



**National
Human Services
Data Consortium**

2018 Spring Conference

Pittsburgh, PA

April 18-19, 2018

Measuring the Impact of Natural Disaster on the Homelessness Response System

Tara Carruth, HMIS Administrator, Ventura, CA

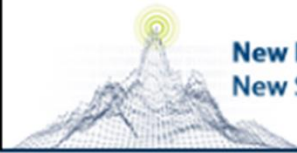
Eric Samuels, President, Texas Homeless Network

Nathan Andrade, Programmer Analyst, Simtech Solutions Inc.



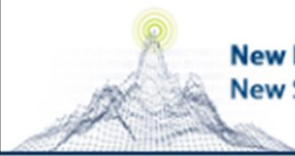
New Frontiers in Data

New Systems, Partners, and Technologies



Community Profile: Ventura County, CA

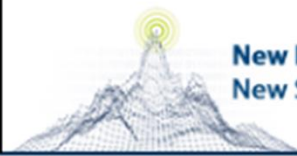
- Population 839,620, 10 cities +unincorporated area
- Poverty rate: 9.8%
- Fair Market Rent: 1 bedroom \$1,326
- Top 10 cost burdened regions of the country (High cost/low vacancy)
- 53% of county's landmass is National Forest
- Community prides itself on opposing urban sprawl, protecting agricultural land and open space



Thomas Fire Ventura County

- Started December 4, 2017
- Wind-driven
- Fully contained January 20, 2018
- 281,893 acres burned
- Total # residents evacuated: 90,000+

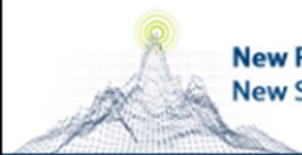




Damage Synopsis

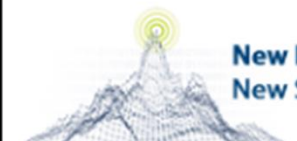
- Commercial: 32
- Outbuilding: 312
- Residence: 987
- 80% of these structures were destroyed

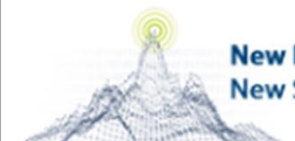




Loss of Affordable Housing





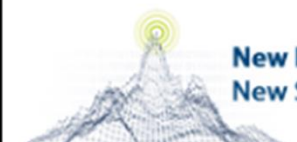


Measuring the Impact

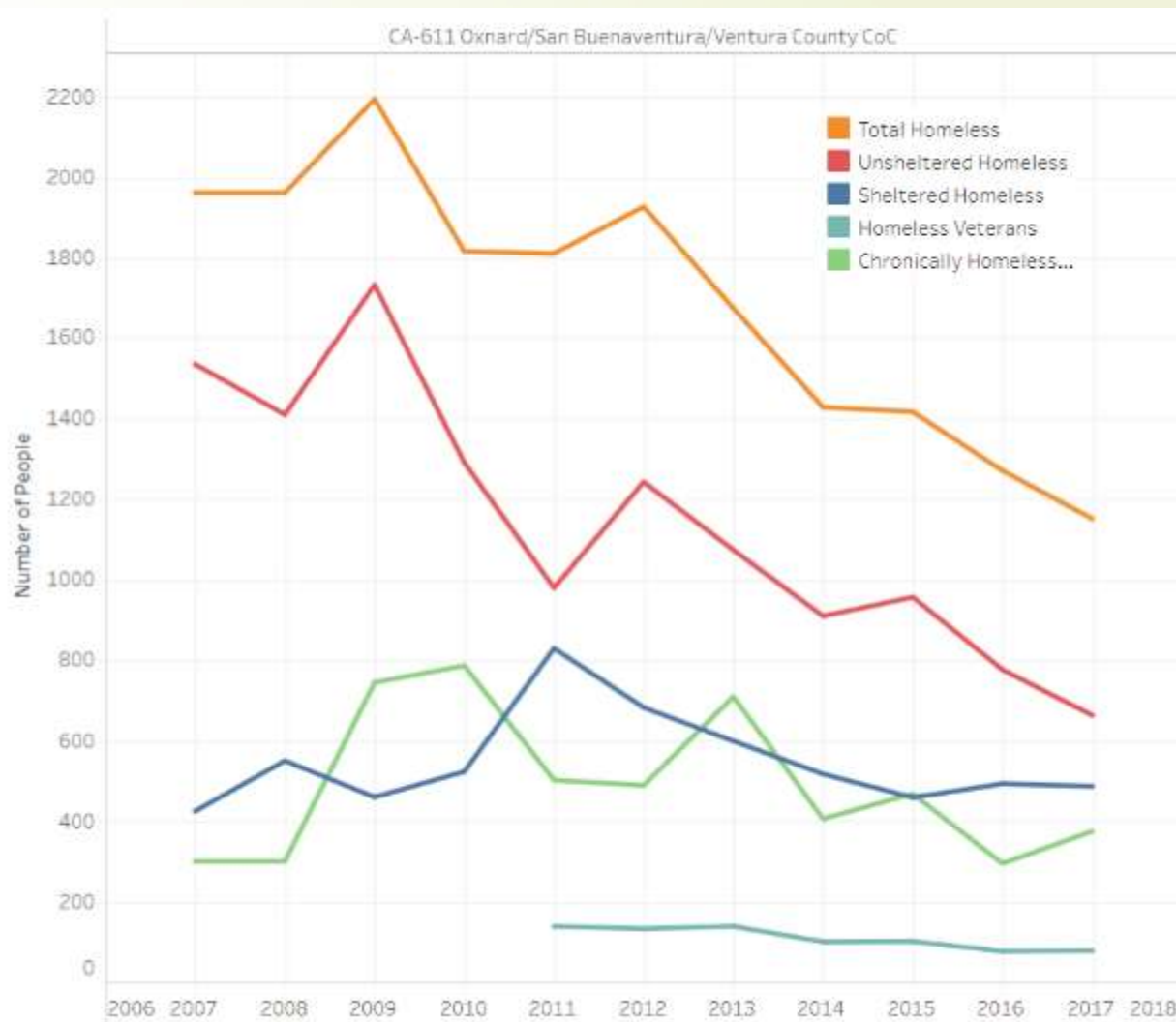


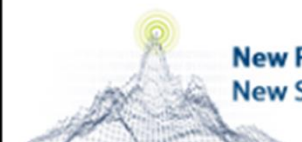
Questions added for the PIT:

- Did you become homeless because of the recent fires?
- What City/Town were you living in when you became homeless this time?
- What State?

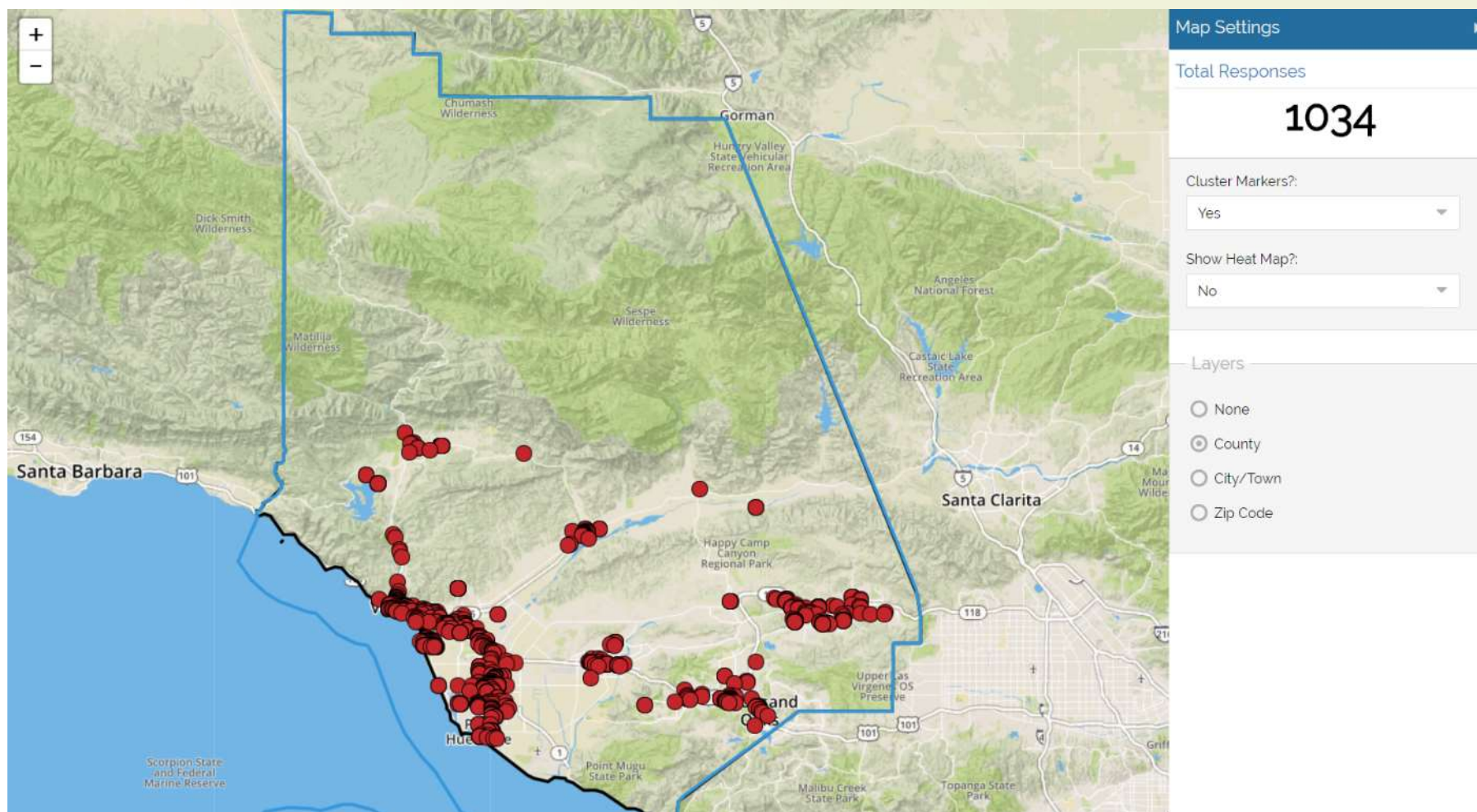


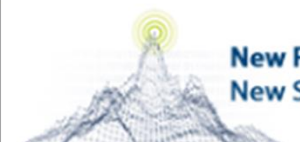
Community Profile: Ventura County, CA – PIT Trends





Community Profile: Ventura County, CA





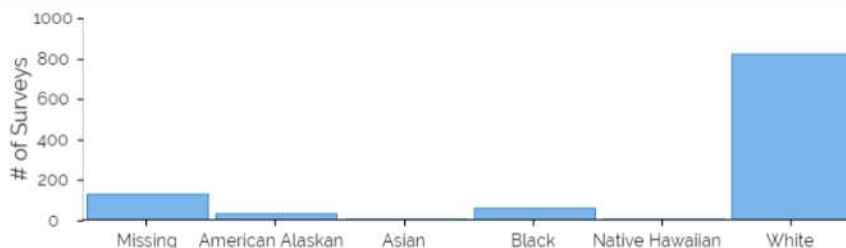
2018 PIT Results

Total Responses



1042

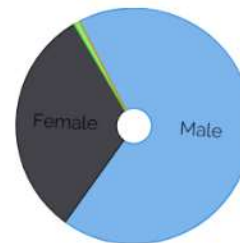
Race



Users Breakdown

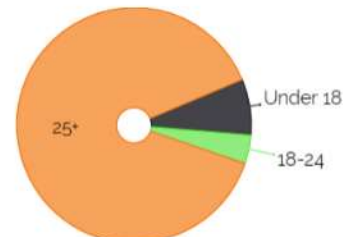
User ↑	#
Cressy, Kathleen	9
Aguas, Esteban	3
Almeida, Christopher	1
Alvarado, Mark	1

