

#### Strategies for Improving Data Quality on Your APR & CAPER

June 2018



#### Purpose of Today's Presentation

- Understand the ways that data quality impacts the APR & CAPER
- Review sample data quality issues and their solutions

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• Learn how CoCs and ESG recipients can leverage data quality improvements in community planning and evaluation efforts

#### Overview

- Audience for this training
- What is Data Quality?

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- Data quality impacts to APR & CAPER
  - Examples of issues and resolutions
- Leveraging data quality improvements locally
- Next steps/additional trainings

# Audience

- This training is targeted towards:
  - CoC Staff and Collaborative Applicants
  - CoC Program Recipients
  - ESG Program Recipients and Subrecipients
- This training may also be of benefit to:
  - HMIS Leads/System Admins
  - HMIS Vendors

This training has a prerequisite: Intro to the APR and CAPER



# What is Data Quality?

- Culture Shift Time: Data are exported from HMIS and uploaded directly into Sage! You can't "fix" your data anywhere else but inside your HMIS!
- Data Quality is defined as
  - Completeness known and documented (includes coverage & utilization)
  - Accuracy real and verifiably true
  - Timeliness available when needed
  - Consistency similar over time

# Why does Data Quality matter?

- Data Quality matters because
  - Anecdotal evidence is no longer good enough funders need proof
  - Limited funding and greater community need means projects have to compete for funding and be more efficient with their hardearned dollars
  - Provable results and evidence of best practices are critical funding criteria

Data quality means integrity!



#### Data Quality Impacts to APR & CAPER



# Project Types

Accuracy

- Data related to project type is necessary to identify corresponding data collection requirements and for reporting purposes.
- Your ESG or CoC funding is designated for specific project type(s)
- Each funder's HMIS Program Manual describes specific project type information for each funded component
- If project type(s) from uploaded data don't match the Sage information regarding funded components, uploads may be returned as unsubmitted

### **Operating Start and End Dates**

Accuracy

- Each APR upload pertains to the operating year of the funded grant
- Each CAPER upload pertains to the recipient's program year and captures aggregate data associated with all active grants
- For APRs: Grant extensions change the operating year end dates!
- Each HMIS software vendor may have particular rules about how to set *report filters* appropriately to ensure the correct *operating start and end dates* match the data being exported from HMIS
- Work with your HMIS Leads and/or HMIS vendors to ensure your upload contains data relevant to the operating year on which you are reporting



# Validation Rules

Accuracy

- When possible, Sage will compare the total persons (or households or adults or children or stayers or leavers) from *each question* to the totals reported in Q5
- If any of the totals from a Question that *logically should* match don't match with Q5 the upload will be rejected
- This is mostly a programming issue for HMIS Leads/Vendors to be aware of, but it can help troubleshoot rejected uploads and improve data quality overall
- All validation rules can be found in the Sage Guidebooks for each report and in the programming specifications



# Data Quality Framework

Completeness

- Provides a percentage rate of error of all data compared to certain values within the data:
  - "Client doesn't know"
  - "Client refused"
  - "Data Not Collected"
  - "Other"
  - NULL (blank) values
  - Data validation rules broken (i.e.: SSNs, Relation to HOH, etc.)

Timeliness

# Impacts of Missing and Unknown Values

Completeness

- No error rate threshold at this time
- The higher the percentage of errors, the worse it is considered

   higher rates of errors verge on potentially unusable data for
   HUD
- When in doubt, enter an AAQ to ask HUD for the best selection if it is possible to choose something other than "Other."

 A small error rate is expected – nobody will be perfect, but it doesn't hurt to try!



# Impacts of Missing and Unknown Values

Completeness

- Missing and Unknown values jeopardize your special population data, too!
  - Missing/Unknown in 3.917 means clients can't be counted as "Chronically Homeless"
  - Missing/Unknown in Date of Birth means clients can't be counted as "Youth"
  - Missing/Unknown in Veteran Status means clients can't be counted as "Veterans"



#### Annual Assessments

Consistency

Timeliness

- Data Quality Q4 should not count an error if the HH member isn't in the project upon the anniversary date of the HOH.
- Discrepancies between date conducted and date entered/required
- Q20b "Data Not Collected
- Remember the ESG HP program has a 3 month re-evaluation requirement



# **Special Populations**

Completeness

- HUD has recently released the <u>Client Level System Use and Length</u> of <u>Time Homeless Report</u> which can help provide more accurate CH reporting
- The SQUARES database can help you validate Veteran Status as can partnering locally with Veteran's Administration services like SSVF, GDP, and HCHV as well as the HUD-VASH program
- Are there YHDP grantees in your community? RHY grantees? Are there partnership opportunities to ensure accurate counts of youth served?



### **Volume Metrics**

Accuracy

Consistency

- Longitudinally are you serving generally the same amount of people from one year to the next?
  - For example, run APR or CAPER for 2015, 2016, 2017 and see if your volume of clients entered, clients served, and/or clients exited has drastically changed
- Comparatively does the amount of money you spend align closely to the number of people you serve?
  - For example, \$200,000 annual budget and 300 people served means roughly \$600 per person. Is that reasonable for your area/costs expected? Has that changed over time?



#### Leveraging Data Quality Locally

- CAPER & APR data can be used for Performance Monitoring & Funding Decisions
- Use the Project Rating and Ranking tool during the CoC Competition
  - Adding a review of APR results by project to each competition cycle will create even more incentive to maintain a high level of quality in HMIS data
- Run your data at least monthly
  - A regular review of APR and CAPER data will ensure that when it comes time to submit you will spend less time cleaning up
  - Use the Sage test upload feature
- Create a Data Quality Monitoring Plan
  - Across multiple projects and fund sources, it is important to use data quality as an impetus for regularly monitoring HMIS data collection protocols



#### Key Resources

Sage Guidance: <a href="https://www.hudexchange.info/programs/sage/">https://www.hudexchange.info/programs/sage/</a>

**CoC APR Guidebook**:

https://www.hudexchange.info/resources/documents/sage-coc-apr-

guidebook-for-coc-grant-funded-programs.pdf

**ESG CAPER Guidebook:** 

https://www.hudexchange.info/resources/documents/Sage-ESG-CAPER-

<u>Guidebook-for-ESG-funded-Programs.pdf</u>

Ask a Question Help Desk: <a href="https://www.hudexchange.info/program-">https://www.hudexchange.info/program-</a>

support/my-question/

