

City of Olathe, Kansas

Address Verification Project

Summer of 2002



Presented by:

Matthew M. Tapp

GIS Analyst-Development Services Dept

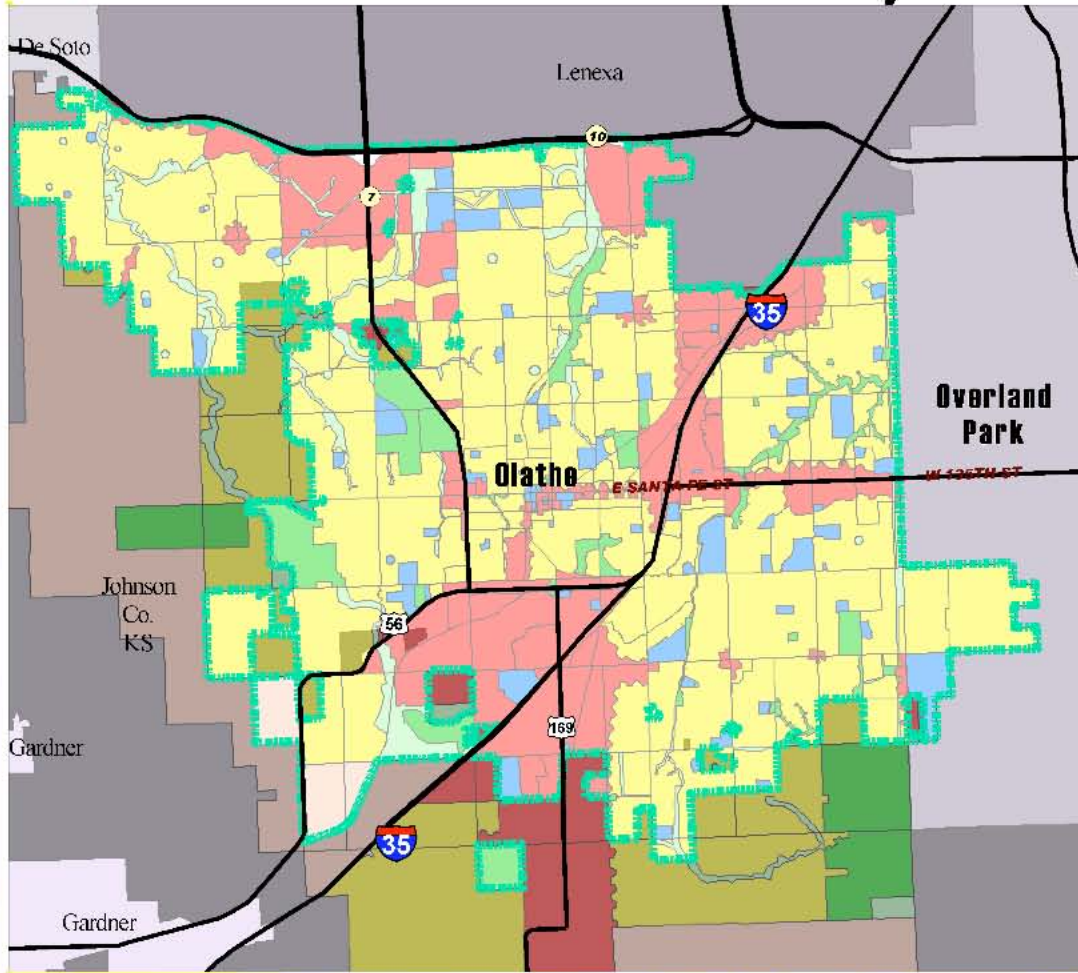
City of Olathe, Kansas

PHONE (913) 971-6247

EMAIL: mtapp@olatheks.org



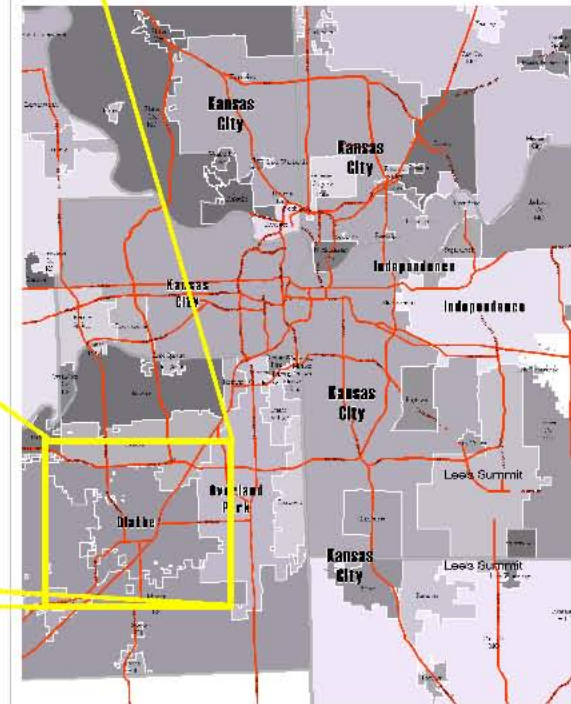
Where is Olathe, Kansas?



