DC GIS Steering Committee Meeting
March 7, 2007

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Agenda

- **Introductions** – All
- **DC GIS News** – Barney Krucoff
- **Data Report** – Mario Field
- **Systems Report** – Zhen Lo
- **Addition of City-wide Data Warehouse (CapStat) Data to DC GIS Tools.**
- **Training Report** – Tim Abdella
- **Focus on demographics and getting ready for Census 2010**
    - **DC State Data Center – Joy Phillips**
    - **US Census Bureau 2010 Preview – Greg Brivic**

News Items

- United States Geological Survey (USGS) Planning Grant
- Going Global
  - Google Earth
  - Microsoft Virtual Earth
- GIS Support for CapStat Sessions
- Applications in the pipeline
  - Development Restrictions
  - Sewer shed look-up
- Budget News
- Regional GIS News

DC GIS Data Report

Mario Field

Dr. Data

Updated DC GIS Data

- Commission Fine Arts Review Area
- Correctional Halfway House
- Historic District
- Historic Structure
- Marina
- MAR
- Metro Entrance Structure
- Places of Worship
- Public School
- Other Historic Area
- Recreation Facilities
- Recreation Parks
- Storm Sewer System
- Tax Increment Fund
- Zoning

Retired Datasets

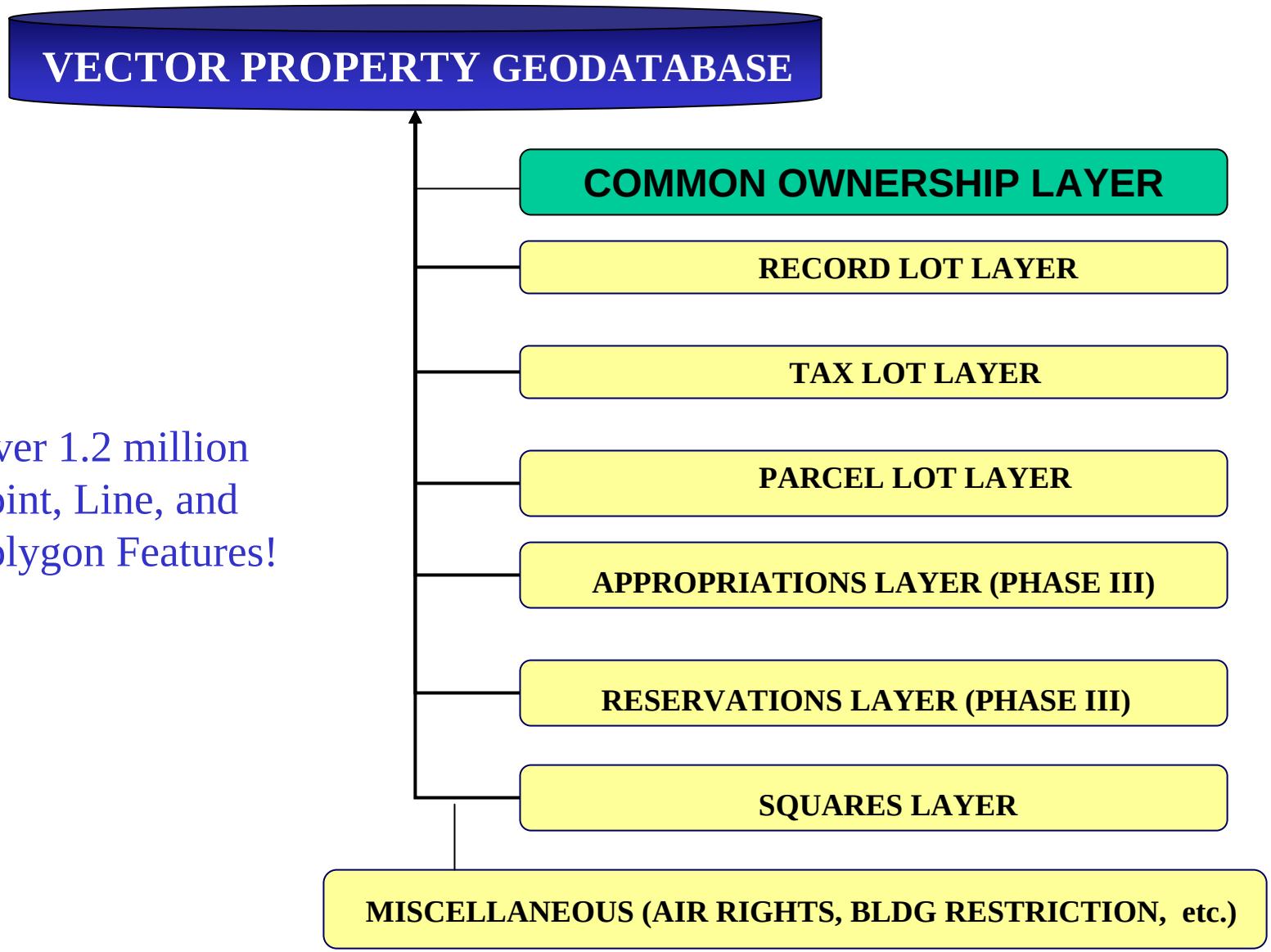
- Bike Lane
- Bike Route
- Bike Trail
- Commission of Fine Arts Area
- Fire Station Building
- Library Building
- Hospital Building
- New Community Candidate
- Parking Meter
- Points of Interest
- Police Station Building
- Public School Building
- Property Square
- Street Annotation
- Trees (planimetric)

Current DC GIS Data Update

- ABRA Licensee Location
- Comprehensive Planning
- Metro Station
- Metro Line
- Senior Service Network Site
- Street Centerline
- Watershed
- MAR
- Vector Property
- Zoning

  – March 2007 publication

Vector Property Map



Over 1.2 million Point, Line, and Polygon Features!

Vector Property Map

- **RECORD LOT** – A LOT ASSIGNED BY THE DC SURVEYOR THAT RESIDES WITHIN A SQUARE AND FACES A PUBLIC STREET.
- **TAX LOT** – A LOT ASSIGNED BY THE REAL PROPERTY TAX ADMINISTRATION THAT USUALLY RESIDES WITHIN A SQUARE.
- **PARCEL LOT** – TRACTS OF LAND OFTEN NOT RESIDING WITHIN A SQUARE MOST OF WHICH WERE CREATED WHEN THE CITY OF WASHINGTON AND THE COUNTY MERGED TO FORM THE DISTRICT OF COLUMBIA.
- **COMMON OWNERSHIP LAYER** – OWNERPLY IS A SINGLE POLYGON FEATURE CLASS THAT IS CONSTRUCTED FROM VARIOUS VPM POLYGON FEATURE CLASSES. THIS REPRESENTS ALL LANDS OUTSIDE THE RIGHT-OF-WAY. THE PUBLIC EXTRACT ATTRIBUTES ARE APPENDED TO THIS LAYER.

