

2010 State Data Center Annual Training Conference

Geographic Programs Update: Post-2010 Census Geographic Areas

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Overview

- Public Use Microdata Areas (PUMAs)
- ZIP Code Tabulation Areas (ZCTAs)
- Urban / Rural (Urban Areas)
- Traffic Analysis Zones (TAZs)

Proposed Criteria for PUMAs

- Standard PUMAs (one level)
- Place-of-Work (POW) PUMAs and Migration (MIG) PUMAs
- State-based
- Minimum population threshold of 100,000 throughout decade
- Counties and standard census tracts as building blocks
- Contiguity

Population Threshold for PUMAs

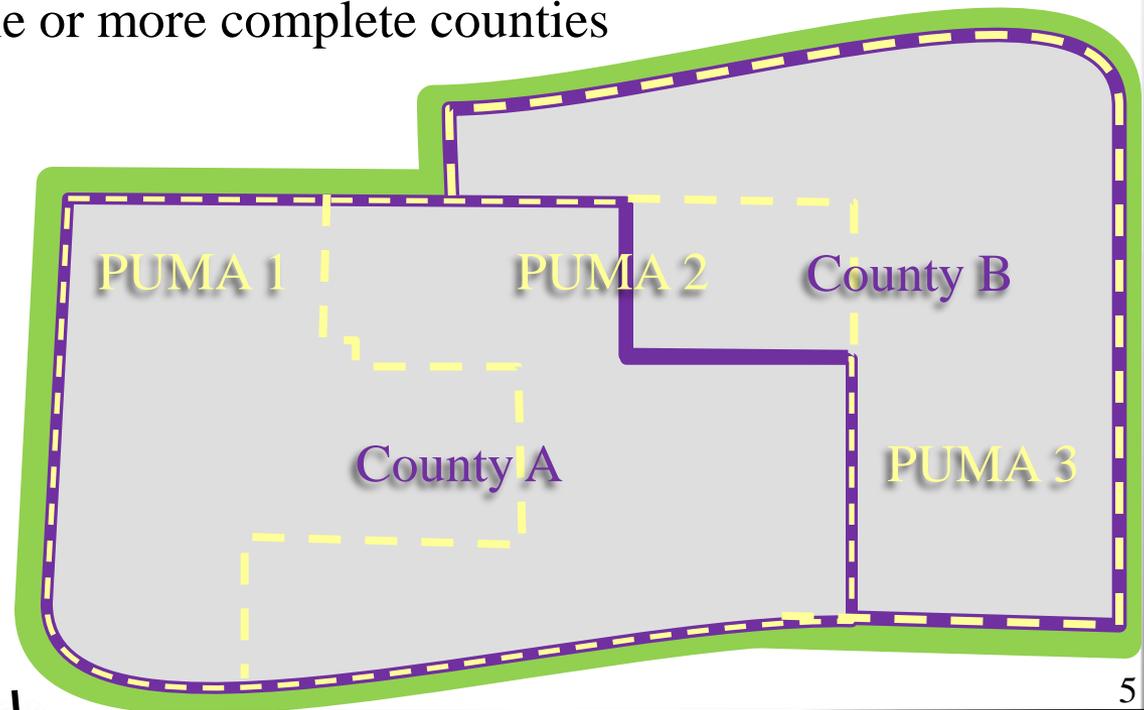
- Each PUMA must have a minimum 2010 Census population of 100,000
- The minimum population must be met at the time of delineation and maintained throughout the decade
 - In areas expected to experience population decline, define PUMAs above the minimum threshold to ensure at least 100,000 population throughout the decade
 - PUMAs that fall “substantially below” the 100,000 person threshold will be combined with one or more adjacent PUMAs

PUMA Types

- Only one level of “standard” PUMA
- Place-of-work PUMAs (POW PUMAs) and migration PUMAs (MIG PUMAs) are proposed to be county based, consisting of:
 - a single PUMA for county-based PUMAs
 - a combination of adjacent tract based-PUMAs so that together the PUMAs compose one or more complete counties