Midwest Region

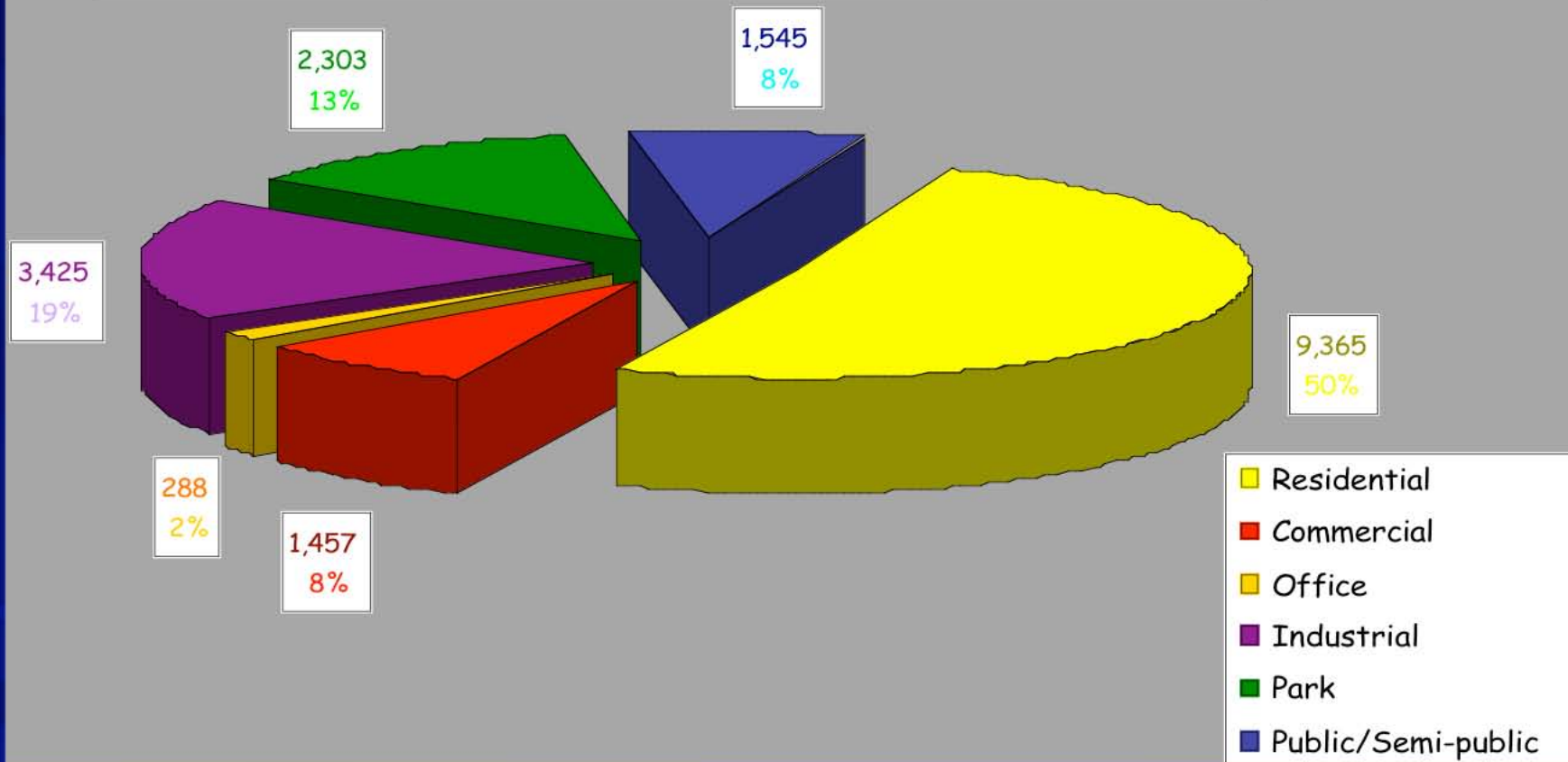


Kansas City Metro Area



