

GIS Applications For A Small Town



Mark Curry
Tyler Caldwell



We are...

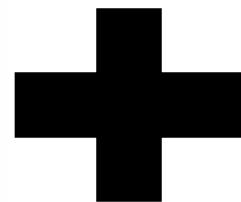
mark and tyler



We are...
mark and tyler



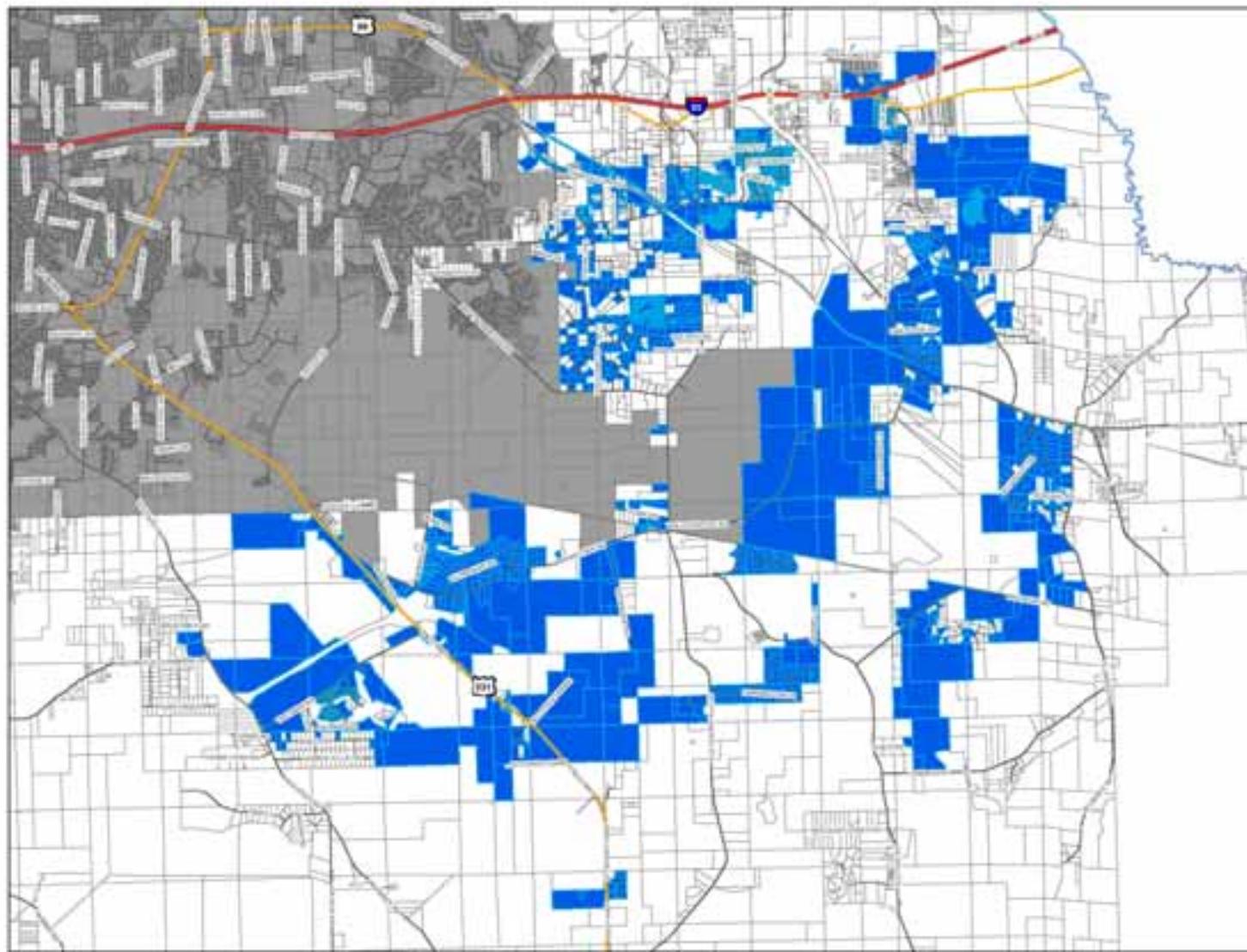




Welcome







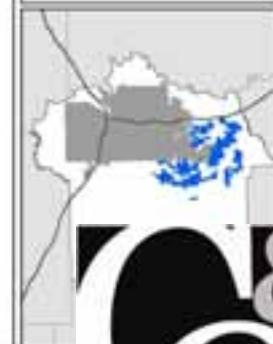
Town of Pike Road
Montgomery
County,
Alabama



Town of Pike Road
February 2009

Legend

- Interstate
- U.S. Highway
- Town Limits
- City of Montgomery





“Count Pike Road”

3 Step Process

Designing the survey method



“Count Pike Road”

3 Step Process

Design → Input survey data



“Count Pike Road”

3 Step Process

Design → Input → Display



“Count Pike Road”

3 Step Process

Design → Input → Display

GIS

Easier – Quicker – More Attractive



Step 1

Needed volunteers, easy with draw of the school



Step 1

Get volunteers, easy with draw of the school

Get addresses for volunteers



Flawed data

- Often times a problem in a small municipality
- We can not trust our address data
 - Area has grown so rapidly that tax assessor data has not adequately kept up
 - Not able to spatially represent all our volunteers
 - To get them the easiest houses to survey
- Will use the survey to remedy address flaw



