

Diving into the Reality of the Illinois Exodus:

What are the Migration Trends in Major United States Cities and How Do They Compare to One Another?

Abstract/Executive Summary

- I. Is the Illinois Exodus truly Unique?
- II. Economic, Political, Social Impact on Migration Rates in Major Urban Areas
- III. Correlation Analysis and Linear Regression Analysis
- IV. Re-evaluation of Illinois analysts' understanding of exodus **motivations**
- V. Limitations in too few variables and inability to account for **interconnectivity** of variables
- VI. Basis for further research analyzing **urban impact** on migration trends

Introduction

Inspiration: Illinois Exodus



Variables: Housing Costs, Taxes, Job Opportunity



Sample: New York, Los Angeles, Chicago, Houston



Contribution



National and global implications





Personal Implications

Review of Housing Cost Findings

- Established correlation between Cost of Living and Migration Rates
- Locational Preferences (Urban, Suburban, Rural)
 - Transition to suburban lifestyle
 - o COVID-19



Review of Tax Policy Findings



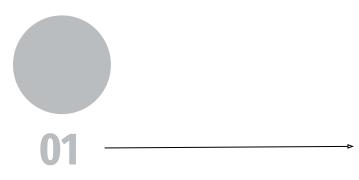
- Tax revenue for funding public infrastructure and social programs
 - Inadequacy in benefits results in outmigration
- U.S competitive free market
 - Corporate tax rates

Review of Job Opportunity Findings

- Diversity of labor force
 - Choice is a luxury that enables opportunity for job satisfaction
- Job satisfaction results in externalities
 - Societal and economic impact



Methods



Participants

New York, NY Los Angeles, CA Chicago, IL Houston, TX



02

Variables

Housing Costs: median property value, housing appreciation rates, cost of living index

Tax Rates: income & corporate tax rates

Job Opportunities: unemployment rate, top industry salary

Methods



03

Materials

DataUSA: Database storing publicly available government data

Accuracy and ethicality of data collection



04

Analysis Techniques

Correlation: calculation of the correlation coefficient to determine the relationship (if any) between variables

Linear Regression: attempts to determine the strength and character of the relationship between the X and Y variables for future prediction

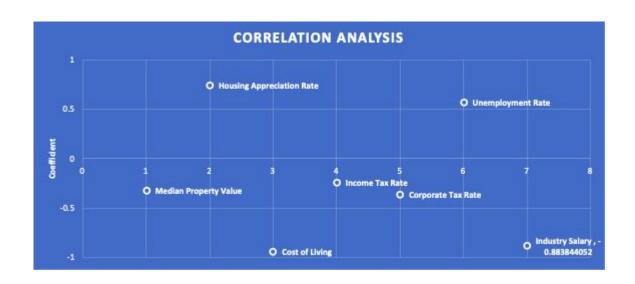
			Chicago	New York	Los Angeles	Houston
Variable	Year					
Housing Costs						
	2010	Median Property Value	\$190,000.00	\$383,699.00	\$330,500.00	\$152,500.00
	2010	Appreciation Rates	2.30%	3.97%	4.54%	4.69%
	2010	Cost of Living Index	85.41	100	90.87	86.97
	2018	Median Property Value	\$271,600.00	\$645,100.00	\$682,400.00	\$179,100.00
	2018	Appreciation Rates	2.48%	4.68%	6.69%	2.61%
	2018	Cost of Living Index	77.75	100	78.2	63.62
Taxes						
	2010	Income Tax Rate	3.00%	2.907-3.876%	1-12.3%	0.00%
	2010	Corporate Tax Rate	7.30%	7.10%	8.84%	0.00%
	2018	Income Tax Rate	4.95%	3.078-3.876%	1-13.30%	0.00%
	2018	Corporate Tax Rate	9.50%	6.50%	8.84%	0.00%
Job Opportunity						
	2010	Unemployment Rate	12.20%	9.50%	13.90%	6.20%
	2010	Average Salary	\$35,690.27	\$35,690.27	\$35,690.27	\$38,702.53
	2018	Unemployment Rate	4%	4.20%	4.50%	3.90%
	2018	Average Salary	\$54,020	\$54,020	\$54,020	\$35,800
*Average salary is for	r top industry	within each city. The 2010 v	alues have acc	counted for infl	ation.	
Migration Rates						
	2010-2018	Statewide Population Chan	-0.22	-0.05	2.19	4.79