Olathe Stats & Demographics

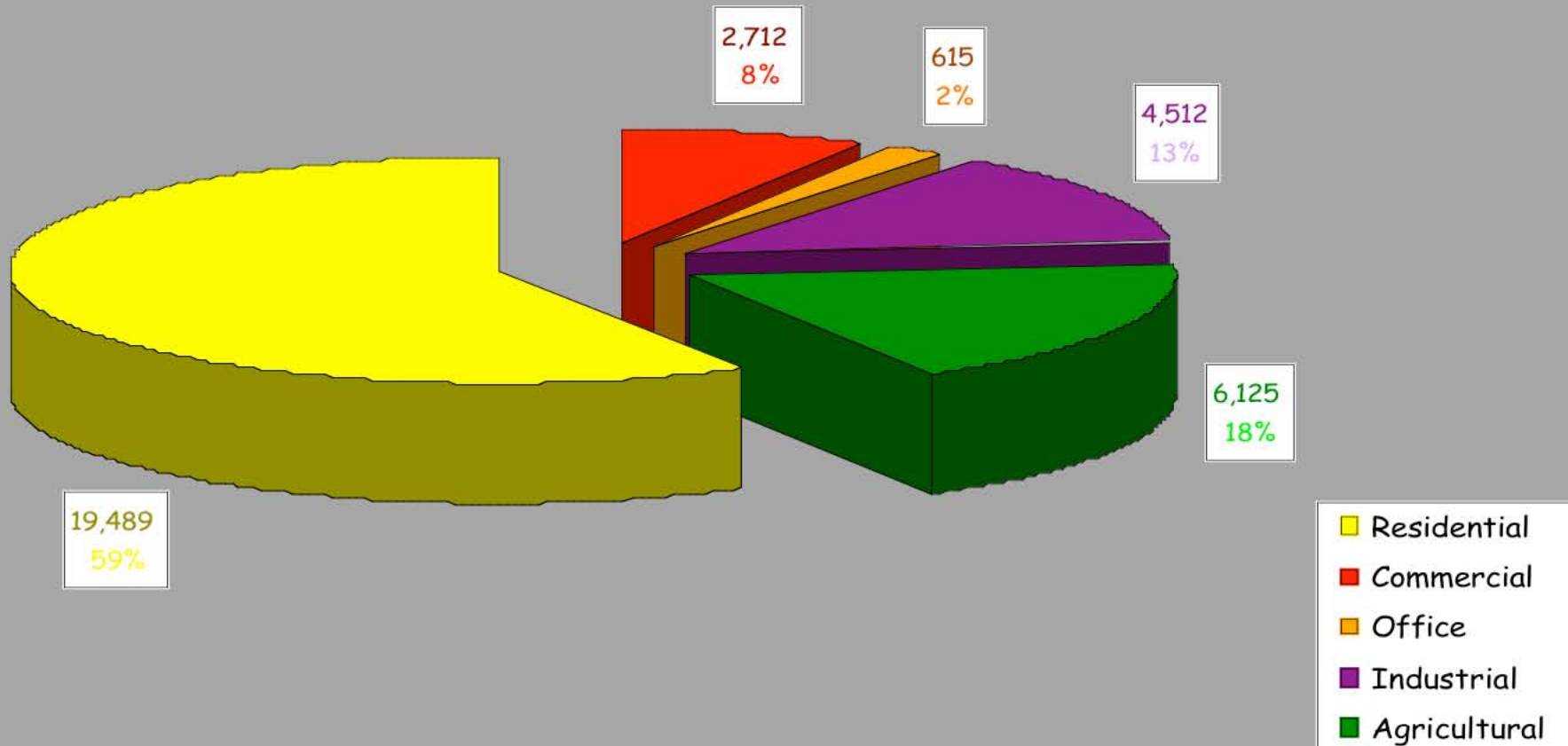
Olathe's Developed Land Use (Acres)



