

CAPI on a Shoestring

Ben Earnhart

The Iowa Social Science Research Center

The University of Iowa

Large CAPI Study

- Limited Budget
- Limited Resources
- Limited Time
- But made it happen!

Basic Structure

- Control panel written from scratch
- Used Qualtrics for actual survey
- iPad Minis with 3G/4G for field

Control Panel

Home page

Scheduled Appointments

Notes/attempts reporting page

Addresses for surveyors

List of Tracts

Addresses within tracts

Notes/attempts reporting page

Reporting/Supervising module (restricted)

Scheduled appointments

showing all

Appointments

[BACK TO HOME](#)

[Disposition codes](#)

Click on address to see full details and enter information on attempts

FIPS-TRACT-BLOCK	appointmentDate	appointmentTime	phone1	phone2	email	contactName	respChosen	ADDRESS1	ADDRESS2	CITY	Last Disposition	Notes
19163-11900-3041											1202	selected respondent will not complete the survey
17161-23000-1020											1202	Older woman who can most likely participate but a little hard of hearing. Set appt time for 4:30 but if cant do it wed then set up one for thurs or fri. Set off two hour block because the woman is old and the Internet is terrible. Do not visit this house between the hours of 6 am and 4 pm.
17161-23500-2011											2116	number- she is only one over 18- said she will call next day off is thurs may be free then; call to set up appt
17161-23300-2006											2114	Left postcard.
17161-22800-3018											2112	No contact but previous attempt said to go in the evening anyway past 9/16 since he's out of town
19163-11300-4046											2112	Man said someone had asked him before and he had refused but notes don't say anything about that
19163-11300-2015	6/21/2013	11:00:00 AM									1100	
19163-11300-2019	6/21/2013	2:00:00 PM									1100	Left because of downpour. Interview conducted on porch.
19163-11300-2018											1100	Two kids at home. said to try back this evening

List of Tracts

Primary Attempts

FIPS	TRACT
17161	22800
17161	22900
17161	23000
17161	23200
17161	23300
17161	23500
17161	23600
17161	23700
17161	24500
19163	10900
19163	11300
19163	11600
19163	11800
19163	11900
19163	12601
19163	12801
19163	13000

Records 1 to 17 of 17
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List of Addresses

- Note links:
 - One to details/reporting
 - One to Google Maps
- Color coded based on disposition type

[Back to Home](#)

[Back to list of Tracts](#)

TRACT	BLOCK	GO TO RECORD	GO TO MAP	lastDisposition
22800	3007		GO TO MAP	4000
22800	3004		GO TO MAP	4000
22800	3027		GO TO MAP	2331
22800	3027		GO TO MAP	1100
22800	3017		GO TO MAP	1100
22800	3016		GO TO MAP	1100
22800	3025		GO TO MAP	2112
22800	3025		GO TO MAP	1100
22800	3017		GO TO MAP	1100
22800	3017		GO TO MAP	4701
22800	3018		GO TO MAP	1100
22800	3001		GO TO MAP	1100
22800	3001		GO TO MAP	2112
22800	3001		GO TO MAP	1100
22800	3018		GO TO MAP	2331
22800	3019		GO TO MAP	1100
22800	3019		GO TO MAP	4000
22800	3019		GO TO MAP	4000
22800	3019		GO TO MAP	4000
22800	3019		GO TO MAP	4702
22800	3000		GO TO MAP	2112
22800	3000		GO TO MAP	2112
22800	3001		GO TO MAP	1100
22800	3001		GO TO MAP	4000
22800	3019		GO TO MAP	2112
22800	3019		GO TO MAP	2112
22800	3019		GO TO MAP	1100
22800	3019		GO TO MAP	1100
22800	3000		GO TO MAP	2320
22800	3024		GO TO MAP	2112
22800	3025		GO TO MAP	4000



