How to stop bogus respondents who say they live on Pluto from taking your surveys

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RISE OF ONLINE RESEARCH





EVOLUTION OF RESPONDENT RECRUITMENT PRACTICES







EXAMINING THE SCOPE OF DATA QUALITY PROBLEMS



Online Sample Fraud: Causes, Costs, and Cures

Insights Association Town Hall

11 February 2022



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SCOPE OF DATA QUALITY PROBLEMS

Total Cleaning Removes 30-40% of Completes



Roughly 4 in 10 of all respondents who entered the survey did not complete it



Fraud/Dupes accounted for 4%-24% of completes depending on vendor



We also included 'trap' questions in the survey, and employed open-end analysis, mismatched answer and survey completion time analysis to identify additional questionable respondents



An additional 1 in 4 respondents failed trap q's, had open-end issues, and other inconsistencies that warranted removal

Disposition of Survey Completes



CASE Fraud Detection Study 2021



ONLINE DATA QUALITY

Online Panels in Social Science Research: Expanding sampling methods beyond Mechanical Turk

Behavior Research Methods, September 11, 2017

Jesse Chandler, Cheskie Rosenzweig, Aaron J. Moss, Jonathan Robinson, and Leib Litman

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Assessing the Risks to Online Polls From Bogus Respondents:

> Pew Research Center February 18, 2020

Courtney Kennedy, Nick Hatley, Arnold Lau, Andrew Mercer, Scott Keeter, Joshua Ferno, and Dorene Asare-Marfo Dirty Data: The Effects of Screening Respondents Who Provide Low-Quality Data in Survey Research

Journal of Business and Psychology, September 2, 2017

Justin A. DeSimone & P. D. Harms





SEMANTIC NETWORK MODEL LIBRARY

Goals:

- Scalability: thousands of instrument items are needed to prevent fraud
- Difficulty levels based on objective, quantifiable, and adjustable criteria
 - Difficulty quantified based on word frequency and threshold adjustment







	Question 1 of 4
	Customer is most associated with
	A ambassador
	B junior
	C drum
	D service
	Please select answer to continue
00:01	© 2021-2022 CloudResearch®. Sentry® من قبل US Patent No's 11.227.298 و 10.080.656 و 00:48 US Patent No's 11.227.298 من قبل US Patent No's 11.227.298 من 11.228 من 11.2
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B2B RECRUITMENT







CREATING BEHAVIORAL STANDARDS

BLOOD PRESSURE CATEGORY	SYSTOLIC (mm Hg)	DIASTOLIC (mm Hg)
Healthy	less than 120	and less than 80
Elevated	120–129	and less than 80
Stage 1 hypertension	130–139	or 80–89
Stage 2 hypertension	140 or higher	or 90 or higher
Hypertension crisis	over 180	or over 120





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THE QUESTIONS

Morbidity and Mortality Weekly Report

Knowledge and Practices Regarding Safe Household Cleaning and Disinfection for COVID-19 Prevention — United States, May 2020

Radhika Gharpure, DVM^{1,2}; Candis M. Hunter, PhD¹; Amy H. Schnall, MPH³; Catherine E. Barrett, PhD¹; Amy E. Kirby, PhD¹; Jasen Kunz, MPH¹; Kirsten Berling, MPH¹; Jeffrey W. Mercante, PhD¹; Jennifer L. Murphy, PhD¹; Amanda G. Garcia-Williams, PhD¹

On June 5, 2020, this report was posted as an MMWR Early Release on the MMWR website (https://www.cdc.gov/mmwr).

A recent report described a sharp increase in calls to poison centers related to exposures to cleaners and disinfectants since the onset of the coronavirus disease 2019 (COVID-19) pandemic (1). However, data describing cleaning and disinfection members who had not taken a survey in the previous 20 waves of survey administration were eligible to participate. Quota sampling and statistical weighting were employed to make the panel representative of the U.S. population by gender, age, region, race/ ethnicity, and education.Respondents were informed that their answers were being used for market research and could refuse











SENTRY® RESULTS:

FIGURE 1. Comparisons of problematic and non-problematic respondents' reports of cleaning and disinfection practices since April, 2020.



Litman et al., 2021. MedArxiv (Under review)





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SOCIETAL IMPACT

"...the association between these high-risk practices and reported adverse health effects indicates a need for public messaging regarding safe and effective cleaning and disinfection practices aimed at preventing SARS-CoV-2 transmission in households."

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Analytics And Data Science

Did 4% of Americans Really Drink Bleach Last Year?

by Rachel Hartman

April 20, 2021



HBR Staff



Conclusions

- The online research industry is not just in the news it is the source of the news.
- There is a social responsibility to be aware of the danger that bogus respondents in our industry pose to our own data, our client's data, and for the consumption of information in society as a whole.
- During a time of unprecedented misinformation which has yielded devastating consequences, we have a social responsibility as researchers to keep our data as clean as possible



Surveys-N-Stuff // 10:43PM

Have you purchased cosmetics in the last 30 days? Reply Y / N

You // 10:43PM





PAST RESEARCH





Finding Fraud in Public Polls: Our AAPOR Presentation

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