

THE DATA CENTER

Independent Analysis for Informed Decisions in Southeast Louisiana

# *Using data to respond and recover from disasters*

Dr. Allison Plyer

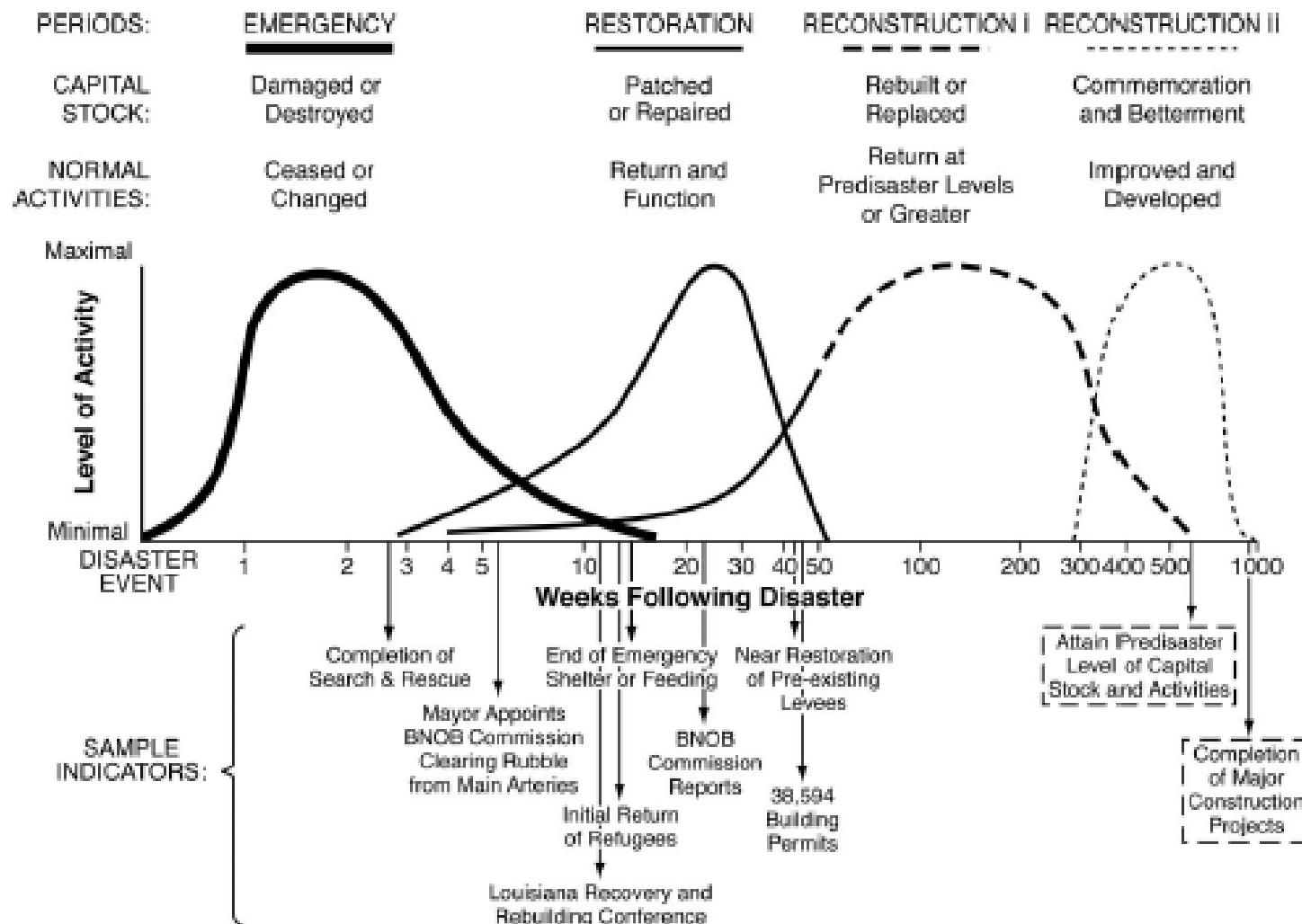
[allisonp@datacenterresearch.org](mailto:allisonp@datacenterresearch.org)  
[@allisonplyer](https://twitter.com/allisonplyer)

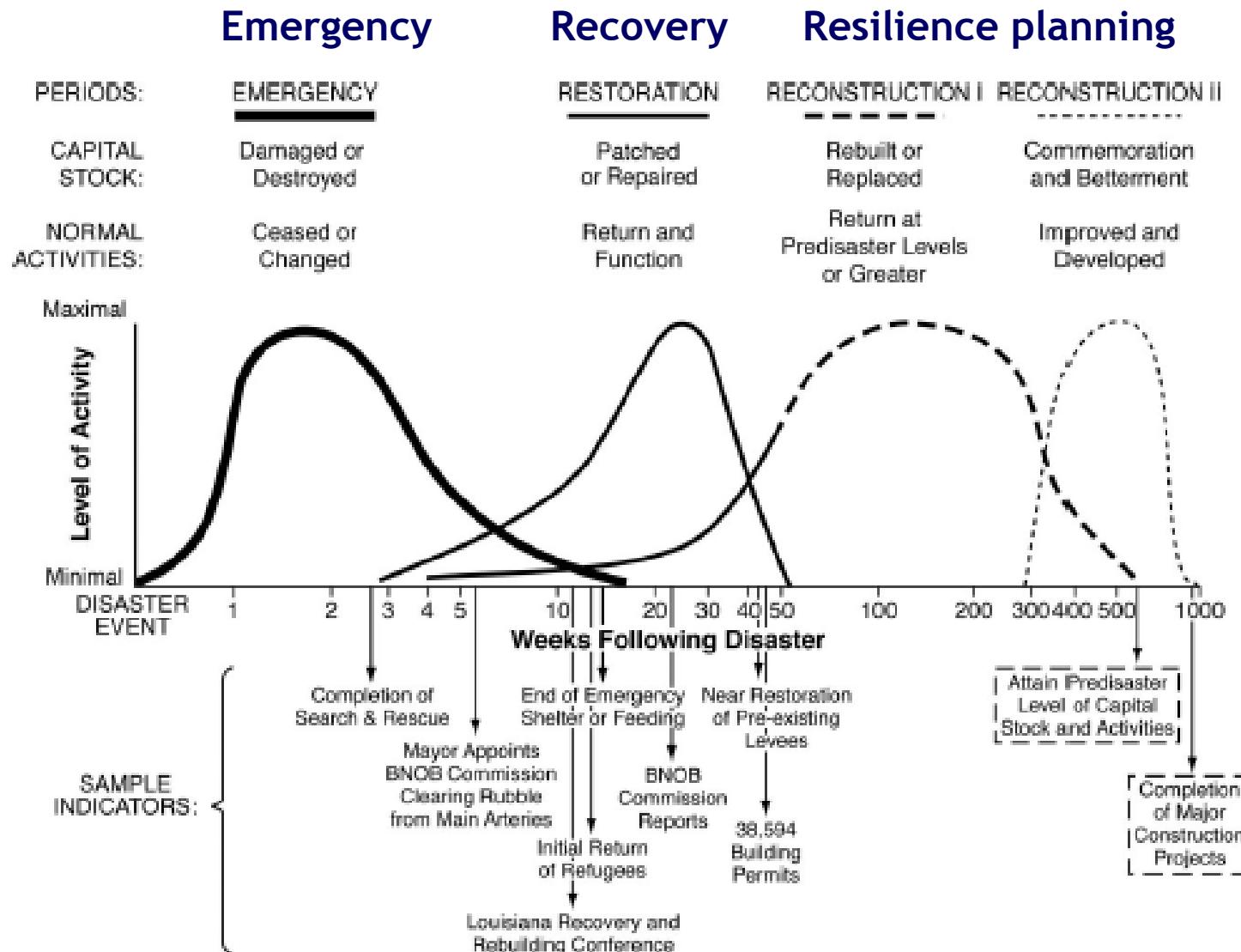
**Data vacuum hinders decision-making around short-term priorities, resource allocation and long-term recovery planning following a disaster.**