Boundary Symbology

- County
- - - Tract-based PUMA
- POW PUMA & MIG PUMA



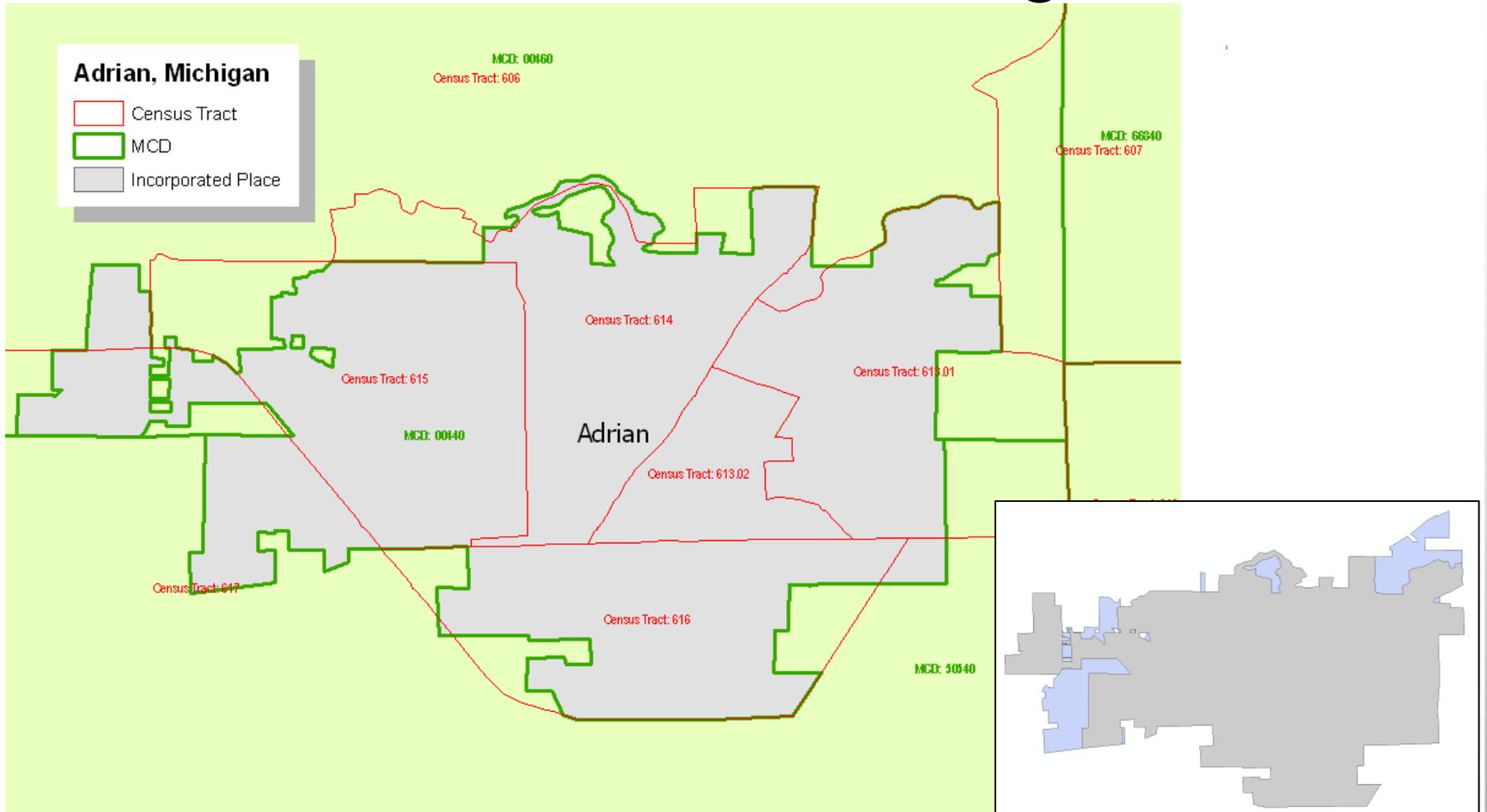
PUMA Composition

- All PUMA types (standard, POW, and MIG) must nest within states
- PUMAs will be based on aggregations of counties and census tracts only
 - Tract-based PUMAs may cross county boundaries as long as each county part contains at least 2,400 people
- Incorporated places and MCDs will not be used as building blocks for 2010 PUMAs. Census tracts may be aggregated to approximate minor civil divisions, incorporated places, census designated places, and/or AIRs/ORTLs.