+Benjamin Share

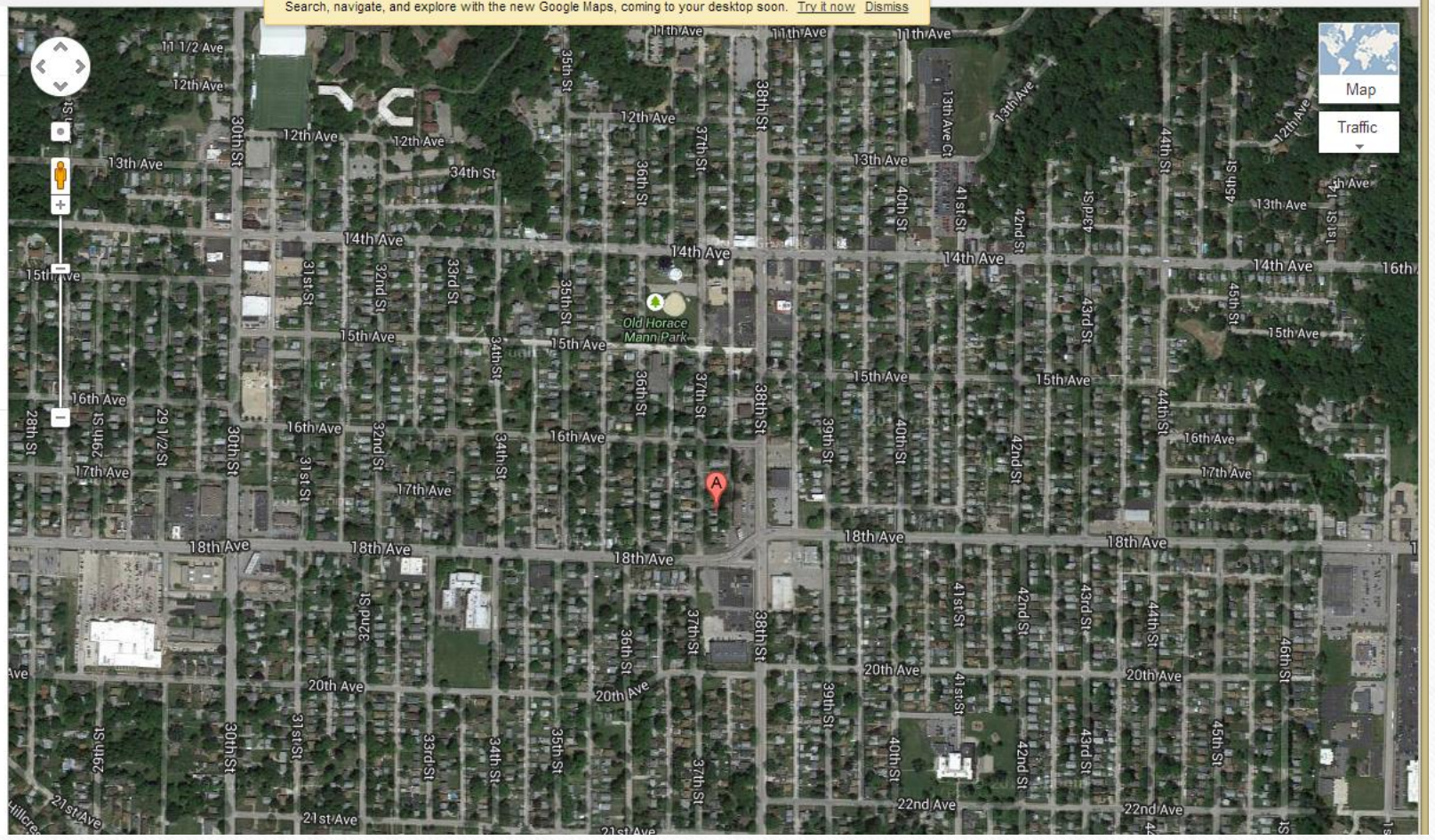
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Map
 Traffic

Details/Reporting

- List of previous attempts
- Report on current attempt
 - Early mistake: failing to choose disposition!