PHASE III

- **APPROPRIATIONS** - LAND APPROPRIATED BY THE FEDERAL GOVERNMENT FOR THEIR USE WHEN THE CITY OF WASHINGTON WAS CREATED. THERE ARE ONLY 17.
- **RESERVATIONS** – LAND RESERVED FOR FEDERAL GOVERNMENT USE AS A RESULT OF A FEDERAL ACT IN 1906 . ADDITIONAL RESERVATIONS WERE CREATED BY THE DC TAX OFFICE IN 1966.

Vector Property Map

- **Released February 2007**
- **Citrix under “Property and Land”**
- **DC GIS Central under “Real Property”**
- **Available to the public on “dcgis.dc.gov”**

Vector Property Map

- Individual edits that will make the release completely time-stamped September 2005 are in the transaction tables:
  - VPM_RECORD_LOTS_UPDATES
  - VPM_TAX_LOTS_UPDATES
- The database is dated September 2005.
- Street width is approximate. Users should rely on the published official street widths to set up property lines or determine right-of-way (this is from the DC Land Surveyors Hand Book).
- Not all of the fields are currently populated. The remainder will be populated later in 2007.

Vector Property Map

VPM (all dated September 2005)	MAY/JUNE 2007
VPM (time-stamped December 2006)	SEP/OCT 2007
Remaining Parcels, Reservations and Appropriations	DECEMBER 2007
VPM (present day)	DECEMBER 2007

Owner Points Update

- A new table is being created in MAR that captures the many-to-many relationship between, addresses and land, AID and SSL
- Owner Points and CAMA points continue to be the most current source of attribute data on properties.
- Owner Points and CAMA points will be spatially adjusted to better fit the Common Ownership Layer.
  - Owner Points and CAMA points will be moved to the center of the VPM lot with corresponding SSL.
  - Condo Points will be randomly distributed within the underlying record lot. (Extra Credit, TBD)
  - Owner Points without corresponding VPM lots will remain in their current location.

DC GIS Systems Report

Zhen Lo

Systems Lead

Transitions to ArcGIS 9.2

- ArcGIS 9.2 on Citrix
- ArcIMS 9.2
- ArcGIS Server 9.2 with ArcSDE
- GIS Portal Toolkit 3.0

What's New

- ArcGIS 9.2 Desktop
  - 4x faster geoprocessing with batch support
  - Direct read of Excel spreadsheets
  - Improved DC geocoding (with DC GIS locator service)
  - Generalization tools
  - Improved reporting and graphic functions
  - Tools support group layer files
  - http://www.esri.com/software/arcgis/arcview/about/whats-new.html
- ArcIMS 9.2
  - Data downloading
  - Improved performance (faster map rendering)
  - Dockable elements and collapsible panels
  - Better search capabilities with keywords
  - Improve metadata and map tips
  - http://www.esri.com/software/arcgis/arcims/about/whats-new.html

What's New Continued

- ArcGIS Server 9.2
  - Web browser geodatabase editors
  - Dynamic caching of 2D and 3D data
  - Web base map service management
  - Compatible with KML and OGC standards
  - Database synchronization capabilities
  - http://www.esri.com/software/arcgis/about/whats-new.html

- GIS Portal Toolkit 3.0
  - Replaces our DC data catalog
  - Harvest metadata straight from SDE, gos standard
  - Integrate different map services (arcims, wfs, wms)

Dependencies

- ArcGIS Desktop 9.2 must go first, but
  - MAR Maintenance stays at 9.1
  - DARRT (DPW debris application) stays at 9.1
  - RouteSmart stays at 9.1
- ArcIMS and ArcGIS Server / ArcSDE must go simultaneous. Because we:
  - DC GIS uses “direct connect” ArcIMS and ArcSDE must be the same versions
  - DC Guide uses ArcIMS RouteServer extension. RouteServer 9.2 not available until mid-April.

Timeframes

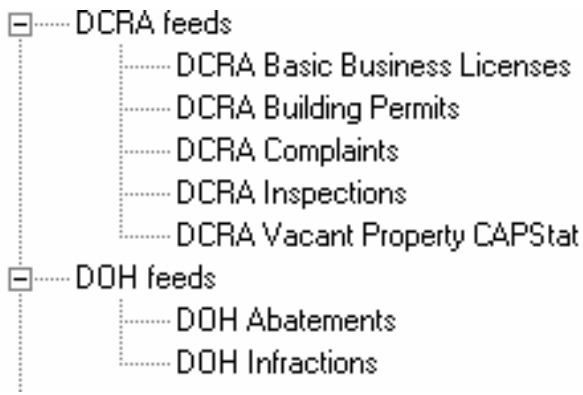
- **ArcGIS 9.2 (approx April 1)**
  - Custom tools (DCGIS Tools already working and tested)
- **ArcGIS Server/ArcSDE/ArcIMS 9.2 (mid-May)**
  - Route server extension (DC Guide)
  - ArcSDE (for direct connect)

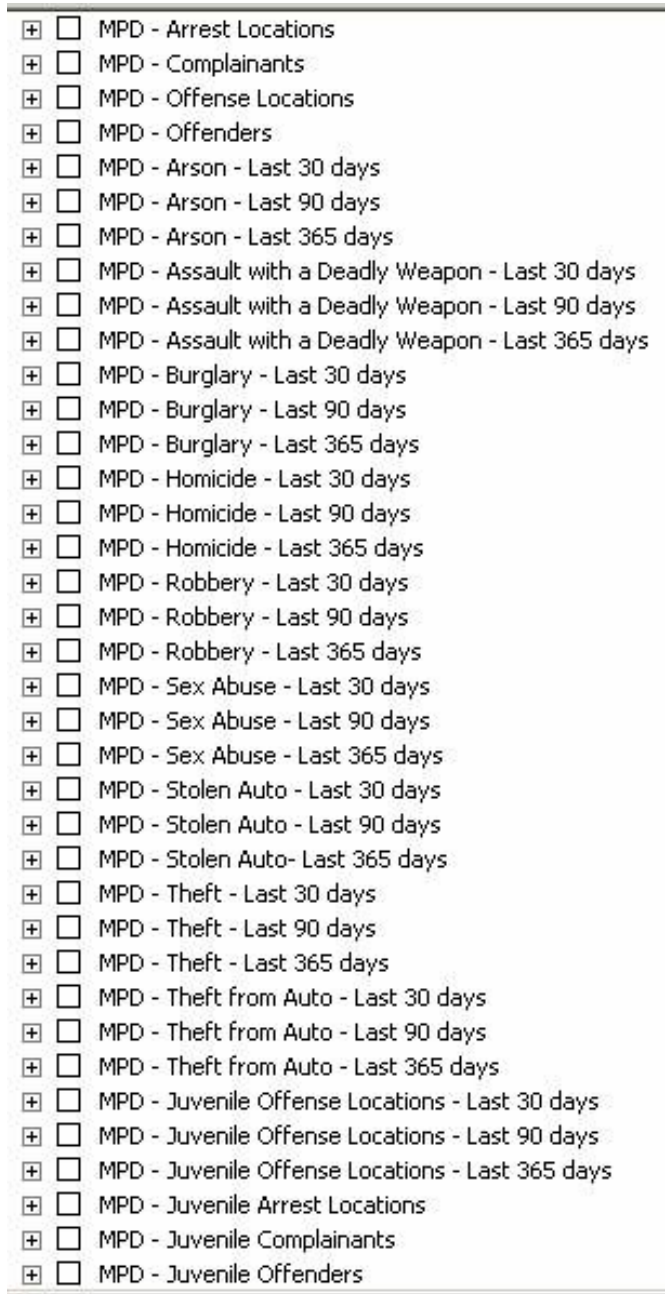
DC GIS Training Report

Tim Abdella
GeoSpatial Education Director

Demonstration

- “Live” data feeds
- City Wide Data Warehouse
  - Formally OCTO program:
    - DCStat
    - CAPStat
- Currently available:





CWD Course Report

The Courses: ***(In suggested order of completion)***	***Number***	***Days***
• Overview of DC GIS Services and Applications	#232	1
• Introduction to DC GIS using ArcGIS 1	#230	3
• Working with address & point based data	#233	1
• GIS for ESF (Emergency Service Functions)	#234	2
• GIS for Professional Analysts	#235	2

Schedule on-line through September 2007

Classes canceled because of low enrollment, not lack of interest

CWD Registration

Course Registration:

- Select Classes
- Get Supervisor Approval
- Complete the Training Form
- E-mail to Training Coordinator for his/her review and signature
- Confirmation of enrollment in the course will be emailed to you
- Notify CWD if you can not attend within 3 days of the class
- For more information about CWD, call (202) 727-1523
- All Information is on dcgis.in.dc.gov → Training Website

http://www.dcop.in.dc.gov

Click on:

Training and Development

Documentation Updates

- Master Address Repository (MAR) updates:
  - Single Website page to find everything.
  - Methodology: Calculating Confidence Levels in MAR WebService document
  - Download the updated MAR Batch Geocoder updated: 1/29/2007
  - MAR Geocoder documentation updated: 1/29/2007
  - Address lookup using The MAR updated: 1/17/2007

- User guide updates
  - Working with the DC Snapbase updated: 2/13/2007

Q&A

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Thank you

The Reengineering of the 2010 Census

DC GIS Steering Committee
March 8, 2007

U.S. Census Bureau
Greg Brivic
Philadelphia Regional Office

Session Topics:

1) **MAF/TIGER Enhancements Program**
   - MAF/TIGER Accuracy Improvement Project
   - Modernization of geographic environment
2) **Geographic partnership programs**
   - LUCA, BAS, STAT AREA
3) **American Community Survey**

MAF/TIGER System

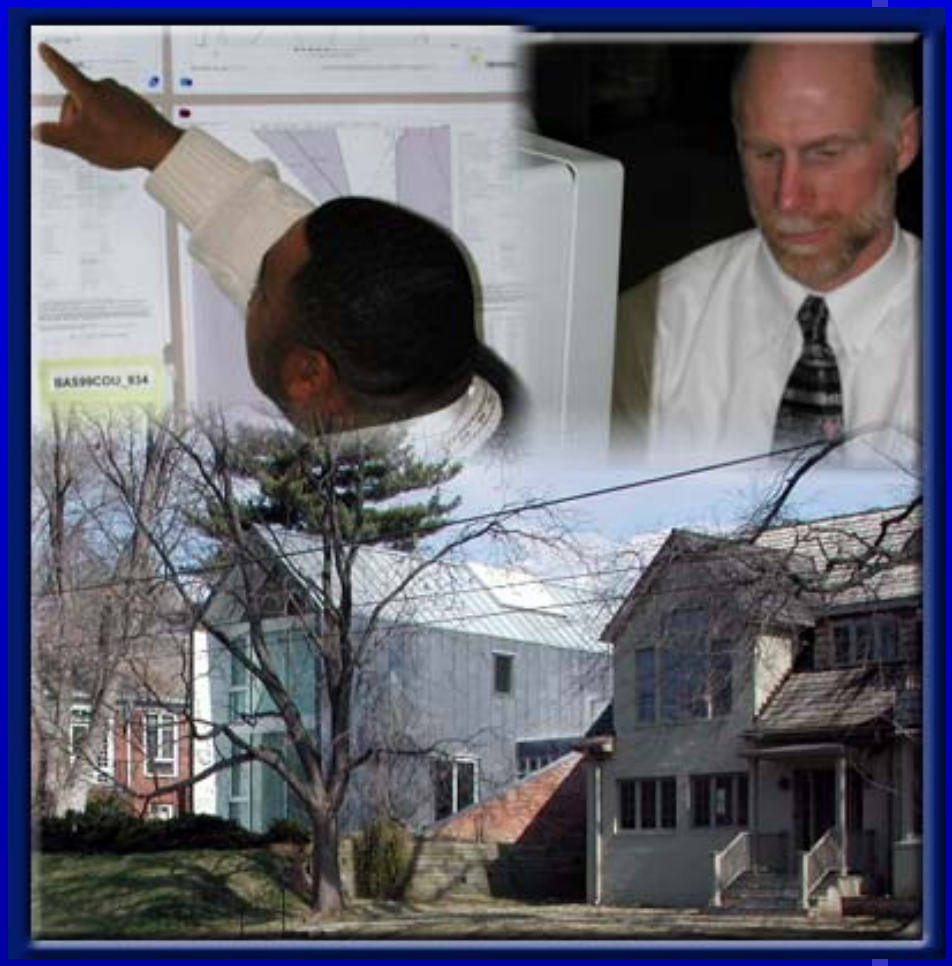
- The Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) systems were developed to support the Census Bureau's mission of collecting and cataloging accurate demographic and geographic data.

- The Geography Division developed TIGER during the early 1980s and the MAF during the 1990s.

What is the MAF?

Master Address File

An accurate and up-to-date inventory of all known living quarters in the United States and Puerto Rico



The content of the MAF is:

- **Mailing address, if one exists**
- **Descriptive address, if no mailing address is known**
- **Census geographic location**
- **Source and history data**
- **Coordinate (if available)**

All addresses and locations MUST be kept confidential

What is TIGER?

Topologically Integrated Geographic Encoding and Referencing

A "digital map" (geographic data base) of the entire United States, Puerto Rico, and the associated Island Areas

TIGER Content

- Streets and their names
- Lakes, streams, and their names
- Railroads
- Geographic entity boundaries, names, and codes (for governmental units, census tracts, census blocks, etc.)
- Selected structure locations
- Key geographic locations (for airports, schools, etc.)
- ZIP Codes and address ranges (for streets with city-style addresses)

