

Show me the money!

Evaluating a graduated incentive structure to keep respondents engaged through 101 surveys in 28 days



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Agenda

- Overview
- Methods
- Survey test background
- Evaluation of incentive structure

Overview

NASA's X-59 Airplane

Overview



Methods

NASA's X-59 Community Response Testing (CRT)

Methods

- Sample addresses within Recruitment Region using Address-Based Sampling
- Recruit respondents (mail push-to-web)
 - Household screener
 - Background survey for selected respondent
- Community Response Surveys (app and web)
 - Single Event survey at each flight pass
 - Daily Summary survey each evening
 - Notify by text, email, and/or app notification for each survey
 - Four weeks, total of 76 Single Event and 23 Daily Summary surveys
- End-of-Test survey (app and web)

Survey Test Background

NASA's Planning Stage Survey Test

Survey Test Background

- Nashville, Tennessee area
- Recruitment: Aug Oct 2023
- Single Event and Daily Summary Surveys: Oct Nov 2023
- End-of-Test Survey: Nov 2023
- 5,000 addresses sampled
- 800 adults recruited
- 602 survey test respondents
- 534 EOT survey respondents

Evaluation of incentive structure

NASA's Planning Stage Survey Test

Incentives during recruitment

- Household screener
 - \$2 pre-incentive with initial letter to household
 - Promise of selected household member earning up to \$240
- Selected adult recruitment
 - Promise of \$10 for completing Background survey
 - Promise of earning up to \$240
- Recruitment phase complete
 - Reloadable debit card with \$10
 - Detailed information about potential weekly earnings for remaining \$230

Incentives during Survey Test

| Week or Item | If you complete at least 50% of requested surveys | If you complete at least 75% of requested surveys | If you complete 100% of requested surveys |
|---------------------------|--|--|---|
| Week 1 | \$25 | \$35 | \$45 |
| Week 2 | \$30 | \$40 | \$50 |
| Week 3 | \$35 | \$45 | \$55 |
| Week 4 | \$40 | \$50 | \$60 |
| End of Study Survey | \$20 | \$20 | \$20 |

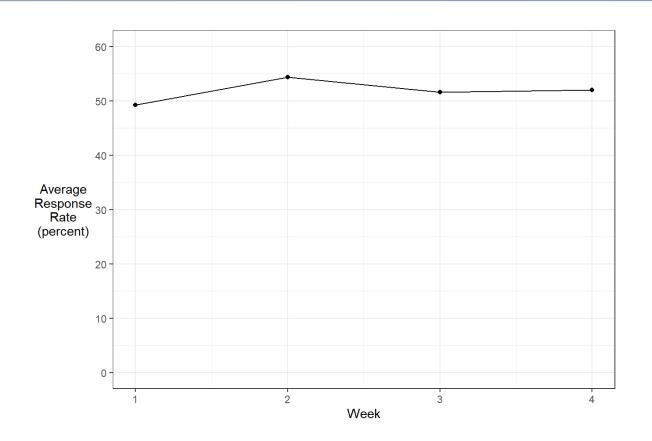
Respondent participation by week

Weekly Count of Respondents by Completion Rate¹

| Week | 0% | 1-49% | 50-74% | 75-99% | 100% |
|--------|-----|-------|--------|--------|------|
| Week 1 | 223 | 135 | 99 | 290 | 53 |
| Week 2 | 250 | 85 | 82 | 179 | 204 |
| Week 3 | 257 | 81 | 95 | 255 | 112 |
| Week 4 | 269 | 79 | 70 | 229 | 153 |

¹ Includes both Single Event and Daily Summary Surveys

Average response rate to Single Event surveys by week



Smartphone application

- Single Event and Daily Summary surveys submitted by web or app
- No additional incentive to use app
- 41 percent of participants used app
- 44 percent of surveys completed in app

| | App users | Web-only users |
|------------------------------------|-----------|----------------|
| Average surveys | 81 | 60 |
| Average incentive | \$160 | \$112 |
| Average weeks of earning incentive | 3.6 | 2.6 |

Takeaways

- Offering smartphone application supported project goals
- Incentive structure successful at keeping participants engaged in completing surveys through all four weeks
 - Graduated amounts over time
 - Graduated amounts based on completion rate
 - Calculated and paid by week



Thank you

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