Gender



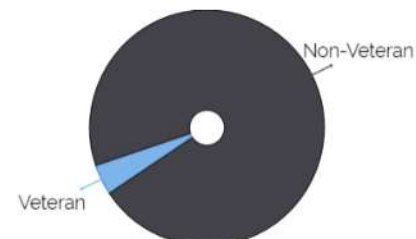
Gender	#
Male	704
Female	330
Other	8
Unknown	0

Age

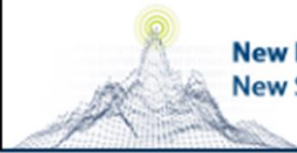


Age	#
Unknown	0
Under 18	80
18-24	41
25+	921

Vet Status



Vet Status	#
Veteran	44
Non-Veteran	998



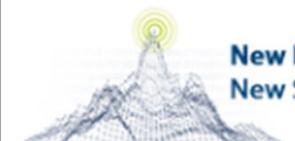
Impact of the Wildfires on the Homeless System

Fire Victims Counted: **23**

2.27 of Count

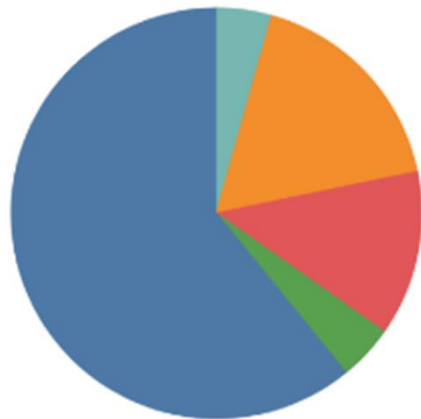
Unsheltered Weighting Factor: **1.381**

Estimated Total Fire Victims: **31.77**



Impact of the Wildfires on the Homeless System

Race (Fire Victims)



Race (All)



Race

- American Indian or Alaskan Nat...
- Asian
- Black or African American
- Multiple Races
- Native Hawaiian or Other Pacific ...
- Other Race
- Unknown Race
- White

Ethnicity (Fire Victims)



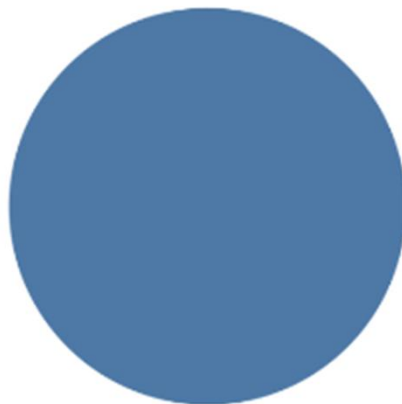
Ethnicity (All)



Ethnicity

- Not Hispanic or Latino
- Hispanic or Latino
- Client Refused
- Client Does Not Know
- Data Not Collected

Age (Fire Victim)



Age (All)



Age

- Age 25+
- Age 18 to 24
- Under 18

Gender (Fire Victim)

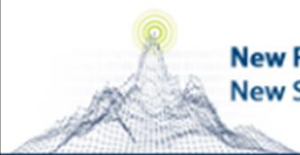


Gender (All)



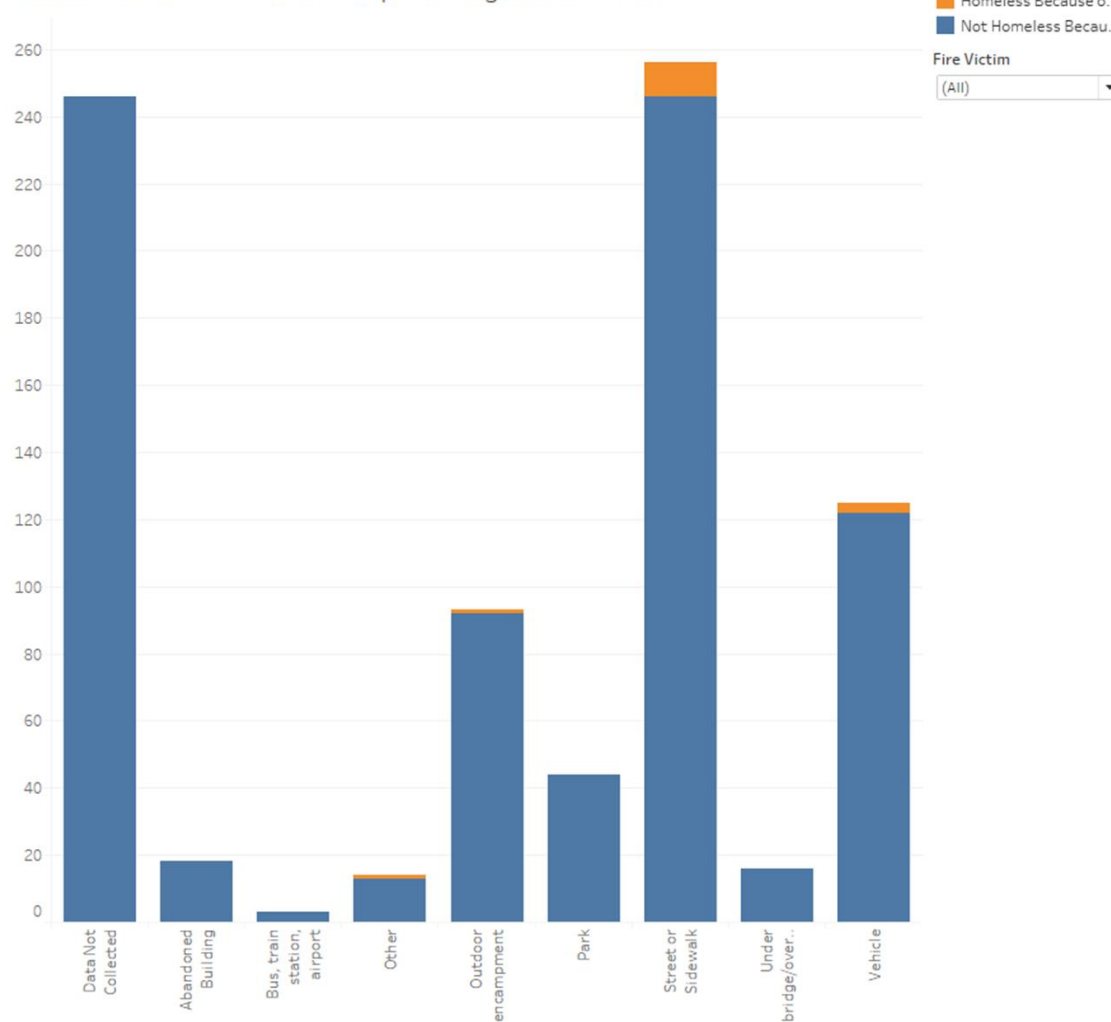
Gender

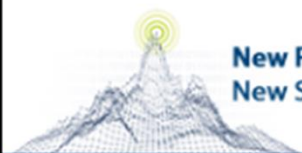
- Female
- Gender Non-Conforming
- Male
- Transgender Male



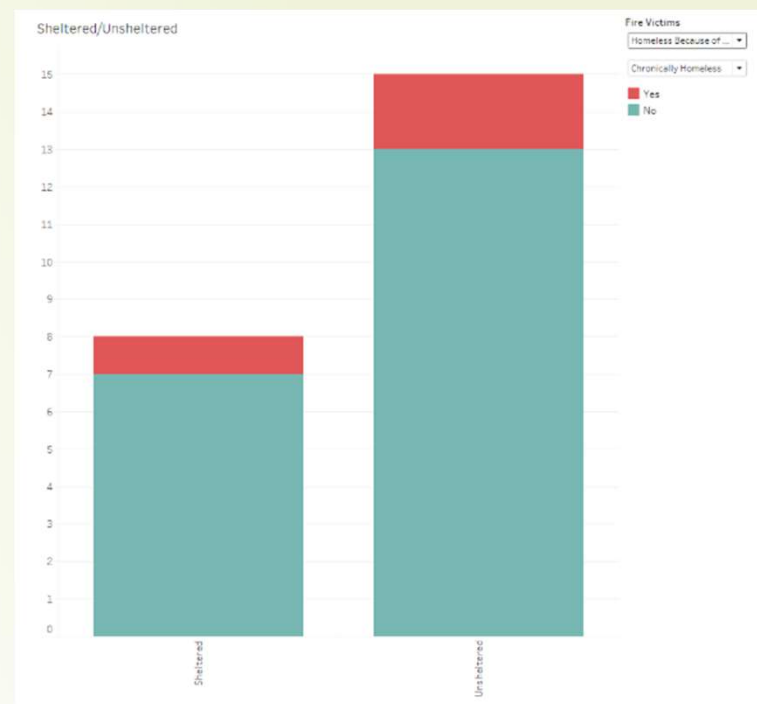
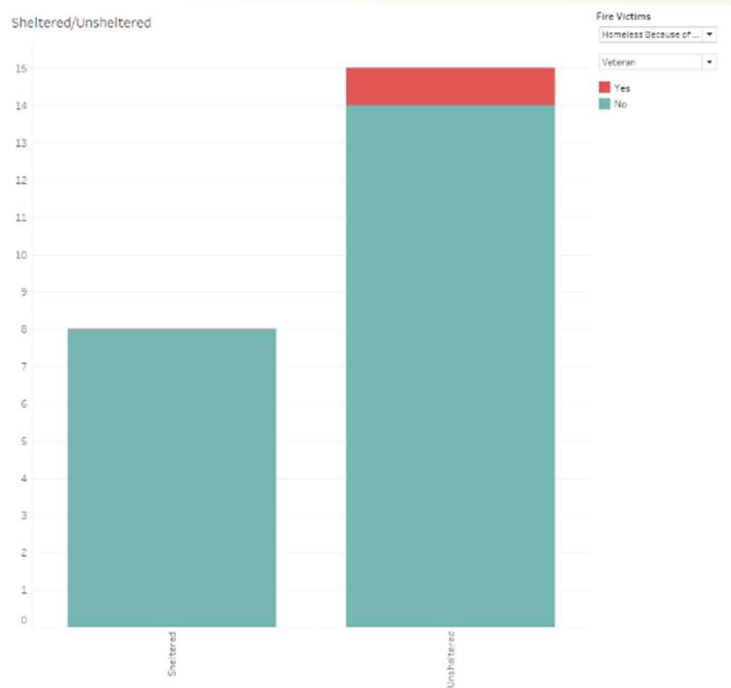
Impact of the Wildfires on the Homeless System

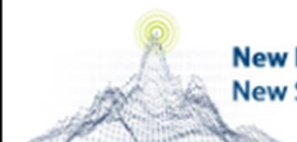
Where Unsheltered Clients Slept the Night of the Count





Impact of the Wildfires on the Homeless System





Impact of the Wildfires on the Homeless System

Incarceration

Recently Released From Incarceration After Serving 90 days
or less

130.00

Released From Incarceration In last 12 months

62.00

Fire Victim

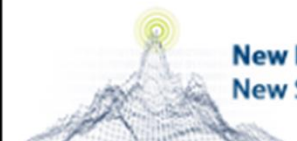
(All)