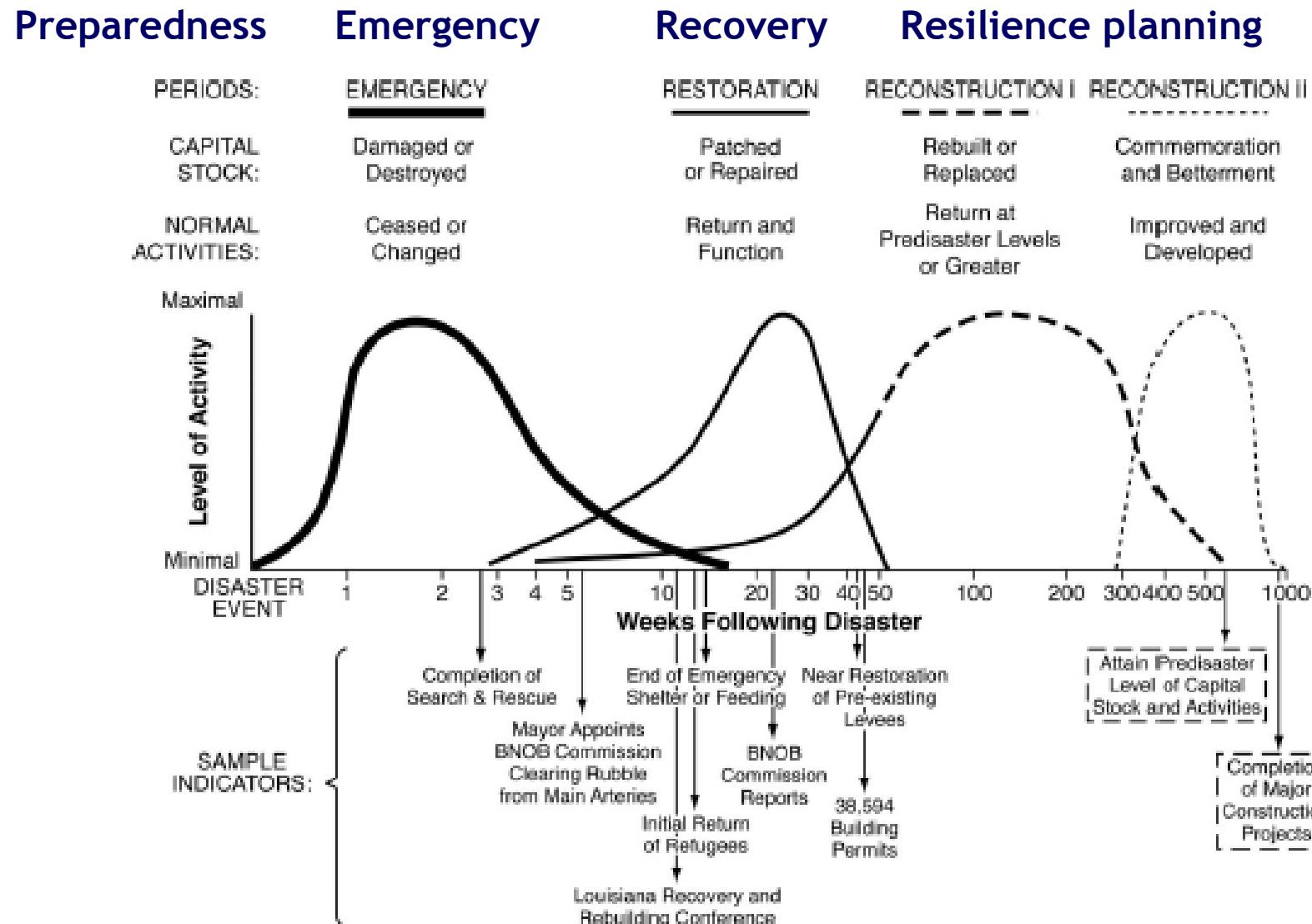
**(National Research Council, 2007)**

- 1. Every disaster is different but they do have predictable phases.**
- 2. For each phase, identify specific audiences and use cases.**
- 3. Deliver data in formats most consumable for each specific audience/use case.**

# 1. Every disaster is different but they do have predictable phases.







## 2. For each phase, identify specific Audiences and Use cases.

<u>Audiences</u>	<u>Use cases</u>			
	Preparedness	Emergency	Recovery	Resilience planning



Strategic use of local information in planning and persuasion

In just 3 clicks you can see all kinds of statistics about your neighborhood in Orleans Parish... or even more stats for each parish in the 10-parish New Orleans area!

For New Orleans neighborhoods, click on an area below... (Scroll down to find data for the GNO 10-Parish area.)



### 'Numbers Talk' Newsletter

To make sure you're informed of all the latest releases of data, sign up for our monthly e-mail newsletter.

Your e-mail address:

(We respect your privacy and will not use your e-mail for any purpose other than sending you the newsletter.)



### Current Data Sources

#### For Orleans neighborhoods:

- U.S. Census  
(demographics, income, education & more)

#### For each GNO parish:

- U.S. Census
- LA Dept of Education
- LA Dept of Health & Hospitals
- Medicaid
- Kid's Count
- FBI
- LA Dept of Elections & Registration

How often is this data updated?



**Data Tables:**  
[\(Is this data current?\)](#)

[People & Household Characteristics](#)

[Housing & Housing Costs](#)

[Income & Poverty](#)

[Transportation](#)

[Employment](#)

[Educational Attainment](#)

[Immigration & Language](#)

[Disabilities](#)

[Neighborhood Characteristics](#)

[Give us your feedback...](#)

## Lower Ninth Ward Neighborhood

"The Lower Ninth Ward consists of two distinct neighborhoods, [Holy Cross](#) and this neighborhood, the Lower Ninth Ward, called by some, [The Lower 9](#). The neighborhood is rich with small businesses, barber and beauty shops, corner stores, eateries, day care centers, as well as public schools and some say, far too many churches. It has a resilient history of survival and activism." [Read more in the [Neighborhood Snapshot](#)]

Street map with links to nearby neighborhoods:



# GNOCDC > St. Roch Neighborhood Attainment

**St. Roch Neighborhood Attainment**

Data Tables: [People & Household](#)  
[Transportation, Employment](#)  
[Neighborhood Characteristics](#)

**Educational attainment**

[Definitions and source links](#)

**Level of schooling (2000)**

- Total population 18 years and older
- Less than 9th grade
- 9th to 12th grade, no diploma
- High school diploma
- Some college or Associate's degree
- Bachelor's degree

**Teens without high school diploma (2000)**

- Total population 16 to 19 years
- % not enrolled in high school graduate

**Source Citation:** U.S. Census Bureau, [Community Data Center](#)

**Enrollment**

# GNOCDC > St. Roch Neighborhood Attainment

## Household Characteristics

Which number do you think household characteristics recommend you take a look at? Note, we have chosen to view data on what type of household? Note, we have chosen of the Census' narrow definition of households.

[Definitions and source links](#)

### Households by type (2000)

- Total households
- Female householder (not present) with children
- Male householder (not present) with children under 18
- Married-couple family under 18
- Nonfamily household under 18
- Households with no children under 18

### Children in households

- Population under 18 years
- Children living at home

**Grandparents as caregivers**

Recently, there has been a lot of interest in understanding the role of grandparents as caregivers. Census 2000 data focuses on the number of grandparents who have responsibility for a grandchild (or grandchildren) in the household they live in, but does not give us information on the number of children who have grandparents as caregivers.

[Definitions and source links](#)

	St. Roch	Orleans Parish	Louisiana	United States
<b>Grandparents as caregivers (2000)</b>				
Total grandparents living in households with grandchildren under 18	708	17,338	122,240	5,771,671
Grandparent responsible for grandchildren under 18	53.4%	54.7%	54.9%	42.0%
Grandparent not responsible for own grandchildren under 18	46.6%	45.3%	45.1%	58.0%

**Source Citation:** U.S. Census Bureau, [Census 2000 Sample Characteristics \(SF3\)](#). From a compilation by the GNO Community Data Center. <http://www.gnocdc.org>

**Find related data...**

For data on **houses people live in**, whether they **rent** or **own**, etc., visit the [Housing and Housing Costs](#) data page.

You'll find data on **family income** and **people living in poverty**, in the [Income & Poverty](#) data tables.

[Go to the Educational attainment page to find](#)

Community Data Center: Technical Assistance - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.gnocdc.org/tech-assist.cfm

Home Ask Allison

## Ask Allison



Hi, I'm Allison Plyer, Senior Consultant with the Community Data Center. We work with nonprofit clients to use data to support their grantwriting, planning and advocacy efforts.

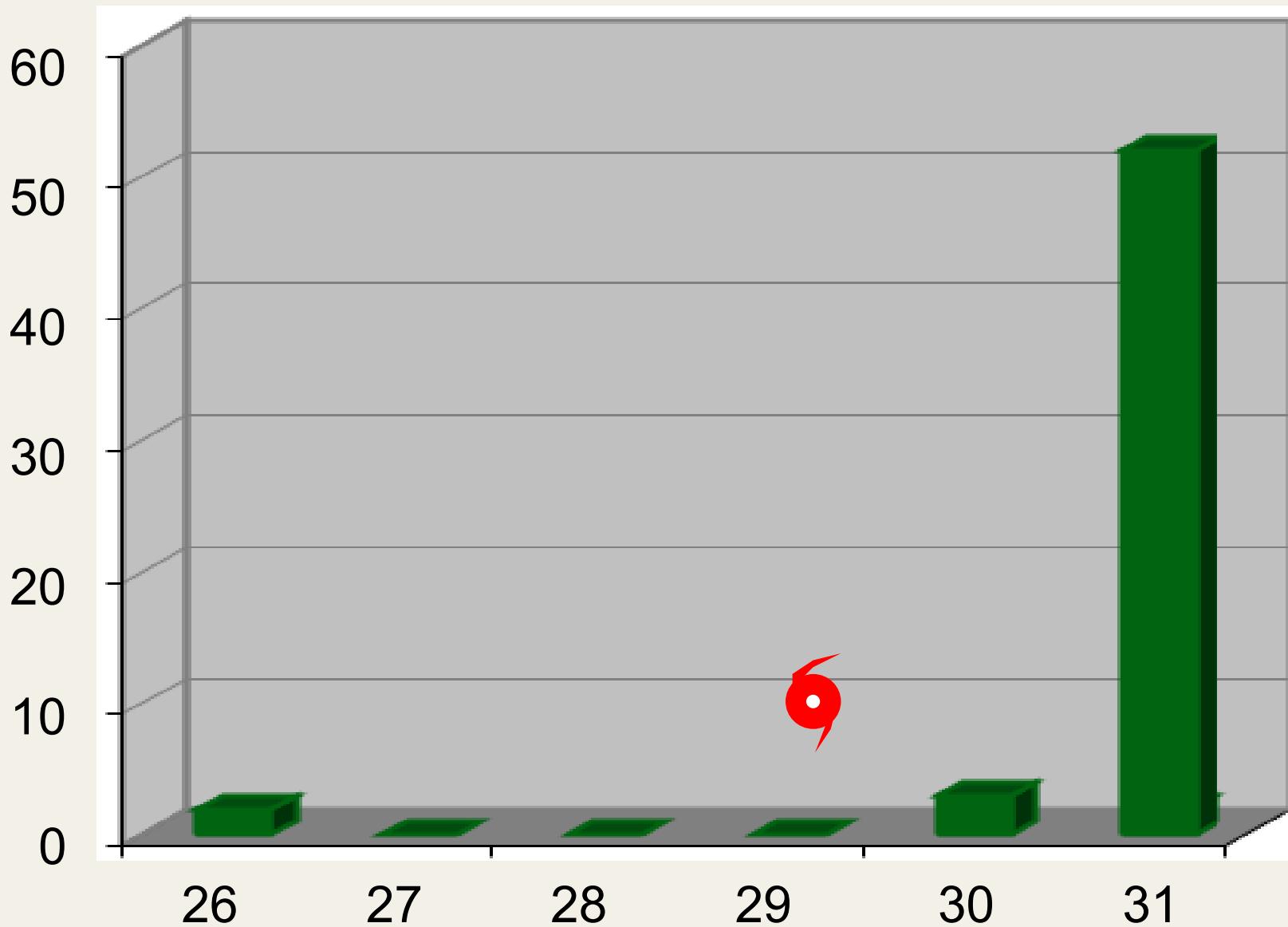
We know that using data can be frustrating at times. We're here to help!