Olathe Stats & Demographics

Continued...

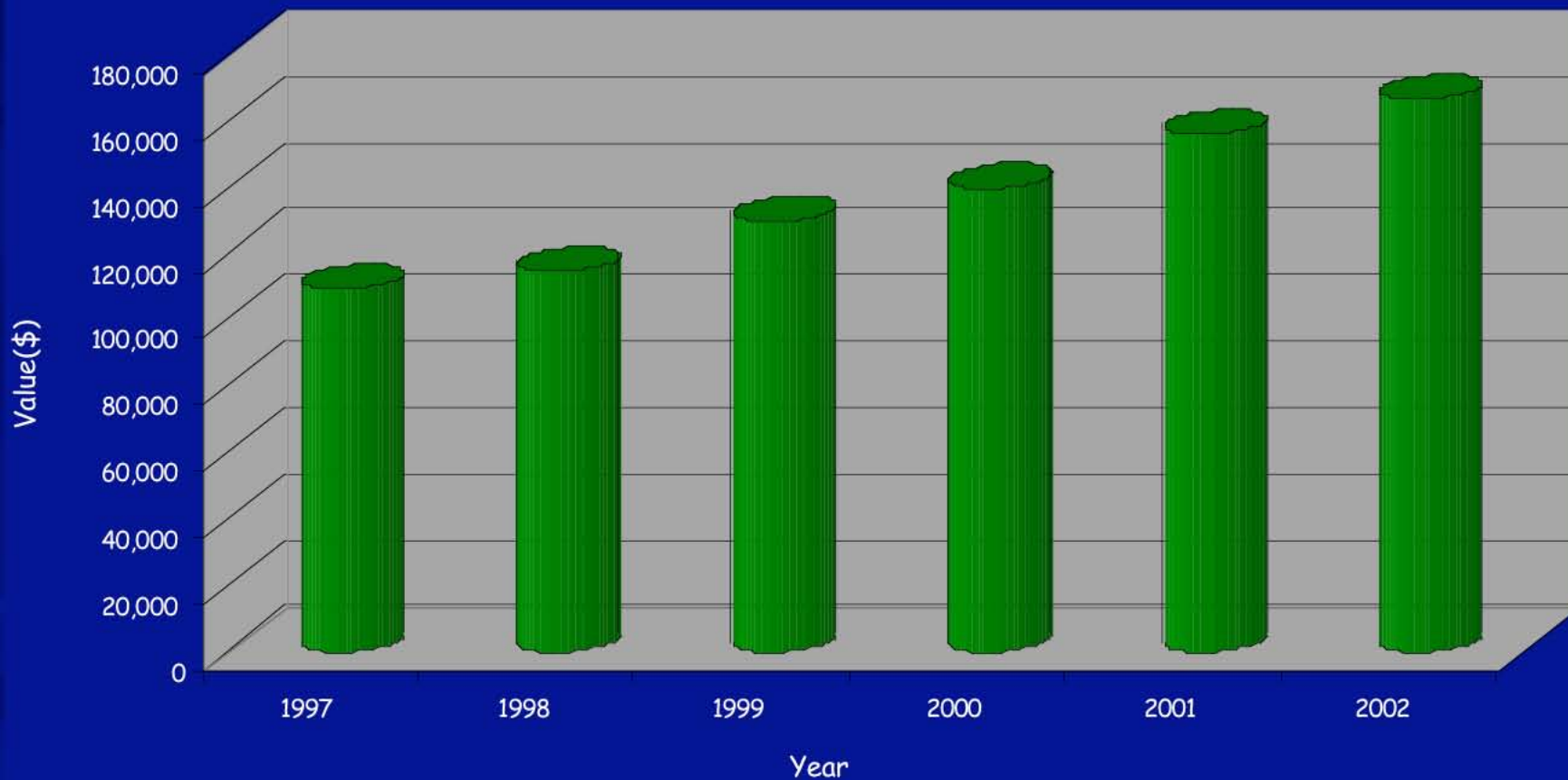
Olathe's Total Acreage by Zoning (2002)