Recently Released From Incarceration After
Serving 90 Days or Less

Released From Incarceration Within Last 12
Months

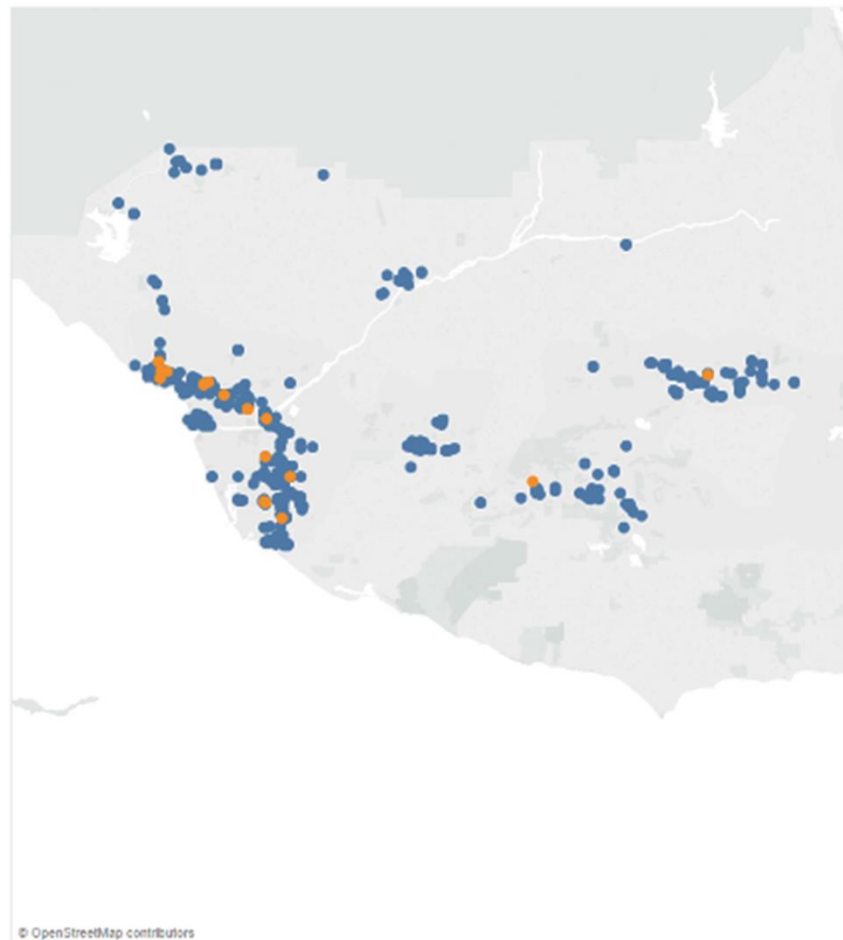


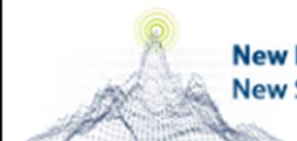
■ Data Not Collected
■ Don't know
■ Not on Parole or Pro...
■ On Parole
■ On Probation
■ Refused



Impact of the Wildfires on the Homeless System

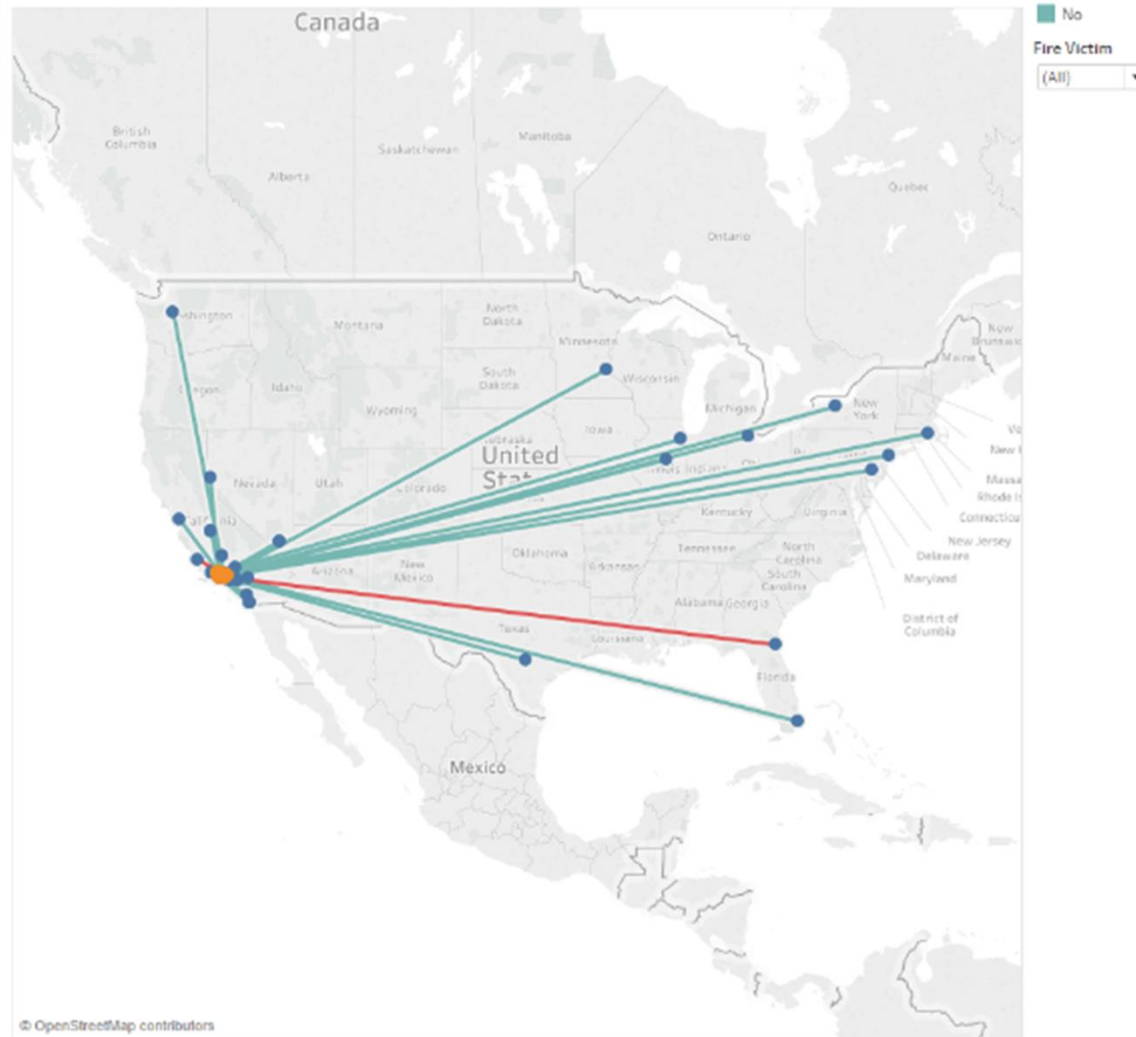
Map of PIT Surveys

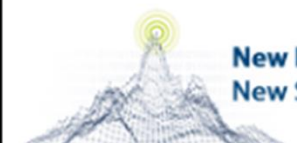




Impact of the Wildfires on the Homeless System

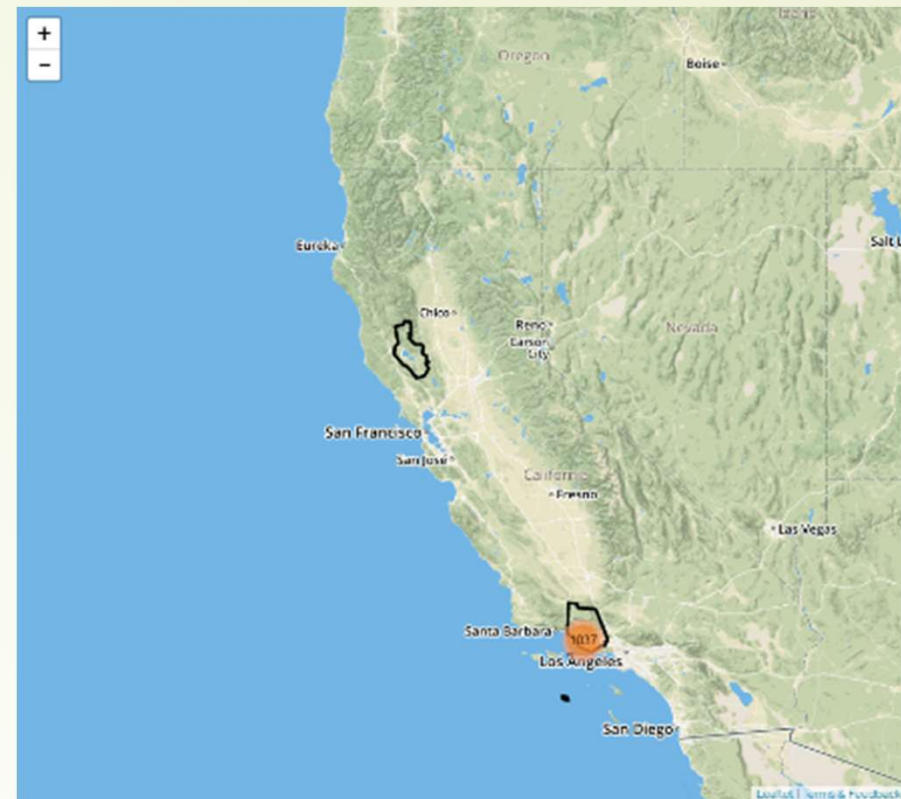
Homeless Origin Locations

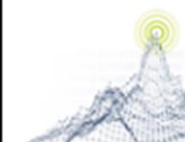




Approaching the Results – Ventura County, CA

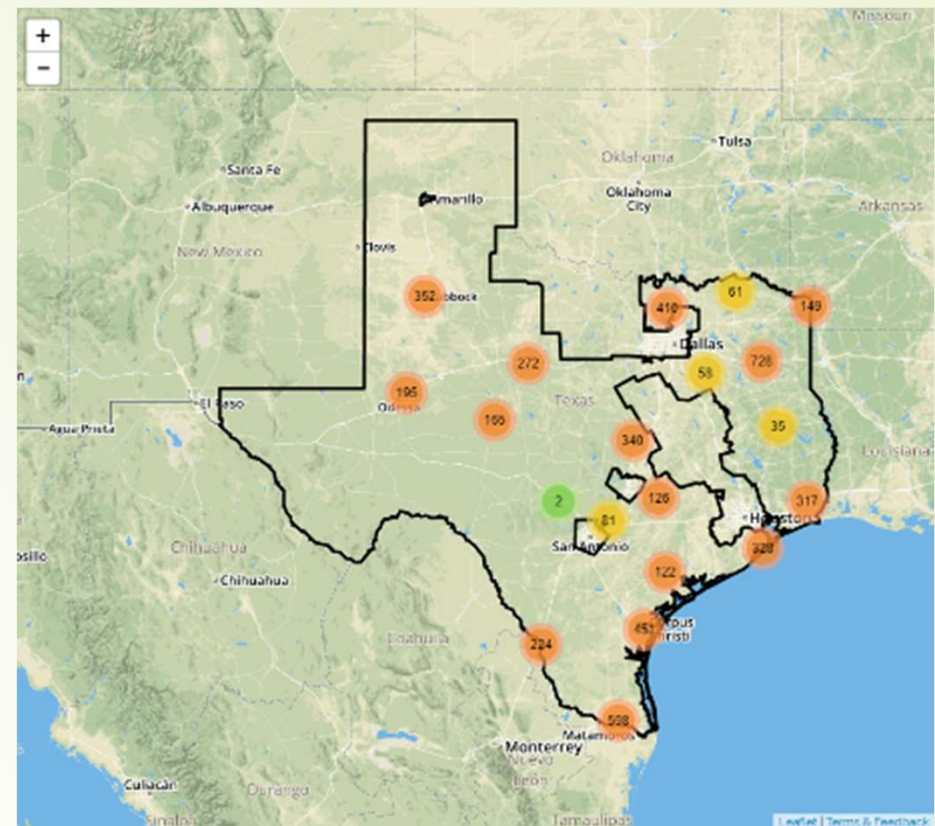
- Ventura had a small sample of fire victims to work with
 - Less likely to give an accurate representation of population
- Only one community
- Region specific questions included
- Best approach was to highlight the fire victims amongst the total count
- Data was not compared against 2010 US Census Data

