



Mini-Cases using Baltimore Neighborhood Alliance Indicators

By
Assistant Professor M Gisela Bardossy

UBalt – Statistical Data Analysis

- Student Body
 - Mix of traditional and non-traditional students
 - Mostly transfers from community colleges
 - 50/50 Millennials and Adult Learners

UBalt – Statistical Data Analysis

- Course Content
 - Second course in statistics
 - Review of Descriptive Statistics, Inferential Statistics and Regression

Mini-Cases Objectives

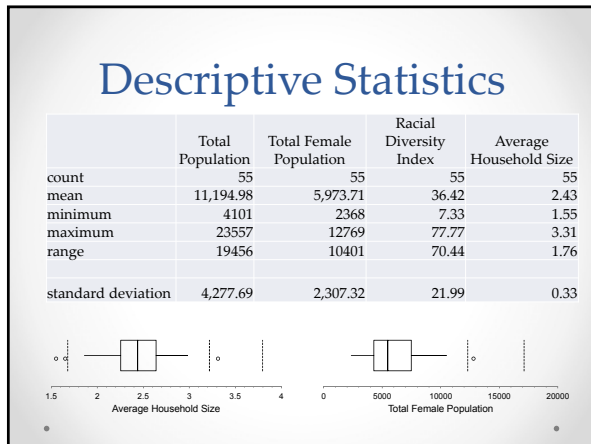
- Complement class content
- Use Real Data
- Enhance Community Awareness
- Provide Hands-on Experience
- Practice Business Communication

Baltimore Neighborhood Indicators Alliance



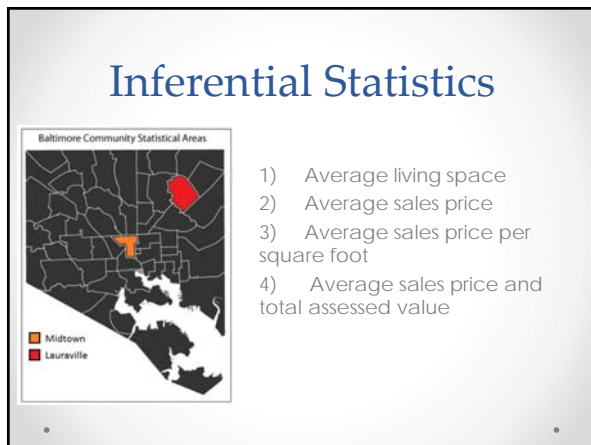
Descriptive Statistics

- Descriptive statistics
- Business memo
- Some indicators: population, number of males and females, average household size
- Opportunities
- Issues



Inferential Statistics

- Hypothesis Testing
- Issues
- Sample home prices and evaluations
- Compare neighborhoods



Regression

- Explain home prices indicator
- Parsimonious regression model
- Location (East/West, Downtown/Inner/Outer Ring)
- Number of vacant properties
- Percentage Owner-occupied

Success Stories

- Major in Real Estate and Economic Development
- "Vacant Opportunities"
- Won 2nd Place USCLAP Competition

Questions and Comments

Email Prof. Bardossy
at mbardossy@ubalt.edu

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Baltimore Neighborhood Indicators Alliance


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ajfi.org







Baltimore Neighborhood Indicators Alliance
Jacob France Institute

Measuring Progress Towards
a Better Quality of Life
in Every Neighborhood




university of
baltimore
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Vital Signs

Explore quality of life indicators for Baltimore's communities.


[Explore Vital Signs](#)



Interactive Mapping

BNIA-JFI collaborates and coordinates mapping of data needed for decision-making.

[Explore Interactive Maps](#)



Education & Learning

Resources for communities, faculty and students.

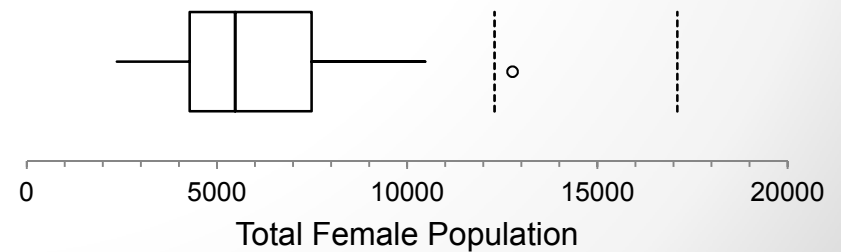
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Descriptive Statistics

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Descriptive Statistics

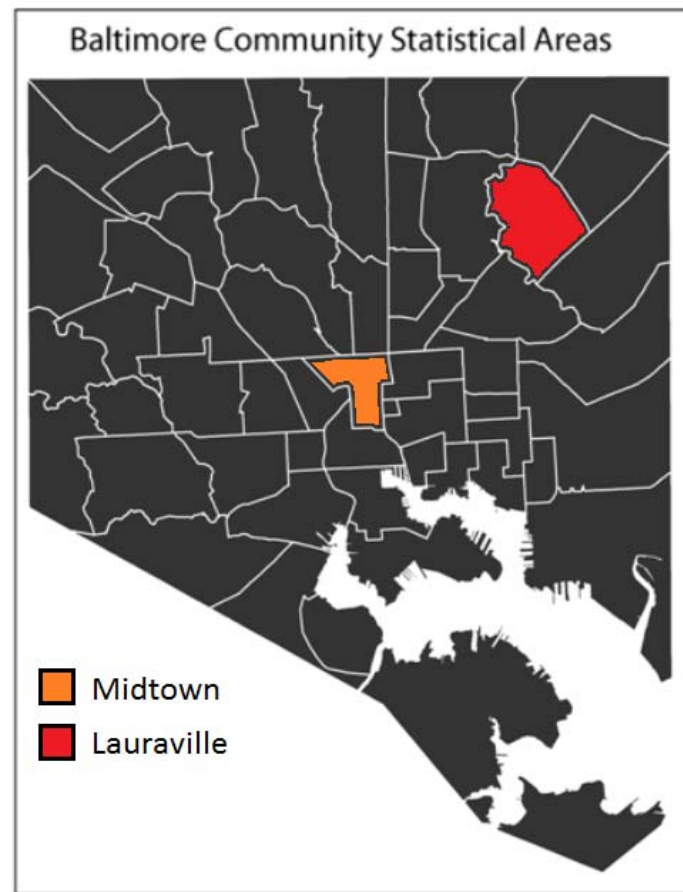
| | Total Population | Total Female Population | Racial Diversity Index | Average Household Size |
|--------------------|------------------|-------------------------|------------------------|------------------------|
| count | 55 | 55 | 55 | 55 |
| mean | 11,194.98 | 5,973.71 | 36.42 | 2.43 |
| minimum | 4101 | 2368 | 7.33 | 1.55 |
| maximum | 23557 | 12769 | 77.77 | 3.31 |
| range | 19456 | 10401 | 70.44 | 1.76 |
| standard deviation | 4,277.69 | 2,307.32 | 21.99 | 0.33 |



Inferential Statistics

- Hypothesis Testing
- Issues
- Sample home prices and evaluations
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Inferential Statistics



- 1) Average living space
- 2) Average sales price
- 3) Average sales price per square foot
- 4) Average sales price and total assessed value

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