

# Putting It Together: Data, Geography, and Application

USCENSUSBUREAU

# Overview

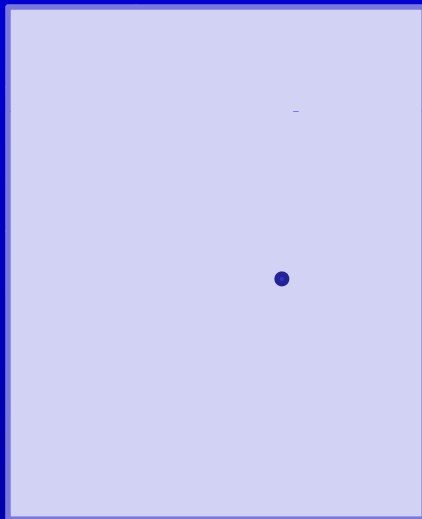
- Internal Points
- Map Precision
- Paired Areas
- Rollups

# Internal Points

- Internal Points (IPs) are points (lat,lon) associated with each feature of certain geographic layers.
- What is an internal point?
  - Not a “centroid”.
  - Guaranteed to be “inside”.
  - Chosen from IPs of subsidiary polygons.
- How are IPs used?
  - Automatic “Search” selections.
  - Polygon (Freehand) selections.
  - Displaying data.

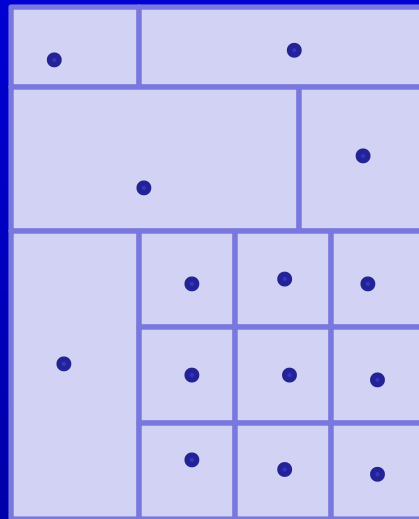
# Internal Points: Example – Blocks to Tract

Blocks in one Tract

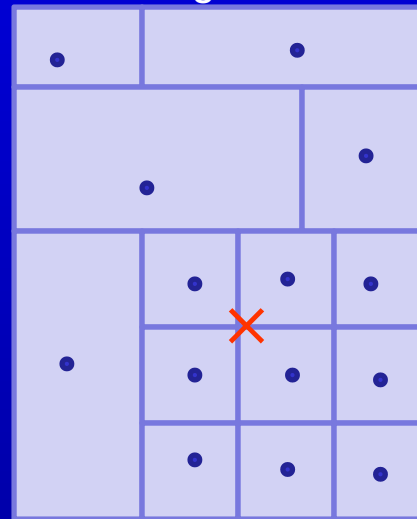


IP for Tract

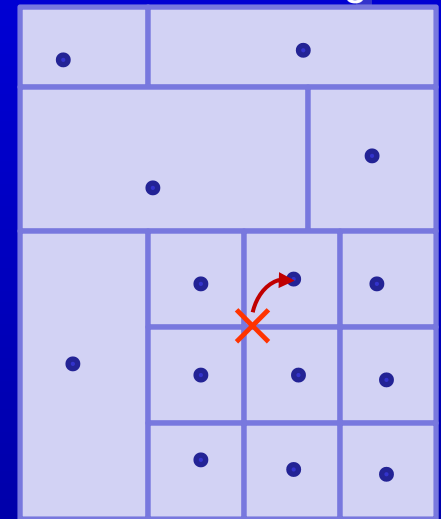
Block IPs



Average of IPs



IP closest to avg.



# Map Precision

- When the OnTheMap application tabulates data for the map, it can summarize it by Census Block, by Census Tract, or by County.
- Map Precision allows the user to determine which to use, to let the application decide (Automatic) or to skip it (No Map).
- OnTheMap uses IPs for Census Blocks, Census Tracts, and Counties for displaying the data.

# Paired Areas

- Paired Area Analyses are performed by using Step 2a of OnTheMap.
- Doing a paired area means constraining both the origin and the destination.
- Since we limit both origin and destination, we must use the OD matrices in the database (as opposed to the RAC/WAC).
- In practice, the same area can be used as origin and destination.

# Rollups

- As is learned in basic OnTheMap trainings, rollups summarize destination areas (e.g. for all workers employed in a town, we can request the top 10 ZCTAs in which they reside).
- OnTheMap uses the block crosswalk to link the destination blocks from the OD matrix to the specific layer tabulation that are requested.
- Then the data is tabulated for the rollup layer.
- Paired area analyses are subject to all the limitations associated with the OD matrix.

# Bringing It All Together

		1 Selection Area Only	Paired Area
All Segment	Area Profile	RAC/WAC	OD <sup>1</sup>
	Shed	OD	OD <sup>2</sup>
Single Segment	Area Profile	RAC/WAC	OD <sup>3</sup>
	Shed	OD	OD <sup>4</sup>

## Notes:

1. Area Profile report limited to segments (e.g. 3 industry groups).
2. No rollups available.
3. No report available in results.
4. No rollups available.