Untitled Document x

Back to home without changing anything Back to list of tracts without changing anything Back to tract (list of households) without changing anything

Disposition Summary for:R06234A

Attempt on:7/10/2013 10:49:25 AM by [REDACTED]
Spoke with: **Respondent chosen:**
Disposition:2111
Appointment: on
Contact information:
Notes: Participants not interested. We attempted to persuade her by offering to return later and stressing importance of the chosen household to participate. Left project description and postcard in case she changes her mind.

Attempt on:8/2/2013 10:11:44 AM by [REDACTED]
Spoke with: **Respondent chosen:**
Disposition:2111
Appointment: on
Contact information:
Notes: Participant said she hadn't seen any info so we explained a little. She didn't said to let someone else do the survey, she wasn't interested. Gave her project description to read over.

Attempt on:8/7/2013 3:26:46 PM by [REDACTED]
Spoke with: **Respondent chosen:**
Disposition:1100
Appointment: on
Contact information:
Notes: Completed interview with [REDACTED]. In the advisor loop, we accidentally selected 2 advisors although there was only one. Skipped through the questions about the 2nd advisor without entering data because it wouldn't let us go back

Appointment: on

Contact information:

Notes: Completed interview with [redacted] In the advisor loop, we accidentally selected 2 advisors although there was only one. Skipped through the questions about the 2nd advisor without entering data because it wouldn't let us go back

Enter the Survey

Link 1: [Primary link](#)

Link 2: [Secondary link](#)

Enter disposition code and other details:

DISPOSITION: CHOOSE A DISPOSITION!!!

Notes:

Interviewer 1:

Interviewer 2:

Appointment:

Appointment Date: mm/dd/yy

Appointment Time: 24-hour HH:mm, e.g. 5:00 pm is "17:00"

Phone1:

Phone2:

Email:

Who you spoke with:

Control Panel/Reporting

- Overall Dispositions
- Broken down by tract
- Details on addresses in long form
- AAPOR Response and Cooperation Rates
- Alternates
- Productivity

Dispositions For Primary Cases

[Disposition codes](#)

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Primary, Alternate, etc. -- Primary Addresses A

Count Last Disposition

- 1 NOT Attempted
- 473 COMPLETE
- 2 INCOMPLETE: CONTACT BACK
- 68 RESPONDENT REFUSAL
- 4 INCOMPLETE: SELECTED RESPONDENT TERMINATED
- 15 HOUSEHOLD REFUSAL (No enumeration, will return)
- 7 HOUSEHOLD REFUSAL ATTEMPTED (No enumeration, will return)
- 251 FINAL REFUSAL
- 20 R-CONTACT-CALLBACK: Indefinite
- 1 H-CONTACT-CALLBACK: Definite
- 31 H-CONTACT-CALLBACK: Indefinite
- 26 NOT ELIGIBLE -- Too ill/Incapacitated
- 54 LANGUAGE BARRIER
- 19 NO CONTACT MADE
- 135 more than 5 ATTEMPTS
- 15 NOT ELIGIBLE: NOT A RESIDENCE OTHER
- 74 NOT ELIGIBLE: VACANT PROPERTY
- 2 NOT ELIGIBLE: BUSINESS or GOVT

Primary, Alternate, etc. -- Alternates B



Dispositions By Tract

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[Disposition codes](#)

City-Tract: 17161- 22800

Primary, secondary, etc -- Primary Addresses A

- 24 COMPLETE
- 2 RESPONDENT REFUSAL
- 12 FINAL REFUSAL
- 2 H-CONTACT-CALLBACK: Indefinite
- 1 NOT ELIGIBLE -- Too ill/Incapacitated
- 3 LANGUAGE BARRIER
- 2 NO CONTACT MADE
- 11 more than 5 ATTEMPTS
- 1 NOT ELIGIBLE: NOT A RESIDENCE OTHER
- 2 NOT ELIGIBLE: VACANT PROPERTY

Primary, secondary, etc -- Alternates B

- 30 NOT Attempted
- 7 COMPLETE
- 2 HOUSEHOLD REFUSAL (No enumeration, will return)
- 1 HOUSEHOLD REFUSAL ATTEMPTED (No enumeration, will return)
- 6 FINAL REFUSAL
- 2 R-CONTACT-CALLBACK: Indefinite

