

## **SURVEY METHODOLOGY AND DATA SOURCES**

The *Iowa K–12 & School Choice Survey* project, funded by EdChoice, developed by EdChoice and the Iowa Alliance for Choice in Education, and conducted by Braun Research Incorporated (BRI), interviewed adults (age 18+) who are Registered Voters in the State of Iowa. A total of 1,000 interviews were conducted using a mixed phone-online methodology from December 14, 2020, through December 29, 2020. The margin of sampling error for this study overall is +/- 3.1% (95% confidence level).

### Phone:

Within the phone portion of this study, BRI conducted a total of n=500 telephone interviews from December 14, 2020, through December 29, 2020, by means of both landline and cell phone.

The margin of sampling error for the entire phone sample (N=500) of interviews is +/- 4.38% (95% confidence level).

BRI's live callers conducted all phone interviews.

- **Iowa Registered Voters/Adult Voters 18+ Respondents:**
  - **19,299** in total – **8,036** landline; **11,263** cell
  - Of these calls **7,584** [**3,088** landline, **4,496** cell] were unusable phone numbers (disconnected, fax, busy, non-residential, or non-answers, etc.);
  - **10,860** [**4,569** landline, **6,291** cell] were usable numbers but eligibility unknown (including refusals and voicemail); and
  - **26** [**10** landline, **16** cell] people did not complete the survey.
  - **129** [**18** landline, **111** cell] people terminated as not qualified to complete the survey.
  - The average response rate of the landline interviews was **2.6%**.
  - The average response rate of the cell phone interviews was **4.2%**.

Details on sample dispositions, landline, and cell phone response rates, and weighting are discussed in following sections.

### ***Sample Design***

For the phone methodology a combination of landline and cellular random samples was used to represent Registered Voters, Adults 18+ across the State of Iowa who have access to either a landline or cellular telephone. Both samples were provided by Dynata (formerly Survey Sampling International, LLC, or SSI) according to BRI specifications.

Dynata starts with a database of all listed telephone numbers, updated on a four- to six-week rolling basis, 25 percent of the listings at a time. All active blocks—contiguous groups of 100 phone numbers for which more than one residential number is listed—are added to this database. Blocks and exchanges that include only listed business numbers are excluded.

Numbers for the landline sample were drawn with equal probabilities from active blocks (area code + exchange + two-digit block number) that contained three or more residential directory listings. The cellular sample was not list-assisted but was drawn through a systematic sampling from dedicated wireless 100-blocks and shared service 100-blocks with no directory-listed landline numbers.

### ***Contact Procedures***

Interviews were conducted from December 14, 2020, through December 29, 2020. As many as 8 attempts were made to contact every sampled telephone number. Sample was released for interviewing in replicates, which are representative subsamples of the larger sample. Using replicates to control the release of sample ensures that complete call procedures are followed for the entire sample. Calls were staggered over times of day and days of the week to maximize the chance of contact with potential respondents. Each phone number received at least one daytime call.

BRI has noticed over the last several years, response rates have been declining for consumer polls. Generally, running survey over a longer period of time will boost these

response rates. However, lower response rates do not lead to lower reliability of the data.

The margin of error is the largest 95% Confidence Interval for any estimated proportion based on this sample – is 4.38%. This means that in 95 of every 100 samples drawn using the same methodology, estimated proportions based on the entire sample will be no more than 4.38 percentage points away from their true values in the population.

It is critical to note that the Mean Squared Error (MSE) is higher when considering the number of respondents for a given demographic subgroup. For example, the MSE for a subgroup of 150 respondents is  $\pm 8.0$  percentage points.

In addition to sampling error, question wording, ordering, and other practical difficulties when conducting surveys may introduce error or bias into the findings of public opinion research.

### ***Call Dispositions and Response Rates***

Full dispositions for all sampled landline and cell phone numbers are located on the following pages.

***Dispositions and Response Rates –Registered Voters 18+ (Phone)***

Full dispositions for all sampled landline and cell phone numbers are located below:

<b>Summary</b>		
<i>Landline</i>	<i>Cell phone</i>	
8,036	11,263	Total
8,036	11,263	Released
0	0	Unreleased
<b>2.60%</b>	<b>4.20%</b>	<b>Est. Response (AAPOR)</b>

<b>Detail</b>		
<i>Landline</i>	<i>Cell phone</i>	
1,974	2,187	Disconnected
4	0	Fax
19	14	Gov't/Business
0		Cell Phone
<i>1,997</i>	<i>2,201</i>	<i>Unusable</i>
994	2,230	No Answer
97	65	Busy
<i>1,091</i>	<i>2,295</i>	<i>Usability Unknown</i>
151	349	Complete
10	16	Break-off
<i>161</i>	<i>365</i>	<i>Usable/Eligible</i>
2	425	Refused
6	11	Language Barrier
2,908	3,868	Answering Machine
1,632	1,955	Call back-Retry
18	32	Strong Refusal
3	0	Privacy Manager
<i>4,569</i>	<i>6,291</i>	<i>Usable/Elig Unkn</i>
18	111	Terminates
18	111	Usable/Ineligible
<b>2.60%</b>	<b>4.20%</b>	<b>Response Rate (AAPOR)</b>
<b>42.40%</b>	<b>49.30%</b>	<b>Cooperation Rate (AAPOR)</b>
<b>4.50%</b>	<b>6.90%</b>	<b>Refusal Rate (AAPOR)</b>