Data/Results

Variable Change (2010-2018)		City				
	🔻	Chicago	New York	LA 💌	Houston -	
Cost of Living						
	Median Property Value	\$81,600.00	\$261,401.00	\$351,900.00	\$26,600.00	
	Housing Appreciation Rate	2.30%	3.97%	4.54%	4.69%	
	Cost of Living Index Score	-7.66	0	-12.67	-23.35	
Taxes						
	Income Tax Rate	1.95%	0.17%	3.00%	0%	
	Corporate Tax Rate	2.20%	-0.60%	0.00%	0.00%	
Job Opportunity						
	Unemployment Rate	-8.200%	-5.30%	-9.40%	-2.30%	
	Top Industry Salary	\$18,329.73	\$18,329.73	\$18,329.73	(\$2,902.53)	
Migration Rate	An all anno transcription of				a de la composición del composición de la composición de la composición del composición de la composic	
	negative = outmigration	-0.22	-0.05	2.19	4.79	
	positive = inmigration					

Correlation Analysis Results

m	igration rate
Migration Rates	1
Median Property Value	-0.320465
Housing Appreciation Rat	0.7394426
Cost of Living	-0.937546
Income Tax Rate	-0.2413
Corporate Tax Rate	-0.361383
Unemployment Rate	0.5698821
Industry Salary	-0.883844



Looked specifically at the migration rate vs. each variable correlation coefficients

- -1 to 1 scale
 - -1: perfect negative correlation
 - 0: no correlation
 - 1: perfect positive correlation

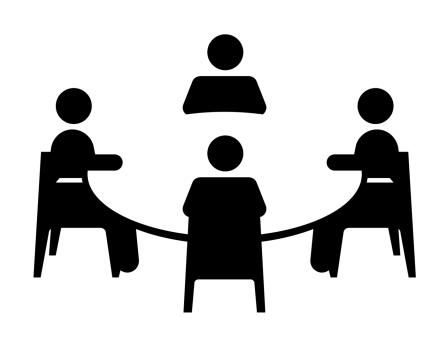
Regression Analysis Results

Variable	▼ Multiple R ▼	Adjusted R Square	Standard Erro	P-Value 🔻
Median Property Value	0.72925832	0.063635387	2.343893867	0.3199239
Housing Appreciation	0.93313026	0.741464157	1.231617431	0.2551046
Cost of Living	0.99576345	0.983089697	0.314985922	0.0586212
Income Tax Rate	0.09354797	-0.982497553	3.410529232	0.5040021
Corporate Tax Rate	0.84377604	0.423916008	1.838477631	0.227
Unemployment Rate	0.4593867	-0.577927722	3.042699053	0.4812275
Industry Salary	0.88667991	0.572402509	1.58391919	0.1979543

- Multiple R: correlation coefficient
- Adjusted R Squared: goodness-of-fit for regression model variables
- Standard Error: average distance the observed values fall from the regression line
- P-Value: reject the null hypothesis if p<0.05

Discussion

- Taxes results show smaller impact than expected
- Disconnect between residents and government on job opportunity
 - Industry salary
- Cost of living and housing appreciation rates presented the strongest correlations



Interpretations



- Insignificance in data shows complexity of migration
 - o One size does not fit all
- Cost of living
 - Combination of all three variables

Limitations

- Statewide data
- COVID-19 Changes
 - Economy, worklife, social implications
- Personal preferences
 - culture



Recommendations



- City Culture
- Government Involvement and transparency