

2019 Spring Conference

Nashville, TN April 15-17, 2019

Estimating the Known Unknown: Combining HMIS and PIT Data for Better Estimates of Your Homeless Population

Dr. Christopher Weare, Sacramento Steps Forward



Increasing Capacity & Building Connections: Bridging to the Future

Point-in-Time Homeless Counts

- Major advance in our understanding of the scope and characteristics to the population of people experiencing homelessness
- Central tool in policy making

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Point-in-Time Homeless Counts

Advantages

- Attempts to capture <u>all</u> people experiencing homelessness
- Compares populations who are/are not receiving services

Point-in-Time Homeless Counts

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- Attempts to capture <u>all</u> people experiencing homelessness
- Compares populations who are/are not receiving services

Disadvantages

- Infrequent
- Expensive
- Only a one-day count
- Inconsistent methodologies
- Evidence of undercounts





HMIS Homeless Services Data

Advantages

- Readily available
- Year-round
- More inclusive of short-term homeless
- Rich detail on demographics and service histories
- More consistent from COC to COC

Disadvantages

- Only includes individuals who engage with services
- Limited by service capacity

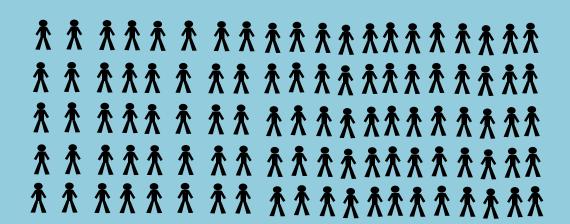
PIT data is not sufficient in and of itself to [understand the scale of the need for homelessness services] and should be augmented with other sources of data and methodologies that can help project risks and needs.

(USICH, Navigating Homelessness and Housing Needs Data, March 2019)





Unsheltered Homeless Population (100 individuals)



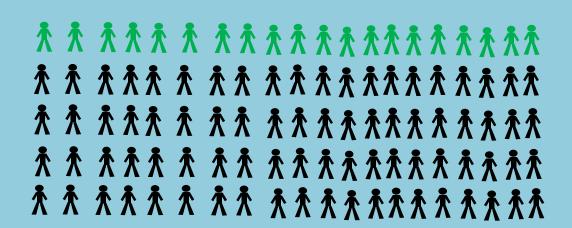


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HMIS Data

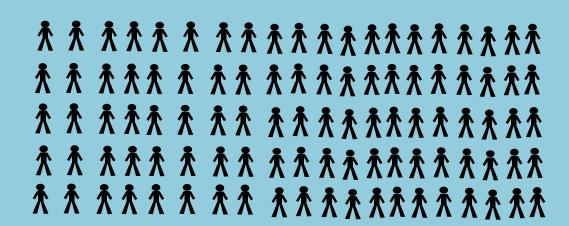
Street Outreach Programs Working with 20 Unsheltered Clients







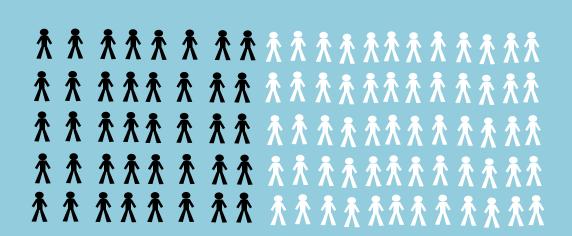
Bi-annual PIT Count Night Arrives







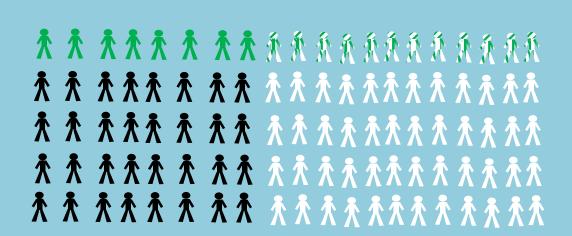
With Best Efforts PIT Identifies 60 Unsheltered Individuals







What We Know From Street Outreach & PIT







What We Know From Street Outreach & PIT



Street Outreach: 20

PIT: 60

Street Outreach + PIT: 12





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What We Know From Street Outreach & PIT