Details on sample dispositions and response rates for online are discussed below:

***Dispositions and Response Rates – Iowa Registered Voters 18+ (Online)***

<b>Category</b>	<b>Disposition Code Total</b>
Full completes	500
Email bouncebacks	11
Respondent unavailable during field period (web)	1,828
Terminated early/Break-offs	137
Screened out/terminates/disqualified	152
Logged onto survey; did not complete any item.	226
Not intended person	1
Over quota	23
Total	32,878
<b>Response Rate (AAPOR)</b>	<b>18.60%</b>
<b>Cooperation Rate (AAPOR)</b>	<b>57.90%</b>
<b>Refusal Rate (AAPOR)</b>	<b>8.40%</b>

**A total of N=500 Iowa Registered Voters 18+ participated in the online survey** from an initial outreach of 2,878 persons emailed from December 14 – 29, 2020. These individuals were randomly selected from the opt-in nonprobability online pool of panelists; n=152 persons terminated as disqualified.

The margin of sampling error for the online, Adult 18+ Registered Voter online sample (N=500) of interviews is +4.38 percentage points.

***Weighting Procedures and Analysis***

Weighting is generally used in survey analysis to compensate for sample designs and patterns of non-response that might bias results.

\*\* BRI weighted this study on the following factors: Age, Race, Ethnicity, Gender, Region, and Party ID.

## Online

Please note that Paul Braun has written his perspective on the current environment of online surveys and how they are being employed more and more. A 'sampling' of that text is below.

### **Online Studies**

*Online surveys offer unique challenges to ensure quality and honesty. For most surveys, email blasting to panelists are unchecked and depend on the first responders to complete a survey. Further, there are abuses in many panel companies where people sign up under multiple names, and even live in other countries!*

*The established procedures being used for the best possible results in online surveys are always being reviewed. There are several companies where panelists are drawn from random telephone samples and recruited to participate in periodic surveys for cash and prizes. Our concerns include the proportional sample balance, number of surveys a respondent stops/starts, frequency of respondent solicitation, and frequency of the panel company to draw upon competitor databases to complete low incidence projects.*

*Unlike telephone surveys, online surveys generally attract more males than females. Further, the number of respondents over the age of 60 are disproportionately thin versus their population. Some panel companies have achieved some balance by providing seniors with a limited action internet-ready device at the panel company's expense. Still, for general population surveys, seniors are solicited repeatedly far more than their younger counterparts.*

*Over the last several years conversations have been started through the media and, indeed, within national conferences (such as that of AAPOR) regarding putting the science behind online data collection, though there are no immediate plans fully to support projecting studies collected online being presented in the media.*

*Many leading media and corporate entities do not recognize online surveys as a projectable method of data collection, but some online surveys compare nicely to similar telephone surveys. Braun Research is an active participant in these discussions to help mark the way forward.*

*No one panel directly controls all panelized respondents. More than half of all respondents are members of multiple panels, and, typically, on average, six percent of that population will be panelized. That population is generally younger, more connected, slightly less than average income and has other underlying differences (slightly higher unemployed/uninsured) and more liberal.*

## **About Braun Research, Inc. (BRI)**

**The Braun Research network of companies, founded in 1995**, engages in data collection via telephone, and internet for various survey research firms, government and advertising agencies, local community organizations, local and national business groups, foundations, universities and academic entities, as well as religious organizations. In twenty-six (26) years Braun Research has conducted over 11,100 research projects by telephone, internet, and mail worldwide.

Braun Research is a well-respected firm employing techniques and standards approved by various survey research academic organizations and other affiliations including those with whom Braun is an active member, including AAPOR (The American Association for Public Opinion Research).

Nationally-known research firms have hired Braun Research, including the Gallup Organization, the Pew Research Center, the Eagleton Poll, Mathematica Policy Research, and the Washington Post. Braun Research has worked for the New Jersey Department of Health and Human Services, as well as other government agencies including the United States Departments of the Treasury and Defense, and the Center for Disease Control.

The work Braun Research accomplishes for other research firms requires them to perform all work up to standards required by the various research organizations where Braun Research enjoys membership and, in some cases, participate actively. Paul Braun is recognized as a leader in the field by colleagues who asked him to serve on these committees. He has served as President of the New Jersey Chapter of AAPOR, and he has been a member of the International Association for the Measurement and Evaluation of Communication (AMEC) in North America.