

Using Surveys to Help Evaluate and Improve Programs and Inform Decision Making

Hartford Foundation for Public Giving - Nonprofit Support Program

Dr. Elena Tamanas Ragusa

Mini-Series Overview

Session 1: Surveys

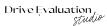
October 11, 2024

Session 2:
"Off the Beaten
Path" Methods

November 1, 2024

Organizational homework

Individual consultations



How We Will Spend Our Time Together







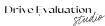


Designing surveys

Administering surveys

Analyzing & using survey data

Homework & next steps



To Maximize Your Experience



Be present and engaged.



Take part in activities, and take notes.



Make it your own.

To Conduct Evaluation



Specify learning and evaluation question(s)



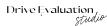
Develop an evaluation design



Collect and analyze data



Summarize, share, and use findings



Data Collection Methods



Interviews

One-on-one discussions with participants to understand their experiences and perspectives.



Record review aka document analysis

Reviewing existing internal or external documents, records, and artifacts to gather context.



Focus groups

Facilitated discussions with a small group of participants to uncover insights.



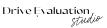
Surveys

A series of structured questions, often with discrete choices



Observations

Watching participants to understand behaviors or characteristics of a setting.



Considerations Before Data Collection

- Who will you collect data about?
- How will you use the information?
- How do we make this as easy as possible for the participants?

- What instruments do you need?
- Are there any existing or pretested instruments that make sense here?



Q

Survey Research and Design

Time For A Poll

Do you currently use surveys in any of your work? This can include surveys of staff, program participants, key partners, stakeholders, etc.

- Yes
- No
- Sort of (explain in chat)
- Unsure



Survey Research



What is it?

People answering questions, often about themselves



What can it assess?

Behaviors, attitudes, perceptions, and beliefs

Changes after events or over time
Facts and learned information
Demographics



Why do it?

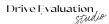
Get first-hand information

Cost-effective

Broad audience

Can ask about sensitive items

Can be conducted in multiple ways



Designing Surveys

1 Define the objective

Stick to what you want to know, be clear about how you will use each set of responses, and avoid scope creep.

2 Consider overall length and burden

Closed vs. Open-ended items

Number of responses

Rating scales

Required vs. optional items



3 Avoid common pitfalls

Keep questions simple and clear

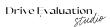
Avoid **double-barreled** questions

Avoid **loaded or leading** questions

Avoid **negative wording** where possible

Ensure answer options are mutually exclusive and exhaustive

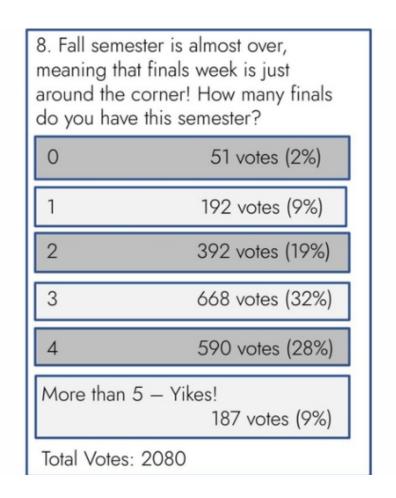
Look for yea-saying or nay-saying



What's the Problem?

Negative wording, simplicity, double-barreled, loaded/leading,not exclusive/exhaustive, OK

- 1 | Managers should not be required to track days off. (1 strongly disagree, 5 strongly agree)
- 2 | I enjoy resting and spending time with friends on weekends.
- Do you support the legislation that would unfairly tax hardworking farmers?
- 4 I would describe myself as attractive and intelligent.
- Do you believe the relationship between cell phone behavior and consumption of fast food is orthogonal?
- 6 Restaurants should not have to be inspected each month.
- 7 | Are you in favor of the boss' whim to cut lunchtime down to only 30 minutes?



Multiple Choice

One Response vs. Multiple Response (CATA)

Do you like ice cream?					
Yes					
O No					
I'm not sure					
Directions read:					
Select (circle, fill in, mark) one.					
Provide instructions unless they are very obvious.					