Major MAF/TIGER Issues

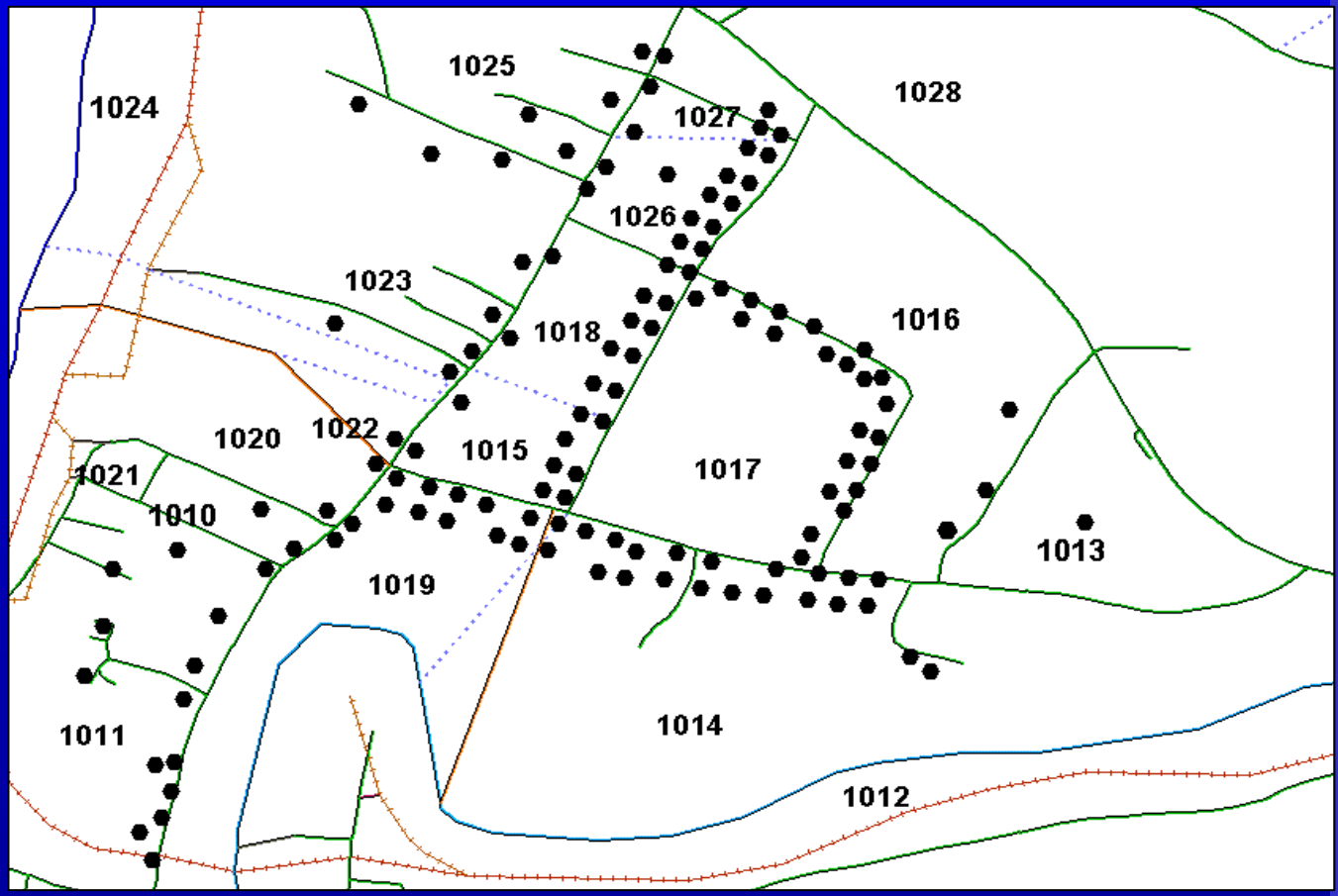
Location Information of Mixed/Variable Accuracy

Large, non-uniform differences in location accuracy exist in a relatively small area, and no detailed quality measures document the extent of street and address errors

Major MAF/TIGER Issues

Inaccurate locations preclude adopting GPS locational technology for the American Community Survey and the 2010 Census until MAF/TIGER has locations corrected

Good GPS positions over incorrect Census 2000 MAF/TIGER locations would put many houses on the wrong side of the street and, therefore, in the wrong census block



MAF/TIGER Enhancement Program - Objectives

- **Objective One:** Accurately locate every street and other map features in the TIGER data base.
- **Objective Two:** Implement a modern processing environment for the MAF/TIGER System using commercial off-the-shelf (COTS) products.
- **Objective Three:** Expand and encourage geographic partnership programs with state, local, and tribal governments that update the MAF/TIGER databases.
- **Objective Four:** Launch the Community Address Updating System (CAUS) to ensure uniform and complete address and street coverage throughout the MAF/TIGER data base. **(ACS!!!)**
- **Objective Five:** Implement a comprehensive plan for periodic MAF/TIGER evaluation and corrective activities that will guide planning for cost–effective future coverage and geocoding improvement operations.

MAF/TIGER Enhancement Program Goals

- **Align the MAF/TIGER databases with GIS files** maintained by state, local, and tribal partners, other federal agencies and private sector firms allow the Census Bureau to implement more programs in a digital file based format, rather than a paper-based format.
- **Improve the spatial accuracy of the TIGER database** thus enabling Census Bureau field staff using GPS equipped hand-held devices to implement more accurate field data collection methods.
- **Support the Administration's Geospatial One-Stop E-government initiatives** in compliance with the requirements of the Government Paper Work Elimination Act, OMB circular A-16, and Executive Order 12906.

MTAIP Sources

- Priority is to use Tribal, State, County,and Local (TSCL) GIS Files as the source for improving TIGER coordinates
- Census Bureau regional offices contacted potential governmental source providers
- Harris Corporation acquires source where no TSCL source meeting the standard is available
  - --imagery
  - --commercial GIS
  - --field collection of centerline GPS as a last resort

MTAIP - Feedback to Source Providers

File providers will be given feedback on spatial accuracy tests run by Census

- CE 95 test results with reported horizontal spatial accuracy

- Accuracies above 7.6m will not be used for realignment *

Metadata ID values per segment – SOURCEID, TGR.RTM

- Allows File Providers to determine segment history in TIGER using SOURCEID field by TLID