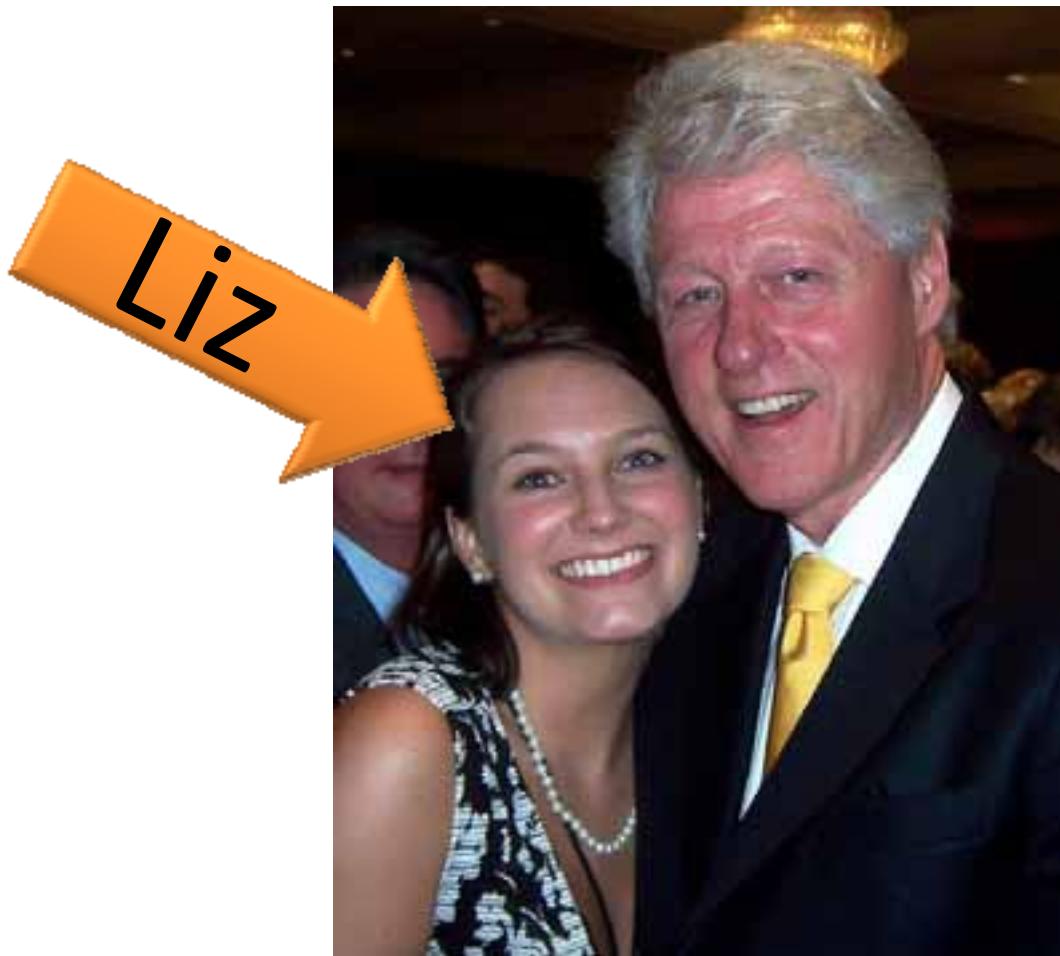
Step 1

Get volunteers, easy with draw of the school

Get addresses for volunteers

Match address to parcel number via Emaps
...with the help of our intern...