Click on address to see full details and enter information on attempts

17161-22800

tract-block	appointmentDate	appointmentTime	phone1	contactName	respChosen	ADDRESS1	ADDRESS2	CITY	Last Disposition	Notes
22800-3000						[REDACTED]		[REDACTED]	2112	7/10/2013 12:59:14 PM--Spoke with respondent under 18. Will return after 4 today. Left card and project description. 7/10/2013 2:20:40 PM--Unable to send interviewers 7/10. Will return 7/11 at 4. 7/11/2013 4:00:00 PM--No one over 18 at home. Come back tomorrow 7/12/13 at 2pm 7/12/2013 2:17:08 PM-- 8/2/2013 11:08:29 AM--Minor answered, said parents were sleeping. Didn't know when we should come back. Gave project description 8/12/2013 3:14:39 PM--No contact but left the same 2116 coding. We left a card for next week. 9/11/2013 4:31:03 PM--No contact made left postcard 9/13/2013 11:11:25 AM--No contact 10/12/2013 2:28:56 PM--No contact today left info 10/15/2013 3:37:03 PM--Left post card no answer at door 10/22/2013 6:14:54 PM--Minor answered door and said adult was home, went to back of house, several minutes later came back and said no one was home. Gave her FAQ and told her that her parents could call to set up an appointment or tell us to not to come back.
22800-3000						[REDACTED]		[REDACTED]	3130	11/26/2013 3:13:48 PM--No answer. Left nothing because last day.
22800-3000						[REDACTED]		[REDACTED]	2112	7/10/2013 1:06:38 PM--Refused after heavy persuasion. Gave information in case she changes her mind. 8/2/2013 11:11:32 AM--Respondent was adamant that she wouldn't participate. Friendly, but adamant. Said she had read over materials.
22800-3000						[REDACTED]		[REDACTED]	2320	8/13/2013 2:41:17 PM--No contact today. Left postcard. 8/20/2013 4:23:39 PM--Went to back door per request on front of house. Left project description. 8/26/2013 9:58:47 AM--Received a call that the gentlemen that lives in this property has recently passed away.