- Source for File Providers to determine how their file was used

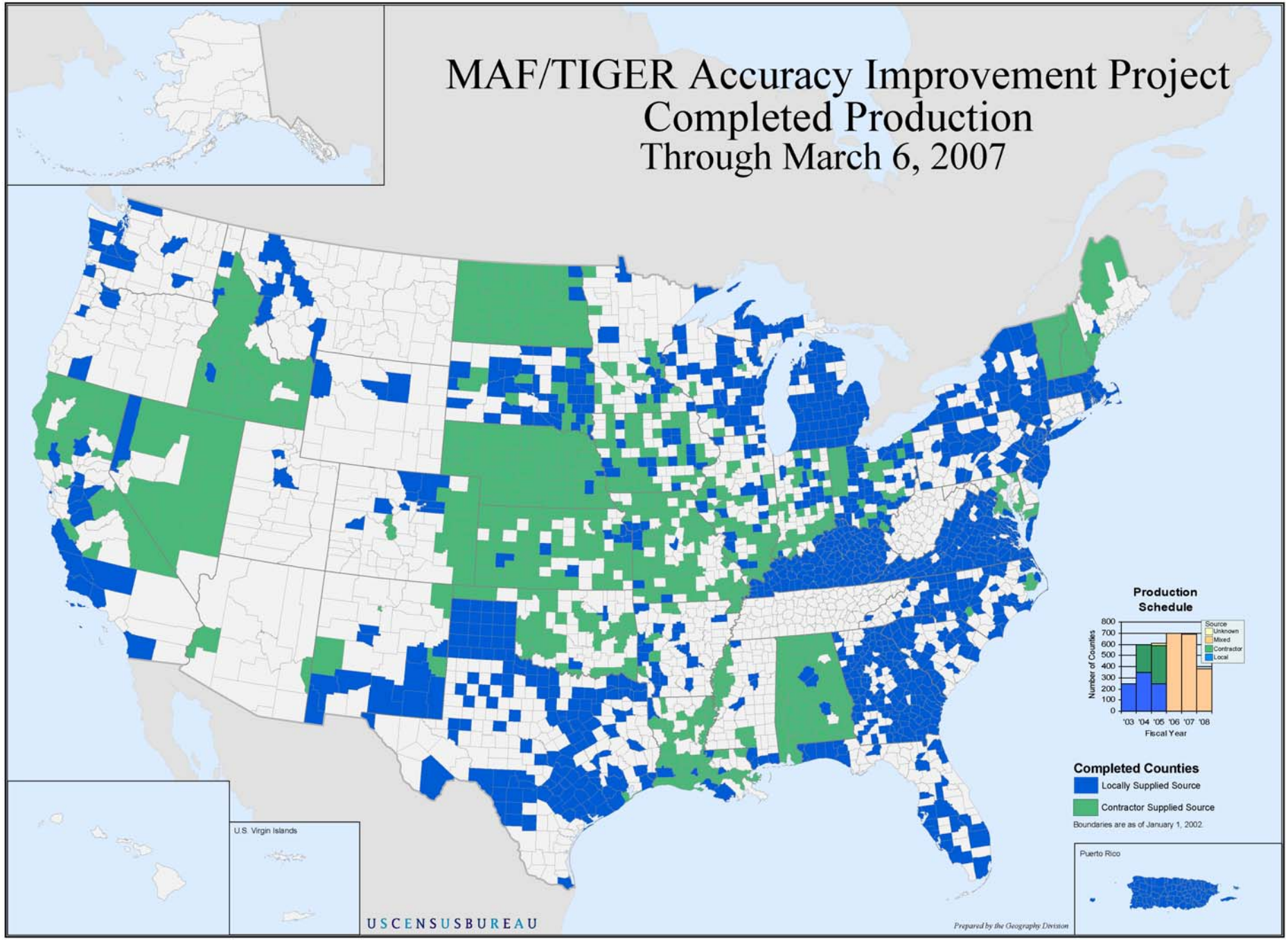
- .RTH table provides history of TLID when split or merged

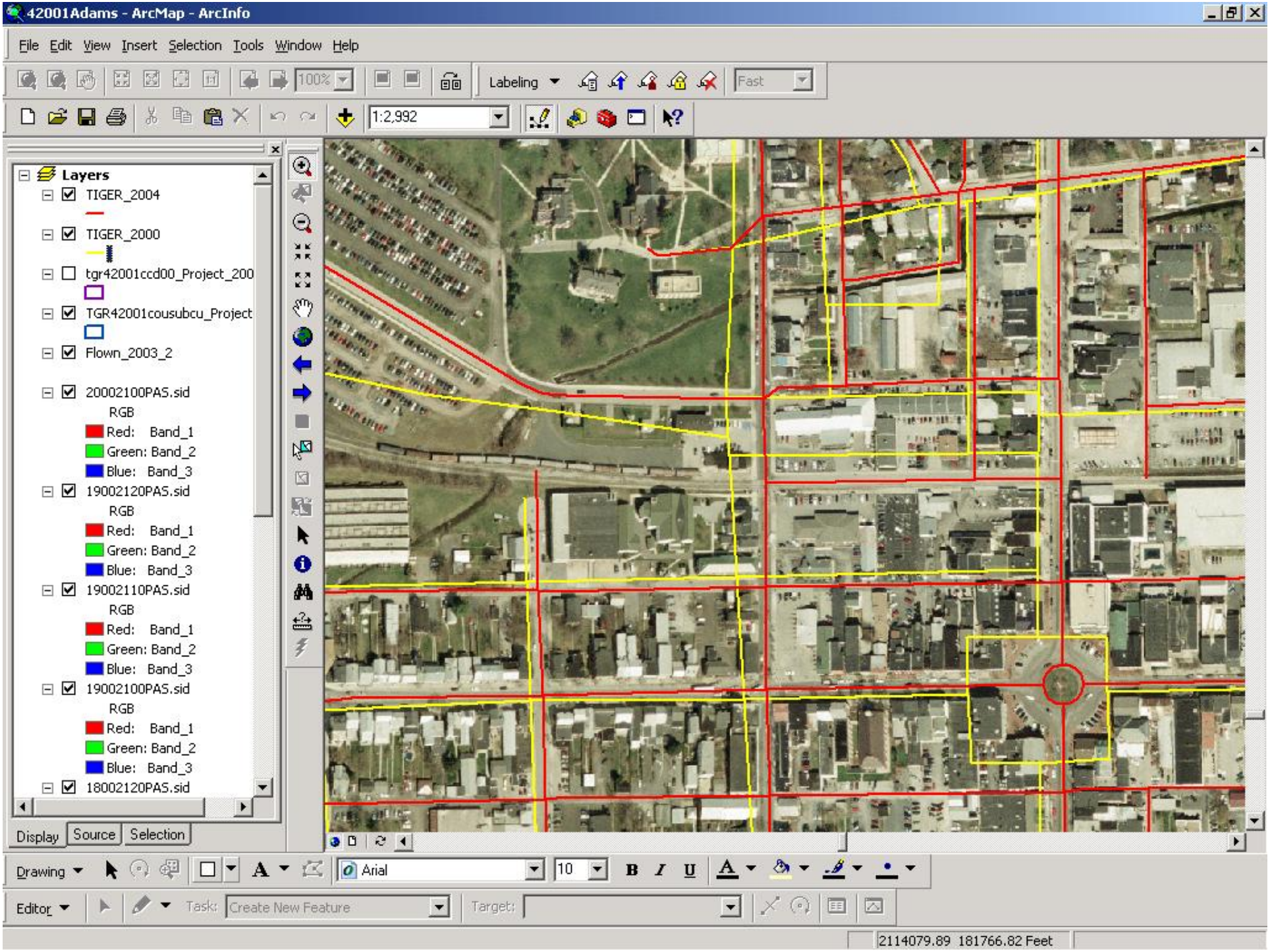
Incentives to Share Data

With the same base across agencies at all levels of government:

- It becomes easier for program participation
- It becomes easier for transactional updates
- The Census Bureau edgematches between files
  - Across county boundaries
  - Between entities (city-county, tribal-county, etc.)