PUMA Composition

- Exclude incorporated places:
 - Change frequently over time: annexations/deannexations
 - 2000 PUMAs are not updated as incorporated places change
 - 2000 POW PUMAs are updated as incorporated places change *in practice*, as the place of work data are coded to the *current* incorporated place, and not the incorporated place on which the PUMA was built
 - Incorporated places often contain numerous enclaves (holes) and exclaves (noncontiguous pieces)

MCDs, Places, and Census Tracts near Adrian, Michigan



USCENSUSBUREAU

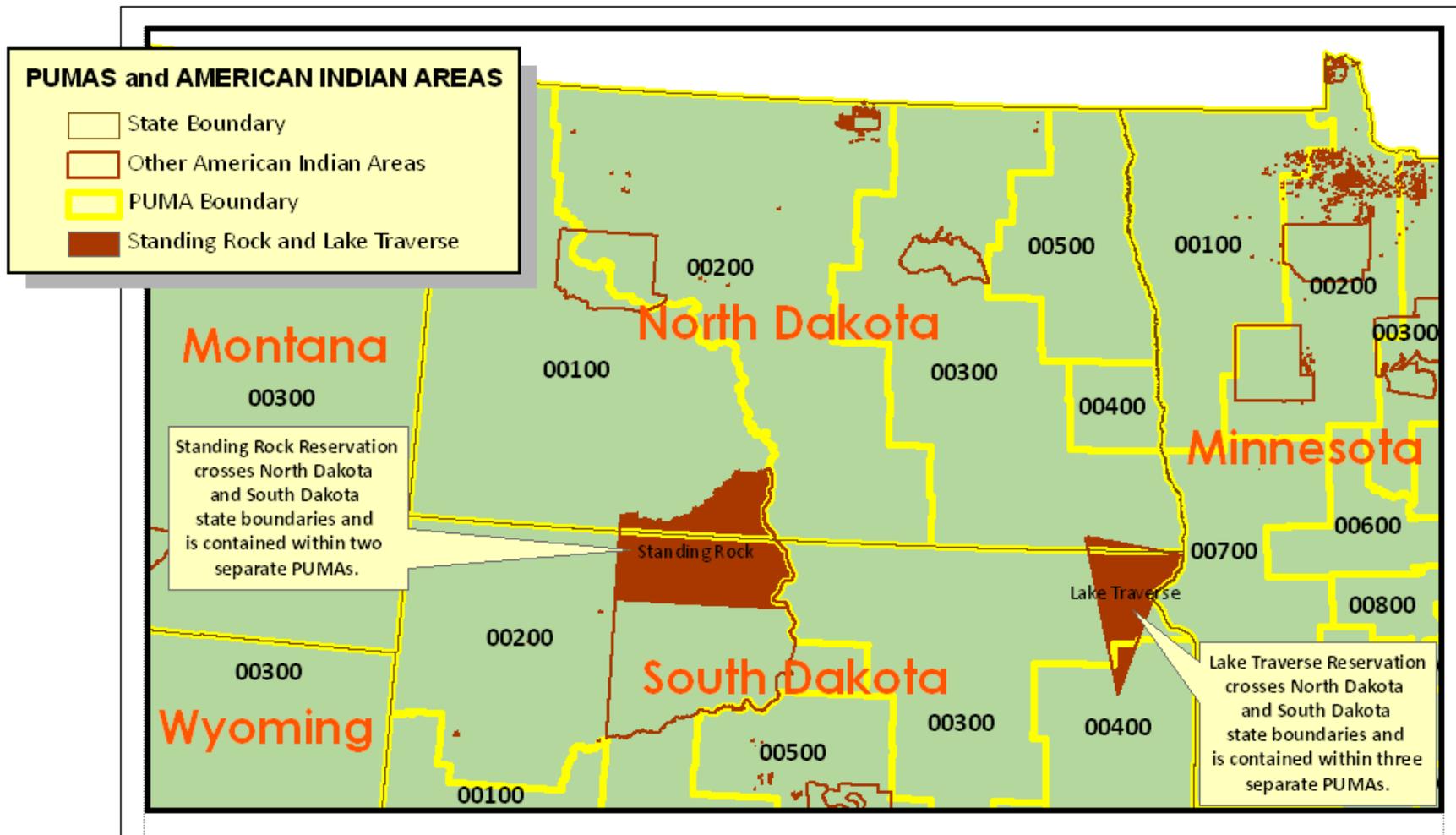
Helping You Make Informed Decisions

2000 place
Current place (April '10)