We've tried to create a web site that makes getting local data really easy. But there's a whole world of data out there and we've published only a small portion. If after reviewing our website, you haven't found what you're looking for, this is the page to be on.

If you are a New Orleans area nonprofit organization, you can receive one hour of free help from us. (If it will take longer, we can work to negotiate something.)

Please start by submitting the following information. I'll contact you within one business day of receiving your request. Once you make a request, my colleagues and I will work to help you find the best data to meet your needs. This process can take up to two weeks.

# Questions to “Ask Allison”



# Questions coming in...

"I need elevation data on Jefferson Parish - we evacuated for Katrina!!!!!!!!!!!!!!!"

PLEASE HELP - I live in Metairie on Jeannette Dr."

"Was there flooding at 4601 Painters Street in the Gentilly area? My sister is there alone and did not evacuate. It is a 3 level home, but if you know of anything please, in God's name, please email us."

## Audiences

Use cases

Preparedness      Emergency      Recovery      Resilience planning

Affected individuals	Preparedness	Emergency	Recovery	Resilience planning
		Finding displaced family members		

# Q. High priority data for recovery?



**"Can you give me data on number of residents in each parish so we can plan our case management service provision."**

**-Louisiana Recovery Corps**

**"We'd like to know population trends on the West Bank of Jefferson Parish. We'd like to bring a particular major national client into the West Bank market by showing that population has boomed on the West Bank post Katrina."**

**-Kirschman Realty, LLC**

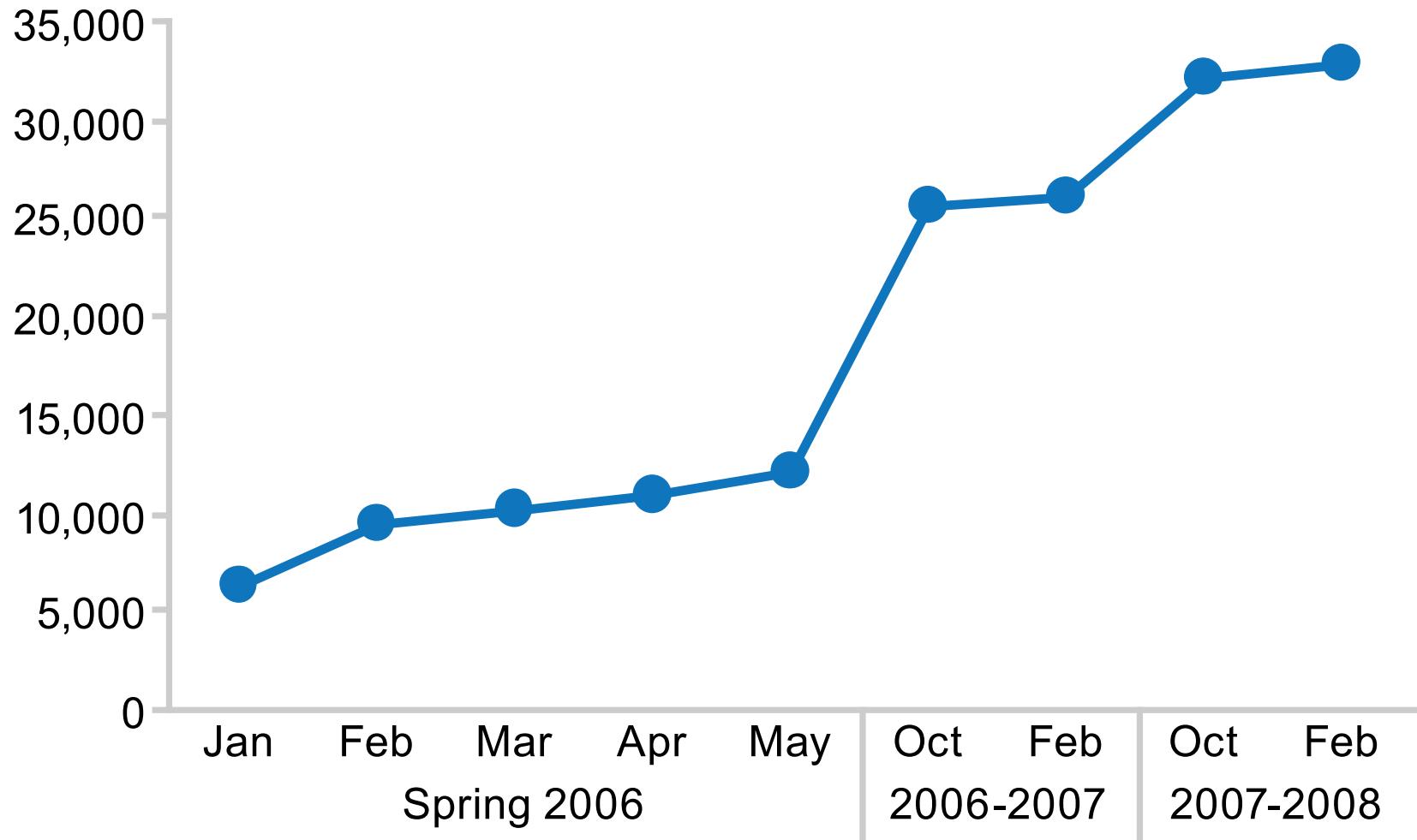
**"I would like any valid data you have on the post-Katrina population of Orleans Parish by neighborhood."**

**- International Medical Corps**

**"We need daytime population figures for New Orleans to make informed decisions about the future of television measurement in the market."**

**- Nielsen Media Research**

# Public School Enrollment (New Orleans)



Source: Louisiana Department of Education.

# Q. High priority data for recovery?

- **Population data at frequent intervals for small geographies**

# Annual Census Population Estimates Lag 9 Months

2007

January						
S	M	T	W	T	F	S
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29	30	31				

February						
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29	30	31				

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2008

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March						
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August						
S	M	T	W	T	F	S

# Alternative sources of population data

**Utility  
accounts**

Traffic  
Volume

Surveys

**Postal data**

Voter  
Registration

**Public school  
enrollment**

Drivers Licenses

Vehicle  
Registration

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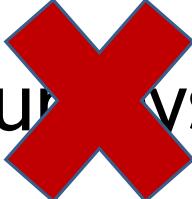
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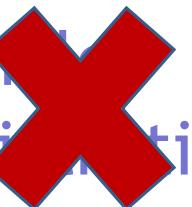
Traffic  
volume



