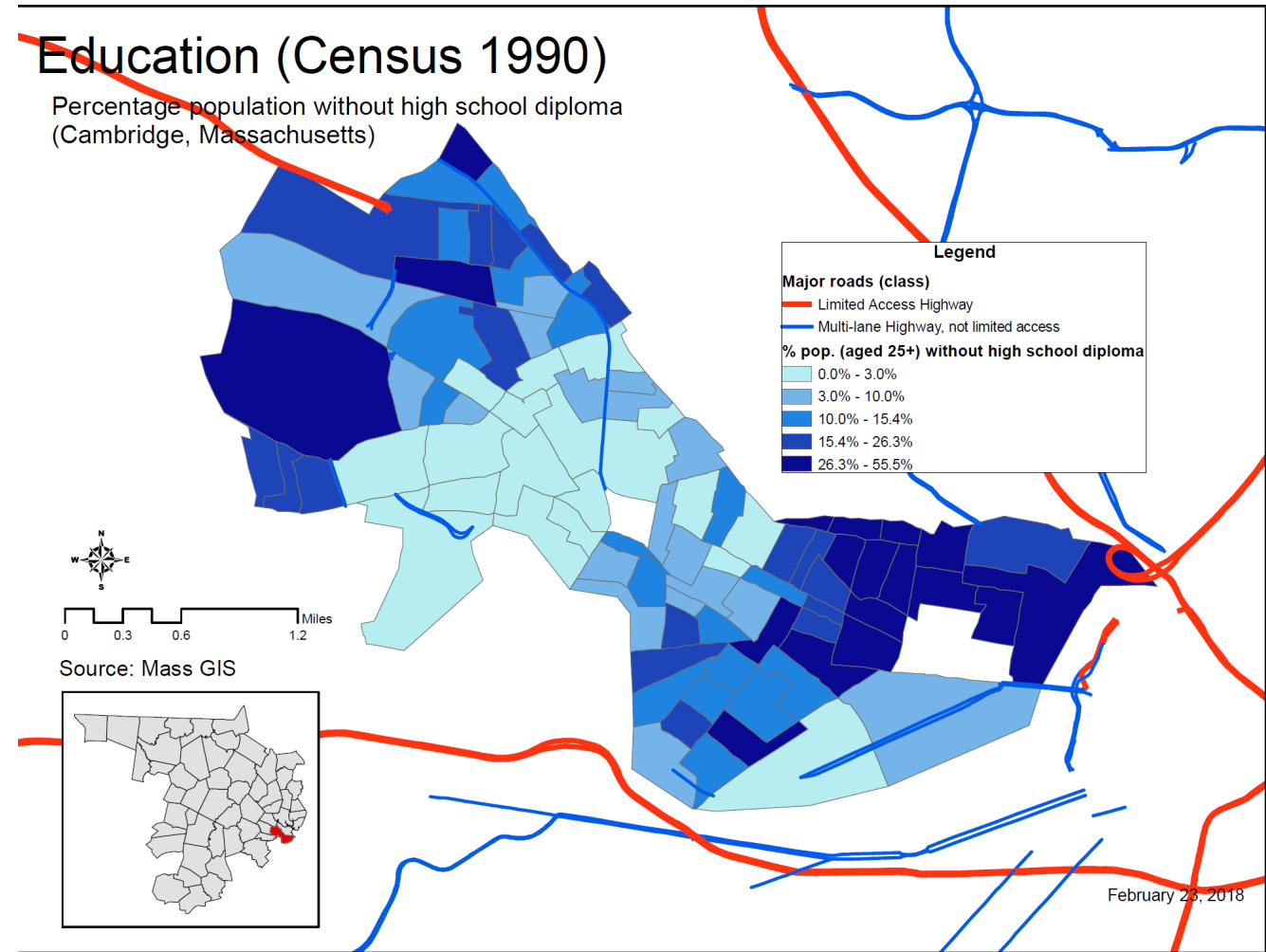# Lab 2

Reflection

Things to note

Difference between OID and Unique Identifier
- Changeable vs Immutable
- Assigned by Arc vs Assigned in Dataset
- Order vs Unique Identifier in Dataset

Layout
- Title
- Color of excluded block groups
- Inclusion in legend
- Legend labels
- Size/position of map and inset
- Colors
- Boundaries