Olathe Stats & Demographics

Continued...

Olathe's Average Home Values (1997-2002)

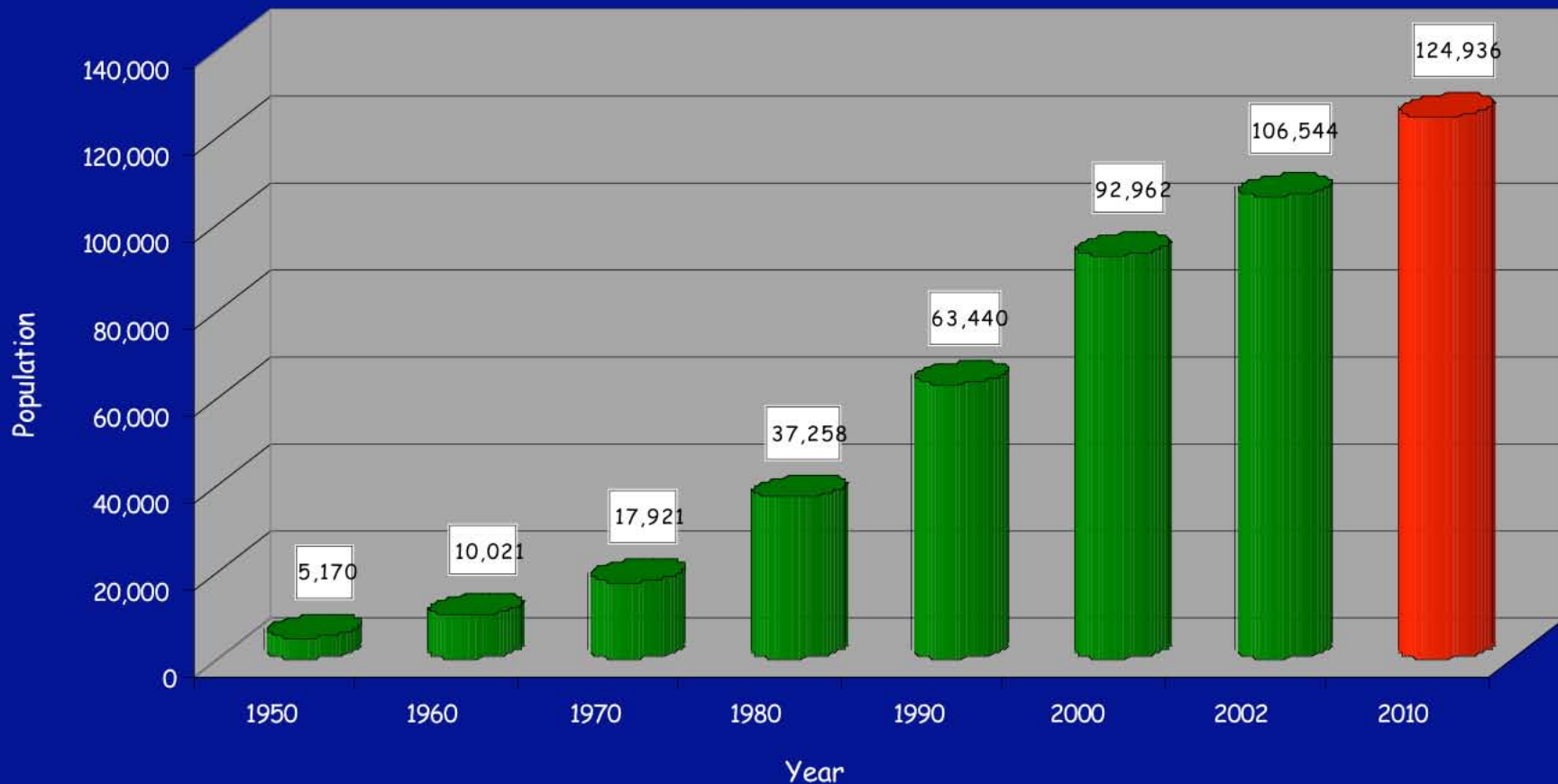


City of Olathe, Kansas Address
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Olathe Stats & Demographics

Continued...

Olathe's Population Growth (1950-2010)