What flavors of ice cream do you like? Please choose all that apply.						
Vanilla						
Chocolate						
Strawberry						
Raspberry	Multiple response items may					
Lemon	create analysis challenges. Úse					
Mango	thoughtfully.					
Pistachio						
Almond						
Hazelnut						
Other (please specif	y)					

Matrix of Choices

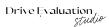
One answer per row versus multi-answer per row

How often do you eat the following types of ice cream?

	Daily	Weekly	Monthly	Yearly	Never (N/A)
Traditional ice cream	\bigcirc				
Gelato					
Sorbet	\bigcirc	\bigcirc	\bigcirc		

My family likes the following flavors of ice cream:

	Vanilla	Chocolate	Fruit or berry flavors	Nut flavors
Me				
My Spouse				
My Children				



Likert/Rating Scale

Can be in a table or separate (multiple choice style) items

	Not at all important	Slightly important	Somewhat important	Moderately important	Extremely important
Quality of ingredients	0	0	0	0	0
Flavor	0	0	0	0	0
Texture	0	0	0	0	0
Brand	0	0	0	0	0



Comment/Essay Box/Open-ended

Requires qualitative (thematic) analysis. Ensure you have an analysis plan for these.

Please describe yo	ur first experience with ice cream.

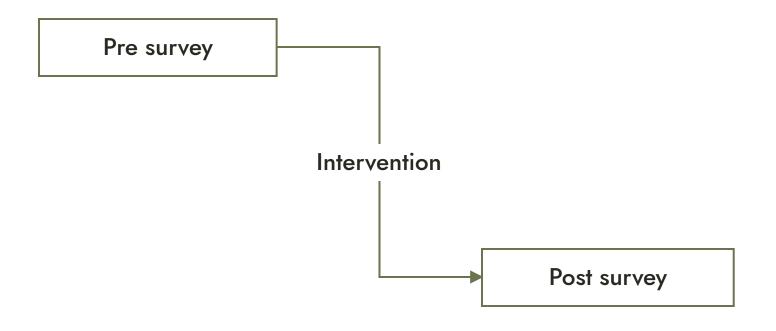
What is the first wo	ord that comes to mind when you think about ice cream?
Please list your to	p three favorite brands of ice cream.
-	
One	
Two	
Three	

Numerical Textboxes

Consider hard codes for analysis.
In this example, that might be 1/month, at least 6 times per year, etc.

How many times	How many times per year do you buy the following flavors of ice cream?							
Vanilla								
Chocolate								
Strawberry								
Pistachio								

Pre and Post Surveys



Effective Uses of Pre/Post

- 1. Brief, well-constructed surveys with specific items linked to intervention
- 2. Careful mix of attitute, belief, and behavior items
 - 3. Set targets (pre, post, change) (POST) (PRE) = CHANGE

If matching, you need a unique identifier.



Pre-Post Survey Alternatives

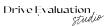
- 1 | Post Only (compare results to targets)
- 2 | Retrospective Survey (aka Post-Pre-Post) that includes two questions for each item:
 - Ask about behavior before
 - Ask about behavior after

Percentage of families who agree or strongly agree that...

Our family has sufficient food, shelter, and basic necessities.

BEFORE: 63%
NOW: 83%

N=167



Constructing & Finalizing Surveys

Consider sequence and flow

Lead in with easy questions, tough stuff in the middle, exit with easy questions

Most important and interesting questions earlier in the survey

Group similar questions together ("buckets")

Consider order effect

- Keep same number of points across scales if possible
- Think through demographics

Only questions being used to funnel a participant to a track should be at the beginning Those for classification purposes during analysis should be at the end Ensure answer options are exhaustive

- Provide clear instructions throughout
- Pilot with a small group

Don't forget to set & clear the table

Introduction should include:

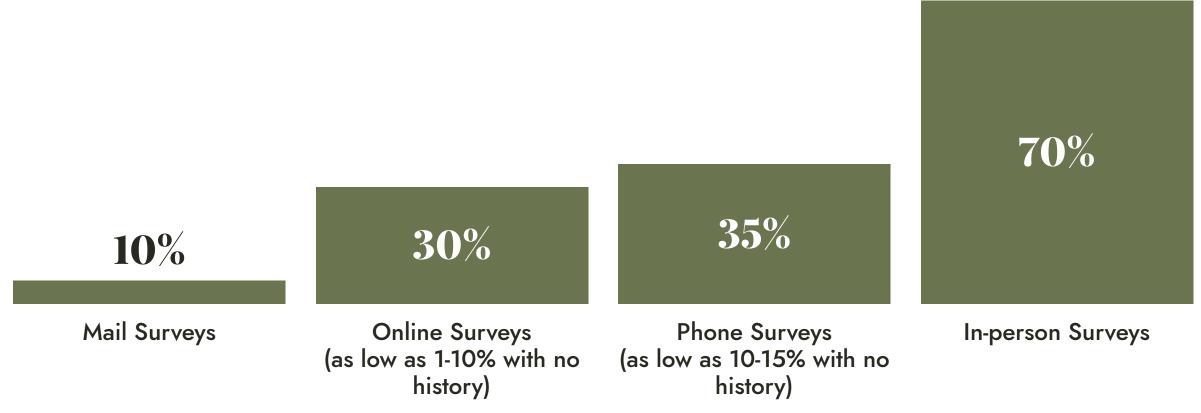
- Survey length
- Intended use
- Confidentiality vs anonymity
- Contact person for questions

Closing should include:

- Thank you
- Next steps if there's an incentive



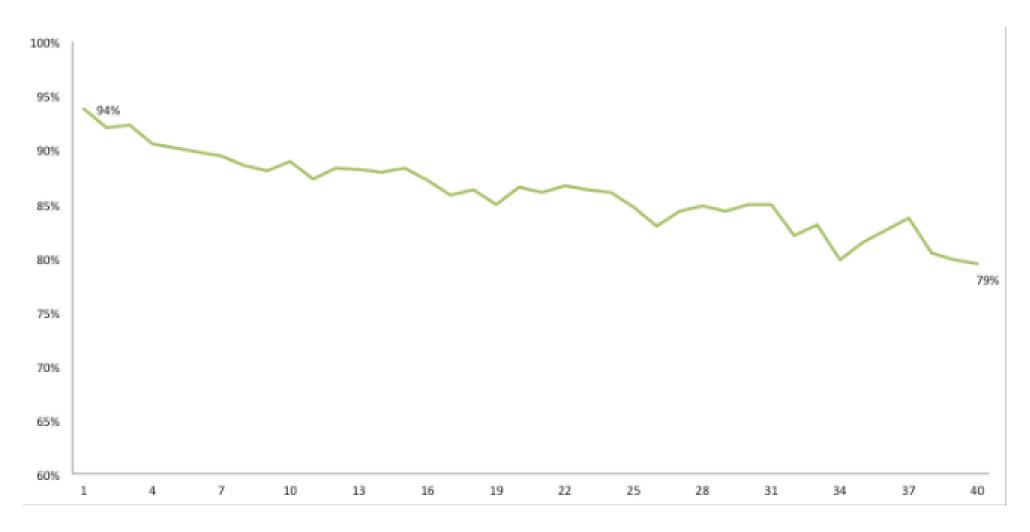
Survey Response Rate by Type of Survey



These data vary widely. These are means (averages) based on studies conducted by UConn and SurveyMonkey.

Survey Length and Completion Rate

The chance of someone completing your survey is directly related to how many questions you ask.



Sampling Techniques



Simple Random Sampling

Each element in the population has an equal chance of being selected, providing an unbiased representation of the population.



Stratified Sampling

The population is divided into homogeneous subgroups (strata), and a random sample is taken from <u>each</u> stratum, ensuring representation of different characteristics.



Cluster Sampling

The population is divided into mutually exclusive and exhaustive groups (clusters), and a random sample of clusters is selected for data collection.



Selective Sampling

Non-probability method.
Participants are selected based on specific characteristics or criteria relevant to the objectives.

These sampling methods provide different approaches to collecting data, each with its own strengths and applications depending on the objectives and the population.

Tips for Increasing Survey Response Rates

Keep it Brief

Design concise surveys that are easy and quick for respondents to complete.

Offer Incentives

Provide small rewards or prizes to encourage participation and boost response rates.

Personalize Outreach

Tailor email subject lines, messages, and communication to each individual respondent.

Emphasize Importance

Clearly communicate the value and purpose of the survey to motivate participation.