Step 1

Get volunteers, easy with draw of the school

Get addresses for volunteers

Match addresses to parcel numbers via Emapsplus.com with the help of our intern

Select parcels that will be for each volunteer



Selecting Parcels

Select by Location



Selecting Parcels

Select by Location

0.05 mile buffer from street centerline



Selecting Parcels

Select by Location

0.05 mile buffer from street centerline

Enter volunteers' names into the fields



Step 1

Get volunteers, easy with draw of the school

Get addresses for volunteers

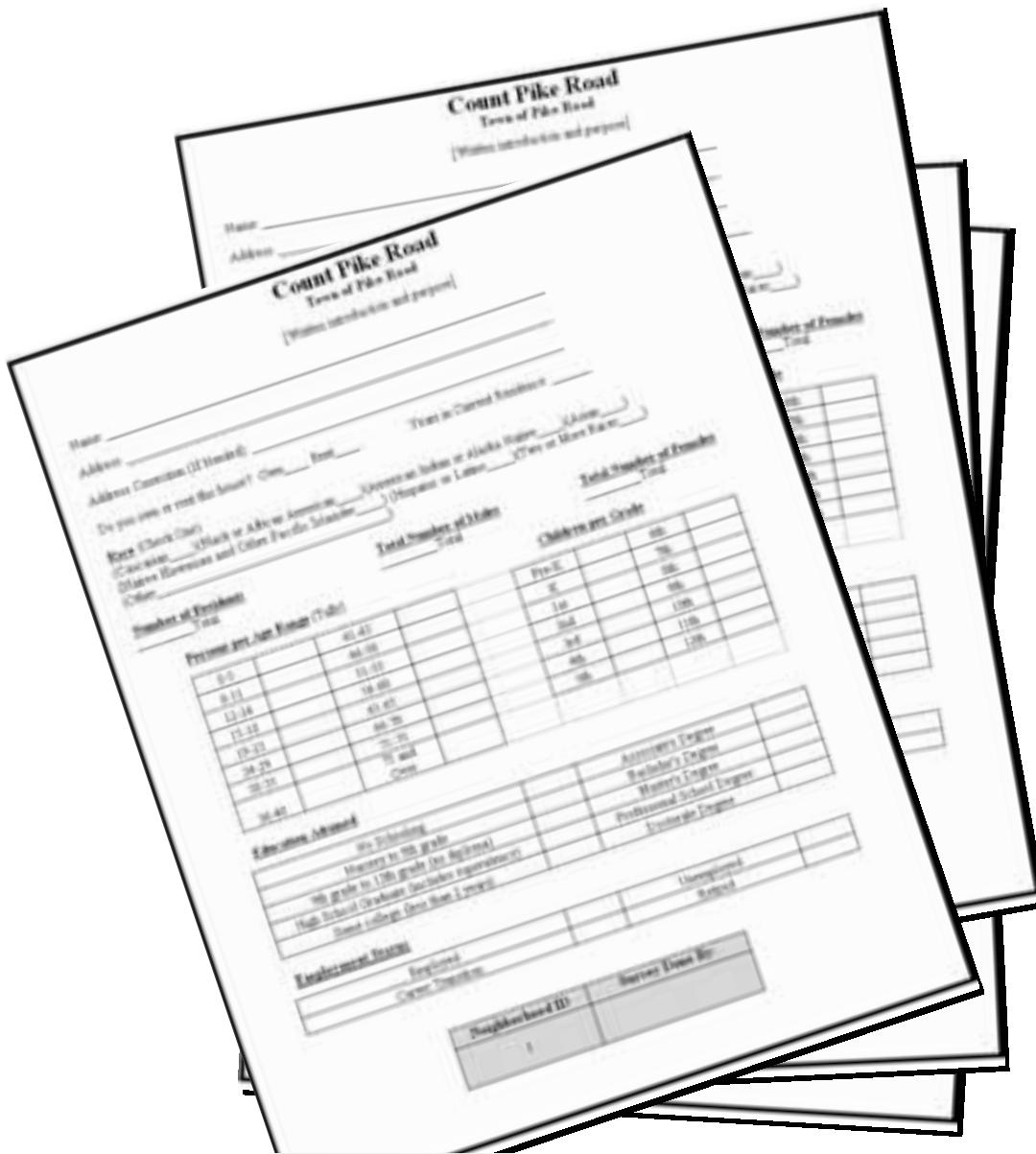
Match addresses to parcel numbers via Emapsplus.com with the help of our intern

Select parcels that will be for each volunteer

Create map for each volunteer



Survey Packets



Survey Packets

House _____
Address _____

Count Pike
Town of
Pike Road
[Wetlands Info]

House _____
Address _____
Address Common (if available) _____
Do you own or rent the house? Own _____ Rent _____
Nearest Church (if any)
Catholic _____ (Black or Above American)
Protestant _____ (White American and Other Pacific Islands)
Other _____

Number of Residents _____ Total _____

Personal Att. Last Name (if any)

| |
|-------|
| 0-5 |
| 6-10 |
| 11-15 |
| 16-20 |
| 21-25 |
| 26-30 |
| 31-35 |
| 36-40 |

Education Attended

H.S. Graduate _____
High School _____
Some College _____
College _____
Postgraduate _____

Employment Status

| | |
|-----------|------------|
| Employed | Unemployed |
| Full-Time | Part-Time |
| Homemaker | Student |
| Retired | Other |

Neighborhood ID _____ Survey Date _____

The map shows a grid of property lots. Lots are colored red, light blue, or white. A legend indicates:

- Your Lots (Red)
- Surveyed by others (Light Blue)
- Not in Pike Road (Offer invitation) (White)

Key streets labeled on the map include: E Main St, Elm Avenue Rd, Turkeyfoot Rd, Turkeyfoot Ct, Middle Brook Ct, and Deer Path.

COUNT
PIKE ROAD

THANK YOU!!!

Please remember to:

1. Fill out the complete survey for each home
2. Verify address
3. Call Town Hall with any questions
4. Explain why you are there
5. Be nice