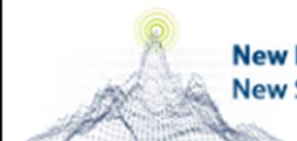




Approaching the Results - Texas

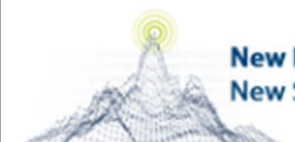
- Texas had a large sample of hurricane evacuees
- Eight different communities to compare results amongst one another
- Region specific questions had to be excluded
- Because of sample size, best approach was to only focus on hurricane evacuees and compare the impact they had on each region.
- Demographics could be compared to 2010 US Census data for the state of Texas.



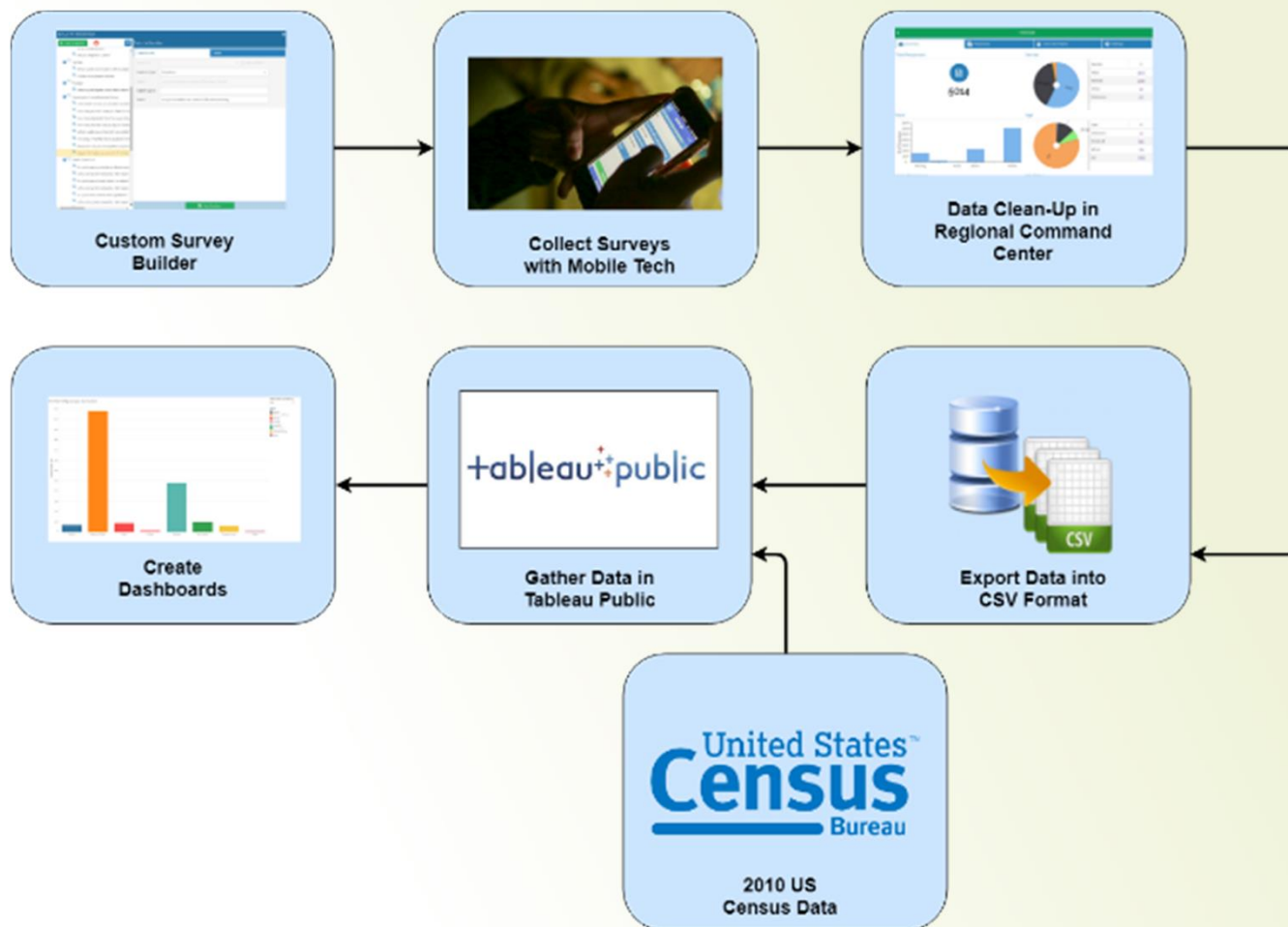


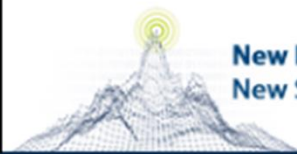
The Technical Framework

- Custom Point in Time survey created for each region
 - Asked clients if they were homeless as a result of the natural disaster
 - Some regions opted in to asking additional questions as well
- Surveys collected through mobile tech
- Data cleanup executed in regional command center
- Data exported from command center into a common CSV format
- Data exports from each region then combined together into one master file
- Master CSV file, 2010 Census data, and reformatted client location files were then imported into Tableau Public where dashboards were created



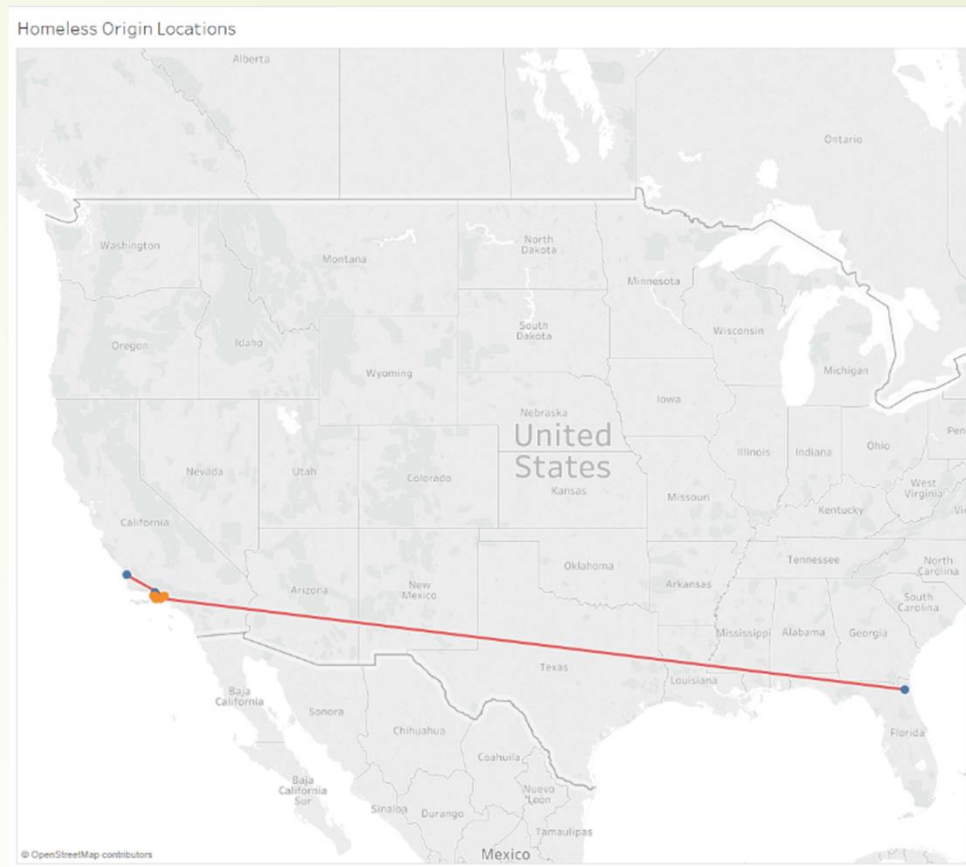
The Technical Framework

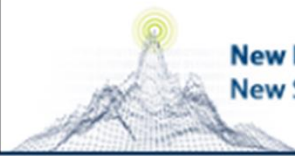




Data Quality

- Some clients reported conflicting information
 - Age (i.e. date of birth, age, or age range not matching one another)
 - Homeless as result of natural disaster response not matching origin location
- Observation tallies do not collect all the necessary information





Unsheltered Weighting Factor

- Not all clients were interviewed directly
- Some regions had a large number of observation tallies
- Formula below was used to extrapolate responses for the observation tallies:

$$\frac{\text{Unsheltered Surveys} + \text{Observation Tallies}}{\text{Unsheltered Surveys}}$$

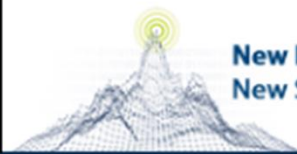
- Weighting factor could then be used to create an estimated total number of victims

Evacuees Counted: 96

5.02% of Count

Unsheltered Weighting Factor: 3.143

Estimated Total Evacuees: 301.7



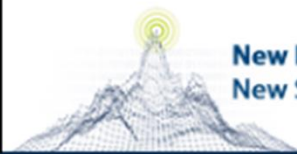
Community Profile: Texas - THN

- THN is a statewide agency that...
 - Provides solutions to end homelessness in Texas communities through education, resources and advocacy
 - We provide support to agencies and communities that build systems to end homelessness.