MAF/TIGER Accuracy Improvement Project
Completed Production
Through March 6, 2007

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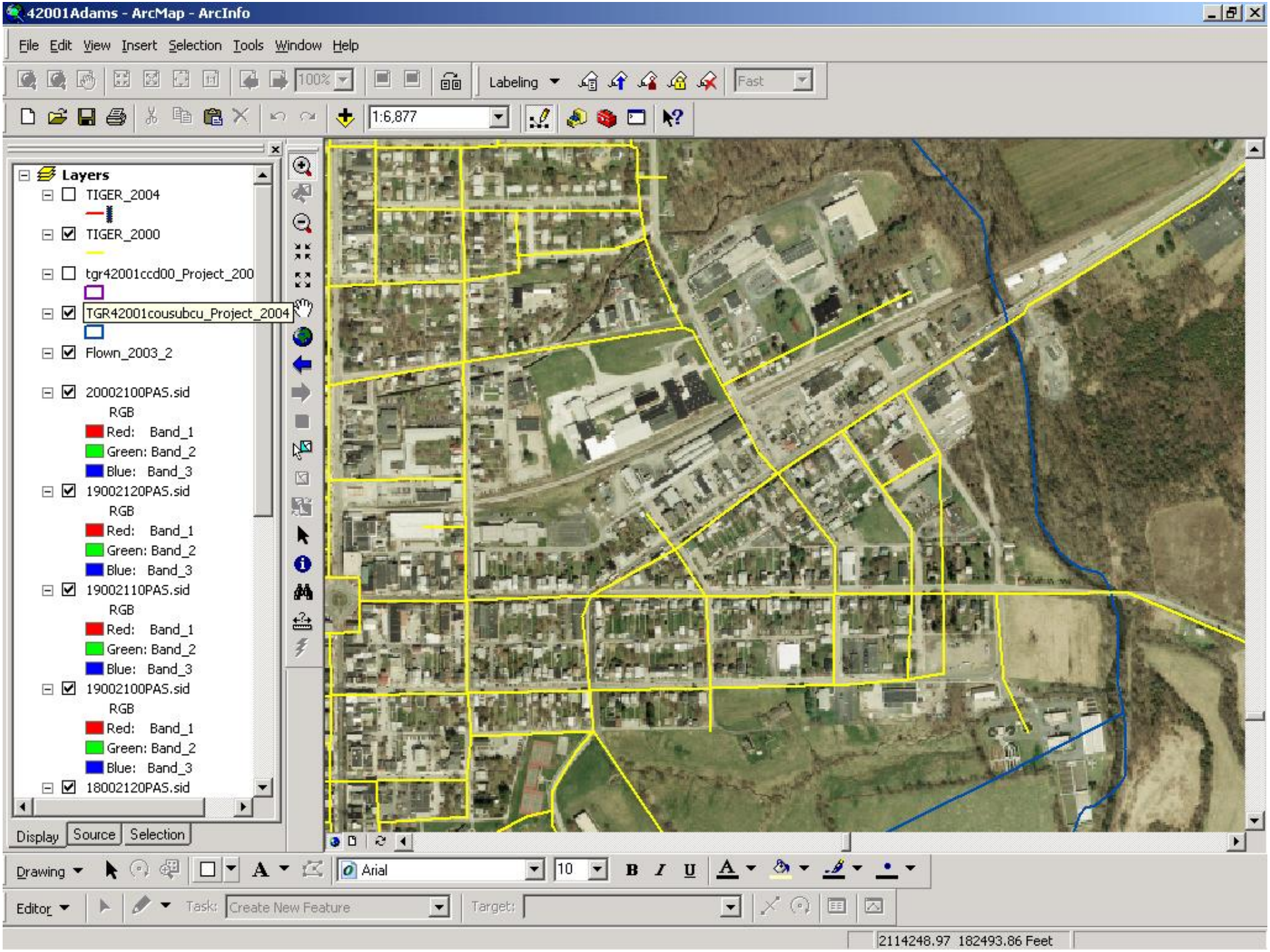
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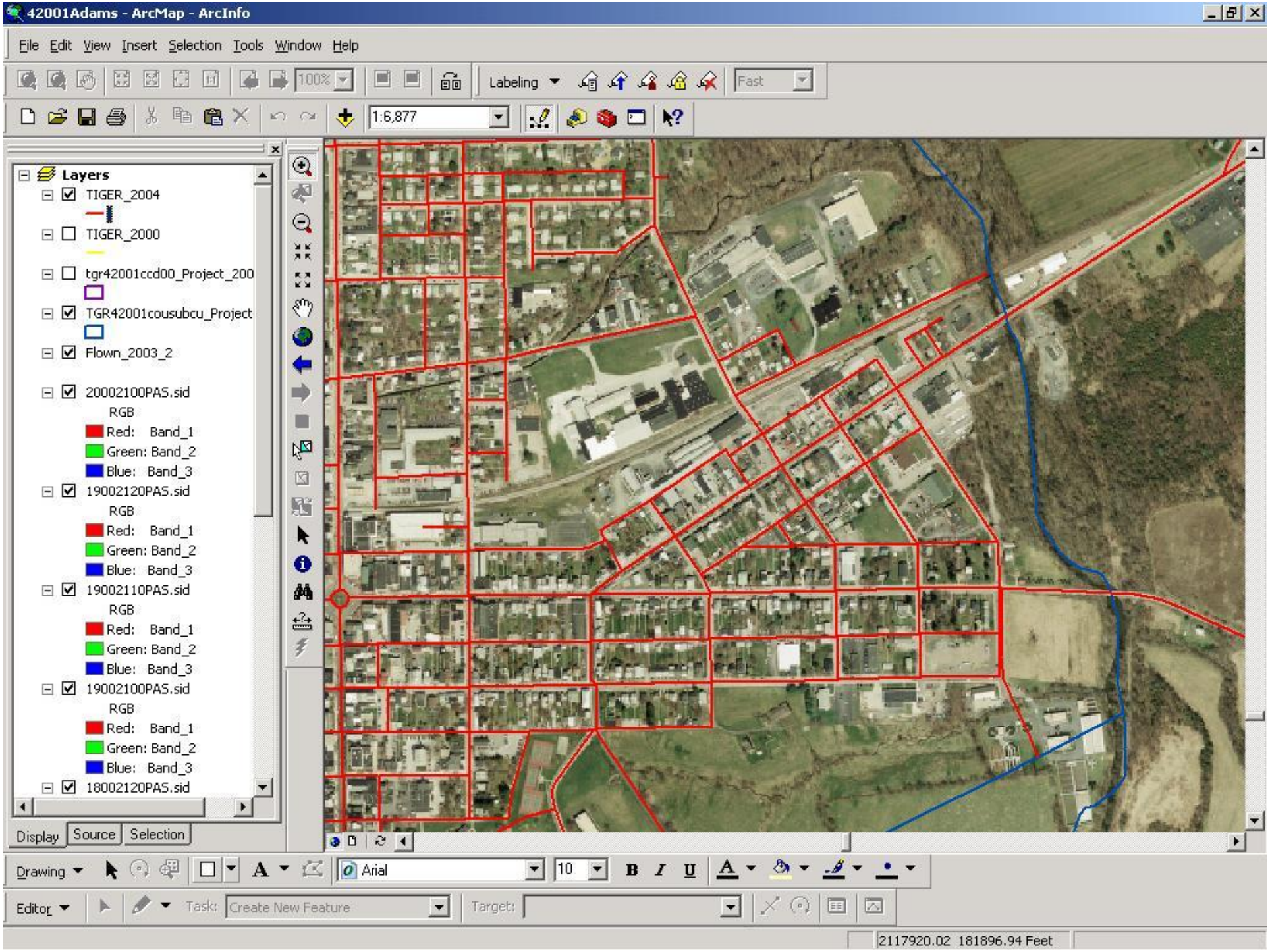
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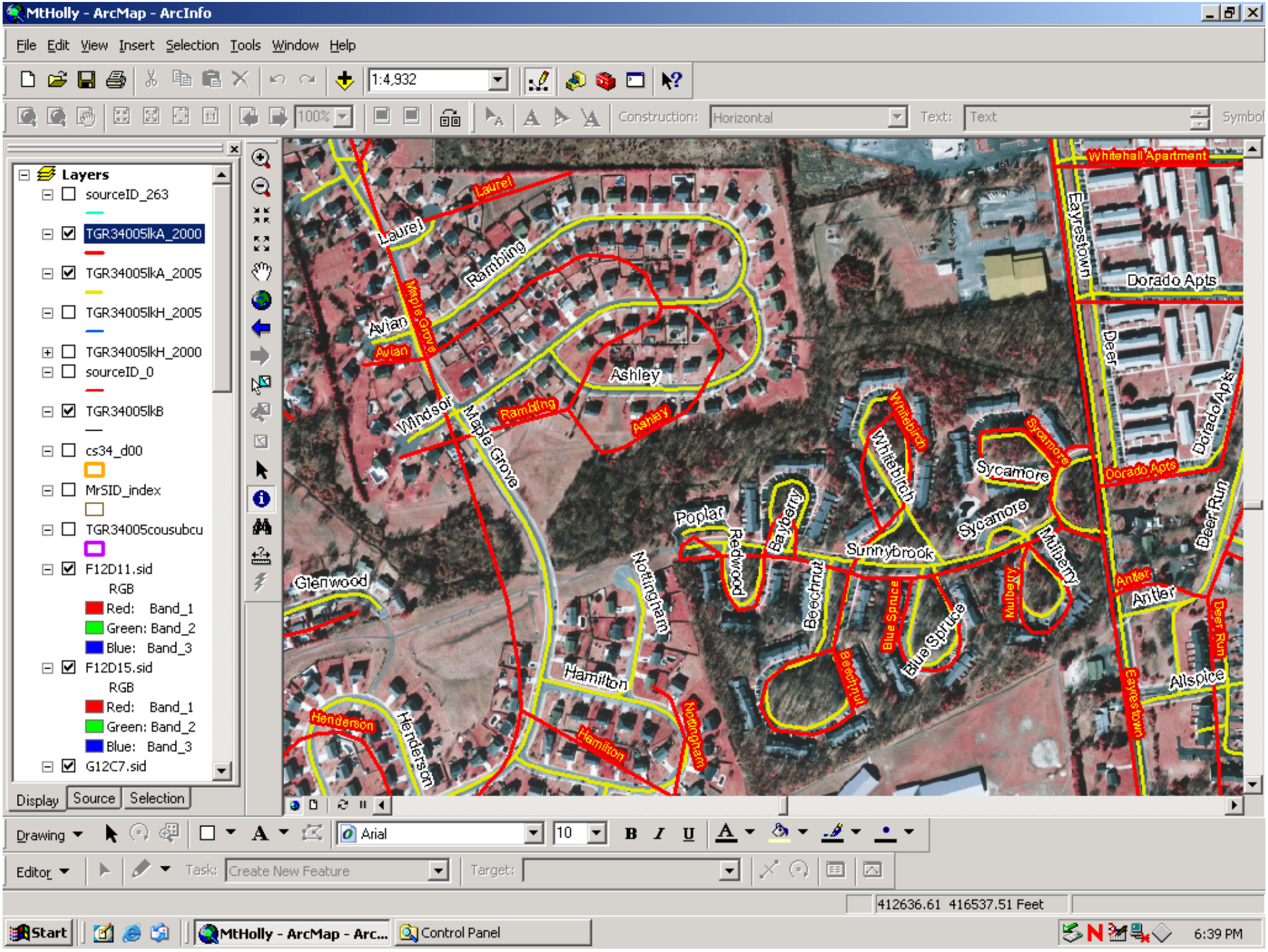
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Whitebirch
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MAF/TIGER - Old vs. New

