13125	12378	-0.16	-0.16	-0.17



Table 7 Yield Rate to Change in Cost																			
County	Year					County	Correlation Coefficients			Year					Correlation Coefficients				
	2007	2008	2009	2010	2011		2012	Tuition	Tuition and Fees	Room & Board	2007	2008	2009	2010	2011	2012	Tuition	Tuition and Fees	Room & Board
Calhoun	100%			33%	0%		-1.00	-1.00	-1.00	Logan	30%	38%	30%	31%	36%	27%	-0.17	-0.17	-0.16
Jasper	50%		50%				-1.00	-1.00	-1.00	Effingham	21%	25%	63%	29%	14%	25%	-0.16	-0.17	-0.17
Union	50%		0%				-1.00	-1.00	-1.00	Coles	24%	50%	43%	11%	57%	12%	-0.16	-0.15	-0.14
Johnson		50%		0%			-0.95	-0.95	-0.94	Piatt	61%	35%	60%	61%	54%	41%	-0.16	-0.16	-0.17
Franklin		33%		0%		0%	-0.90	-0.90	-0.89	Clinton	10%	38%	50%	19%	43%	0%	-0.14	-0.14	-0.14
Kendall	44%	48%	44%	33%	35%	29%	-0.89	-0.89	-0.89	Lasalle	29%	45%	44%	37%	42%	28%	-0.12	-0.12	-0.12
Fayette	100%	33%	50%	0%	0%	0%	-0.89	-0.89	-0.89	Pike	20%	50%	71%	33%	40%	25%	-0.11	-0.11	-0.11
McDonough	42%	48%	37%	29%	31%	11%	-0.86	-0.86	-0.86	Stark	50%	17%	50%	0%	29%	50%	-0.10	-0.09	-0.08
Cook	36%	35%	33%	34%	34%	31%	-0.79	-0.79	-0.78	Carroll	18%	33%	100%	33%	57%	20%	0.04	0.04	0.04
Shelby	50%	40%	11%	11%	0%	20%	-0.79	-0.79	-0.78	Brown	50%	0%	100%	67%	0%	100%	0.06	0.06	0.05
Grundy	48%	40%	36%	39%	40%	35%	-0.72	-0.72	-0.72	Greene	38%	33%	0%	100%	50%	10%	0.07	0.07	0.06
Rock Island	53%	46%	30%	38%	33%	37%	-0.70	-0.70	-0.70	Stephenson	33%	27%	31%	27%	55%	21%	0.12	0.13	0.14
Winnebago	39%	42%	35%	40%	26%	32%	-0.70	-0.70	-0.71	Knox	19%	45%	35%	31%	24%	38%	0.14	0.13	0.13
Livingston	41%	56%	44%	35%	42%	17%	-0.68	-0.68	-0.67	Williamson	50%	0%	0%	100%	0%	50%	0.14	0.13	0.12
Cumberland	100%	0%	0%	0%	0%	0%	-0.68	-0.67	-0.67	Jackson	40%	67%	0%	0%	80%	55%	0.17	0.18	0.19
Jo Daviess	67%	30%	27%	26%	42%	13%	-0.68	-0.67	-0.67	Lawrence	0%	50%	0%	0%	0%	33%	0.20	0.19	0.18
Wabash	52%	38%	31%	37%	31%	37%	-0.66	-0.66	-0.66	Wabash	0%	0%	0%	50%	0%	0%	0.22	0.20	0.17
Sangamon	61%	46%	59%	33%	48%	41%	-0.63	-0.62	-0.62	Iroquois	28%	52%	48%	38%	38%	47%	0.24	0.23	0.24
Henry	38%	41%	38%	32%	39%	31%	-0.61	-0.60	-0.59	Marion	50%	0%	0%	0%	0%	50%	0.24	0.24	0.24
Kane	61%	46%	47%	62%	48%	27%	-0.59	-0.59	-0.60	Douglas	25%	50%	33%	25%	50%	38%	0.26	0.27	0.29
Bureau	54%	0%	43%	50%	0%	0%	-0.51	-0.51	-0.53	Macon	40%	31%	20%	33%	32%	49%	0.29	0.30	0.30
Hancock	40%	40%	29%	34%	39%	29%	-0.50	-0.49	-0.48	Randolph	33%	0%	100%	0%	50%	50%	0.30	0.30	0.29
Champaign	28%	37%	33%	32%	21%	27%	-0.49	-0.50	-0.50	Moultrie	0%	75%	0%	0%	50%	56%	0.31	0.31	0.33