$$RR1 = \frac{(I + P) + (R + NC + O) + (UH + UO)}{(I + P) + (R + NC + O) + (UH + UO)} = 49.6$$

$$RR2 = \frac{(I + P)}{(I + P) + (R + NC + O) + (UH + UO)} = 49.8$$

$$RR3 = \frac{I}{(I + P) + (R + NC + O) + e(UH + UO)}$$

(WHEN $e=.25$) = 49.6
(WHEN $e=.5$) = 49.6
(WHEN $e=.75$) = 49.6

$$RR4 = \frac{(I + P)}{(I + P) + (R + NC + O) + e(UH + UO)}$$

(WHEN $e=.25$) = 49.8
(WHEN $e=.5$) = 49.8
(WHEN $e=.75$) = 49.8

$$RR5 = \frac{I}{(I + P) + (R + NC + O)} = 49.6$$

$$RR6 = \frac{(I + P)}{(I + P) + (R + NC + O)} = 49.8$$

$$COOP1 = \frac{I}{(I + P) + R + O} = 59.3$$

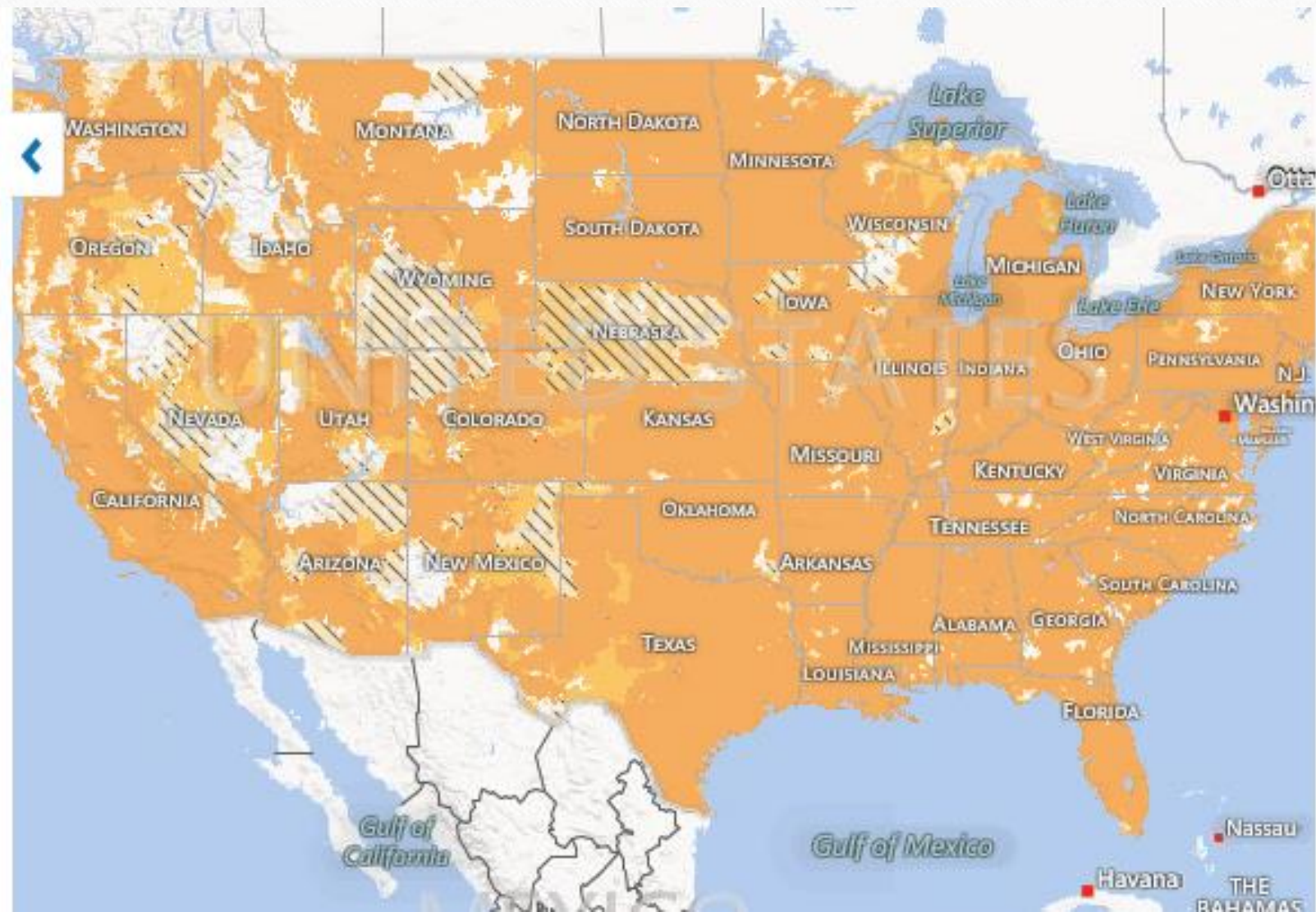
$$COOP2 = \frac{(I + P)}{(I + P) + R + O} = 59.5$$

What Worked

- Overall, the system worked
- Highly efficient
- All on SSL, no data stored locally
- IRB loved that! 😊

What Didn't Work

- 3G/4G coverage spotty
 - Ended up getting secondary provider
 - Wouldn't work in Nebraska
- Glitch in Qualtrics expired the links
 - Needed to re-load unique links
 - Messy for addresses attempted
- Pushed Qualtrics to the limit of complexity
- Interviewer Training!
- Only one dog bite



So...

- Cheap, fast
- Could do BYOD
- Could scale to multiple sites easily
 - 3G/4G almost there
- Off-line data storage still necessary for some circumstances (Nebraska, Wyoming)
- For simpler survey, less intense user training, simpler programming
 - Accessible to small institutions with limited budgets
- No need for fancy GIS software

Questions?

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