Existing System

- Home-Grown Database
- MAF & TIGER - Separate
- COTS Use is Limited
- Extensive Developer Training Required
- County Partitions

New System

- Oracle
- MAF & TIGER - Integrated
- COTS Use is Expanded
- Can Recruit Developers with Appropriate Skills
- Seamless National Database (!!!)

MAF/TIGER - Old vs. New
(continued)

Existing System

- Single-User Update
- Closed, Proprietary Development Environment
- Client/Server
- Ad Hoc Software Development

New System

- Concurrent Read/Write
- Open, Interoperable Formats and Tools
- Web-Based
- CMM Level 2

How do these fit with National Standards or Other Data Models?

- The Census Bureau is working on TIGER GML to meet industry standards
- WebTIGER is currently being tested and will be OGC Compliant (with a Web Map Server (WMS) and Web Feature Server (WFS))
- WebBAS (Boundary & Annexation Survey) is up and running, testing online interactive boundary updates in anticipation of the 2010 Census and moving towards program participation directly interactive online.

Session Topics:

1) **MAF/TIGER Enhancements Program**
   - MAF/TIGER Accuracy Improvement Project
   - Modernization of geographic environment
2) **Geographic partnership programs**
   - LUCA, BAS, STAT AREA, School Districts
3) **American Community Survey**

2010 Geographic Partnership Programs

- Local Update of Census Addresses (LUCA)
- Statistical Areas Program
- Boundary and Annexation Survey (BAS)
- School District Data Program
- PC – Based Geographic Update Tool

LUCA

(Local Update of Census Addresses)

- First implemented for Census 2000
- Purpose is to improve the census address list using local knowledge
- Confidentiality of address information
- Changes validated in the pre-census address canvassing operation

LUCA

(Local Update of Census Addresses)

- Notification to locals in early 2007 with training occurring in summer 2007
- Willing to coordinate with COGs and Counties to ensure coverage in State
- Similar manual and electronic review options for participants

LUCA

(Local Update of Census Addresses)

Options for LUCA participants:

- Full address list review, Title 13 confidential
- Provide local address list (city-style) for Census Bureau matching, Title 13 confidential
- Provide local address list (city-style) for Census Bureau matching, no Title 13 confidentiality

LUCA

(Local Update of Census Addresses)

Improvements from 2000 version:

- Longer review period (120 days)
- Consolidated review for all entities with validation occurring during Address Canvassing
- Different participation options for local governments (Non-Title 13 option)
- State-level group quarters review program

LUCA

(Local Update of Census Addresses)

2010 LUCA milestones:

- Send promotional materials – Begins 01/07
- Send LUCA invitation letters – begins 07/07
- Participants perform LUCA review – 08/07 to 04/08
- Feedback to LUCA participants – 8/09 to 10/09
- LUCA appeals – 9/09 to 1/10

Statistical Areas Program

- Census tracts, block groups, census county divisions, census designated places
- Criteria under development, will be publicized for comment via a Federal Register Notice

Statistical Areas Program

Conceptual/Criteria Issues:

- Census Tracts – minimum population ???
- Block Groups – planned delineation
- Census County Divisions – are these still relevant?
- Census Designated Places – should places within places be recognized for this program (i.e. neighborhoods?)
- American Indian Areas – Statistical subdivisions with AIA's? Still large enough for quality data?