PUMA Guidelines

- Federal American Indian reservation/off-reservation trust land (AIR/ORTL) relationship wherever possible
- Wherever possible, each PUMA should comprise an area that is either entirely inside or entirely outside a current Core Based Statistical Area
- Use 2010 place definitions, 2000 urban/rural definitions, as well as local knowledge to inform PUMA delineation
- The number of PUMAs should be maximized, so PUMAs should not contain more than 200,000 people, unless the PUMA is defined for an area that is or will likely be experiencing population decline

Relationship between PUMAs and American Indian Reservations and Off-Reservation Trust Lands



PUMA Draft Schedule

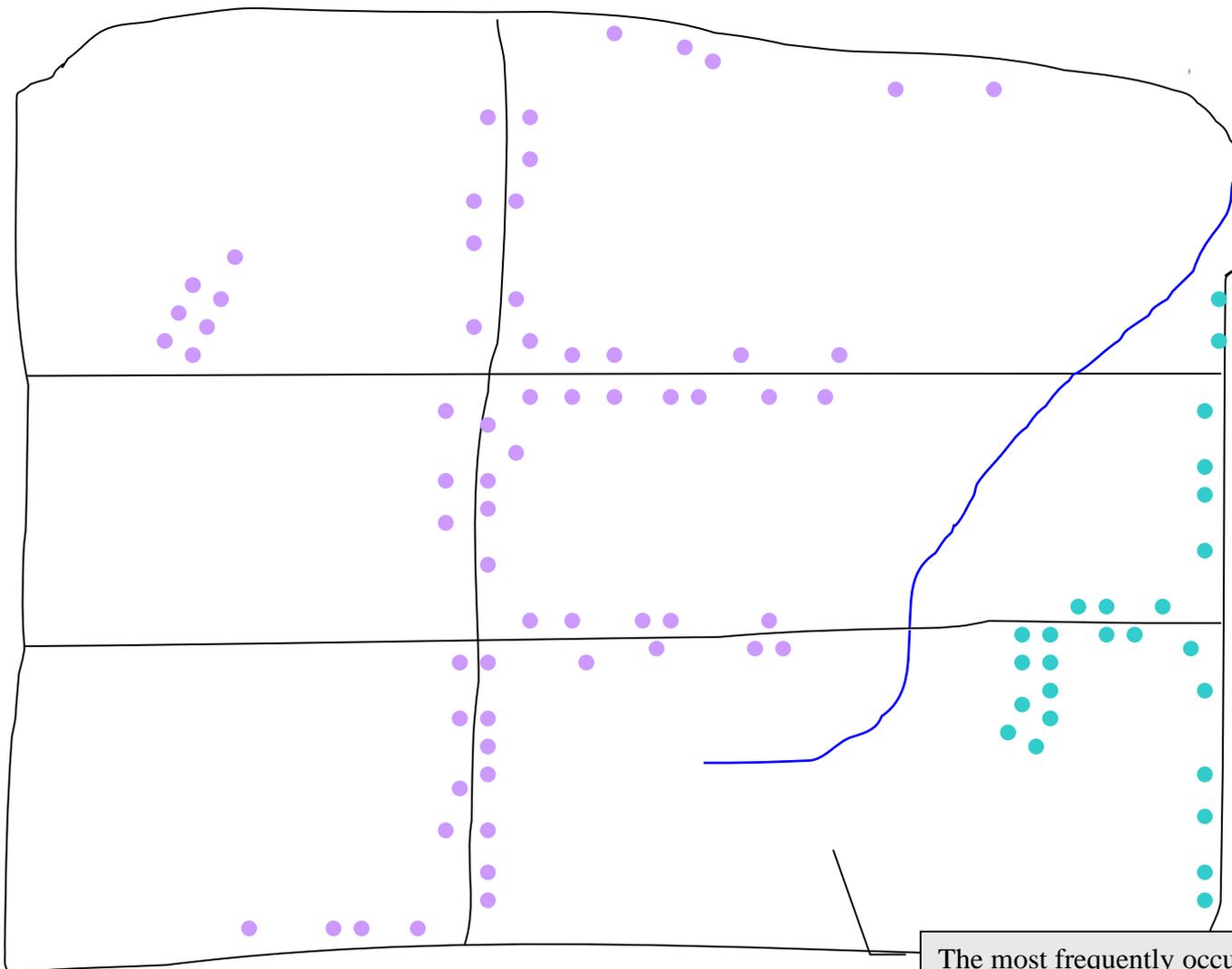
- November 2010: Proposed criteria will be distributed to SDCs, and a wide variety of stakeholder groups
- August 2011: Materials sent to SDCs for PUMA delineation
- Fall 2011: Hands on training using MTPS
- January 3, 2012: Return deadline for submissions

