The views expressed here are the presenter’s and not necessarily those of the Federal Reserve Bank of Minneapolis or the Federal Reserve System.
Economic Inflows and Outflows

• Inflows: broadly describes the economic activity flowing into an area
• What do we know about inflows into reservations?
• What do we know about visitors flowing into reservations?
  • We can get an idea of the inflows and the interconnectedness of reservations into the local and regional economy using Advan data

Source: LODES Data, U.S. Census Bureau
Data Gaps

• Sample sizes for Native Americans and their areas are often very small
  • “Asterisk nation” - too difficult to enumerate or too costly to be sampled appropriately

• Mismatched geographies: statistical products do not always match tribal boundaries

• Alternative data may bring additional insights for Native Geographies and their economies
Advan Data

- Advan Weekly Patterns is a phone-mobility dataset that has visitation counts and distances traveled by visitors to places-of-interest (POI)
  - Covers about ~10% of the U.S. population
  - Visitors in dataset have a smart phone and certain apps installed
  - Visitors are anonymized and we do not see identifying information
  - Places are "notable areas"
  - Places are categorized into NAICS industries
- We know the exact location of the POIs and have an idea of where people come from
- Use boundaries of reservations to…
  - Determine if a POI lies within a reservation
  - Calculate distances traveled by visitors to POIs on reservation
  - Use U.S. Census Bureau shapefiles!
TRIBAL ECONOMIC ZONES
Tribal Economic Zones

Choose a Native geography: [Lac du Flambeau Reservation]

Average distance traveled to places of interest

Visit shares by industry
- Other services
- Wholesale and Retail Trade
- Lodging, Food
- Finance, Real Estate
- Communications, Professional
- Medical, Welfare, and Healthcare
- Manufacturing, Transportation
- Warehousing
- Extraction, Utilities, and Construction

Average distance traveled to places of interest over time
How far do people travel to places located on reservations?

- Map where tribe is located
- Radius of yellow circle is an approximation for how far people travel to places inside of reservation boundaries
- Blue bordered area are the boundaries of the reservation
- Flag is placed at the center of the reservation
- Reservation economies contributing to regional economies!
What type of places are people traveling to?

- Visit shares by industry reflect the fraction of visitors traveling to POIs in a particular type of industry.
- Industries are based on 2-digit NAICS codes.

![Visit shares by industry chart](chart-image-url)
Do distances traveled to places vary over time?
Tribal Economic Zones

• Things to keep in mind…
  • Visits include on and off reservation residents
    • Customers to businesses, employees to organizations, etc…
  • Tribal Economic Zones describe one layer of the economy
    • It does not describe the flows of reservation residents to surrounding non-reservation areas
  • Native economies contribute in different ways to economies
    • Native-owned businesses operating outside of reservations

• Look forward to this product in the coming weeks at the following URL: https://www.minneapolislisd.org/indiancountry/resources
THANK YOU

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