Optimize Timing

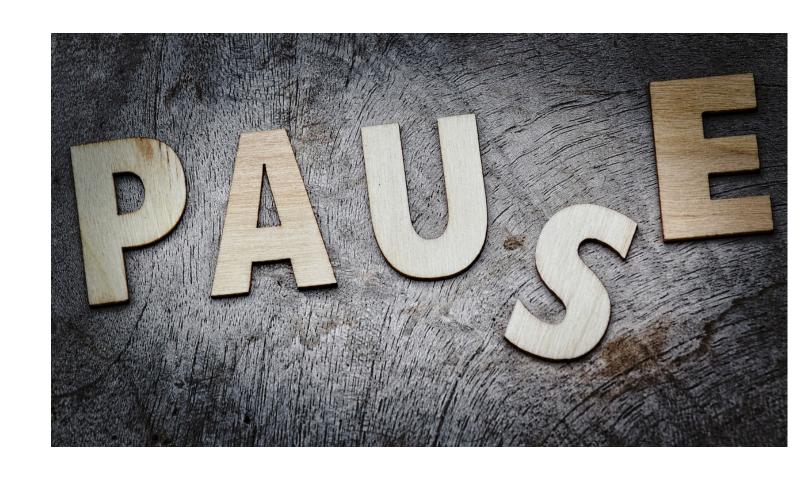
Send surveys at optimal times when respondents are more likely to engage.

Intercept When Possible

In-person surveys have a higher response rate than any other method. Ask people to respond when they are with you, and make it as easy as possible for them.

THAT WAS A LOT.

Take a break.



Time For A Poll

Have you ever analyzed quantitative data?

- Yes
- No
- Sort of (explain in chat)
- Unsure



One more thing

Plan Your Analysis In Advance

Develop your analysis plan **before** you administer your survey.

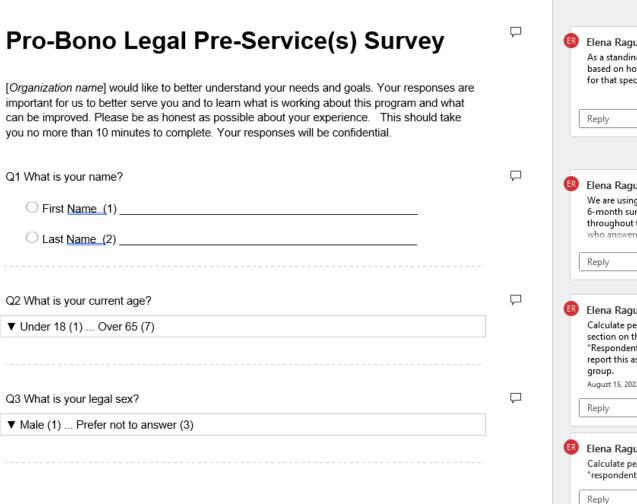
- How will data be coded and recoded?
- How will data be broken out (disaggregated)?
 Consider breakdown by characteristics, time, dosage
- How will missing data be handled?
- What calculations will be done for what items?
- How and when will comparisons be made?
- Will statistical testing be needed? Which tests and why?

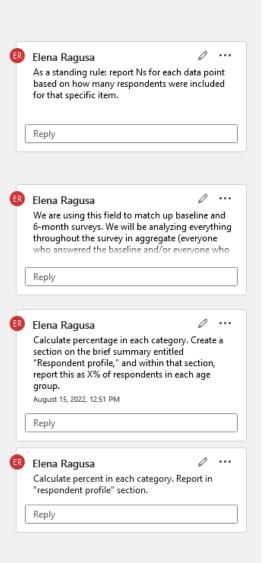
Most Common Quantitative Analyses

- <u>Frequencies</u>: How often something occurs as a count (e.g., 14 people like vanilla ice cream)
- <u>Percentages</u>: How often something occurs as a proportion of a total (e.g., 50% of people like vanilla ice cream)
 (FREQUENCY) / (TOTAL) * (100)
- Mean: Average
- Median: The middle value that appears in a sequence