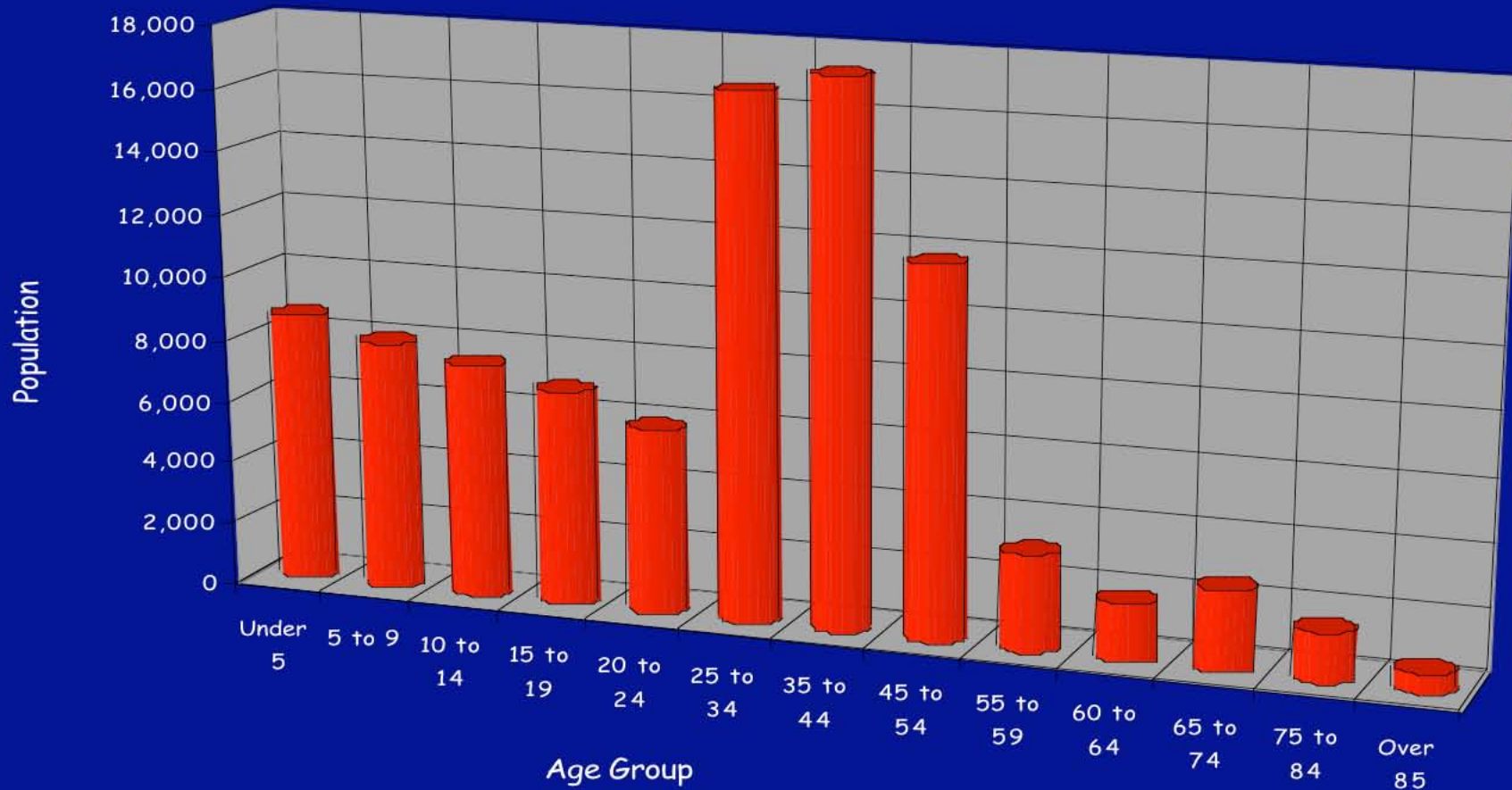


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Olathe Stats & Demographics

Continued...

Olathe's Age Distribution



City of Olathe, Kansas Address
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Olathe Addressing Background

■ One Word—"Awful"

– Standards Set

■ Johnson County Addressing Guidelines

- Has "no teeth" in Olathe
- Ordinance being created for adoption

– 2 Main Addressing Systems:

■ Kansas City Metro Grid

- 4 or 5 digit (i.e. 13500 S Black Bob Rd)
- Directionals: S or W only
- Olathe is the only Johnson Co. city to use "S" directional.