Vermilion	44%	24%	32%	24%	45%	0%	-0.48	-0.48	-0.47	Dewitt	41%	56%	40%	33%	67%	50%	0.32	0.32	0.34
Macoupin	37%	46%	38%	38%	38%	36%	-0.46	-0.46	-0.45	Whiteside	50%	38%	27%	69%	44%	55%	0.32	0.32	0.31
Will	42%	44%	32%	40%	38%	38%	-0.45	-0.45	-0.44	Madison	26%	31%	31%	38%	37%	26%	0.33	0.33	0.33
McHenry	100%	20%	50%	50%	0%		-0.44	-0.44	-0.42	Saint Clair	27%	28%	35%	14%	30%	47%	0.34	0.35	0.36
Edgar	46%	45%	48%	28%	46%	38%	-0.43	-0.42	-0.40	Schuyler	0%	0%	0%	0%	100%	0%	0.41	0.42	0.43
Kankakee	38%	33%	34%	31%	34%	35%	-0.42	-0.42	-0.41	Adams	31%	37%	32%	32%	43%	35%	0.47	0.47	0.49
Peoria	100%	100%	100%	17%	75%		-0.41	-0.41	-0.43	Jersey	13%	58%	36%	60%	40%	50%	0.50	0.49	0.49
Washington	0%	50%	0%	0%	0%	0%	-0.38	-0.38	-0.38	Ogle	19%	25%	39%	50%	25%	39%	0.52	0.51	0.49
Bond	55%	41%	23%	43%	53%	23%	-0.36	-0.35	-0.35	Warren	25%	38%	0%	40%	67%	40%	0.52	0.52	0.53
Montgomery	51%	44%	44%	42%	48%	45%	-0.34	-0.33	-0.32	Fulton	20%	44%	47%	38%	33%	54%	0.54	0.54	0.54
McLean	34%	39%	36%	36%	35%	33%	-0.34	-0.34	-0.33	Monroe	21%	20%	12%	38%	27%	30%	0.56	0.56	0.55
Lake	100%	0%	0%	0%	60%		-0.33	-0.34	-0.33	Marshall	25%	0%	17%	80%	33%	60%	0.63	0.62	0.61
Putnam	0%	100%	0%	0%	0%	0%	-0.31	-0.31	-0.32	Lee	21%	40%	17%	50%	40%	55%	0.71	0.70	0.70
Jefferson	37%	49%	45%	41%	30%	42%	-0.31	-0.32	-0.32	Mercer	13%	20%	0%	20%	33%	67%	0.74	0.74	0.75
Tazewell	43%	38%	23%	29%	26%	41%	-0.29	-0.29	-0.29	Cass	0%	0%	0%	0%	13%	20%	0.81	0.82	0.82
Dekalb	53%	33%	67%	20%	67%	17%	-0.29	-0.28	-0.27	Clark	0%	0%	0%	0%	0%	25%	1.00	1.00	1.00
Mason	83%	54%	17%	43%	67%	46%	-0.29	-0.28	-0.27	Crawford	0%	0%	0%	0%	0%	0%	-	-	-
Menard	48%	29%	55%	38%	48%	28%	-0.28	-0.28	-0.28	Henderson	0%	0%	0%	0%	0%	0%	-	-	-
Boone	34%	40%	34%	34%	34%	35%	-0.26	-0.25	-0.25	Massac	0%	0%	0%	0%	0%	0%	-	-	-
Dupage	0%	25%	0%	0%	0%	0%	-0.24	-0.25	-0.23	Perry	0%	0%	0%	0%	0%	0%	-	-	-
Richland	62%	31%	21%	53%	50%	29%	-0.22	-0.22	-0.22	Pulaski	0%	0%	0%	0%	0%	0%	-	-	-
Christian	48%	51%	30%	41%	41%	47%	-0.21	-0.21	-0.20	Saline	100%	100%	100%	100%	100%	100%	-	-	-
Woodford	36%	47%	60%	20%	47%	33%	-0.21	-0.20	-0.19	Wayne	0%	0%	0%	0%	0%	0%	-	-	-
Ford	50%	0%	0%	33%	33%	33%	-0.19	-0.18	-0.17	White	0%	0%	0%	0%	0%	0%	-	-	-
Scott	53%	40%	31%	55%	53%	31%	-0.19	-0.19	-0.19	Grand Total	37%	39%	35%	35%	35%	33%	-0.77	-0.77	-0.76



Table 8
Enrollment to Change in Cost

County	Year					County	Year					Correlation Coefficients			Tuition, Fees, and Room & Board
	2007	2008	2009	2010	2011		2012	2007	2008	2009	2010	2011	2012	Tuition	
Calhoun	1					Woodford	23	18	12	22	18	21	-0.01	0.00	-0.01
Union			0			Christian	8	4	3	9	11	2	0.01	0.01	0.01