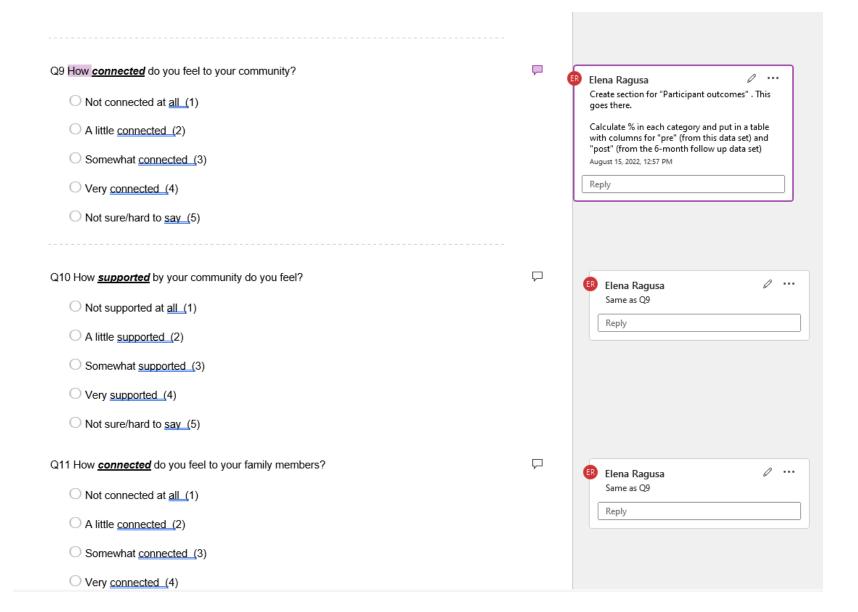
- Mode: The most frequently occurring value (e.g., ice cream flavor selected most frequently as the favorite)
- Distribution: The spread of values in a response set
- <u>Cross-tabulations</u>: The relationship between two or more variables (e.g., Of the 14 people who like vanilla ice cream, 10 are over the age of 60. The remaining 4 people are between 2 and 5 years old.)

Survey Analysis Plan Sample





Survey Analysis Plan Sample, continued



Characteristics of Effective Tables and Figures



Clarity

Tables and figures should have clear and concise labeling and formatting.



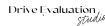
Consistency

Tables and figures should use consistent formatting, font styles, and units of measurement throughout the presentation.



Accessibility

Tables and figures should be designed with accessibility in mind, ensuring that they can be easily understood.



Survey Results: Table Example

I think the Lutz Children's Museum is important to the town of Manchester because it	Not Important		Extrem Importa				
Allows people of diverse backgrounds, with common interests, to interact with each other	1	2	3	4	5	6	7
Is an important partner with the local school districts	1	2	3	4	5	6	7
Provides the town with a place for those who wish to spend their leisure time enjoying imaginary play	1	2	3	4	5	6	7
Is a source of information on animals	1	2	3	4	5	6	7
Creates a feeling of community by displaying artifacts reflecting the history, tradition, and diversity of local people	1	2	3	4	5	6	7
Gives people an opportunity to learn about cultures they are less familiar with	1	2	3	4	5	6	7
Allows people to connect with others in the community	1	2	3	4	5	6	7
Is a contributor to the local economy because of the goods and services that it purchases	1	2	3	4	5	6	7
Is vital to the local economy because it attracts tourists from out of town who spend money in Manchester	1	2	3	4	5	6	7
Has events from which many local businesses can benefit	1	2	3	4	5	6	7

Survey Results: Table Example (Display)

Table 3: Top Five Reasons the Lutz Children's Museum is important to the town of Manchester

The Lutz Children's Museum
Is a source of information on animals
Is an important partner with the local school districts
Creates a feeling of community by displaying artifacts reflecting the history, tradition, and diversity of local people
Gives people an opportunity to learn about cultures they are less familiar with
Provides the town with a place for those who wish to spend their leisure time enjoying imaginary play

List developed based on aggregate ratings on a 7-point Likert scale of level of importance.