Lab 3

Reflection

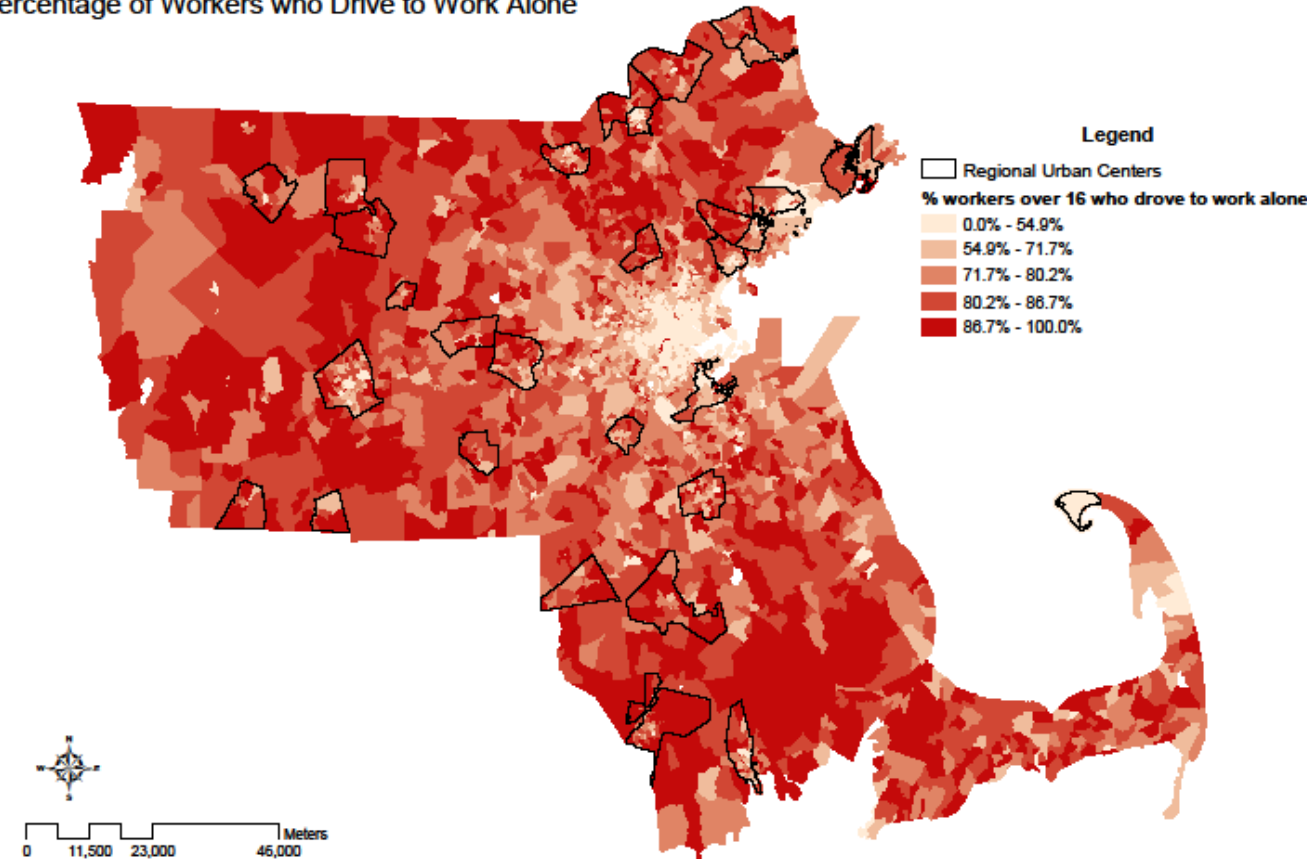# Things to note

What to include

- Double check instructions
- Regional urban centres selection
- Explanation of classification
- Map interpretation

Layout

- Title
- Inclusion in legend
- Legend labels
- Size/position of map
- Colors
- Boundaries

Boston Commuting Patterns
Percentage of Workers who Drive to Work Alone

Legend

☐ Regional Urban Centers

% workers over 16 who drove to work alone

0.0% - 54.9%
54.9% - 71.7%
71.7% - 80.2%
80.2% - 86.7%
86.7% - 100.0%

Meters
0   11,500   23,000   46,000

February 27, 2018

HOMEWORK 1

Solutions and Reflection

Part 1 [60 points]