Step 2

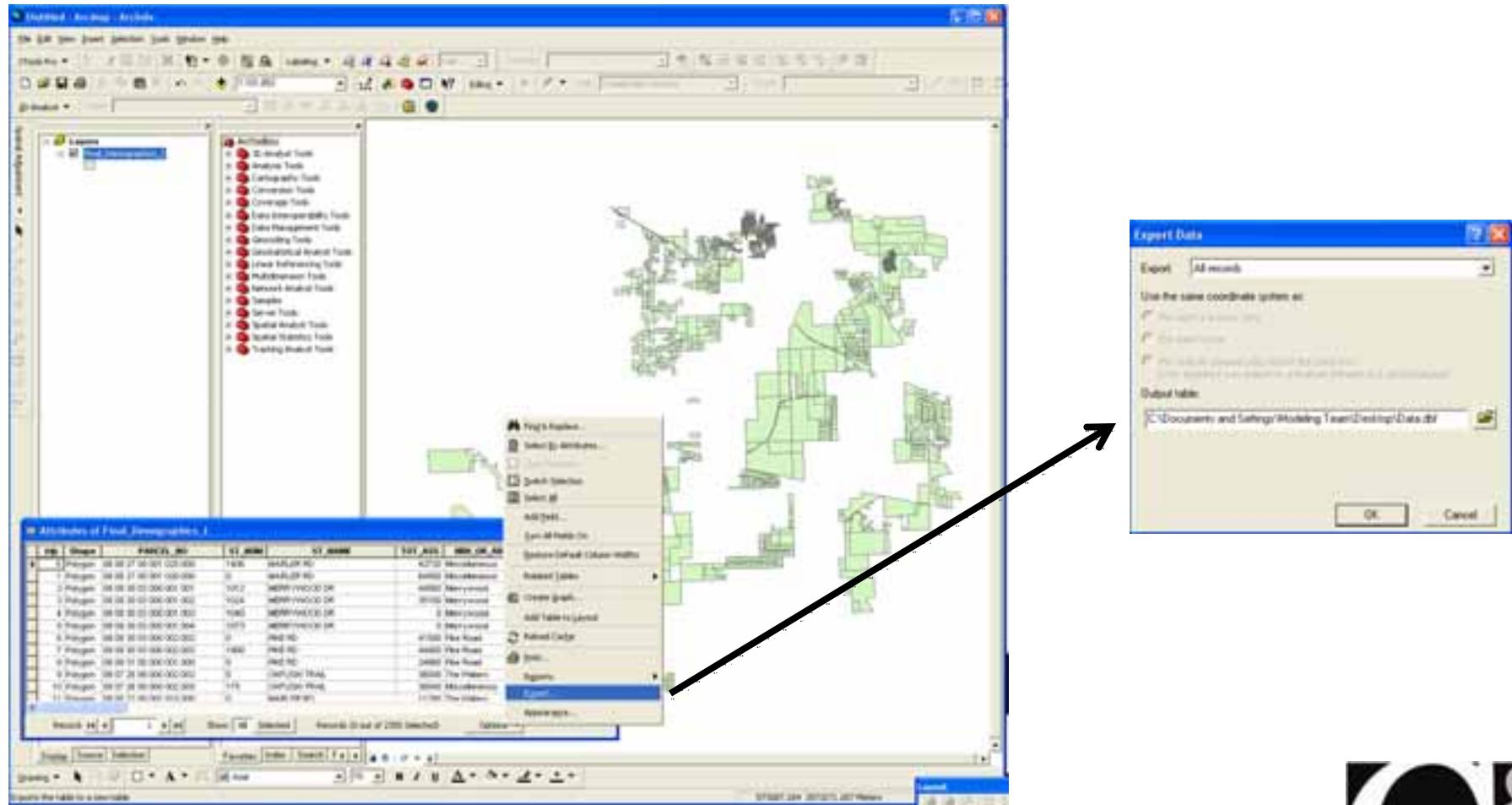
Create Excel sheet

From exported attribute table

Makes for easy data entry

As opposed to editor





Step 2

Create Excel sheet

Input data, thanks Liz



That's what I'm here for



Step 2

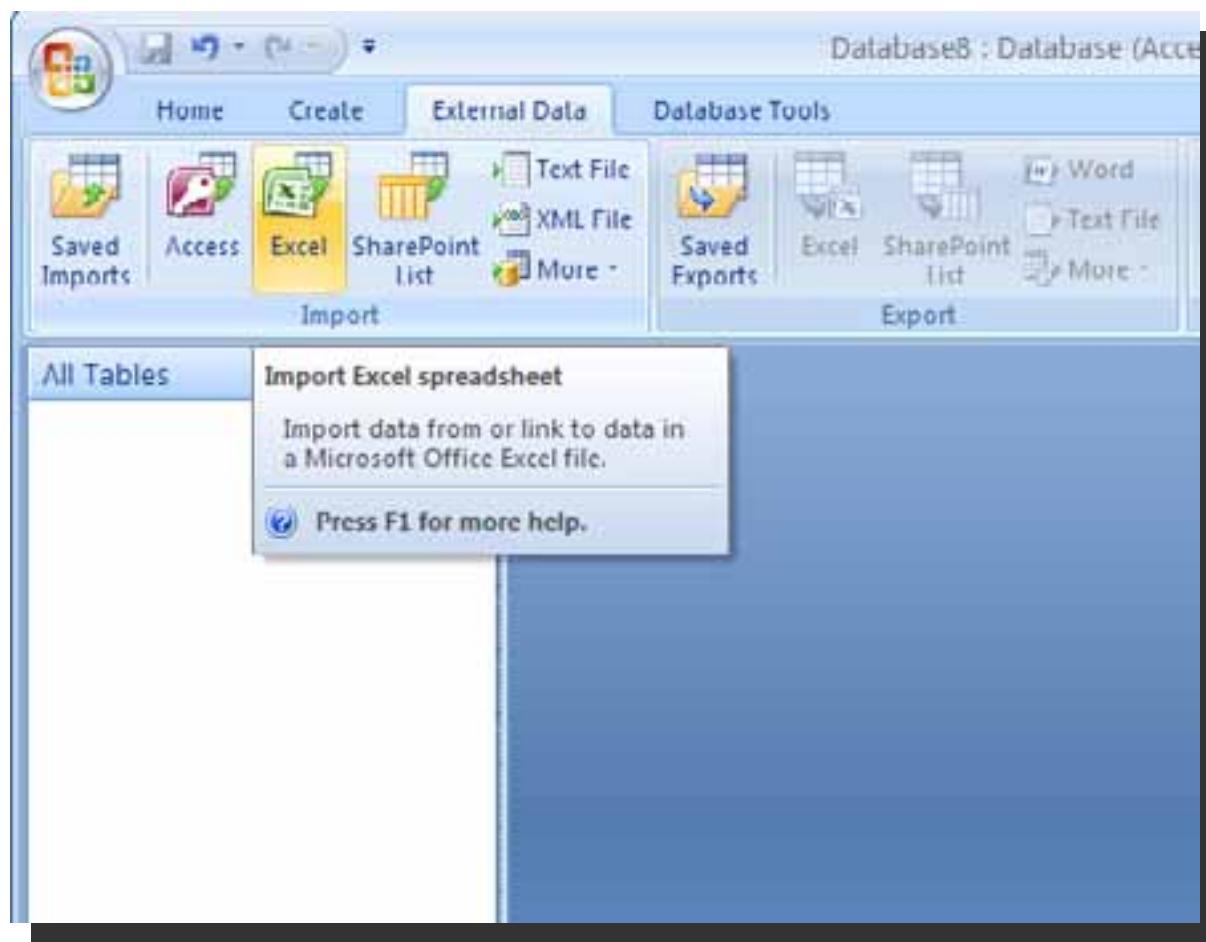
Create Excel sheet that will make data entry easy

Input data, thanks Liz

Transfer data into attribute table







Saved Import

Import

Excel

Word

PowerPoint

HTML

Text

Save As

Export

Print

Exit

Import

External Data

Database Tools

File

Save

Print

Exit

Import

Import Spreadsheet

Import data from an Excel file into a Microsoft Office Excel file.

