

Update on National Address Database Pilot

FGDC Steering Committee – June 16, 2016



Minimum Content Guideline – 3 Components

The Address itself

- Address Number
- Street Name
- Subaddress
- City/Town/Place
- County
- State
- Zip

Geographic Location of the address

- Lat/Long
- National Grid Coordinates

Metadata about the address

- Address authority
- Address source
- Address date
- Unique ID
- Type (residential, commercial, etc.)
- Placement (rooftop, driveway access, etc.)

NAD Schema

Identify

Identify from:

Location: -10,474,550.034 4,307,646.554 Meters

Field	Value
Shape	Point
State	AR
County	Washington
Incorporated Municipality	Fayetteville
Unincorporated Community	<null>
Neighborhood Community	<null>
Postal Community Name	<null>
ZIP Code	72701
Zip Plus 4 Addition	0500
Bulk Delivery ZIP Code	<null>
Bulk Delivery ZIP Plus 4 Addition	<null>
Street Name Pre Modifier (PRM)	<null>
Street Name Pre Directional (PRD)	South
Street Name Pre Type (STP)	<null>
Street Name Pre Type Separator (STS)	<null>
Street Name (S)	Ken
Street Name Post Type (STS)	Ln
Street Name Post Directional (POD)	<null>
Street Name Post Modifier (POM)	<null>
Address number prefix (HNP)	<null>
Address number (HNO)	1085
Address number suffix (HNS)	<null>
Landmark Name Part (LMKP)	<null>
Landmark (LMK)	<null>
Building (BLD)	<null>
Floor (FLR)	<null>
Unit (UNIT)	2
Room (ROOM)	<null>
Additional Location Information (LOC)	<null>
Milepost	<null>
Address Longitude	-94.09447
Address Latitude	35.5083
National Grid Coordinates	<null>
GUID	{CB827007-BDA2-48DE-B6F2-C}
Address Type	Residential
Address Placement	Parcel - Centroid
Address Source	Arkansas GIS Office
Address Authority	Washington County
Unique Within	<null>
Date Last Updated	1/27/2014
Effective Date	<null>
Expiration Date	<null>

FGDC/CLDXF

Location

Metadata

Pilot Participants Compiled Into NAD Schema



“Have Not” Participant - Jackson County, AR

Data Sources:

- **Countywide E911 Address List**
 - 18k records
 - Some missing zip/city info
 - Some basic data scrubbing needed
- **Countywide centerlines** existed
 - No data scrubbing needed!
- **Countywide parcels**
 - 79% had some address info
 - Data standardization was needed
 - E.g., for city name, address field, etc.