Table 4: Respondents who believe the Lutz Children's Museum is extremely important to the town of Manchester

The Lutz Children's Museum	% Responded "Very or Extremely" Important (n=X)
Is a source of information on animals	62%
Is an important partner with the local school districts	60%
Creates a feeling of community by displaying artifacts reflecting the history, tradition, and diversity of local people	55%
Gives people an opportunity to learn about cultures they are less familiar with	46%
Provides the town with a place for those who wish to spend their leisure time enjoying imaginary play	41%
Has events from which many local businesses can benefit	41%

Survey Results: Pre-Post Table Example

Pre-Survey

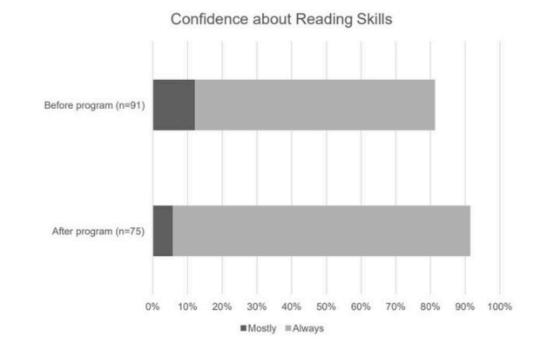
Aca	demic Skills	Strongly Disagree S		Strong	ly Agree	
		1 NO ② Never True	2 Not so True	3 MAYBE 2 Sometimes True	4 Mostly True	5 YES 3 Always True
1	I study hard to be successful in school.					
2	I feel confident about my reading skills.					
3	I feel confident about my math skills.					

Post-Survey

Aca	demic Skills	•	Strongly D	isagree .	Strong	ly Agree
		1 NO ② Never True	2 Not so True	3 MAYBE © Sometimes True	4 Mostly True	5 YES 5 Always True
1	I study hard to be successful in school.					
2	I feel confident about my reading skills.					
3	I feel confident about my math skills.					

Survey Results: Pre-Post Table Example (Display)

Question	Pre	Post	Change
Q1	20%	75%	+55
Q2	10%	50%	+40
Q3	29%	40%	+11



Tips for Choosing the Right Graph



When to use a Bar Graph

Use a bar graph to compare and contrast quantitative data across different categories or groups.



When to use a Line Graph

Use a line graph to visualize trends and changes in data over time.



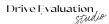
When to use a Pie Chart

Use a pie chart to display the proportional size or percentage of different parts of a whole.



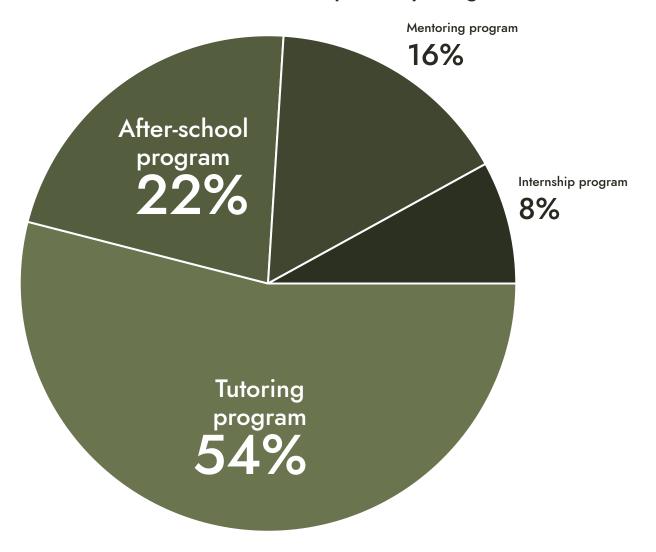
When to use a Scatter Plot

Use a scatter plot to identify relationships and correlations between two variables.