Press F1 for more help.

Import Spreadsheet Wizard

Your spreadsheet file contains more than one worksheet or range. Which worksheet or range would you like?

Show Worksheets

Show Named Ranges

Data

| | | | | | | |
|----|-------------------------|------|---------------|--------|---------------|---------------|
| 1 | 08 08 27 00 001 025.000 | 1406 | MARLER RD | 62720 | Miscellaneous | HOOD, GUY |
| 2 | 08 08 27 00 001 025.000 | 1406 | MARLER RD | 62720 | Miscellaneous | HOOD, GUY |
| 3 | 08 08 27 00 001 028.000 | 0 | MARLER RD | 64500 | Miscellaneous | THE WATERS/V |
| 4 | 08 09 30 03 000 001.001 | 1012 | MERRYWOOD DR | 44560 | Merrywood | GLASSFORD, B |
| 5 | 08 09 30 03 000 001.002 | 1024 | MERRYWOOD DR | 95100 | Merrywood | DEVITT, CRAIG |
| 6 | 08 09 30 03 000 001.003 | 1040 | MERRYWOOD DR | 0 | Merrywood | JOHNSON, JAM |
| 7 | 08 09 30 03 000 001.004 | 1073 | MERRYWOOD DR | 0 | Merrywood | CK PARCEL # |
| 8 | 08 09 30 03 000 002.002 | 0 | PIKE RD | 41500 | Pike Road | Hughes, David |
| 9 | 08 09 30 03 000 002.003 | 1900 | PIKE RD | 44060 | Pike Road | Scanlan, Job |
| 10 | 08 09 31 00 000 001.000 | 0 | PIKE RD | 24960 | Pike Road | no house |
| 11 | 08 07 26 00 000 002.002 | 0 | OKFUSKI TRAIL | 36000 | The Waters | VACANT |
| 12 | 08 07 26 00 000 002.003 | 175 | OKFUSKI TRAIL | 38540 | Miscellaneous | JUDY, RAY |
| 13 | 08 05 22 00 001 015.000 | 0 | MARLER RD | 11200 | The Waters | HENDERSON IN |
| 14 | 08 05 22 00 001 015.001 | 0 | MARLER RD | 134500 | The Waters | HENDERSON IN |

Cancel

Next >

Finish



File Edit View Insert Tools Database Window Help

New Database Open Recent File Save Print Preview Exit Import Export Access Form Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft Publisher Microsoft Project Microsoft Visio Microsoft Project

Add Tables

Import Spreadsheet Wizard

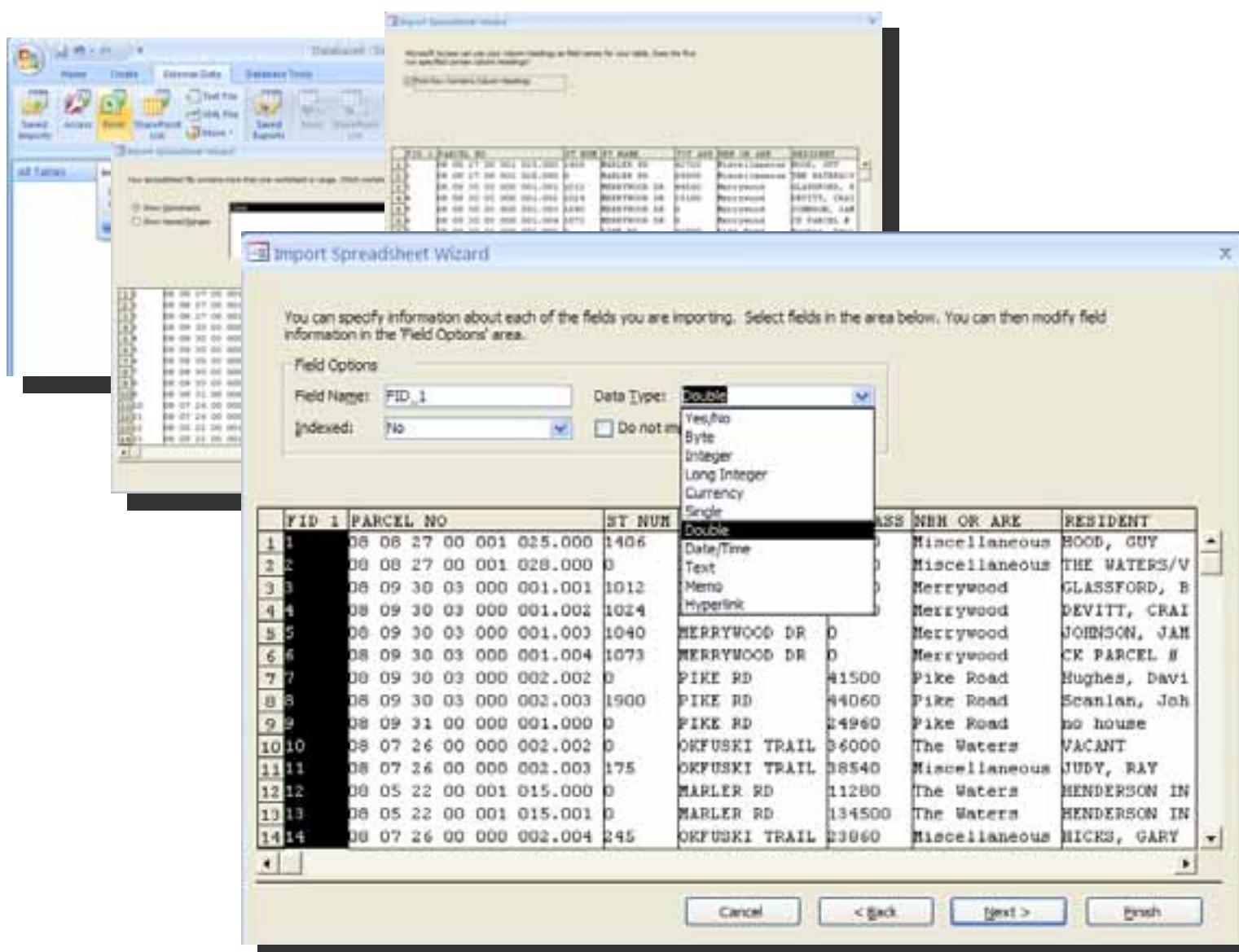
Microsoft Access can use your column headings as field names for your table. Does the first row specified contain column headings?