Voter  
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Vehicle  
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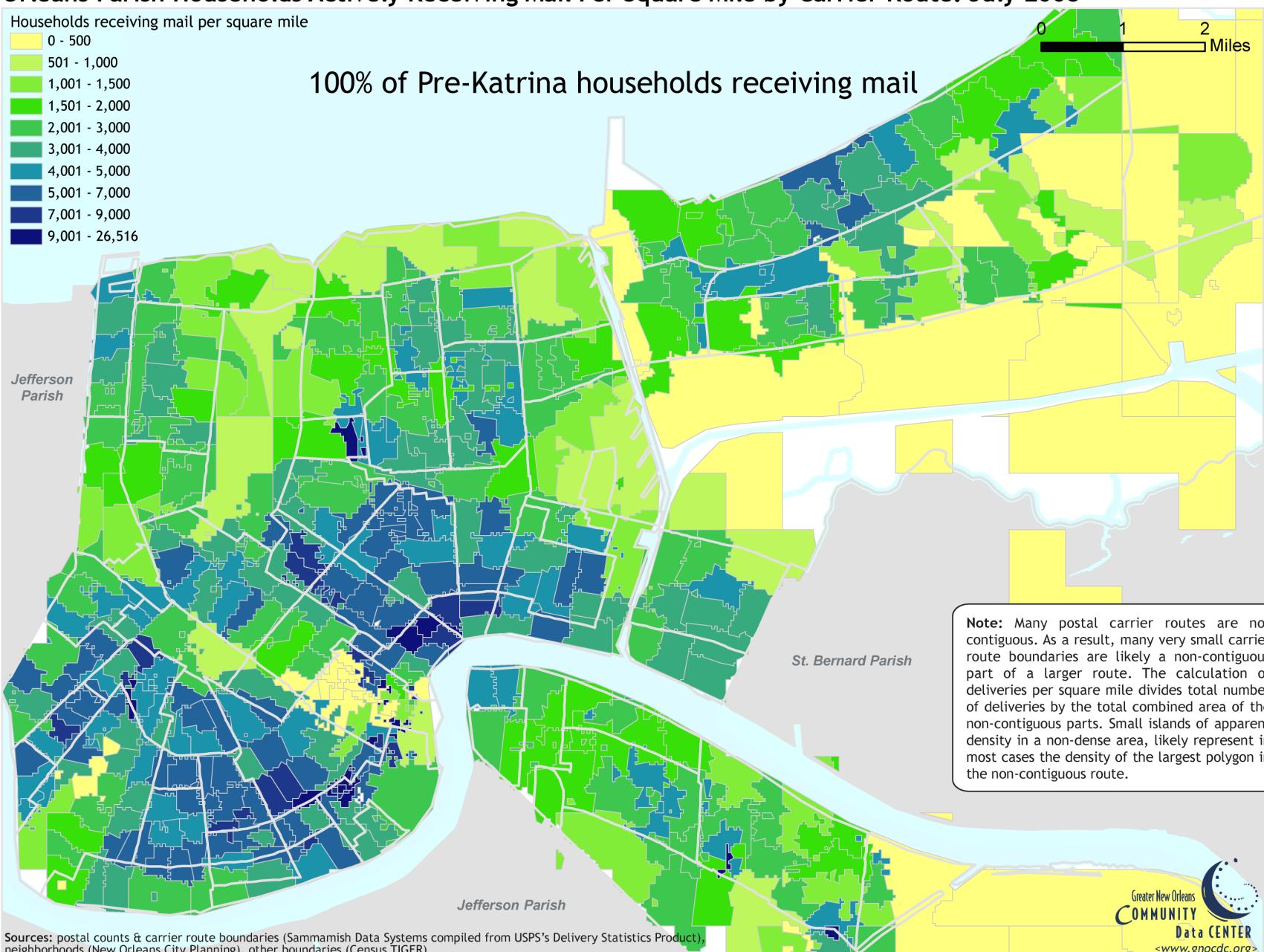


## Orleans Parish Households Actively Receiving Mail Per Square Mile by Carrier Route: July 2005

Households receiving mail per square mile

- 0 - 500
- 501 - 1,000
- 1,001 - 1,500
- 1,501 - 2,000
- 2,001 - 3,000
- 3,001 - 4,000
- 4,001 - 5,000
- 5,001 - 7,000
- 7,001 - 9,000
- 9,001 - 26,516

100% of Pre-Katrina households receiving mail



**Note:** Many postal carrier routes are not contiguous. As a result, many very small carrier route boundaries are likely a non-contiguous part of a larger route. The calculation of deliveries per square mile divides total number of deliveries by the total combined area of the non-contiguous parts. Small islands of apparent density in a non-dense area, likely represent in most cases the density of the largest polygon in the non-contiguous route.

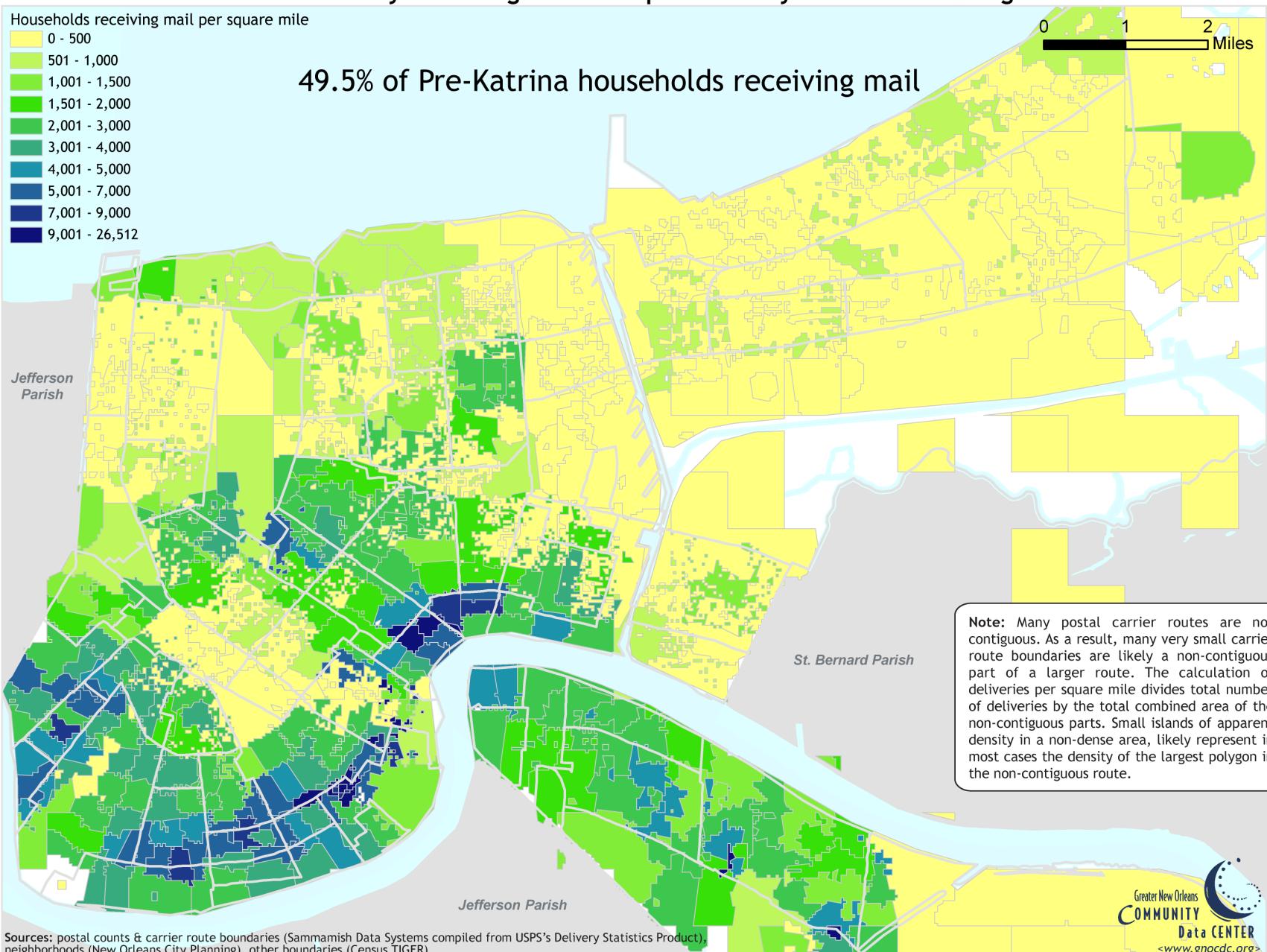
Sources: postal counts & carrier route boundaries (Sammamish Data Systems compiled from USPS's Delivery Statistics Product), neighborhoods (New Orleans City Planning), other boundaries (Census TIGER)

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- 9,001 - 26,512

49.5% of Pre-Katrina households receiving mail



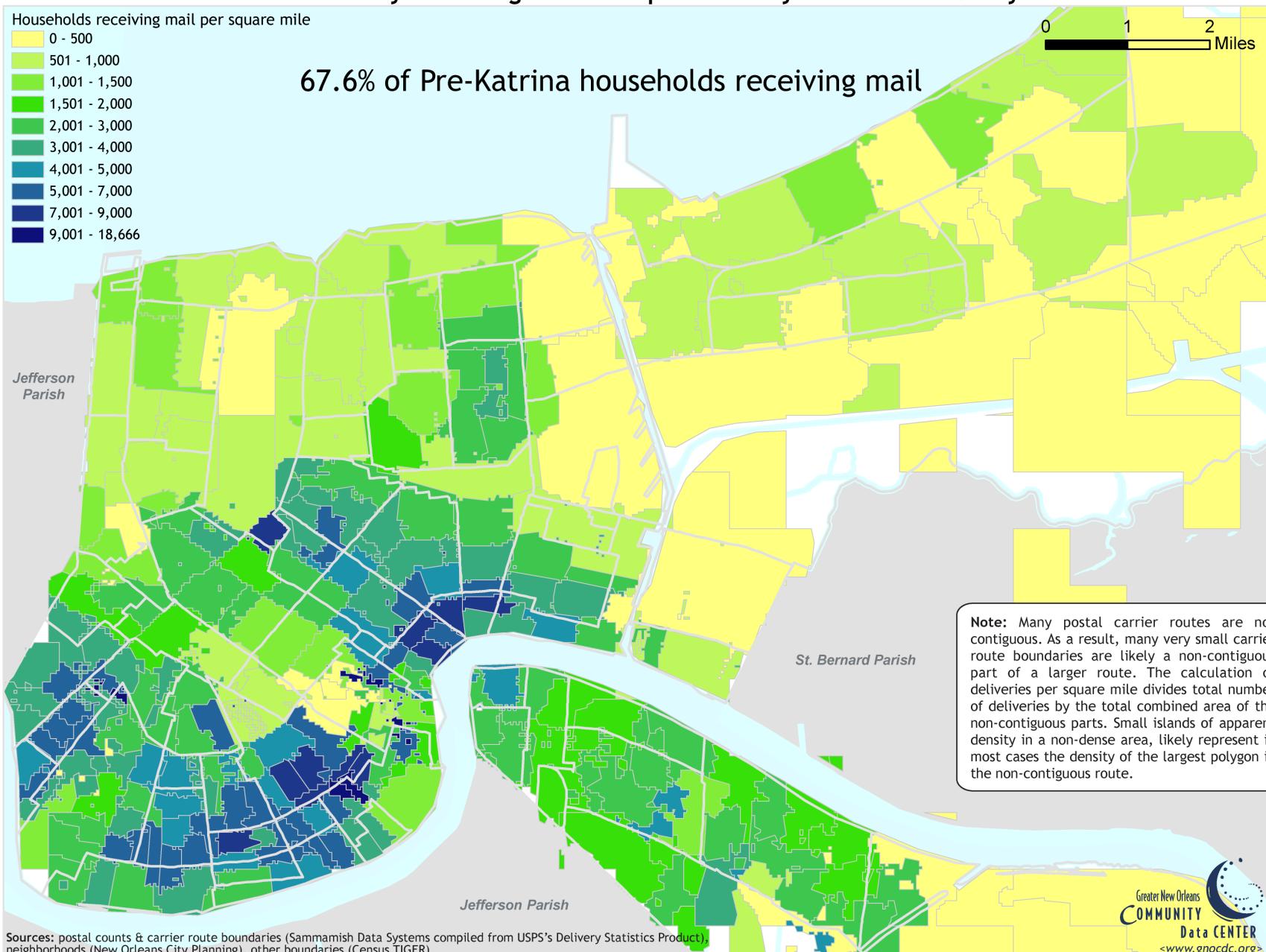
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- 9,001 - 18,666