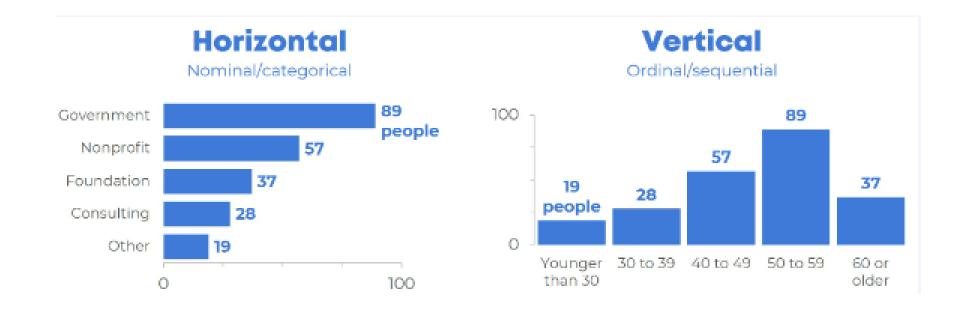


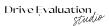
Pie Charts Show Proportions of a Whole

Breakdown of Our 500 Participants by Program



Bar Graphs Show Frequencies - Vertical & Horizontal

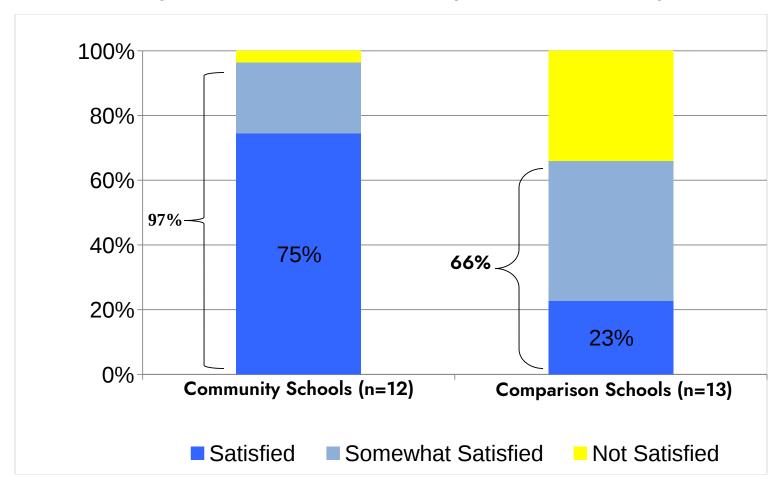




Source: Depict Data Studio

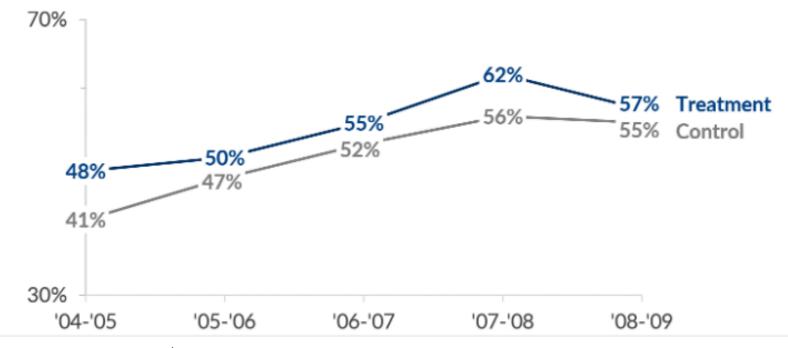
Stacked Bar Graphs Show Proportions

Figure 3: Survey Results: Percent of Principals Who are Satisfied with 6th Grade Literacy Achievement at Community Schools and Comparison Schools



Line Graphs Show Change Over Time

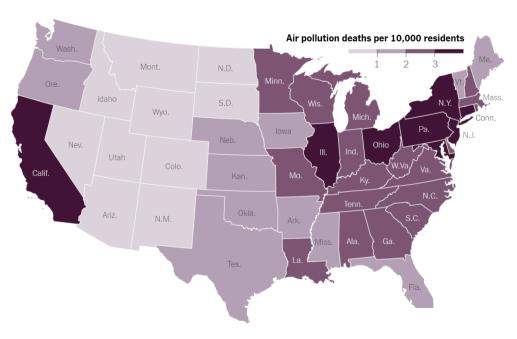
Figure 1: Percentage of Students Passing the Third Grade Reading Assessment in Years 1 thru 5



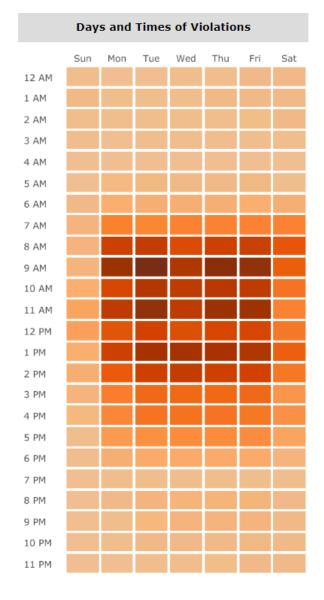
Source: Depict Data Studio

Maps and Other Displays

Next Time: Infographics!