ZIP Code Tabulation Area Delineation

- 5-digit ZCTAs only
 - No 3-digit ZCTAs
- 2010 census blocks will form the “building blocks” for ZCTAs
- ZCTAs will be defined only for areas with residential ZIP Codes
 - Will not cover the entirety of the nation
- Enclaves lacking residential ZIP Codes will be assigned to an adjacent ZCTA

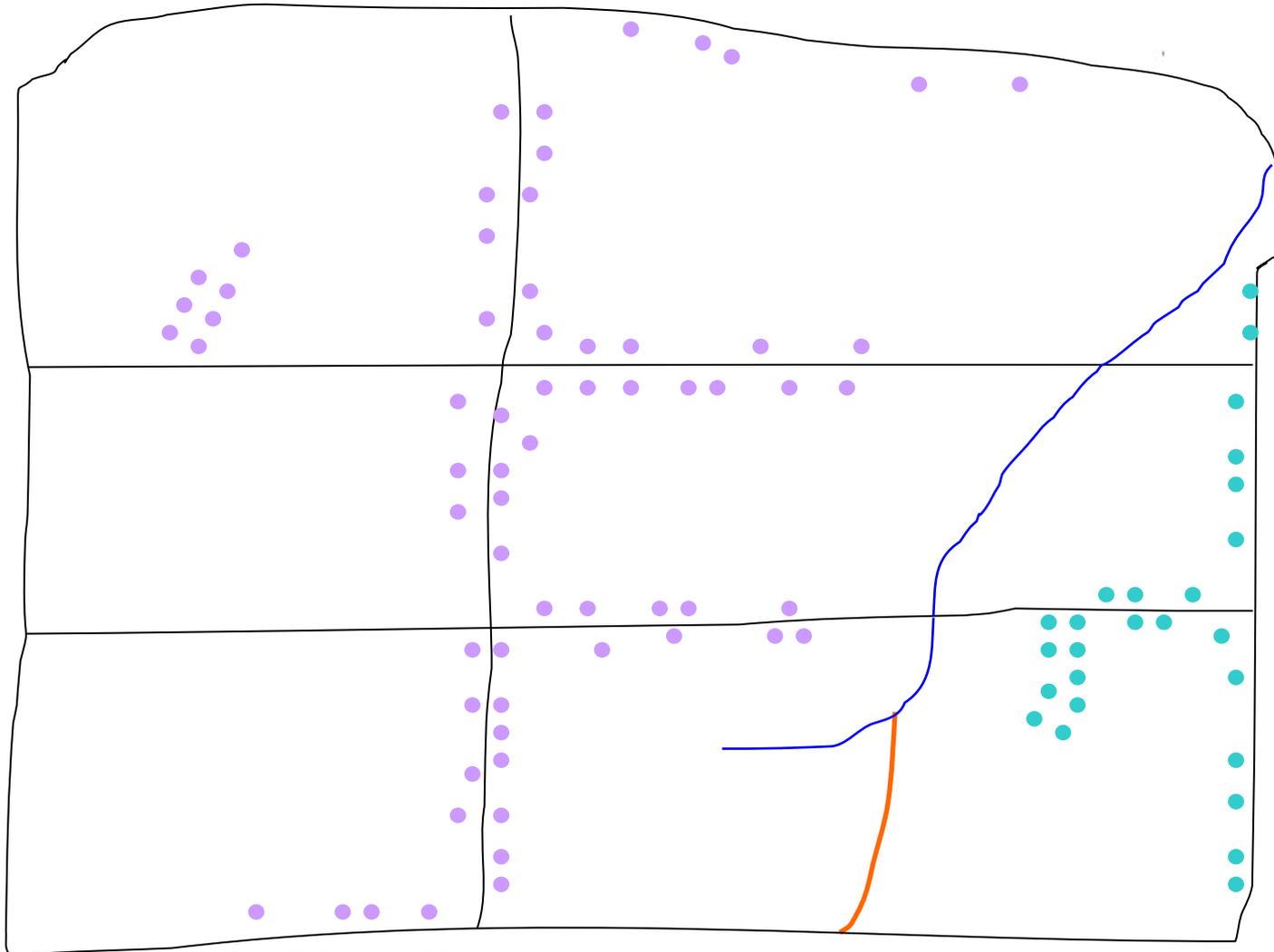
- ZCTAs will more closely approximate ZIP Codes