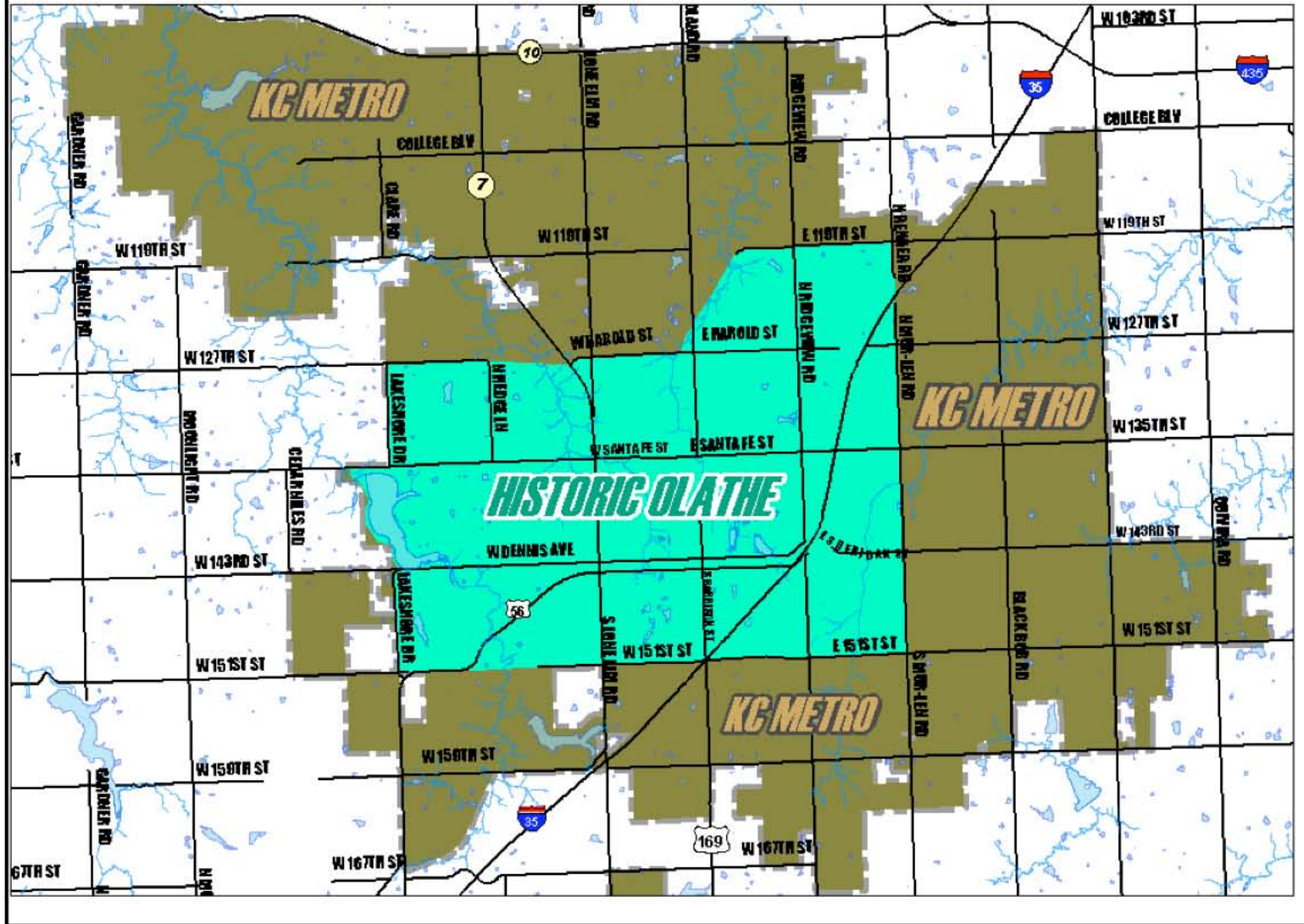
■ Historical Olathe Grid

- 3 or 4 digit (i.e. 100 W Santa Fe St or 100 E Santa Fe St)
- Directionals: N, S, E, or W

■ Cause: Urban Sprawl



OLATHE ADDRESSING SYSTEMS



City of Olathe, Kansas Address
Verification Project

Address Verification Project

DETAILS



- Workforce
 - Nine (9) Interns
- Time Allotted
 - From May to August of 2002
- Two (2) Vehicles
 - “Red Baron”: red ‘?? Chrysler
 - “Green Monster”: green ’92 Ford Tempo
- Technology Used
 - ArcGIS printed maps
 - ArcIMS editing application



Address Verification Project

DETAILS (Continued...)

■ Statistics:

- Researched over 44,000 address points
- Utilized Cheap Labor
 - 9 Interns Total
 - 3 Teams of 3 Interns
- 3 Day Cycle
 - Day 1: Field Verification—>Residential
 - Day 2: Field Verification—>Nonresidential
 - Day 3: Indoor Data Input using ArcIMS

Address Verification Project PROCESS

1. Print Field Maps

- Based off _ mile x _ mile grid originated from PLSS 1 mile x 1 mile sections
- Included Property Lines, Street Centerlines, Buildings, Natural Features, and Addresses

2. Field Verification

- Confirm Addresses
 - Bounce physical numbers posted on buildings with address points on hard map
 - Residential, Commercial, and Industrial uses
- Confirm Street Name Signs
 - Prove physical signs match street centerline labels on hard maps
- Confirm Speed Limit Signs
 - In collaboration with future ArcView 3.x RouteSmart software implementation
- Hand-wrote corrections onto hard map

Address Verification Project PROCESS (Continued...)

3. Indoor Data Input

- Employed ArcIMS editing application
 - Written by in-house GIS programmer
- Updated Address GIS layer
 - Edited existing point
 - Added newly-needed point
- Updated Street Sign GIS layer
 - Edited existing point
 - Added newly-needed point

4. Hard Map Post-Markup

- “X”-ed out corrected data
 - Edited or Added Addresses
 - Street Signs
- Circled Questions for Addressing full-time staff

Address Verification Project

RESULTS

- Cleanest Address GIS Layer Olathe has ever known
 - 98 to 99% “Hit”
 - Before, this same figure was around 75%, if you were lucky
- Able to compare other address tables within City of Olathe to Address GIS layer
 - Customer Service (Utilities Division) data
- Justification to hire Full-Time Addressing GIS Technician
 - Employee completely dedicated to all things considered addressing within City of Olathe