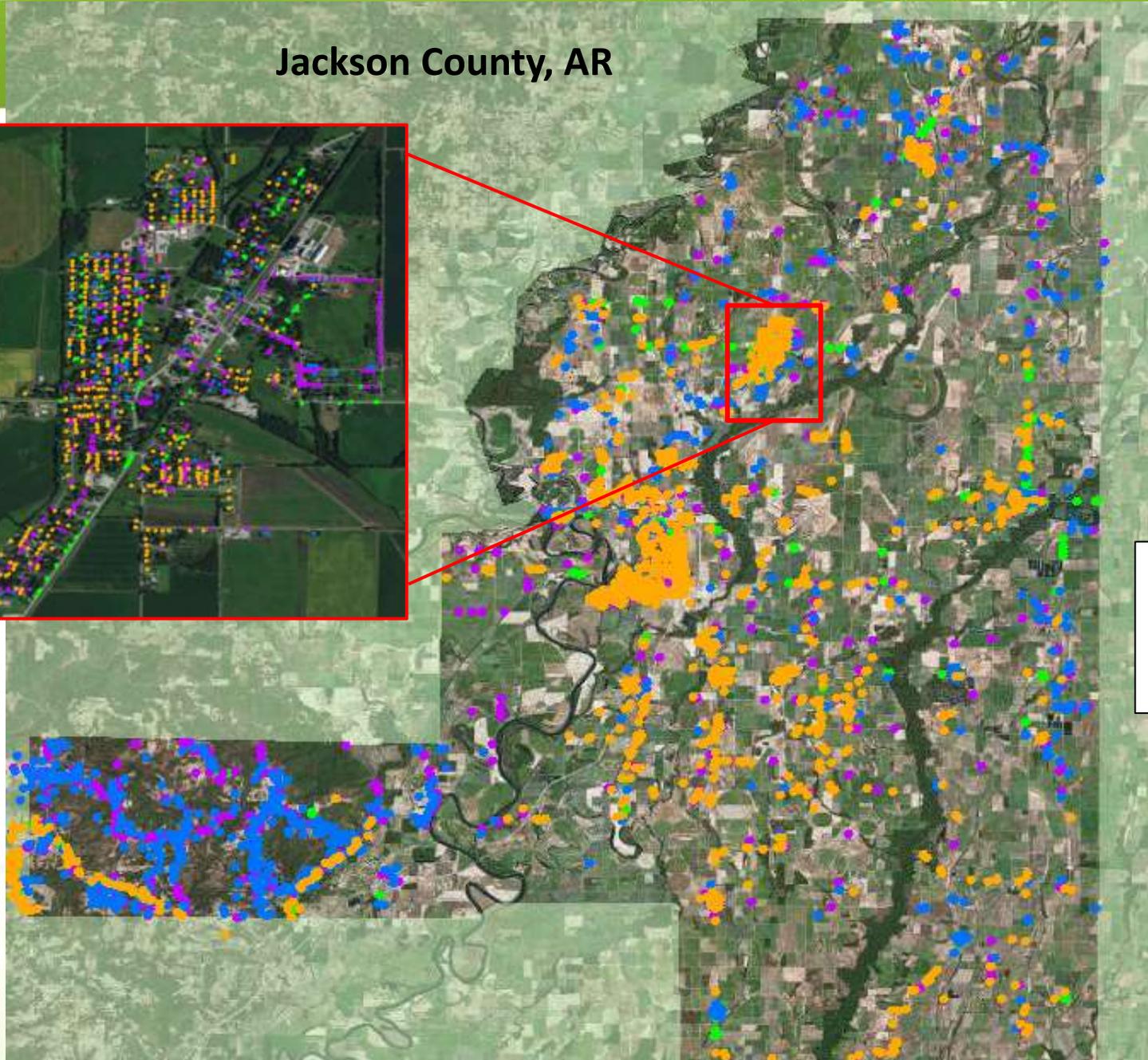
Jackson County, AR Geocoding Approach

- Multiple geocoding sources were used:
 - Melissa Data (commercial geocoding service)
 - County Parcels
 - County road centerlines
 - Census road centerlines
- If an address wasn't matched in one source, the next source was used.
- Achieved a 77% overall match rate from the 18,469 records

Final Jackson County Geocoding Results

Source	Total Records Matched	% Matched*
Melissa Data	7,073	38%
Parcel Centroids	1,700	9%
County Centerline	4,112	23%
Census/Tiger Centerlines	1,347	7%
Totals:	14,232	77%

Jackson County, AR



- GeoCode Source
- MelissaData
 - ParcelCentroid
 - Centerline
 - Census/Tiger

What's Next

Pilot Phase

- Make available data with AZ, AR & Boone County, MO
- Finalize report Q3 FY16

Development

- Choose platform
- Initiate work with states that are prepared to develop ETLs (no cost)
- Identify funding to launch
- Launch Data Challenge for “have nots”

Data Challenge

- Goal: develop an app to gather crowd sourced address information
 - Must collect the items identified in the minimum content guideline
- App can be used by
 - Local police and firemen
 - Real estate agents
 - Boy Scouts and Girl Scouts
 - FEMA Corps
 - Public
- Resulting address information would be used as “seed” data for local governments with no data and for QC/QA of existing data

Contact Info

Steve Lewis

Chief Geospatial Information Officer

U.S. Department of Transportation

(202) 366-9223

steve.lewis@dot.gov