You didn't answer our survey, but what about this text? Converting hard-to-reach respondents through text messaging

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This presentation is intended to promote ideas. The views expressed are part of ongoing research and do not necessarily reflect the position of the National Center for Education Statistics, the U.S. Department of Education, or the U.S. Census Bureau.

Background

- For a longitudinal survey, can we persuade participants to respond by:
 - Changing the contact mode?
 - Offering a new response mode?
 - Reducing survey length?
- message survey?

• "Hard-to-reach" individuals may be difficult to identify, sample, contact, or **persuade**

Can we replace mailed questionnaires with text-to-web links OR an abbreviated text



Teacher Follow-up Survey (TFS) to the National Teacher and Principal Survey (NTPS)

- TFS is a longitudinal follow-up (1 year later) with public and private school K-12 teachers who completed the baseline NTPS survey during the previous school year
- Approximately 20 minutes to complete the TFS (and 40 minutes to complete the NTPS)
- NTPS collects personal and work contact information during base year - Respondents asked to provide home mailing address, e-mail address, and cellphone number in the baseline survey, as well as affirmative consent to receive
 - follow-up communication by text message







1/13/22-4/18/22	6 e-mailed web survey invitations, 3 mailed web survey invitations, 1 mailed paper survey. Experiment starts later in April		
Time period	Control	Text-to-web	Text questions
4/26/22-4/28/22	2 nd mailed paper survey	Welcome text with link to survey	Welcome text with SMS surv questions
5/2/22	Reminder e-mail		
5/9/22- 6/3/22	CATI collection		
5/17/22-5/19/22	3 rd mail paper survey	Texted link to web survey	Texted SMS survey question
5/23/22	Reminder e-mail		
5/31/22	End of experimenta	I treatments; beginning of "I	ast ditch" strategies
6/1/22	Welcome text with link to survey		
6/6/22	Texted SMS survey questions		
6/9/22	Reminder e-mail		



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Messages (833) 972-2561

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Details

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Hello, you are receiving this message since you completed the National Teacher and Principal Survey last school year for the U.S. Department of Education and the Census Bureau. We need your help. You may receive up to 3 contacts via text in the next 2 months. Visit nces.ed.gov/surveys/ntp s for more information. Reply STOP to cancel. Message rates may apply.

Please answer questions on your status as a teacher at https://respond.census.g ov/tfs. Your User ID to complete the survey is 9999-9987. Call 1-888-595-1338 for help

Teachers who provided cell phone number and consent assigned to three groups during the primary data collection period (about n=1,000 per group):

- Control: no text reminders
- Text-to-web: received text message with web survey link in place of later mail reminders
- Text questions: received text message survey questions in place of later mail reminders

In the final stage of data collection, Control and Text-to-web nonrespondents received "last ditch" text message communication

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Methods

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Hello, you are receiving this message since you completed the National Teacher and Principal Survey last school year for the U.S. Department of Education and the Census Bureau. We need your help. You may receive up to 2 contacts via text in the next 2 months. Visit nces.ed.gov/surveys/ntp s for more information. Reply STOP to cancel. Message rates may apply.

Do you still teach any regularly scheduled classes in any of grades pre-K-12? Reply "1" for YES or "2" for NO. Call 1-888-595-1338 for help or learn more about this survey at nces.ed.gov/surveys/ntp

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Text questions



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paper questionnaire with text messages?

For hard-to-reach individuals, can we replace a mailed



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Replacing mailed questionnaires with text-to-web contacts **did not affect** response rates, nor did replacing mailed questionnaires with a separate text message survey.

Response rate: Full survey (s.e.)

Interactive text messages increased engagement, but did not convert individuals to respondents (nor did they divert them from the full-length survey).

Response rate: Full survey OR text questions (s.

Among nonrespondents as of 3/31/22, response rates as of 5/31/22 * Significant difference from Control group with α = .05 ~ Significant difference from Text-to-web group with α = .05

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Control	Text-to-web	Text questions
32.1 (4.21)	30.2 (3.74)	30.7 (4.51)

	Control	Text-to-web	Text questions
s.e.)	32.1 (4.21)	30.2 (3.74)	52.6 *~ (4.63)





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Our conclusion was similar when looking at the start of data collection through the end of the experimental treatments: There was no difference in survey response rates at the end of the experimental treatment, even when we replaced a survey invitation with a contact that didn't include an invitation. We had higher interaction rates (i.e., responded to full survey OR abbreviated texted survey) when texted questions replaced a paper questionnaire or texted web link.

Response rate: Full survey (s.e.)

Response rate: Full survey OR text questions (s.

* Significant difference from Control group with $\alpha = .05$ ~ Significant difference from Text-to-web group with $\alpha = .05$ **Response rates as of 5/31/22**

	Control	Text-to-web	Text questions
	84.6 (2.05)	82.6 (2.16)	83.5 (2.73)
.e.)	84.6 (2.05)	82.6 (2.16)	88.6 *~ (2.30)





For the hardest-to-reach individuals, can we engage them with text messages?







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For the hardest-to-reach individuals (after 14 contacts + CATI), texting questions that, when answered, don't qualify as a completed survey, **still increased survey** response rates

	Control [got text link & text questions]	-0	Text questions [got] more texts]
Response rate: Full survey (s.e.)	24.8 (5.01)	14.2 * (5.12)	4.7 *~ (2.01)

The interaction rate (survey + questions) was **highest** when text questions were sent early

	Control [got text link & text questions]	-0	Text questions [got r more texts]
Response rate: Full survey OR text questions (s.e.)	29.3 (5.12)	24.4 (5.29)	45.6*~ (6.26)

Among nonrespondents as of 5/31/22, response rates as of 7/12/22 * Significant difference from Control group with α = .05 ~ Significant difference from Text-to-web group with α = .05







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Looking at the FULL data collection:

Response rates were highest for the group that had the most contacts.

However, we had higher interaction rates (i.e., responded to full survey or abbreviated texted survey) when texted questions replaced texted web links (even with fewer total contacts).

Response rate: Full survey (s.e.)

Response rate: Full survey OR text questions (s.e.)

Response rates as of 7/12/22 * Significant difference from Control group with $\alpha = .05$ ~ Significant difference from Text-to-web group with $\alpha = .05$

Control	Text-to-web	Text questions
87.2 (1.68)	83.6* (1.82)	84.0* (2.22)
87.9 (1.71)	85.2 (1.78)	89.1~ (1.76)





Discussion



IN SUMMARY

- collection

FUTURE RESEARCH

- Who answers texted questions but not a longer web survey?
 - Could a follow-up or integrated text-to-web link convert them to respondents? ____
 - Would they complete a series of text question surveys instead of a single web ____ survey?
- Are mobile web completes preferable to paper questionnaires? To web surveys completed on a computer?

For hard-to-persuade individuals, we found that replacing mailed questionnaires with texted links OR abbreviated text questions did not help or hurt survey response rates Texting questions increased *engagement* when sent before the final stages of data





https://nces.ed.gov/surveys/ntps/

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