67.6% of Pre-Katrina households receiving mail



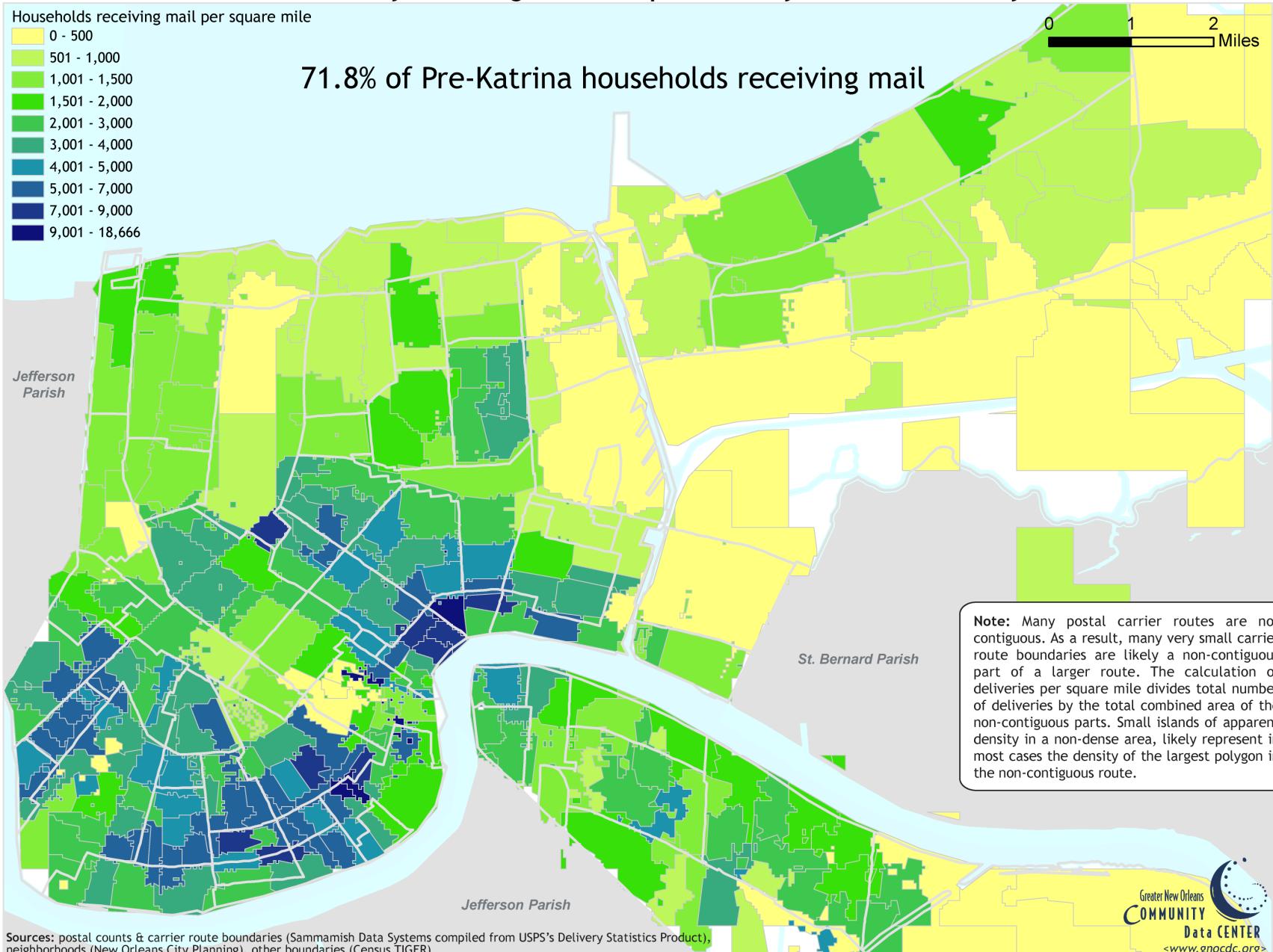
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## Orleans Parish Households Actively Receiving Mail Per Square Mile by Carrier Route: July 2008

Households receiving mail per square mile

- 0 - 500
- 501 - 1,000
- 1,001 - 1,500
- 1,501 - 2,000
- 2,001 - 3,000
- 3,001 - 4,000
- 4,001 - 5,000
- 5,001 - 7,000
- 7,001 - 9,000
- 9,001 - 18,666

71.8% of Pre-Katrina households receiving mail



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# Q. High priority data for recovery?

- **Population data at frequent intervals for small geographies**
- **Parcel-specific data**

# Parcel-specific data



# Q. High priority data for recovery?

- **Population data at frequent intervals for small geographies**
- **Parcel-specific data**
- **Information about re-opened facilities**

# Open Public Schools in Orleans Parish for Fall 2006 (as of August 21, 2006)

## School management types (53 total schools)

- R Recovery School District (RSD) 17
- O Orleans Parish School Board (OPSB) 5
- A Algiers Charter School Association 8
- I Independently run charter schools 23 (includes OPSB & RSD charters)

Note: Lusher Charter is counted as one school, although it has two locations

**BEST USED BY  
AUG 31 2006**  
[www.gnocdc.org](http://www.gnocdc.org)

Location to be determined:  
I Moton Elementary (PK-6)  
R Reed (K-8)

Jefferson Parish



St. Bernard Parish

## School Enrollment

Contact the Louisiana Dept of Education for information about enrolling your child in school

(877) 453-2721  
or visit

[www.nolapublicschools.net](http://www.nolapublicschools.net)



Jefferson Parish

Sources: open schools (Louisiana Department of Education), neighborhoods (New Orleans City Planning), other boundaries (Census TIGER)

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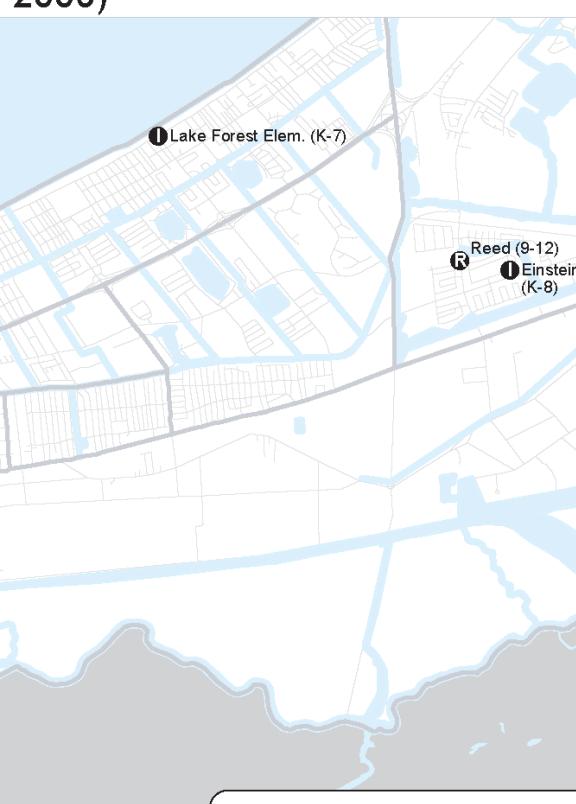
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Audience: Affected individuals

Use case: Migration decision

- Is power restored to my neighborhood?
- Which neighbors are returning?
- What schools/hospitals/childcare/businesses are open?
- Has crime increased?
- Is the air/soil/water safe?

