The Use of GIS in Community Development at the Federal Reserve

KC ArcInfo Users Group
Federal Reserve Bank of Kansas City
January 12, 2010
The Use of GIS in Community Development at the Federal Reserve

• The Federal Reserve and Community Development
• Use of GIS/ArcGIS
Objectives of the Fed

- Monetary Policy
- Facilitate the Payments System
  - Cash Operations
  - Check Clearing
  - Electronic Payments
- Ensure the Safety and Soundness of the U.S. Banking System
  - Bank Regulation
  - Examination
Kansas City Fed Community Development Mission and Objectives

- Mission is to support the Federal Reserve System’s economic growth objectives by encouraging community development and access to financial services and products in historically underserved markets.
- Constituency is the low-and-moderate income population.
- Primary areas of focus are
  - Affordable housing and neighborhood stability
  - Economic development (esp. entrepreneurship and small business development)
  - Consumer financial stability
VISUALIZING AND ANALYZING DATA
Missouri and U.S. Foreclosure Rates

[Line chart showing the foreclosure rates for the United States and Missouri from 1979 to 2009.]

United States
Missouri

January 14, 2010
K. Edmiston, FRB KC
Legend

Black Population

- < 2%
- 2% - 5%
- 5% - 15%
- 15% - 35%
- > 35%

Source: Federal Reserve Bank of Kansas City
Nevada Areas Affected by Concentrated Foreclosures
June 2007

Source: Lender Processing Services Inc. Applied Analytics & FRBSF Calculations
Nevada Areas Affected by Concentrated Foreclosures
June 2008

Source: Federal Reserve Bank of San Francisco

Source: Lender Processing Services Inc. Applied Analytics & FRBSF Calculations
Nevada Areas Affected by Concentrated Foreclosures

June 2009

Source: Lender Processing Services Inc. Applied Analytics & FRBSF Calculations
U.S. Foreclosures, June, 2009

Source: Federal Reserve Bank of San Francisco
MAKING GEOGRAPHIC COMPARISONS
REO Density (REO per 10,000 mortgageable properties), November 2008

Source: Federal Reserve Bank of Atlanta

Dan Immergluk
Change in REO Density, November 2006 to November 2008

Source: Federal Reserve Bank of Atlanta

Dan Immergluk
New York Fed Credit Conditions Website
VISUALIZING STATISTICS
Philadelphia Fed Community Profiles
Philadelphia Fed statistics in research reports
Boston Fed Constituent Demographics

Attendance at Foreclosure Modification Event
RESEARCH
Alternative Financial Service Providers

Banks

Source: Federal Reserve Bank of Philadelphia
STANDARD APPROACH

NOVEL APPROACH

Source: Federal Reserve Bank of Philadelphia
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