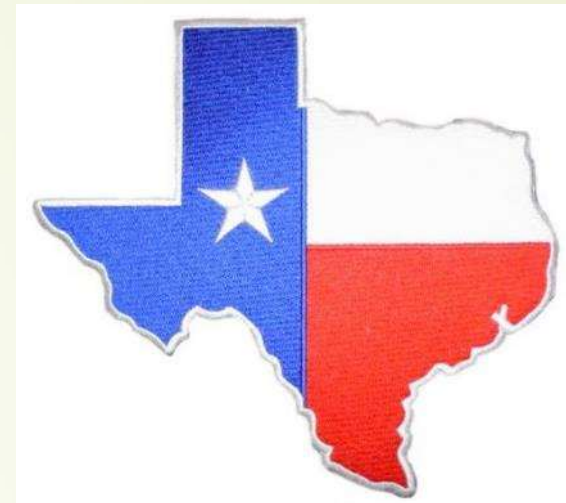
TEXAS HOMELESS
NETWORK

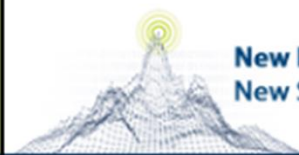




Community Profile: Texas - THN

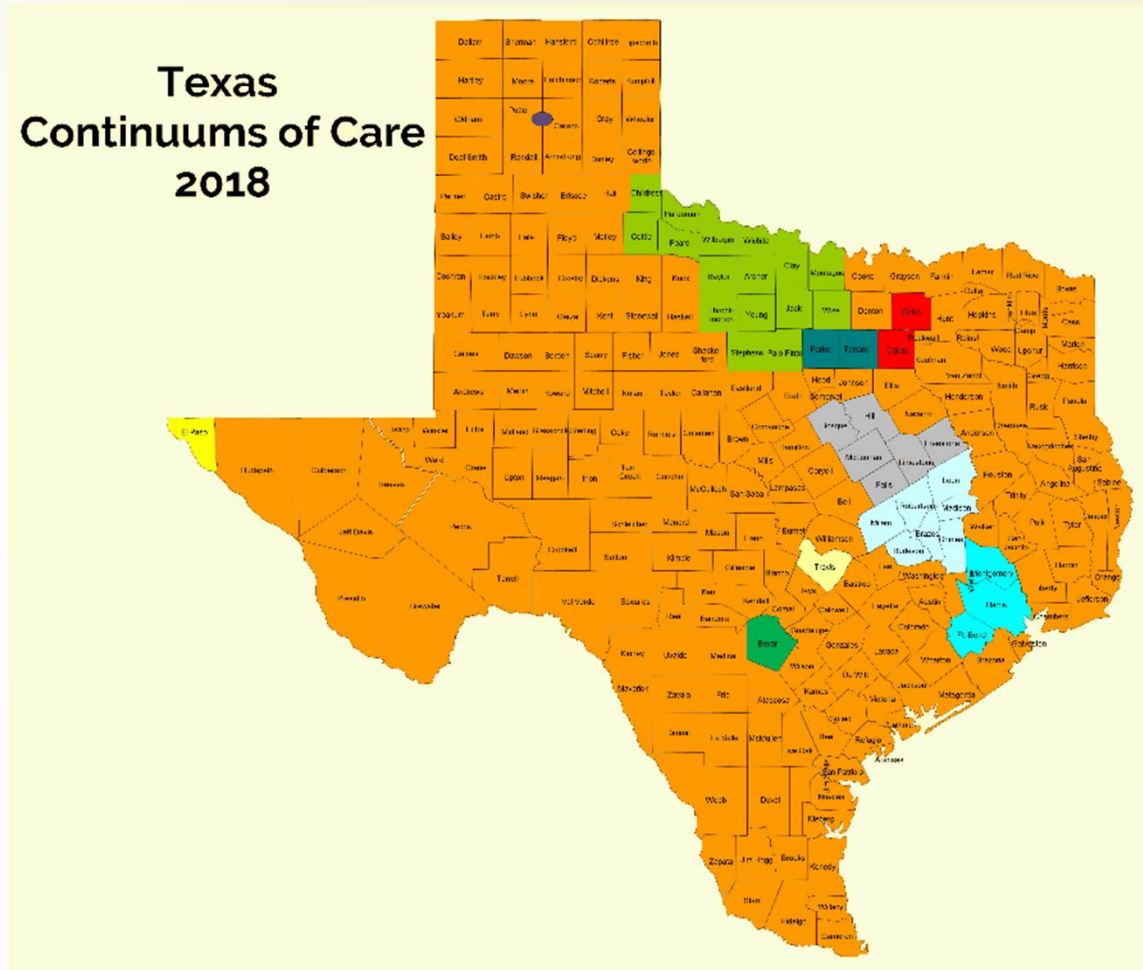
- THN is the Lead Agency for the TX BoS CoC
- THN is the HMIS Lead Agency for the TX BoS CoC
- TX BoS CoC covers 215 of Texas' 254 counties (86% of Texas's land mass)

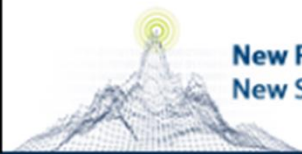




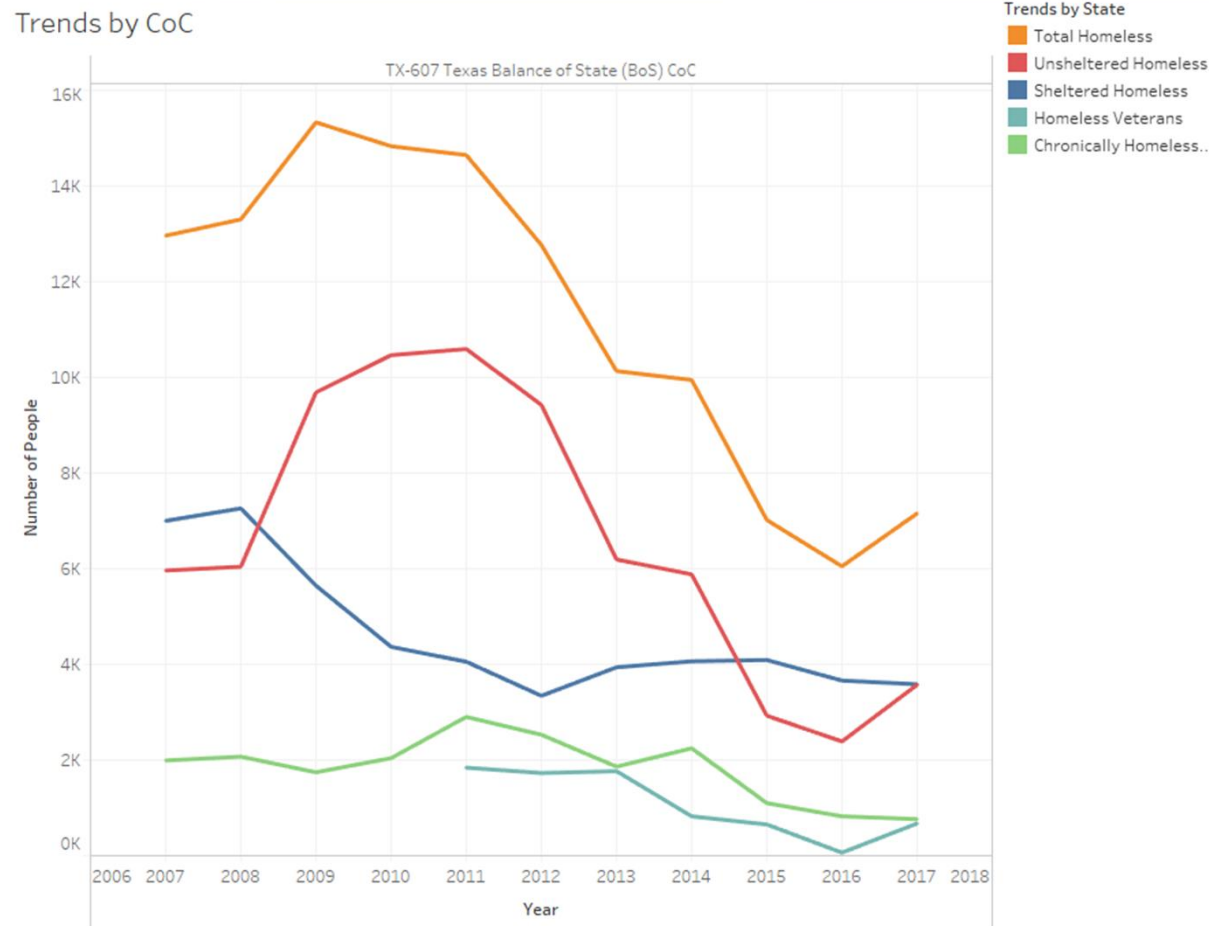
Community Profile: Texas – THN Service Area

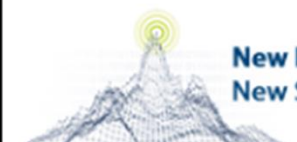
- Population 28 mil, 11 CoCs
- Poverty rate: 15.6%
- Only 29 out of 100 rental units are available to ELI Households (Austin, Dallas, & Houston have 20 or fewer per 100 units)
- 2017 CoC award amount = \$88mil
- 2017 PIT Count: 23,548





Community Profile: Texas – PIT Trends

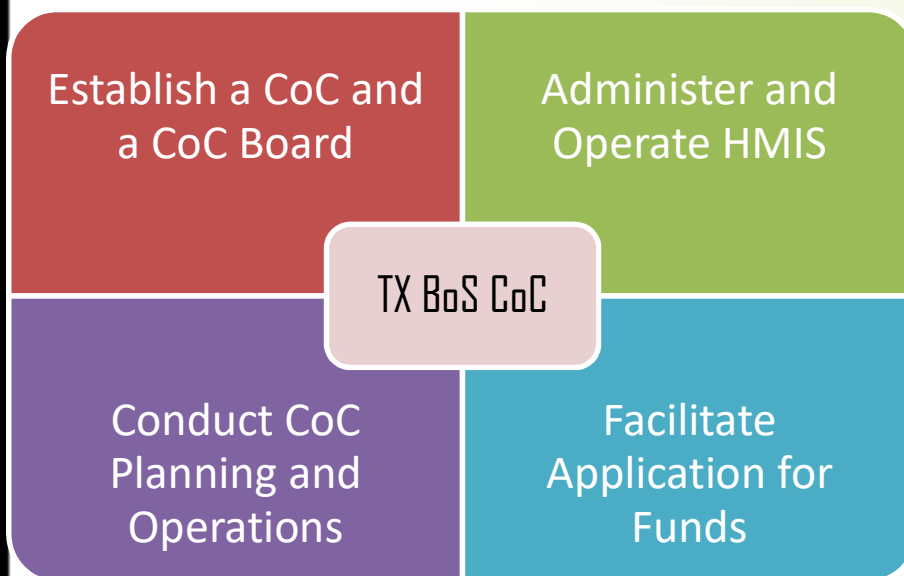




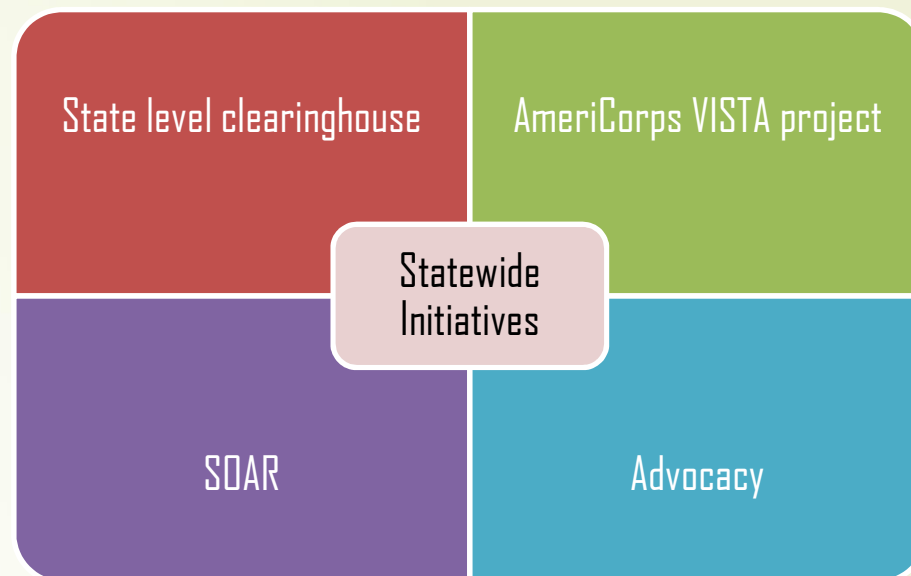
Community Profile: Texas – THN

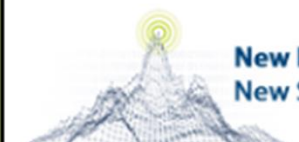
- THN has two primary focus areas:

Texas Balance of State CoC



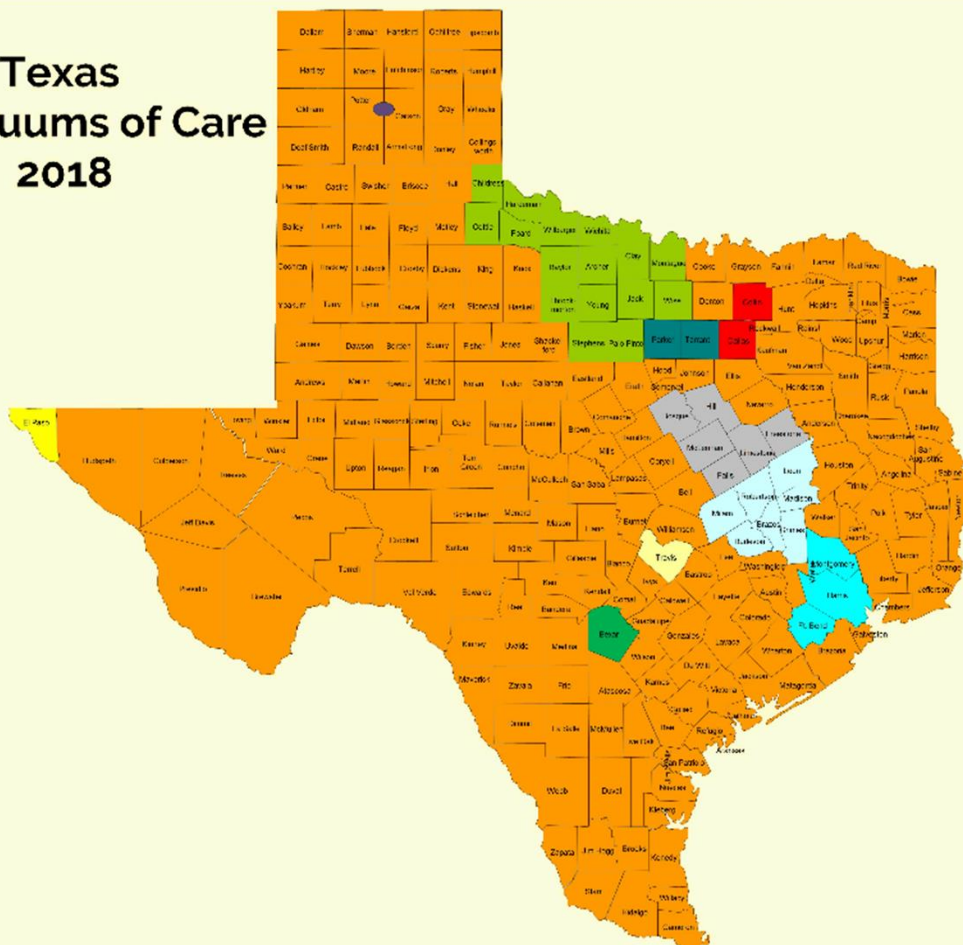
Statewide Initiatives





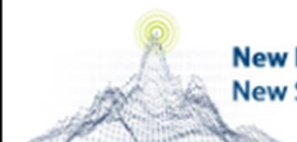
Community Profile: Texas – TX CoCs

Texas Continuums of Care 2018



Map Key

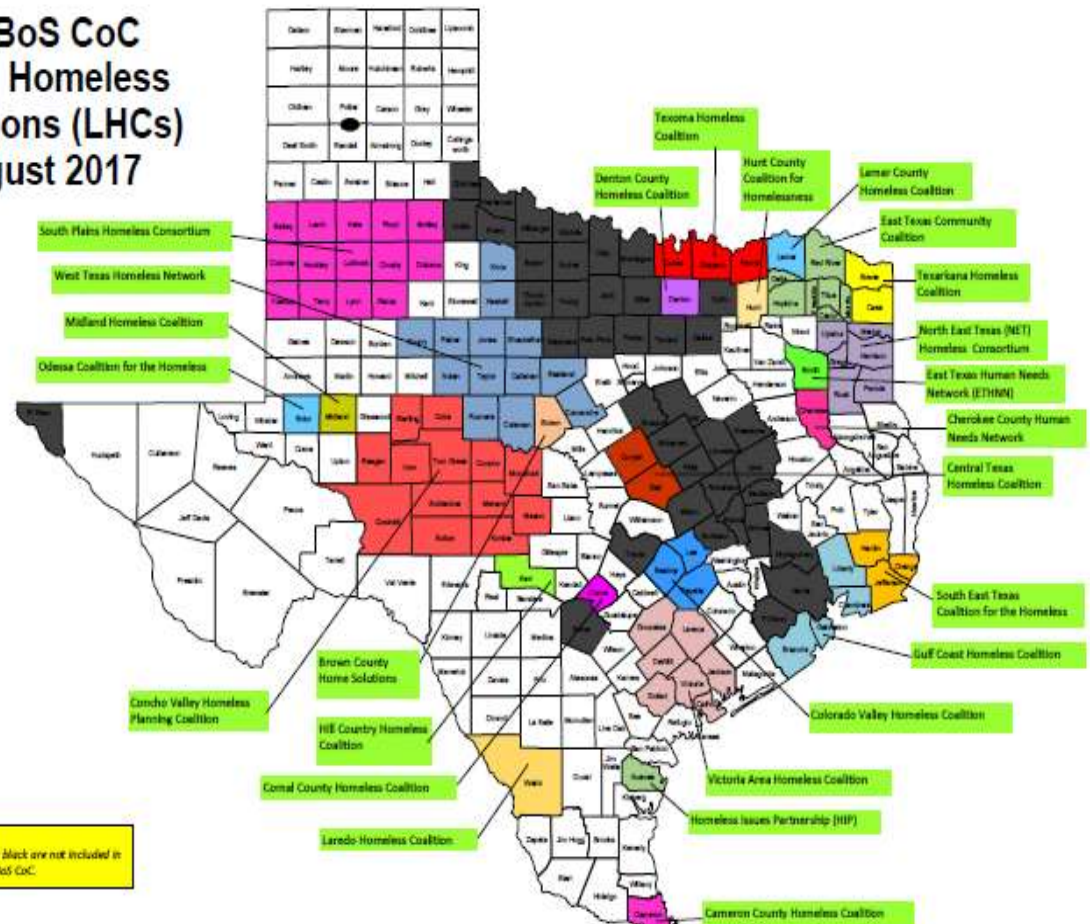
TX-500	San Antonio/Bexar County CoC
TX-503	Austin/Travis County CoC
TX-600	Dallas City & County, Irving CoC
TX-601	Fort Worth, Arlington/Tarrant County CoC
TX-603	El Paso City & County CoC
TX-604	Waco/McLennan County CoC
TX-607	Texas Balance of State CoC
TX-611	Amarillo CoC
TX-624	Wichita Falls/Wise, Palo Pinto, Wichita, Archer Counties CoC
TX-700	Houston, Pasadena/Harris, Fort Bend Counties CoC
TX-701	Bryan, College Station/Brazos Valley CoC

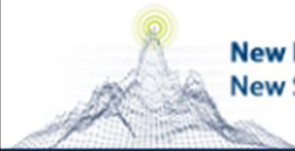


Community Profile: Texas – TX BoS CoC

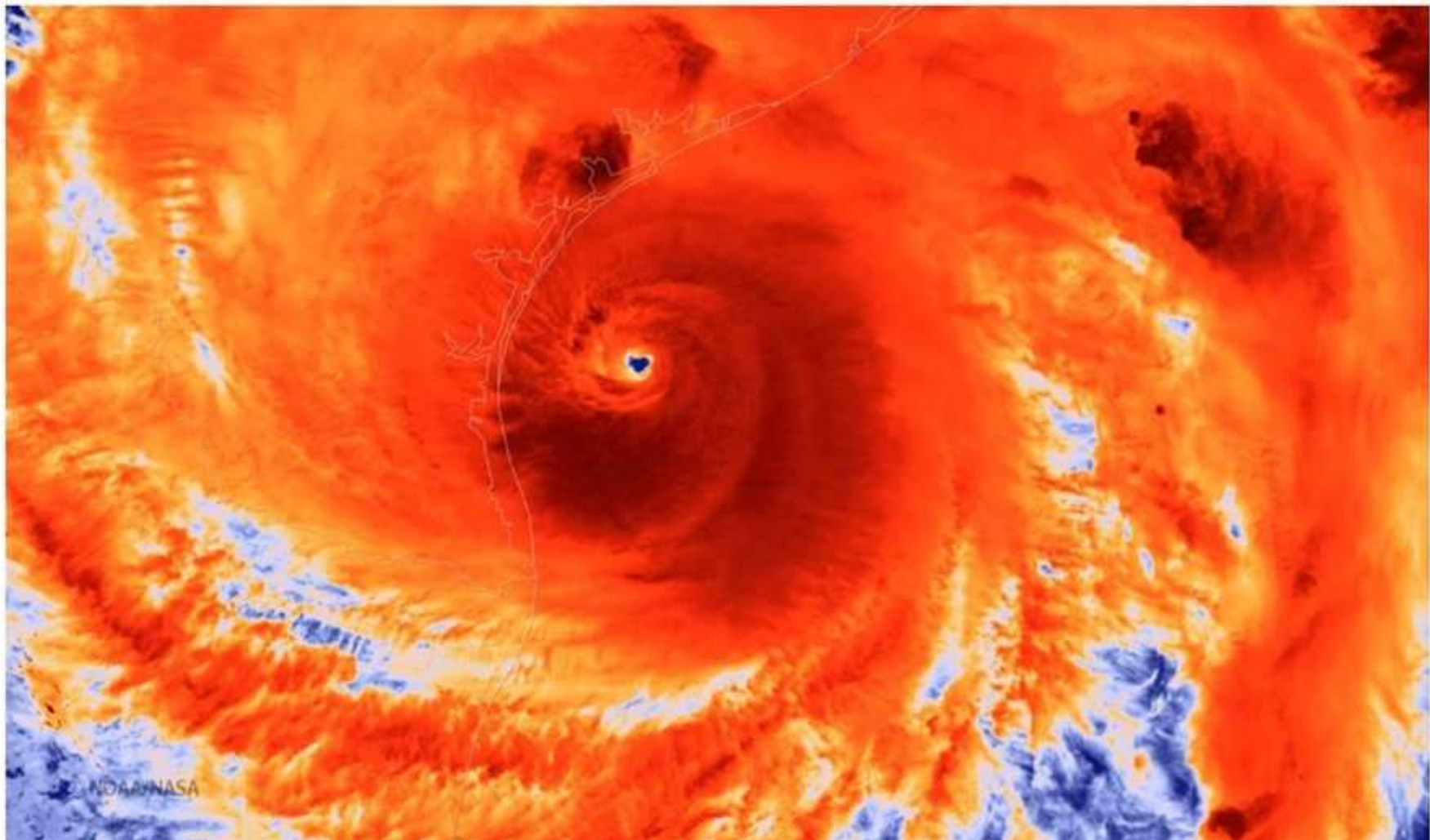
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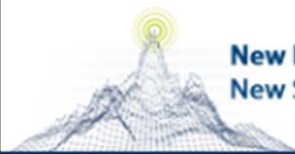
TX BoS CoC Local Homeless Coalitions (LHCs) August 2017





Hurricane Harvey



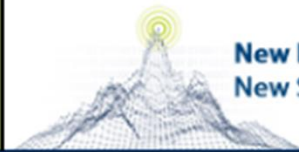


Hurricane Harvey

Widespread Devastation

- \$125 billion in damage
- An estimated 13 million people were affected
- Nearly 135,000 homes damaged or destroyed
- The death toll is at 88





Hurricane Harvey

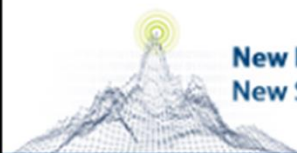
FEMA response by the numbers (Below is a table provided by FEMA with the number of individuals who applied for assistance and the status of their applications, including the number of people denied assistance and the reasons for denial, by state. For more detail, see the attached document.)