First Row Contains Column Headings

| FID | PARCEL NO | ST NUM | ST NAME | TOT ABB | NBH OR ABE | RESIDENT |
|-----|-------------------------|--------|---------------|---------|---------------|--------------|
| 1 | 08 08 27 00 001 025.000 | 1406 | MARLER RD | 42720 | Miscellaneous | HOOD, GUY |
| 2 | 08 08 27 00 001 028.000 | 0 | MARLER RD | 64500 | Miscellaneous | THE WATERS/V |
| 3 | 08 09 30 03 000 001.001 | 1012 | MERRYWOOD DR | 44560 | Merrywood | GLASSFORD, B |
| 4 | 08 09 30 03 000 001.002 | 1024 | MERRYWOOD DR | 35100 | Merrywood | DEVITT, CRAI |
| 5 | 08 09 30 03 000 001.003 | 1040 | MERRYWOOD DR | 0 | Merrywood | JOHNSON, JAM |
| 6 | 08 09 30 03 000 001.004 | 1073 | MERRYWOOD DR | 0 | Merrywood | CK PARCEL # |
| 7 | 08 09 30 03 000 002.002 | 0 | PIKE RD | 41500 | Pike Road | Hughes, Davi |
| 8 | 08 09 30 03 000 002.003 | 1900 | PIKE RD | 44060 | Pike Road | Scanian, Jon |
| 9 | 08 09 31 00 000 001.000 | 0 | PIKE RD | 24960 | Pike Road | no house |
| 10 | 08 07 26 00 000 002.002 | 0 | OKFUSKI TRAIL | 36000 | The Waters | VACANT |
| 11 | 08 07 26 00 000 002.003 | 175 | OKFUSKI TRAIL | 38540 | Miscellaneous | JUDY, RAY |
| 12 | 08 05 22 00 001 015.000 | 0 | MARLER RD | 11280 | The Waters | HENDERSON IN |
| 13 | 08 05 22 00 001 015.001 | 0 | MARLER RD | 134500 | The Waters | HENDERSON IN |
| 14 | 08 07 26 00 000 002.004 | 245 | OKFUSKI TRAIL | 23860 | Miscellaneous | HICKS, GARY |