## Use cases



### Audiences

Affected individuals

Preparedness	Emergency	Recovery	Resilience planning
		Migration decisions	

# Q. High priority data for recovery?

- Trends to understand context ...  
as it changes

# The New Orleans Index Series



The Brookings Institution  
METROPOLITAN POLICY PROGRAM

## Special Edition of the Katrina Index: A One-Year Review of Key Indicators of Recovery in Post-Storm New Orleans

Amy Liu, Matt Fellowes, and Mia Mabanta

Findings

A review of dozens of key social and economic indicators on the progress of recovery in the New Orleans region since the impact of Hurricane Katrina finds that:

- **Housing rehabilitation, and demolition, are well underway while the housing market tightens, raising rents and home prices.** Across the most hard hit parishes in the New Orleans area, the pace of demolition has accelerated in the last six months while the number of permits issued for rehab has nearly doubled. Yet, housing is less affordable as rents and home prices in the region have increased by 30 percent over the year and home prices have stalled in submarkets.
- **Across the city, public services and infrastructure remain thin and slow to rebound.** Approximately half of all bus and streetcar routes are back up and running, while only 17 percent of buses are in use, a level of service that has not been reached since January. Gas and electricity service is reaching only 41 and 60 percent of the pre-Katrina customer base, respectively.
- **The labor force in the New Orleans region is 20 percent smaller today than one year ago, a rate that grows slowly over the last six months; meanwhile, the unemployment rate remains high, over 9 percent pre-Katrina.** The New Orleans metropolitan area has 190,000 workers over the past year, with the health and education services industries suffering the largest percentage declines. In the past six months, the region has seen 3.4 percent more jobs have been added. This may reflect the fact that new job seekers. The unemployment rate is now 7.2 percent, higher than last August.
- **Since last August, over \$100 billion in federal aid has been distributed to serving families and communities impacted by Hurricane Katrina.** The following table shows the number of families impacted by the

The following table shows the number of families impacted by the

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For specimen response, please direct media inquiries to [www.gowdc.org/media](http://www.gowdc.org/media)'"/>

# Inside the NEW ORLEANS INDEX

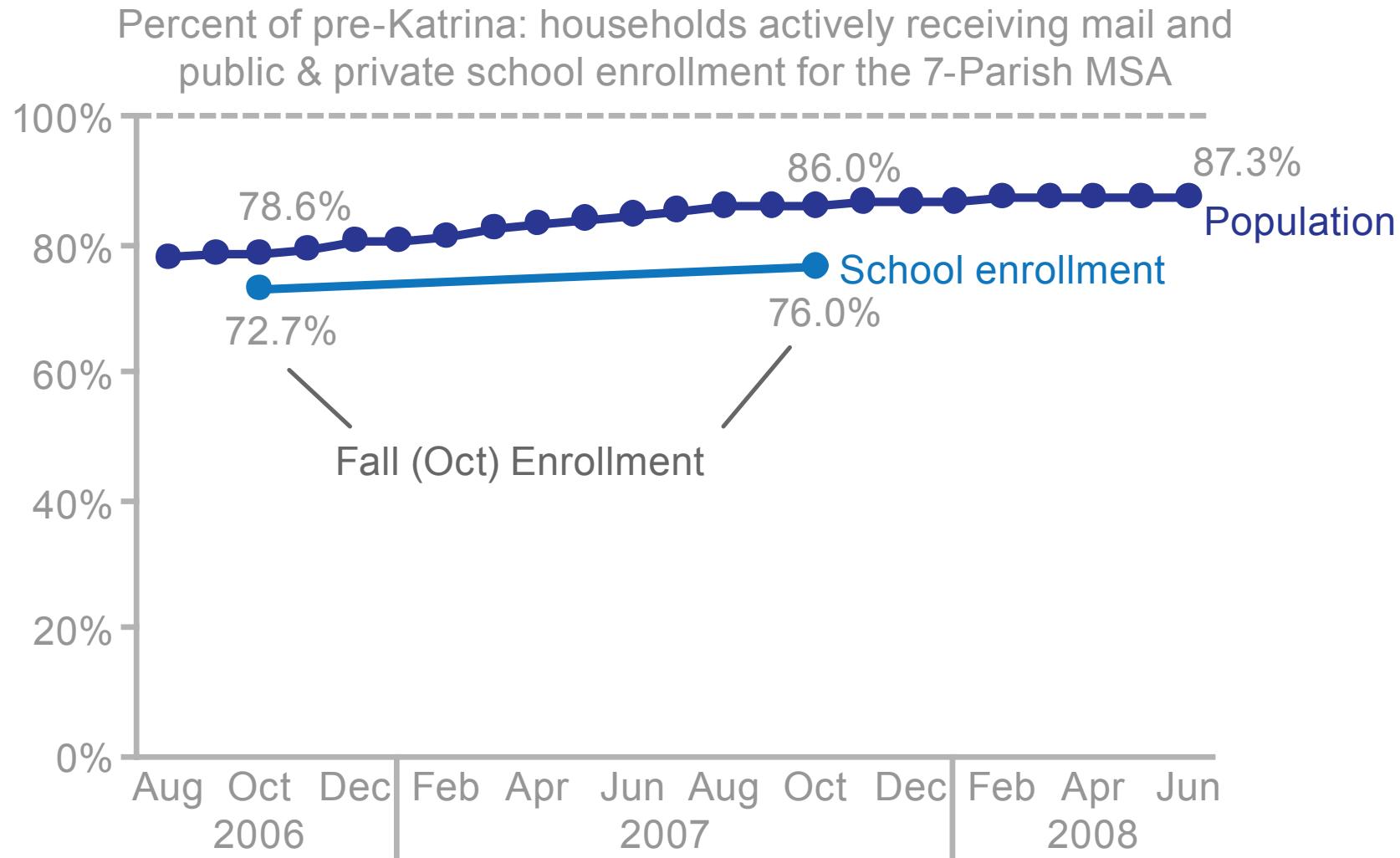
- Population
- Housing
- Economy
- Infrastructure



## APPENDIX B: DATA TABLES SOCIAL, ECONOMIC, AND FISCAL HEALTH OF THE CITY AND REGION

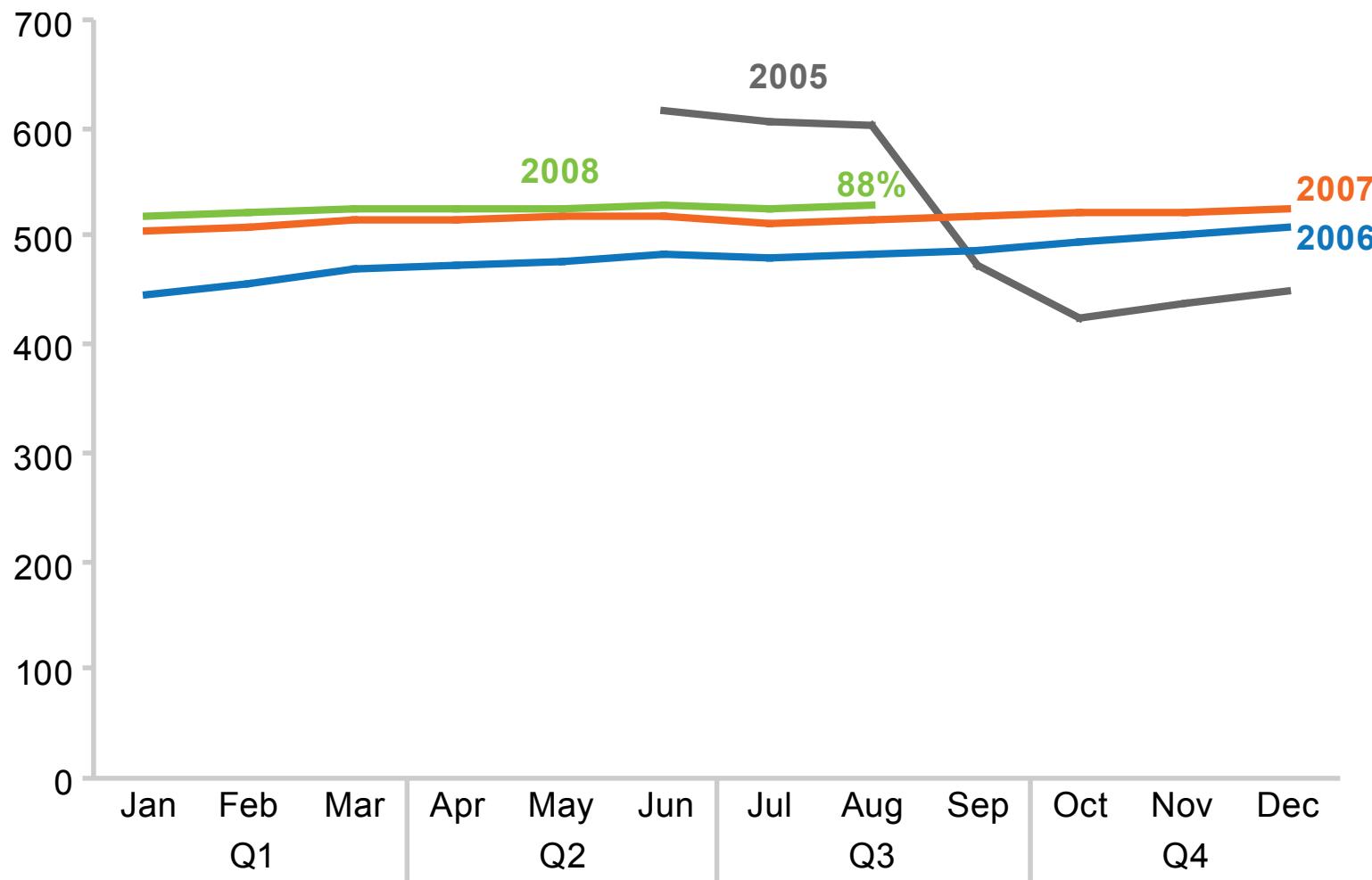
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# Population and Public School Enrollment