Statistical Areas Program

- Planned MAF/TIGER Participant Software (PC based participation)
- Participant materials released on flow basis to counties who have been realigned
- No formal C-SACs (Statistical Areas Committee)
- Verification expected to run into early 2010

Boundary and Annexation Survey (BAS)

- Reporting on legal boundaries and corporate status
- Survey universe expands to include all functioning governments in 2008 in preparation for the decennial census
- Boundary validation opportunity prior to the decennial census

School District Data Program

- Every two years, starting up now to report districts in effect in January 2006
- Estimates of children 5-17 in low income families x school districts, goes into determination of Title 1 funding
- Verification completed 04/06

Personal Computer-Based Geographic Update Tool

- For use by tribal, state, and local governments participating in geographic partnership programs
- Support statistical areas delineation, boundary updates, road updates, and the LUCA program

Personal Computer-Based Geographic Update Tool

- Will provide map and geographic data update capability
- Web-based collaborative review component (does NOT apply to LUCA)
- Web-based Boundary and Annexation Survey (BAS) component
- Available for start of LUCA in 2007

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   - LUCA, BAS, STAT AREA
3) **American Community Survey**

What is the American Community Survey?

A large, continuous demographic survey

- Produces annual and multi-year estimates of the characteristics of the population and housing
- Produces *characteristics, not* a population *count*
- Produces information for small areas including tracts, block groups and population subgroups - updated every year
- Key component of reengineered 2010 census

Effects of the American Community Survey on the 2010 Census

- Eliminate long-form
- Better knowledge of local areas
- Ongoing contacts with local governments
- Cost savings

American Community Survey Program Schedule

- ACS testing and development: 1996-2004
- ACS full implementation began in 2005
- First ACS data products, 2006; annually updated data products each year thereafter

Type of Data	Population Size of Area	Data for the Previous Year Released in the Summer of:							
		2003	2004	2005	2006	2007	2008	2009	2010+
Annual estimates	≥250,000	→	→	→	→	→	→	→	→
Annual estimates	≥65,000				→	→	→	→	→
3-year averages	≥20,000						→	→	→
5-year averages	Census Tract and Block Group*								→

Data reflect American Community Survey testing through 2004

* Census tracts are small, relatively permanent statistical subdivisions of a county averaging about 4,000 inhabitants. Census block groups generally contain between 600 and 3,000 people. The smallest geographic level for which data will be produced is the block group; the Census Bureau will not publish estimates for small numbers of people or areas if there is a probability that an individual can be identified.

American FactFinder - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Google Search PageRank Popups okay Check AutoLink AutoFill Options

Address http://factfinder.census.gov/home/saff/main.html?_lang=en Go

U.S. Census Bureau

American FactFinder

FactFinder

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Your source for population, housing, economic, and geographic data

- POPULATION FINDER
- FACT SHEET
- PEOPLE
- HOUSING
- BUSINESS AND GOVERNMENT
- ABOUT THE DATA
- DATA SETS
- DOWNLOAD CENTER
- MAPS
- TOOLS AND REFERENCES

Address Search...
Enter a street address to find Census 2000 data

- Browser Notes
- Confidentiality
- Citing FactFinder

Fast Access to Information

Get a **Fact Sheet** for your community...

city/town, county, or zip: pittsburgh city

state: Pennsylvania GO

or select a state using a map »

Getting Detailed Data

Decennial Census - taken every 10 years to collect information about the people and housing of the United States
learn more | get data

See the Count Question Resolution Program for information on Census 2000 count corrections.

American Community Survey - an ongoing survey that provides data about your community every year
learn more | get data

Population Estimates Program - population numbers between censuses
learn more | get data

Economic Census - profiles the U.S. economy every 5 years
learn more | get data

Annual Economic Surveys - data from the Annual Survey of Manufactures and Nonemployer Statistics
learn more | get data

Special Interest

Censo 2000 Puerto Rico en español

Population Data

Population Finder
Use the Population Finder to view population trends for your community.

U.S. Population Clock
17:49 GMT (EST+5) May 09, 2006
298,700,836
more population clocks »

What's New

Updates to American FactFinder released April 20, 2006. more »

2005 Population Estimates for counties now available from the Data Sets page.

2004 American Community Survey (ACS) tables, including Population Profiles for race, Hispanic origin, and ancestry groups have been released. Access all ACS data from the Data Sets page.

2002 Economic Census data continue to be released on a flow basis, as Quick Reports, Thematic Maps, and Detailed Statistics Data Sets.

Data from the 2002 Business Expenses

Internet

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Pittsburgh city, Pennsylvania - Fact Sheet - American FactFinder - Microsoft Internet Explorer

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Address http://factfinder.census.gov/servlet/ACSSAFFFacts?_event=Search&geo_id=&_geoContext=&_street=&_county=pittsburgh+city&_cityTown=pittsburgh+city&_state=04000US42&_zip=& Go

U.S. Census Bureau

American FactFinder

Fact Sheet

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POPULATION FINDER

FACT SHEET

- Fact Sheet
- Fact Sheet for a Race, Ethnic, or Ancestry Group

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FACT SHEET

United States | Pennsylvania | Pittsburgh city

Pittsburgh city, Pennsylvania

city/town, county, or zip: pittsburgh city

state: Pennsylvania GO

search by address »

2005 2000

2005 American Community Survey
Data Profile Highlights:

| Reference Map

Note: The 2005 American Community Survey universe is limited to the household population and excludes the population living in institutions, college dormitories, and other group quarters.

General Characteristics - show more >>	Estimate	Percent	U.S.	Margin of Error
Total population	284,366			+/-9,609
Male	134,964	47.5	49.0%	+/-6,363
Female	149,402	52.5	51.0%	+/-4,892
Median age (years)	38.4	(X)	36.4	+/-1.7
Under 5 years	15,708	5.5	7.0%	+/-1,889
18 years and over	229,188	80.6	74.6%	+/-7,524
65 years and over	41,423	14.6	12.1%	+/-2,813
One race	279,372	98.2	98.1%	+/-9,359
White	183,078	64.4	74.7%	+/-7,693
Black or African American	81,915	28.8	12.1%	+/-5,598
American Indian and Alaska Native	938	0.3	0.8%	+/-476
Asian	10,727	3.8	4.3%	+/-1,762

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Additional Questions or Comments:

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Philadelphia Regional Office
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Thank you

Next DC GIS Steering Committee Meeting:

Thursday, June 7, 2006
at 1:00 p.m.
Conference Room TBD
441 4th Street NW