4332-TX As of 2/9/18

TSA-Hotel Summary

State	Current Hotels	Applicants Currently Checked In	Current Rooms Occupied
TX	1,023	8,822	10,229
LA	70	153	169
OK	2	2	2
MS	1	1	1
TN	1	1	1
Totals:	1,097	8,979	10,402





Hurricane Harvey

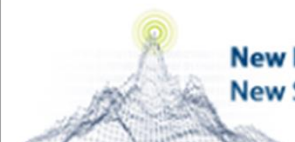
FEMA

Texas

By the Numbers: (as of 3/28)

- o 371,914 Individual Assistance (IA) applications approved*
- o \$1,585,955,642 Individual & Household Program (IHP) approved*
- o \$1,199,520,689 Housing Assistance (HA) approved*
- o \$386,434,953 Other Needs Assistance (ONA) approved*
- o \$633,026,626 Total Public Assistance Grants (PA) obligated**





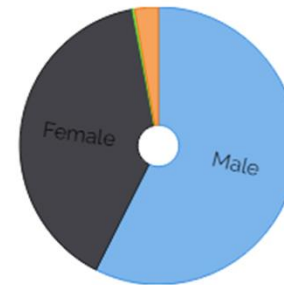
2018 PIT Results

Total Responses



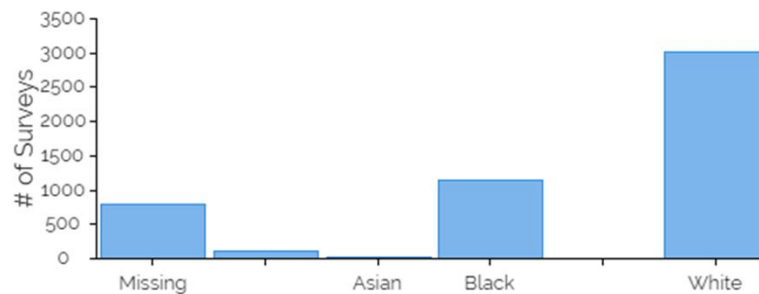
5014

Gender

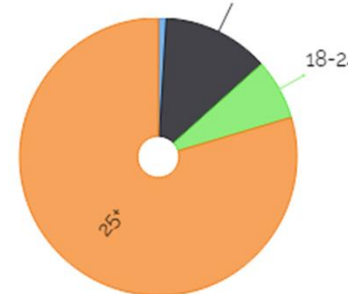


Gender	#
Male	2879
Female	1985
Other	13
Unknown	137

Race



Age



Age	#
Unknown	47
Under 18	623
18-24	354
25+	3990

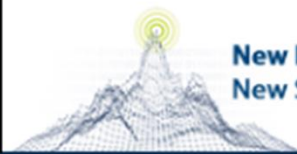
Users Breakdown

User ↑	#
Thomas,Lori	7
Adams ,Daphne	1
Adamson ,Cheryl	6
Adindu,Makachi	2
Adkins ,Lori	2

Vet Status



Vet Status	#
Veteran	330
Non-Veteran	4684



Measuring the Impact

Sleeping on the streets: Volunteers help count, survey Houston-area homeless

By Alyson Ward Updated 12:19 pm, Wednesday, January 24, 2018

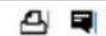
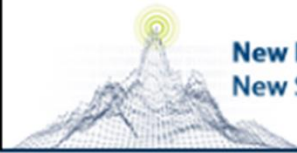


Photo: Godofredo A. Vasquez, Houston Chronicle



Questions added for the PIT:

- Are you homeless as a result of Hurricane Harvey?
- Where were you living when you became homeless this time?



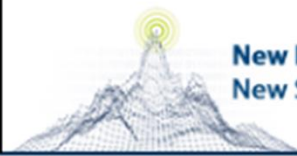
Impact of the Hurricane on the Homeless System

Evacuees Counted: **401**

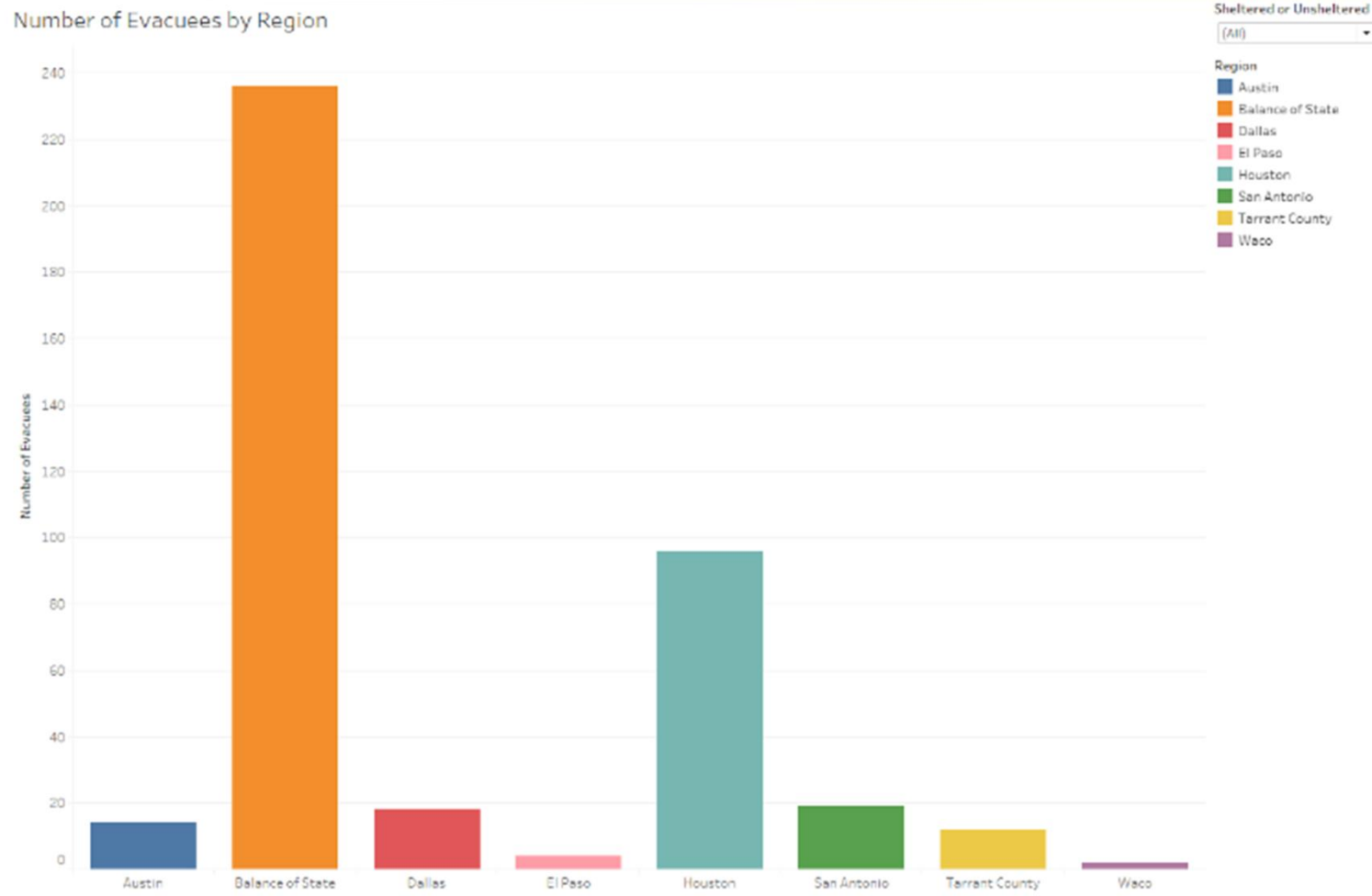
4.26% of Count

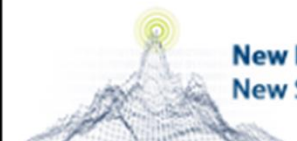
Unsheltered Weighting Factor: **1.883**

Estimated Total Evacuees: **755.2**



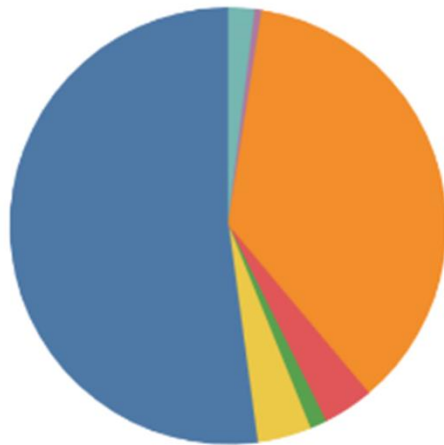
Impact of the Hurricane on the Homeless System





Impact of the Hurricane on the Homeless System

Race



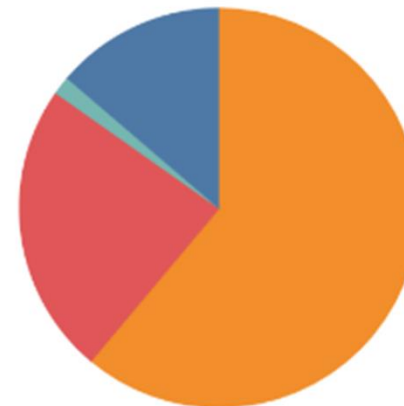
Census Race



Race

- American Indian or Alaskan Nat...
- Asian
- Black or African American
- Multiple Races
- Other Race
- Unknown Race
- White

Ethnicity



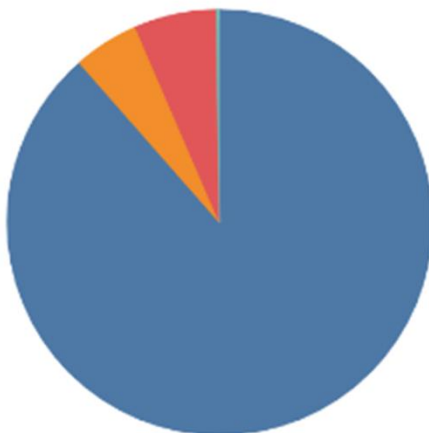
Census Ethnicity



Ethnicity

- Not Hispanic or Latino
- Hispanic or Latino
- Client Does Not Know
- Data Not Collected