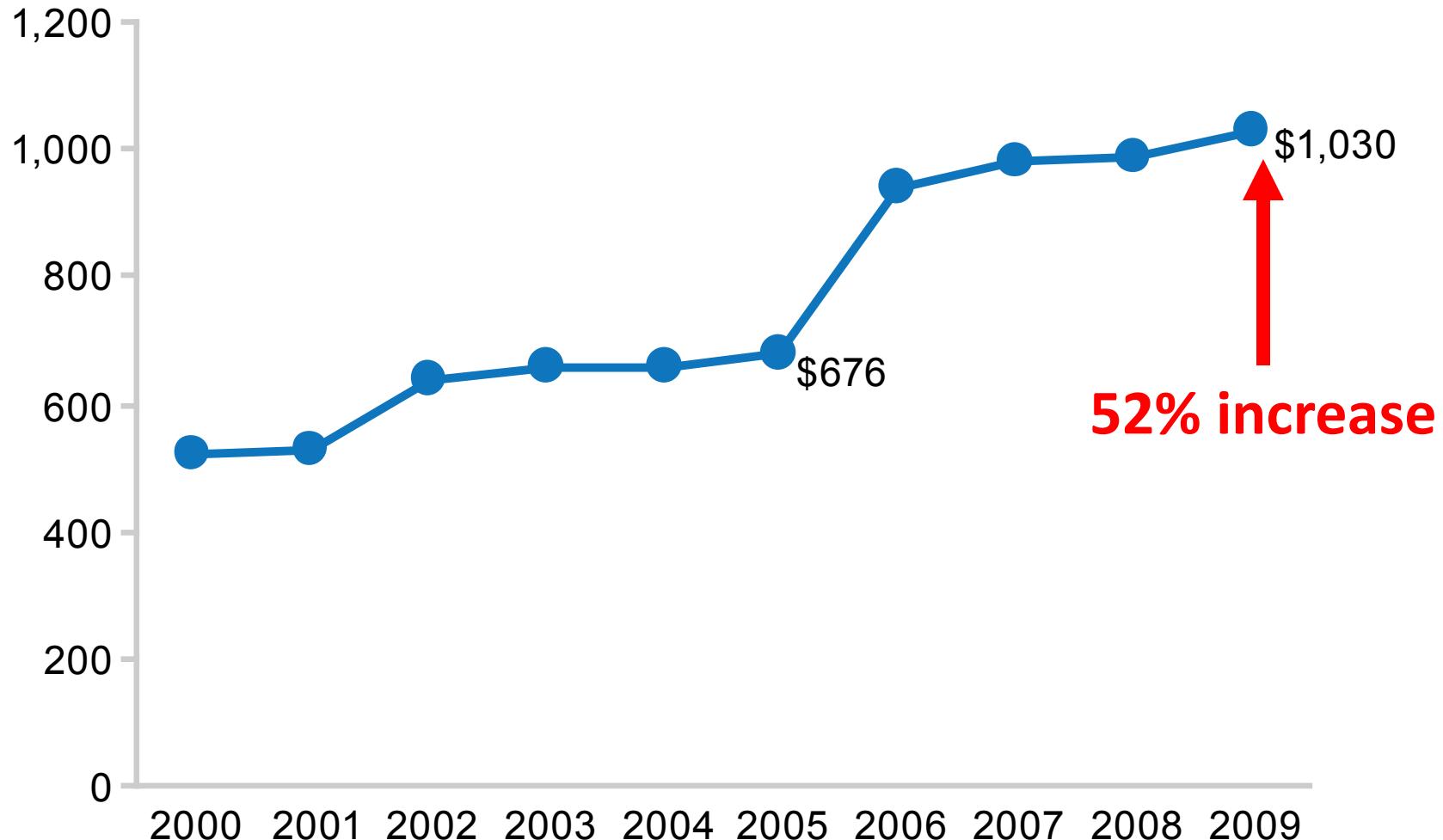


Source: GNO Community Data Center analysis of USPS Delivery statistics acquired from Sammamish Data Systems, and Louisiana Department of Education.