Cancel < Back Next > Finish





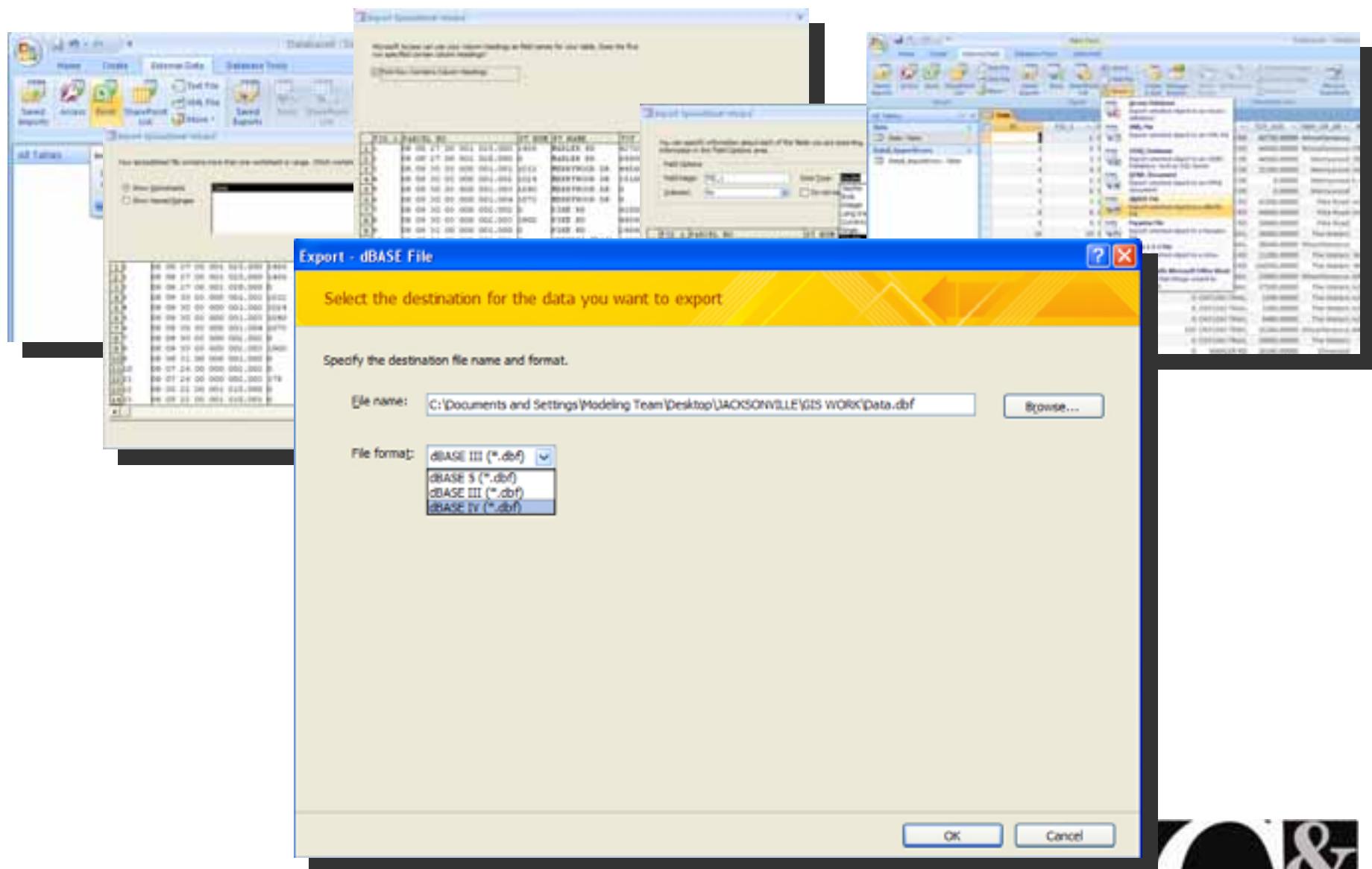
The screenshot shows the Microsoft Access 2010 interface with several windows open:

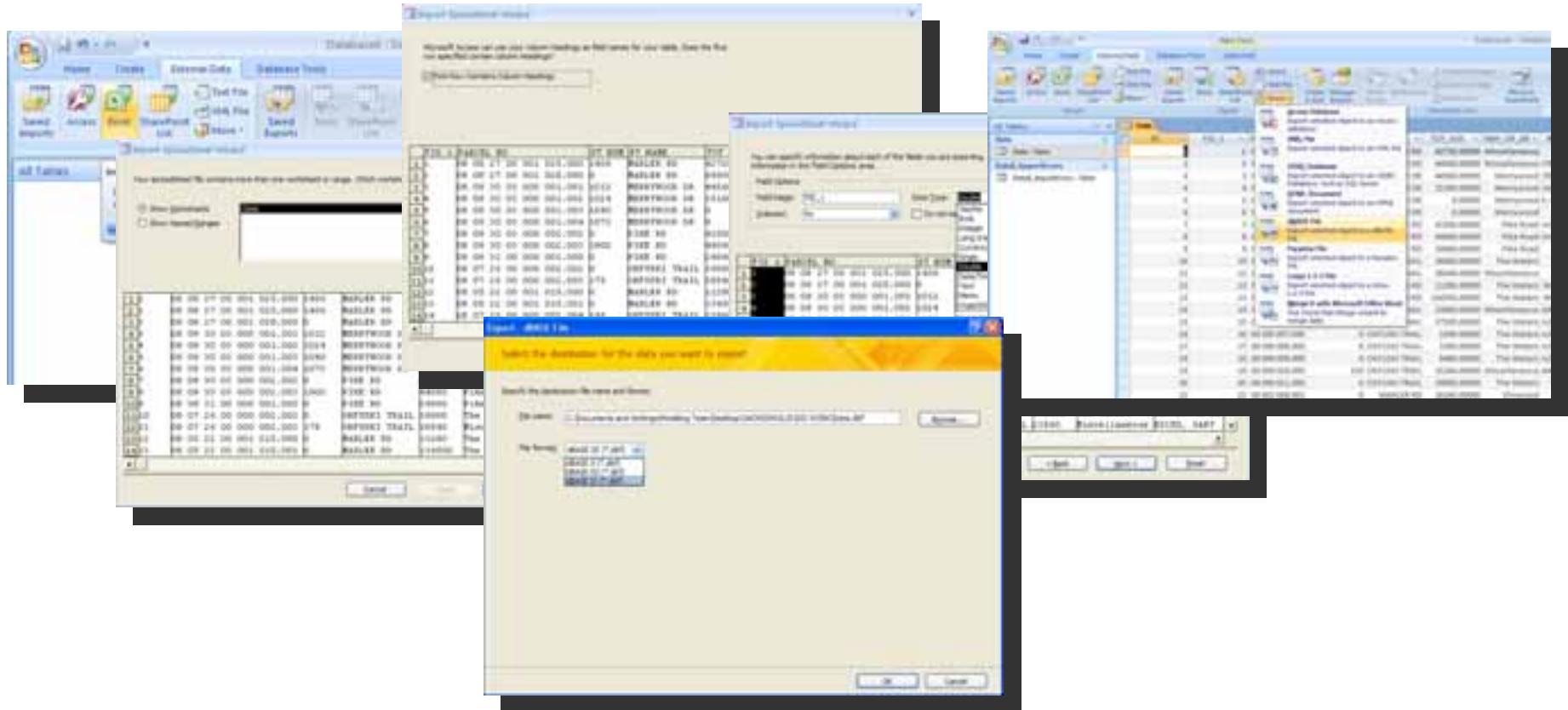
- Import Spreadsheet Wizard**: A dialog box where the user has selected "Text File" as the import type and chosen the file "Data5.txt". The preview pane shows the first few rows of the data.
- Export Spreadsheet Wizard**: A dialog box where the user has selected "Text File" as the export type and chosen the file "Data5.txt". The preview pane shows the first few rows of the data.
- Table Tools**: A ribbon tab selected, showing options for Home, Create, External Data, Database Tools, and Datasheet.
- Datasheet View**: The main workspace displaying a table with columns: FID, ID, and P. The data includes rows from 1 to 21, with some rows containing error codes like "#NAME?" or "#REF!".
- Contextual Menu**: A pop-up menu for the selected row (FID 1) offering various export options:

 - Access Database
 - XML File
 - ODBC Database
 - HTML Document
 - dBASE File
 - Paradox File
 - Lotus 1-2-3 File
 - Merge it with Microsoft Office Word

- Left Sidebar**: Shows the navigation pane with "All Tables" expanded, listing "Data" (Data : Table) and "Data5_ImportErrors" (Data5_ImportErrors : Table).







Does Pike Road have 5,000 residents?

Do big brown bears poop in the woods?



Yes, they do!



5,246, to be exact



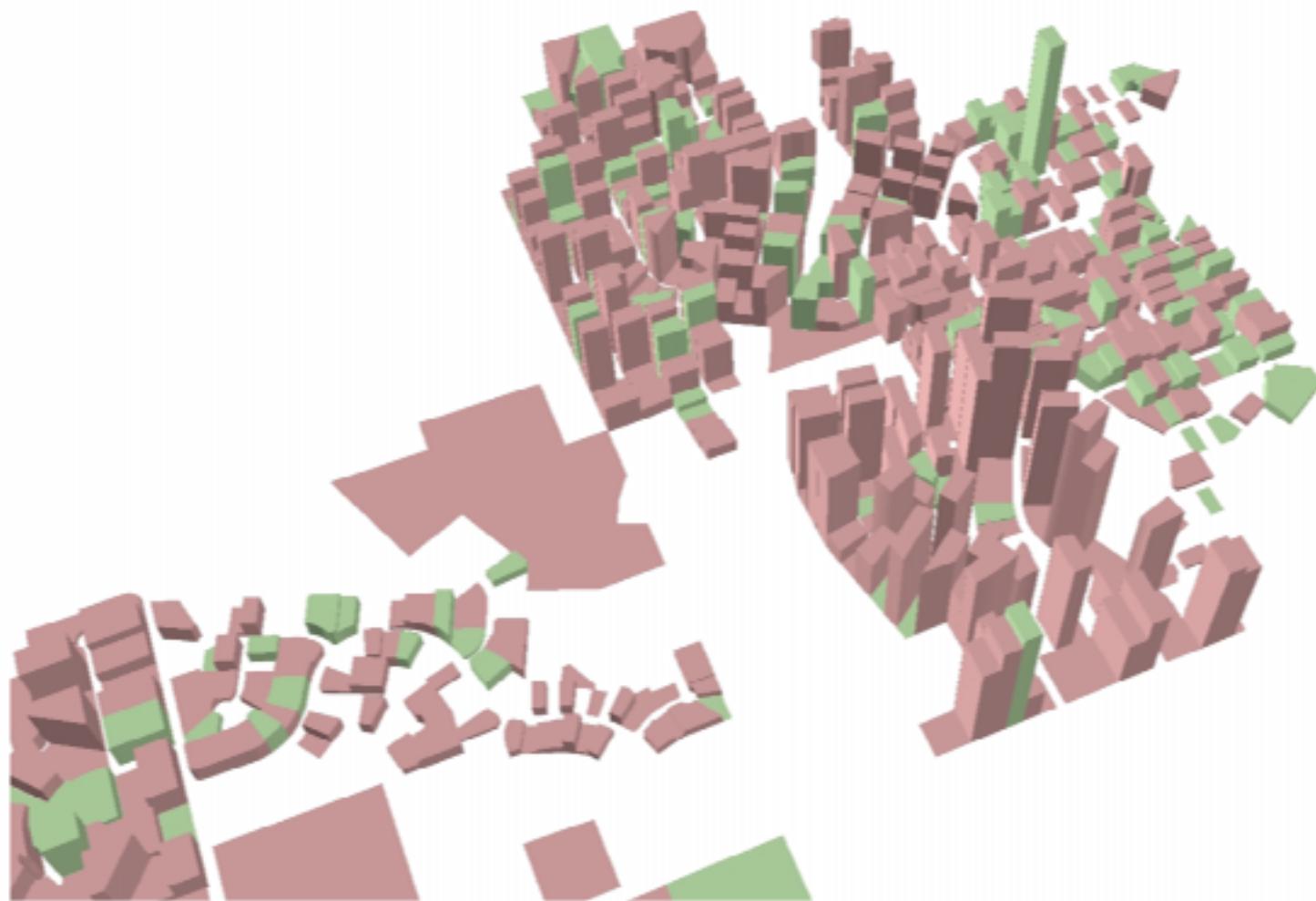
Step 3

Displaying the data













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32°21'33.45"N 86°05'09.48"W elev. 206 ft.

Google Earth

Eye alt. 267 ft