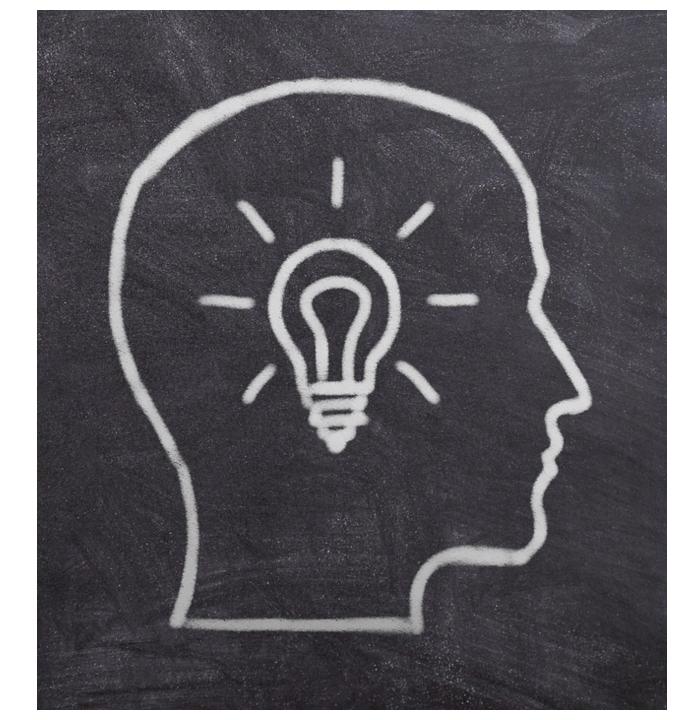








Activity



Reflection Using Evaluation Findings

"Now that we know _____, we will do _____."

Questions to ask:

What am I seeing that I already knew?

What is something new I learned?

What are some possible explanations for what I'm seeing?

What could/should we do differently as a result?

Possible steps to take:

Create a document of key findings; consider variations by stakeholder group

Share document(s) with stakeholders and have a sensemaking and action-oriented brainstorming discussion (strategize and plan)

Try a new strategy and then re-examine (measure and monitor)

Consider natural opportunities for communicating findings such as in regular meetings, events, and annual reports.

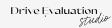


Evaluation Mini- Series Components

Today's Summary

Surveys are the most common data collection method for answering questions about people's experiences, attitudes, beliefs, behaviors, and knowledge. Ensure surveys are well-designed and that data are analyzed and used accurately and ethically.

1	Attend Session 1	2	Complete organizational homework	
3	Attend Session 2	4	Schedule 1:1 consultation	

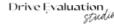


Homework

Part 1: Answer key survey planning questions.

Part 2: Design (or revise) your survey.

Part 3: Develop your analysis plan.



Hello, Evaluation Mini-series Participants!

This homework assignment has three parts. Work with others from your organization who attended the workshop to **complete it for your team before our next session on November 1,**2024. You can also invite others to work with you on this, even if they did not attend. Make sure

Part 1: Complete the items below to the best of your ability. This can be done for a new or existing survey.

to give them a good overview of the material as a starting point for the assignment.

Part 2: Design a survey with those answers in mind. Use the methods and best practices we discussed in our session. If you have an existing survey, review it and make notes for improvement.

Part 3: With a strong draft in place, design your survey analysis plan.

Note that working on your analysis plan might necessitate revisions to the survey, just as revisions to the survey may change questions to answers in part 1. This is normal! Remember that this is an iterative - sometimes messy - process.

Reference the session materials as needed, and email elena@driveevaluation.com with questions.

Name of organization	
Individuals working on this assignment	
Program/initiative for which you are designing a survey	

1



Thank you!

Elena Tamanas Ragusa, Psy.D. Drive Evaluation Studio

- @ elena@driveevaluation.com
- **856.869.3382**
- www.driveevaluation.com