# Jobs (New Orleans Metro, in thousands, non-farm jobs)

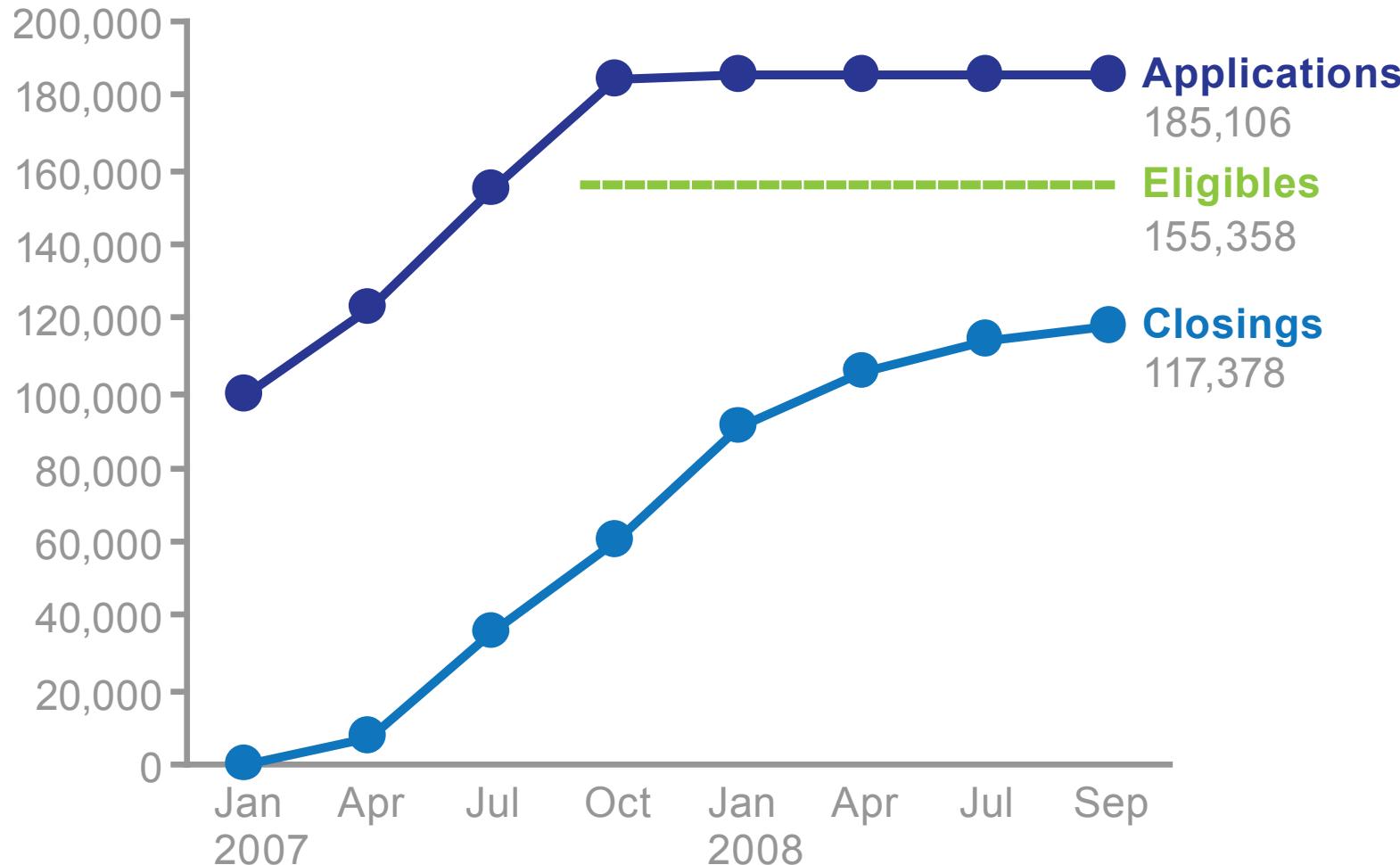


# Fair Market Rent for a 2-Bedroom (New Orleans Metro)

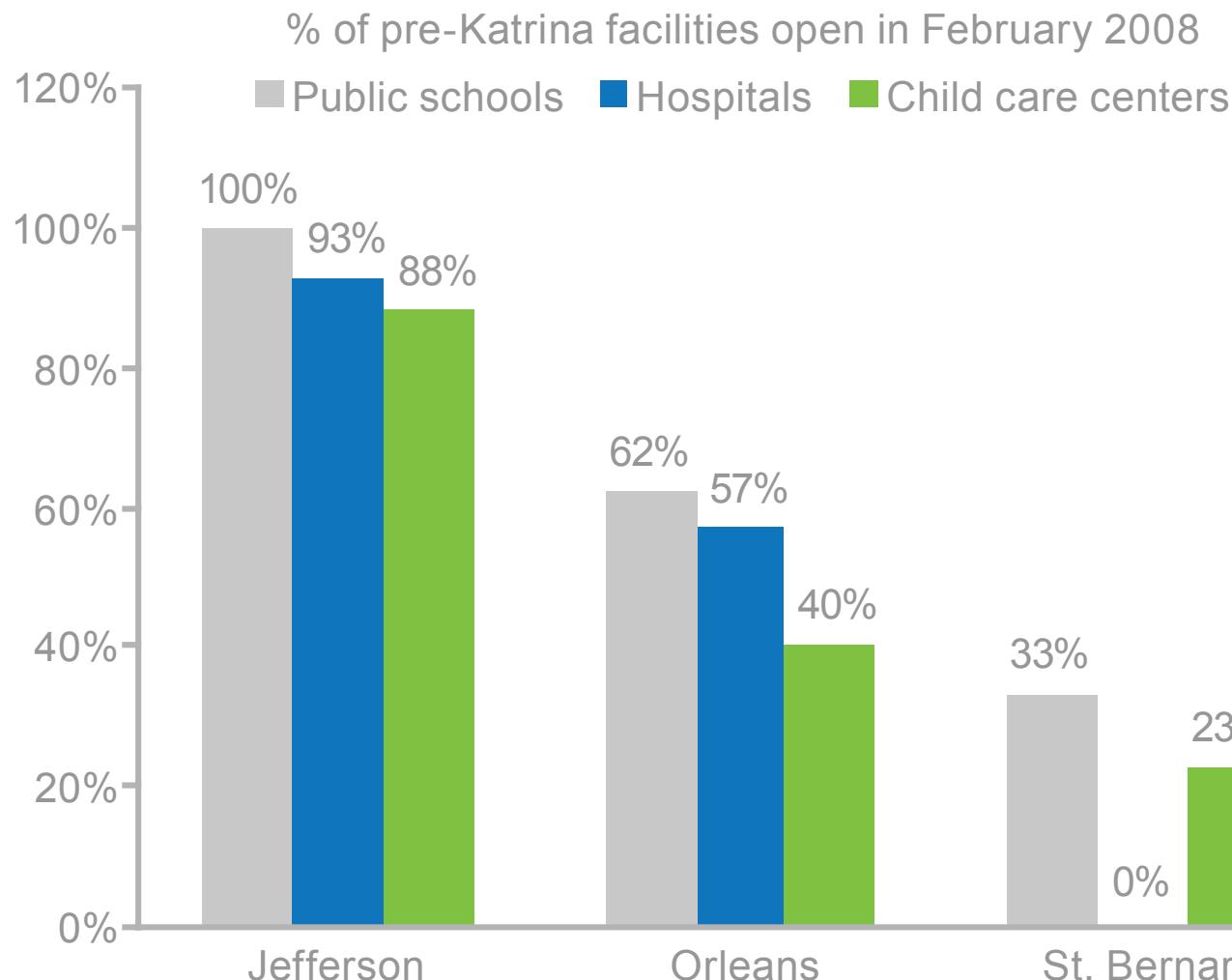


Source: U.S. Department of Housing and Urban Development, Fair Market Rent History 2000 to 2005 and County Level Data File for 2006-2009.

# Grants for LA Homeowners (CDBG“Road Home Program”)



# Open Schools, Hospitals, & Child Care Centers



Sources: Louisiana Department of Education, Louisiana Hospital Association, Agenda for Children, Louisiana Department of Social Services Bureau.



In the immediate months after Katrina, mortgage delinquency rates spiked as personal incomes dropped. Then within the first two years, homeowners with means and insurance were the first to renovate, followed by those who needed federal assistance. Repairs of rental units were slower, raising area rents and slowing the recovery of several industries dependent on lower-wage employees.

Infrastructure rebuilding lagged most of all: Five months after the storm, the few open public schools had a waiting list of children trying to enroll. Even three years after Katrina, police stations still operated out of FEMA trailers and temporary buildings. And the levees protecting New Orleans were not completed until 6 years after the storm.

**Audience: Policymakers, media, general public, business, philanthropy, affected individuals**

**Use case: Build common understanding of context ... as it changes**

**[Key domains: population, housing, economy, infrastructure]**

- How much aid is needed?
- How to prioritize spending?
  - What is the pace of distribution of recovery funding?
  - How is recovery progressing and where is it lagging?
  - What is the strength of the housing market?
  - What is the strength of the economy?
  - How to reprioritize spending?

## Use cases



### Audiences

	Preparedness	Emergency	Recovery	Resilience planning
Affected individuals			Migration decisions	
Policymakers, general public, media, business, philanthropy, affected individuals			Build common understanding of context ... as it changes	

# Q. High priority data for recovery?

- **Custom analyses to inform specific program or business decisions**

**Audiences:** Government agencies; nonprofits; business owners; institutions

**Use case:** Specific program or business decisions

- How many parcels have had repeated flood claims?
- Which households received less aid than they needed?
- How many customers will my store have?
- How many students will need on-campus housing?
- Etc.

## Use cases



### Audiences

	Preparedness	Emergency	Recovery	Resilience planning
Affected individuals			Migration decisions	
Policymakers, general public, media, business, philanthropy, affected individuals			Build common understanding of context ... as it changes	
Government agencies; nonprofits; business owners; institutions			Specific program or business decisions	

<u>Audiences</u>	<u>Use cases</u>			
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## Use cases

### Audiences

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Government agencies; nonprofits; business owners; institutions			Specific program or business decisions	

### **3. Deliver data in formats most consumable for each specific audience/use case.**


 "The most up-to-date, reliable data for New Orleans"

## Numbers Talk Newsletter


 3,976 subscribers


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August 4, 2010

**The New Orleans Index at Five:  
Recovery to Transformation of a  
Major American City**

July 20, 2010

**Jobs and livelihoods are closely  
tied to Louisiana's coast**

July 1, 2010

**Neighborhood recovery rates,  
and count down to the  
anniversary**

## IN THE NEWS

**95 media mentions so far this  
year (\$26 in 2009)**

June 2, 2010

**Five Years Later, The Big Easy  
Pushes Forward**

NPR

August 8, 2010

**Sunday Edition: New Orleans five  
years after Katrina**

WWL-TV

August 4, 2010

**Hurricane Katrina recovery  
assessed five years out**  
 The Times-Picayune

August 4, 2010

**New Orleans Getting Stronger,  
but Katrina's Problems Linger 5  
Years Later**

## DATA CENTER


**5TH ANNIVERSARY OF  
HURRICANE KATRINA**
**Days until August 29th: 8**

April 2009

### Facts for Features: Katrina Impact

A brief summary of the data on flooding, deaths, displaced residents, damages and recovery funding

June 2010

### Neighborhood Repopulation

Analysis of neighborhood repopulation data - includes a data table and maps.

August 2010

### The New Orleans Index at Five New!

The fifth anniversary edition with an overview, 20 key indicators, 7 essays on major reforms and more!



## OIL DISASTER

July 20, 2010

### Coastal Employment before the 2010 Deepwater Horizon Oil Disaster

This brief describes employment in coastal Louisiana two years prior to the 2010 Deepwater Horizon oil disaster. The jobs data within this brief serves as a baseline against which future impacts of the oil disaster may be compared.

June 18, 2010

### The Economic Impact of the Oil Spill

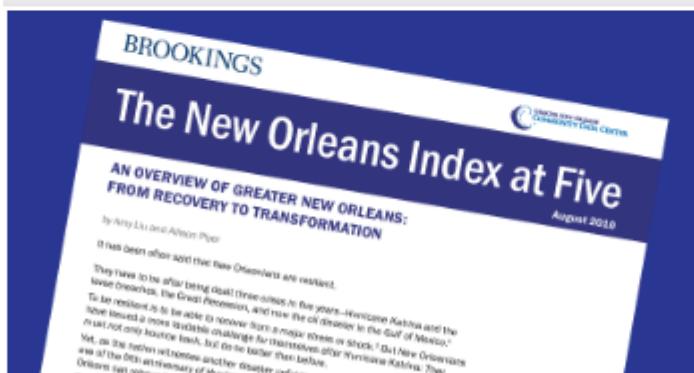
In this Brookings Podcast, Amy Liu discusses the enormous economic impact of the catastrophic BP Deepwater Horizon oil spill on New Orleans, the Gulf Coast region, and the nation.

June 16, 2010

### Economic Impact of the Oil Spill on the Gulf Region

Amy Liu from Brookings answers questions about the economic impact of the oil spill on the New Orleans region in a live web chat moderated by Sarah Hin-Kim, assistant editor at POLITICO.

## FEATURED



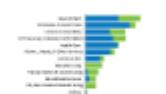
## The New Orleans Index at Five

August 2010 New!

The *New Orleans Index at Five* provides a comprehensive examination of the region through 20 key indicators, as well as seven topical essays informed by on the ground experience and research. An overview identifies remaining challenges and the efforts needed to ensure the continued transformation of New Orleans into a more prosperous region. [Read more...](#)

## ESSENTIAL DATA

### Regional "Export" Jobs



August 2010 New!

This brief, entitled *Jobs that Matter Most*, examines employment in the region and the "export" industries that drive economic growth.

### Coastal Employment

July 2010

This brief describes employment in coastal Louisiana two years prior to the 2010 Deepwater Horizon oil disaster. The jobs data within this brief serves as a baseline against which future



## 5 Years After Katrina

July 20, 2010  
**Jobs and livelihoods are closely tied to Louisiana's coast**

July 1, 2010  
**Neighborhood recovery rates,  
and count down to the  
anniversary**

## IN THE NEWS

95 media mentions so far this year (526 in 2009)

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NPR

August 8, 2010

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# The lessons are...

1. Every disaster is different but they do have predictable phases.
2. For each phase, identify specific audiences and use cases.
3. Deliver data in formats most consumable for each specific audience/use case.