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Combining this Information

Street Outreach: 20

PIT: 60

Street Outreach + PIT: 12

% of SO in PIT = 12/60 = 20%



So, our best guess is that the SO enrollees represent 20% of total homeless population

Sponsored by the National Human Services Data Consortiun

Estimating Total Homeless Population

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If Street Outreach Enrollees are 20% of population:

Total Population * 20% = Street Outreach

Street Outreach / .2 = Total Population

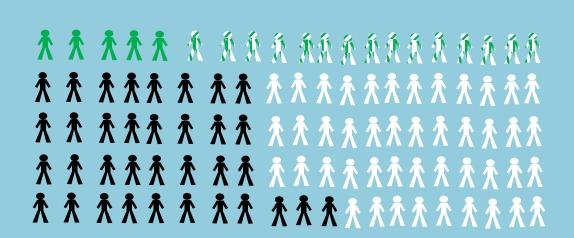
20/.2 = 100

100 is best estimate of total homeless Population





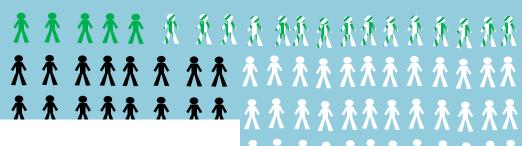
Method May Not Work That Perfectly







Method May Not Work That Perfectly



Street Outreach: 20

PIT: 60

Street Outreach + PIT: 15





Method May Not Work That Perfectly

Street Outreach: 20

PIT: 60

Street Outreach + PIT: 15

SO Enrollees are 15/60 = 25% of population:

Total Population * 25% = Street Outreach

Street Outreach / .25 = Total Population

20/.167 = 80

80 is best estimate of total homeless Population

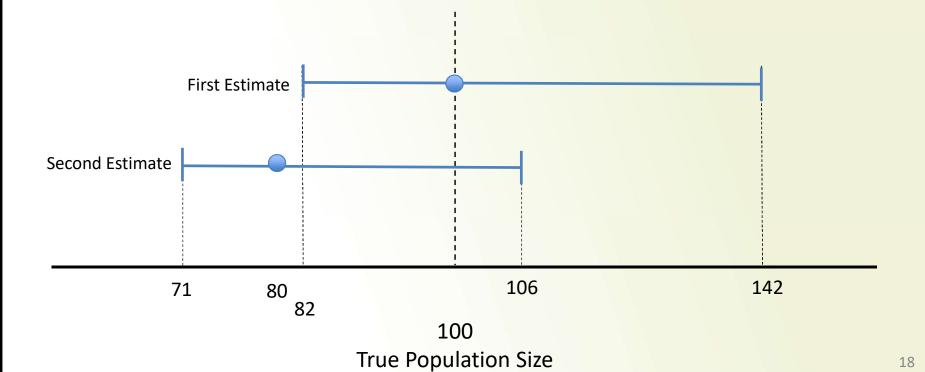




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Confidence Intervals of Estimates



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Using Method to Verify PIT Count

- Verify that clients in Street Outreach Programs are literally homeless on the PIT Count night
- Gather minimal information in PIT survey to de-duplicate individuals
 - First two letters of first and last name
 - Month and day of birth
- Find number of clients on three lists
 - A. Street Outreach enrollees verified to be literally homeless
 - B. PIT Count surveys that include deduplication data
 - C. Clients on Both Lists
- Total homeless population estimate = $\frac{A*B}{C}$



More Advanced Uses: Real-time Estimates



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ed by the National Human Services Data Consortium

More Advanced Uses: Example

- Last 3 months of 2018
 - 100 people exit to a place not meant for human habitation
- First 3 months of 2019
 - 250 literally homeless people enroll in programs
- Of the 250 enrollees, 20 had exited in 2018
- Estimate of total homeless population: $\frac{100*250}{20} = \frac{2500}{20} = 2500$

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National

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Summary

- Combining PIT and HMIS Data overcomes limitations of each data source used in isolation
- Combining data to verify PIT counts is straight forward
 - Require advanced planning
 - But, implementation is simple
- Use of just HMIS data to estimate homeless population is promising but requires further work