Age



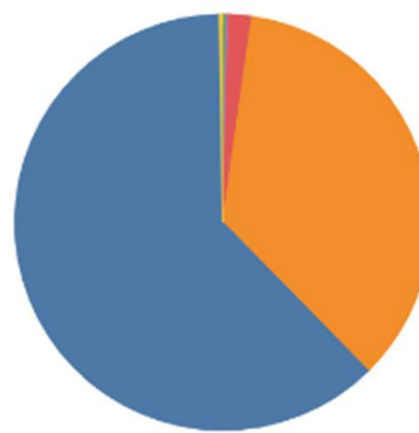
Census Age



Age

- Age 25+
- Age 18 to 24
- Under 18
- Unknown Age

Gender

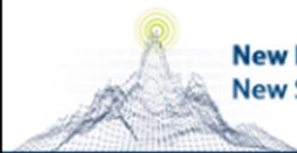


Census Gender

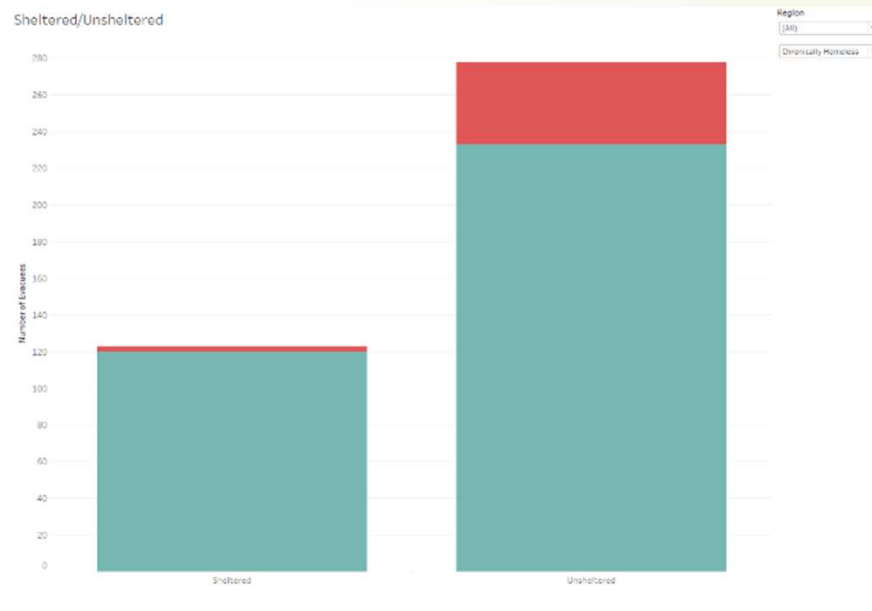


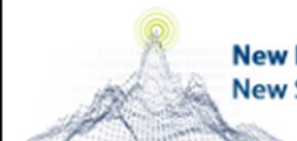
Gender

- Client Does Not Know
- Client Refused
- Data Not Collected
- Female
- Male
- Transgender Male



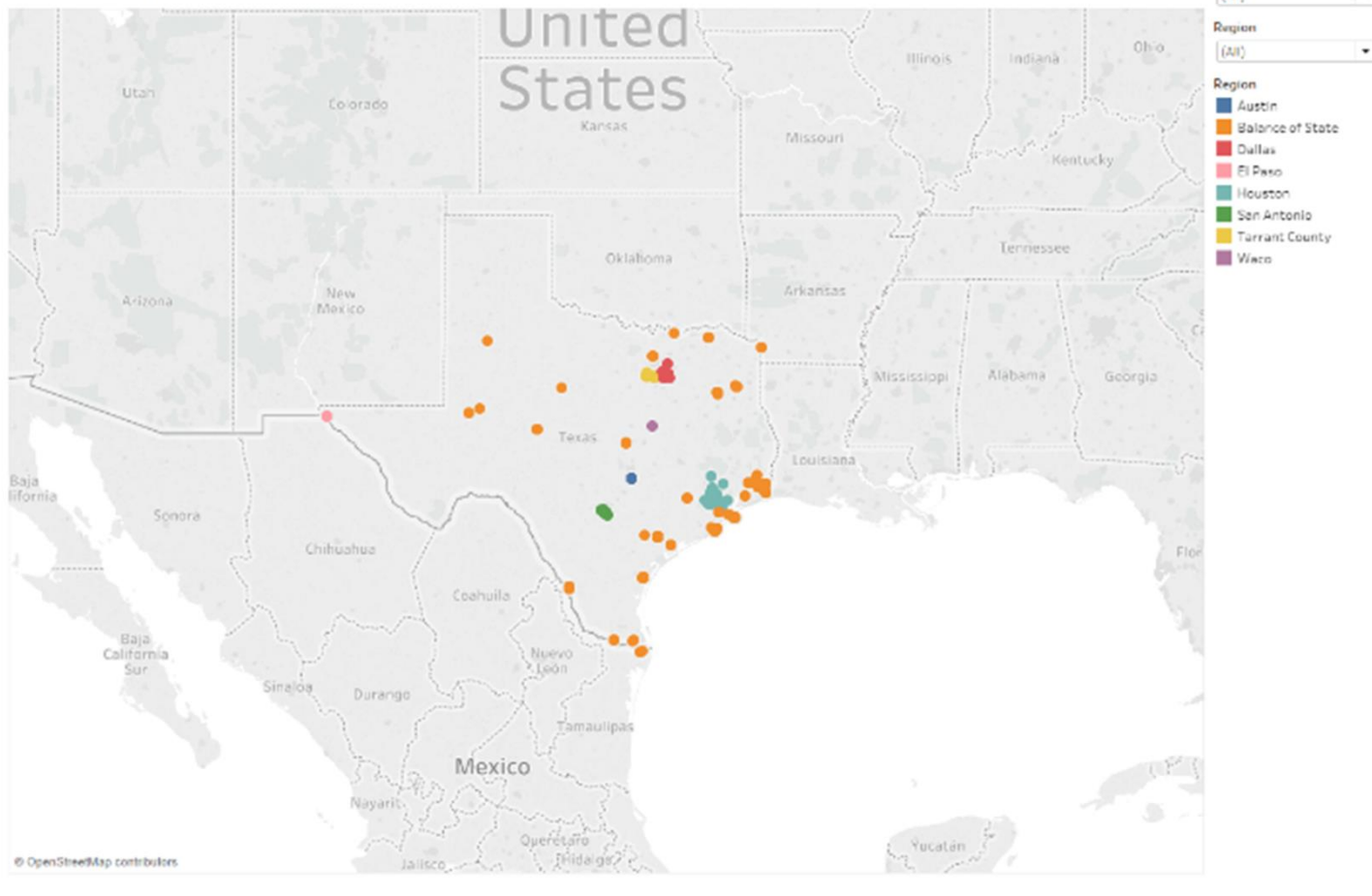
Impact of the Hurricane on the Homeless System

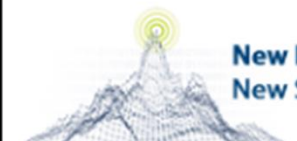




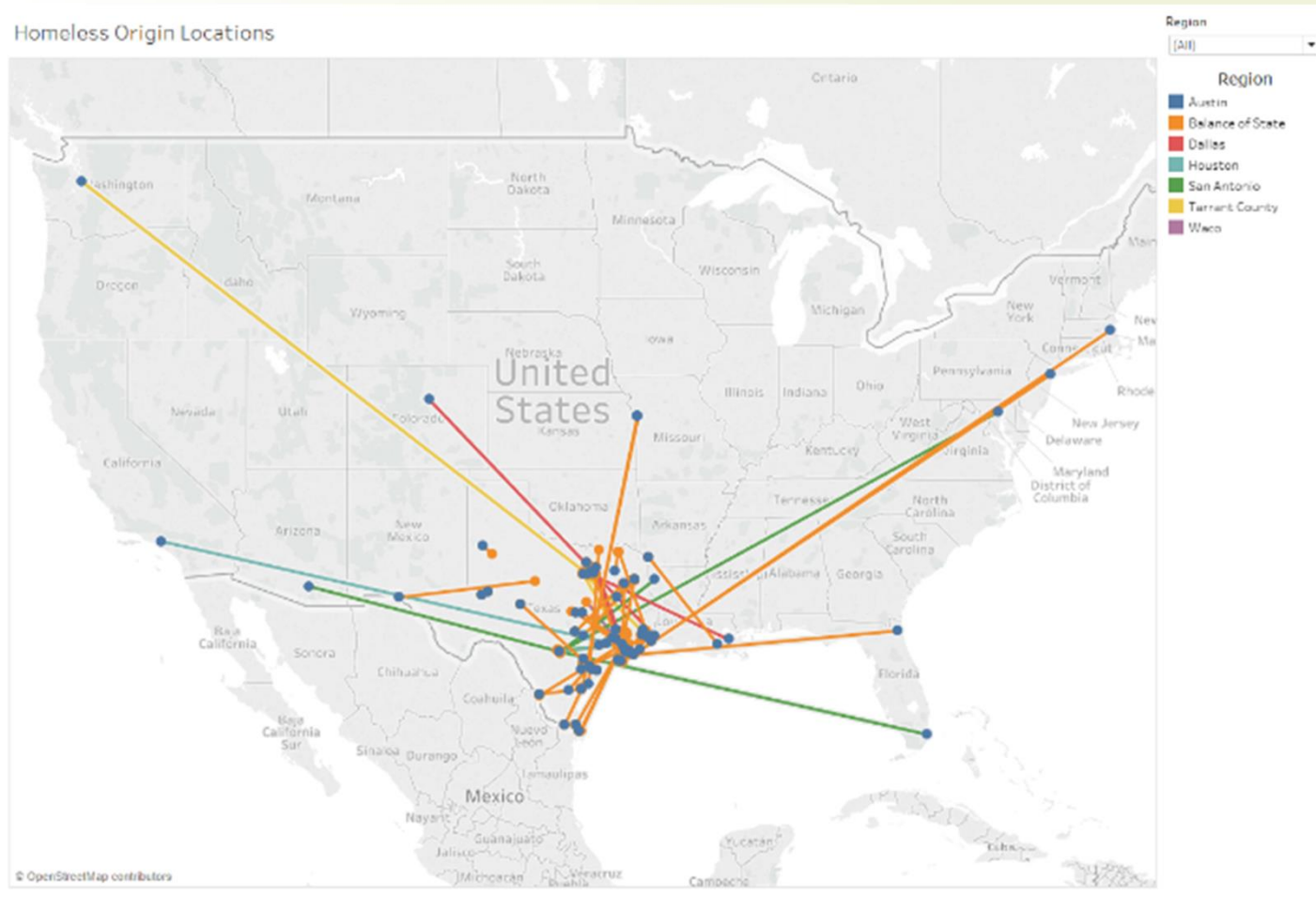
Impact of the Hurricane on the Homeless System

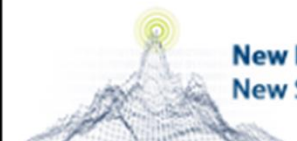
Map of Harvey Evacuees





Impact of the Hurricane on the Homeless System





Next Steps – Using data for preparedness, response, recovery

- PIT data collected from Evacuees will be used inform GLO of needs to address under CDBG-DR action plan.
- Data collected through this effort has sparked renewed interest in creating a data warehouse.
- Data warehouse would help improved speed and efficiency of disaster response.
- Data collection results and planning will aid in the creation of a Disaster Housing Strategy.
- Better outcomes for evacuees and for affected communities will be realized with greater access to data – efforts like this will get us there.