Johnson		1		0	0	Pike	1	1	5	2	2	1	0.01	0.01	0.01
Sangamon	66	60	44	44	43	Grundy	29	35	20	37	33	26	0.01	0.01	0.01
Franklin		1		0	0	Ford	5	7	6	1	8	6	0.04	0.05	0.07
Fayette	1	1	1	1	0	Menard	5	7	2	3	6	6	0.07	0.12	0.09
Mason	10	4	2	1	2	Scott	1	0	0	0	1	1	0.11	0.12	0.13
Henry	23	18	17	10	15	Carroll	2	2	3	3	4	1	0.11	0.11	0.11
Rock Island	31	27	16	18	17	Brown	1	0		1	2	0	0.13	0.14	0.14
Macoupin	7	5	6	4	5	Stark	1	1	1	0	2	1	0.16	0.17	0.19
McDonough	8	12	11	4	5	Saint Clair	17	14	20	7	19	21	0.18	0.19	0.20
Winnebago	61	67	41	53	40	Putnam	2	0	0	0	0	3	0.19	0.19	0.19
Hancock	7	0	3	2	0	Cook	1028	1006	1005	1072	1074	993	0.21	0.21	0.20
Vermilion	13	16	8	9	9	Wabash		0		1	0		0.22	0.20	0.17
Cumberland	1	0	0	0	0	Peoria	37	30	38	31	42	36	0.28	0.29	0.29
Bureau	11	11	9	8	11	Will	233	329	255	297	302	272	0.28	0.27	0.28
Kendall	28	33	27	27	28	Fulton	2	4	9	6	2	7	0.28	0.28	0.27
Livingston	17	30	17	13	19	DeKalb	19	15	12	19	12	28	0.34	0.33	0.33
Jo Daviess	8	3	3	5	5	Lawrence	0	1	1		0	1	0.36	0.35	0.34
Montgomery	12	7	3	6	9	Randolph	1	0	1	1	1	1	0.37	0.37	0.36
Shelby	1	2	1	1	0	Logan	3	6	3	4	4	6	0.37	0.37	0.38
LaSalle	22	24	22	24	23	McLean	123	104	132	122	136	122	0.40	0.41	0.40
Kankakee	36	37	32	19	38	Schuyler	0	0	0	0	1	0	0.41	0.42	0.43
Champaign	63	65	38	42	66	Knox	3	5	8	5	4	8	0.46	0.45	0.45
Bond		0	1	0	0	Douglas	2	4	2	3	8	3	0.46	0.47	0.48
Jefferson		0	1	0	0	Washington	1	2	1	1	1	3	0.48	0.47	0.48
Williamson	2	0	0	1	0	Dewitt	7	5	8	4	8	12	0.52	0.52	0.53
Colles	4	4	9	1	4	Moultrie	0	3	0	0	2	5	0.53	0.53	0.54
Stephenson	6	3	5	3	6	Jackson	2	2	0	0	4	6	0.56	0.56	0.57
Platt	14	9	6	11	13	Lee	3	4	1	4	4	6	0.57	0.57	0.58
Morgan	9	10	5	12	10	Whiteside	9	5	7	18	12	12	0.58	0.57	0.56
Kane	174	189	181	176	201	Marshall	2	0	1	4	1	6	0.59	0.59	0.58
Richland	0	1	0	0		Macon	23	15	13	19	24	36	0.60	0.60	0.60
McHenry	128	134	95	112	122	Marion	1	0	0	0		2	0.62	0.63	0.62
DuPage	396	474	368	406	395	Mercer	1	1	0	1	2	2	0.63	0.64	0.65
Warren	2	5	0	2	2	Cass	0	0	0	0	1	1	0.81	0.82	0.83
Iroquois	11	16	15	8	9	Edgar		1	1	2	2		0.91	0.91	0.90
Effingham	3	2	5	2	3	Clark		0			1	2	0.94	0.94	0.93
Tazewell	33	56	37	41	29	Crawford	0	0	0	0	0	0	-	-	-
Adams	8	10	6	6	10	Henderson		0			0		-	-	-
Greene	3	1	0	1	3	Jasper	1		1				-	-	-
Madison	18	22	17	25	19	Massac		0			0	0	-	-	-
Boone	12	5	11	8	10	Perry	0		0	0	0	0	-	-	-
Clinton	1	5	7	3	6	Pulaski			0				-	-	-
Jersey	1	7	5	3	2	Saline		1					-	-	-
Monroe	6	2	2	3	6	Wayne		1					-	-	-
Ogle	6	7	14	12	5	White			0		0	0	-	-	-
Lake	226	303	271	274	260	Grand Total	3127	3382	3019	3177	3292	3063	-0.13	-0.13	-0.12