An example of block and MSP address configuration where a block split should occur



The most frequently occurring ZIP Code in this block is associated with only 60% of the addresses.

Example of adding a ZCTA split line to a block



ZCTAs Delineation Schedule

- Spring 2010: Added nonvisible edges to MTDB
- November 2010 - March 2011: ZCTA delineation
- April 2011: ZCTA TIGER/Line Shapefiles

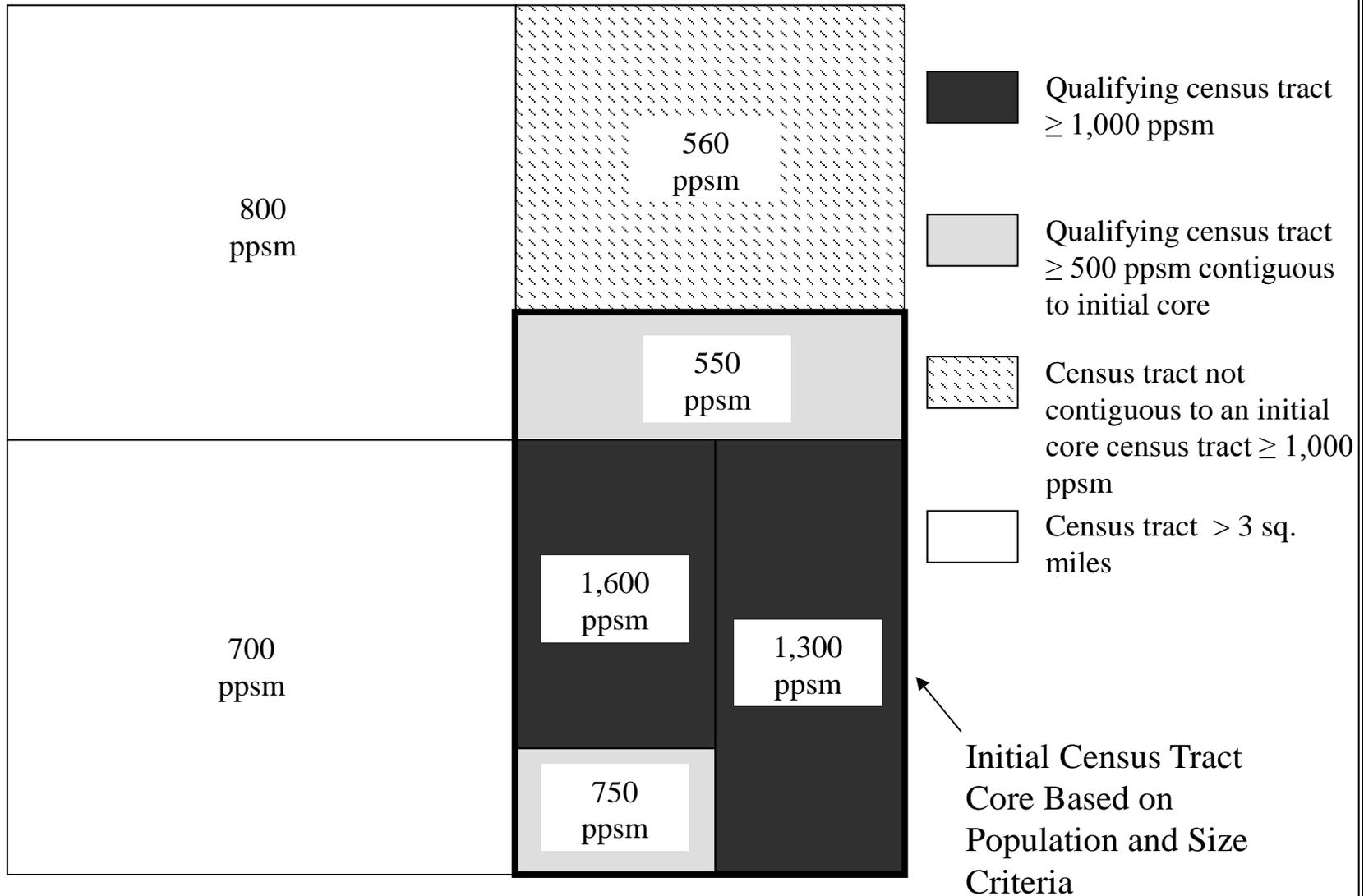
Urban and Rural Classification

- Two types of urban areas:
 - Urbanized areas of 50,000 or more people
 - Urban clusters of at least 2,500 and less than 50,000 people
- Territory outside urban areas is classified as rural.
- Proposed criteria published in August 24 *Federal Register*. Comment period closes November 22.

Differences Between Census 2000 Urban Area Criteria and Proposed Criteria for the 2010 Census

Criterion	Census 2000 Final	Proposed 2010 Census
<i>Initial Analysis Unit</i>	Block Group	Census Tract
<i>Maximum Jump Distance*</i>	2.5 miles	1.5 miles* & no hops after a jump
<i>Airports</i>	10,000 enplanements	2,500 enplanements
<i>Central Place</i>	Defined	Not defined
<i>Minimum Population</i>	2,500	2,500 & 1,500 outside institutional GQs
<i>Splitting</i>	50,000+ Narrowest width of corridor near Metro Area boundary	1,000,000+ Metro Area boundary, adjusted to place as necessary

Initial Core Using Census Tract Analysis Units