Population density [20]
- density calculation and symbology [5]
- exclusion with explanation [5]
- classification with explanation [4]
- reasonable map interpretation [3]
- Layout components [3]

Homeownership [20 points]
- ratio calculation and symbology [6]
- exclusion [2 points]
- classification with explanation [4]
- reasonable map interpretation [5]
- Layout components [3]

Choice [20 points]
- Variable choice and calculation [7]
- Classification and explanation [5]
- Interpretation [5]
- Layout components [3]

Part 2 [40 points]

Problem 4 [20 points]
- Map of shopping centre, population density, roads [10]
- Different symbols and/or sizes for shopping centers [4]
- Road layer symbology [2]
- tract outlines off/make them light[2]
- Legend/Labels/Layout/Color choice[2]

Problem 5 [20 points]
- Road selection and buffer with explanation [5]
- Table of shopping centre numbers [5]
- Map of all components [3]
- Zoomed in map with interpretation [5]
- Legend/Labels/Layout/Aesthetics [2]

Buffer

Check classification from MassGIS metadata

Select roads where
- 'class' = 1
- OR 'route_number' = '2'
- OR 'route_number' = '3'

Create Buffer
- 800m
- Dissolve to make processing easier/accurate

Select shopping centres
- 'Select by location' – using buffer as a cookie cutter
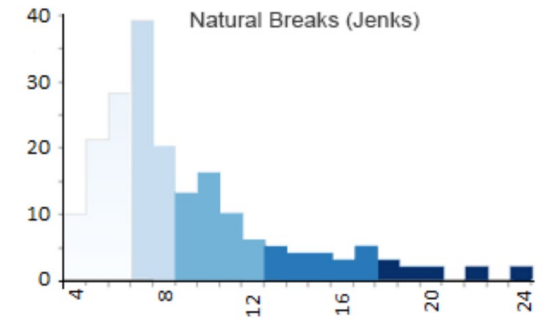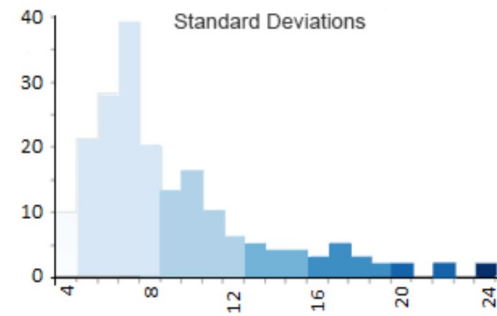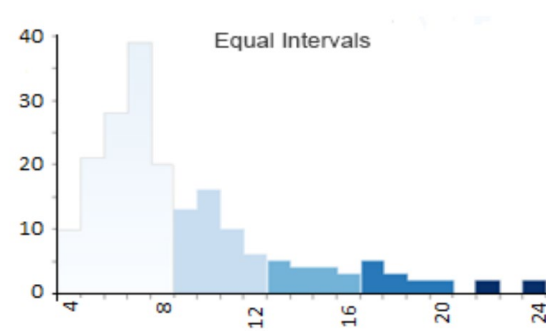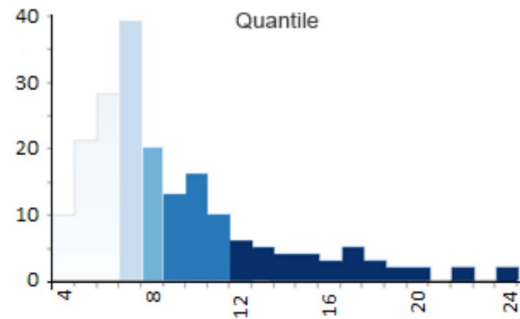- Extract attribute table to DBASE/.dbf table

Summarize

Open in Excel

Make Pivot Table

Type	Buffer (800m)	MSA Count
Community Center	33	106
Neighborhood Center	47	194
Regional Mall	6	14
Retail	6	39
Super Regional Mall	5	10
Grand Total	97	363

A note on classification

Things to consider

- No one answer
- Distribution of data
- Purpose of map
- Within-class vs Cross-Class variation
- Legibility
- See solution