Urban Areas: Schedule

- November 22, 2010: Public comment period ends for proposed criteria published in *Federal Register*
 - <http://www.census.gov/geo/www/ua/urbanruralclass.html>
- First quarter of 2011: Final criteria published in *Federal Register*
- March-December 2011: delineation
- Spring 2012: *Federal Register* notice listing Urban Areas
- Spring 2012: Urban/Rural TIGER/Line Shapefiles

Traffic Analysis Zones: Background

- Sponsored by American Association of State Highway and Transportation Officials (AASHTO) and the Federal Highway Administration (FHWA)
- Census Transportation Planning Products (CTPP)
- Primary participants are Metropolitan Planning Organizations (MPOs) and State Departments of Transportation (SDOTs)

Traffic Analysis Zones

Two types of areas:

- Traffic Analysis Zones
 - Defined based on 2010 census blocks
- Traffic Analysis Districts
 - Aggregations of TAZs
 - 20,000 or more people

Traffic Analysis Zones: Schedule

- March/early April 2011: Mail out of materials to MPOs and State DOTs. Participants have 3 months to delineate TAZs
- June/early July 2011: Return deadline for submissions
- October 2012: TIGER/Line Shapefiles include 2010 TAZs

Questions? Comments?

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Urban/Rural – Chris Henrie, Kevin Hawley

TAZs – April Avnayim, Jeff Ocker,

PUMAs – April Avnayim, Dierdre Bevington-Attardi