Margins of Error for Estimating a Proportion for the Savannah Reinterview

Cells in pink can be changed

Assumptions

Sample Size	10,000
Confidence Level	95%
z value	1.96
Design Effect	1
Eligibility Rate	1
Response Rate	75%

Sample Group	Sample Allocation
Non-ID Panel	45%
Non-ID Nonpanel	45%
ID	10%

Sample Group	Sample Size
Non-ID Panel	4,500
Non-ID Nonpanel	4,500
ID	1,000

Non-ID Panel Margins of Error				
Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0101	0.0117	0.0143	0.0226
0.8	0.0135	0.0156	0.0191	0.0302
0.7	0.0155	0.0179	0.0219	0.0346
0.6	0.0165	0.0191	0.0234	0.0370
0.5	0.0169	0.0195	0.0239	0.0377

For example, if the estimate is 90% of the reinterview households in the Non-ID panel can verify their confidence interval is expected to be 0.9 +/- 0.0101.

If we want to consider a characteristic that represents 20% of the population (such as Hispanics), an would have a confidence interval of .9 +/- .0226 for the Non-ID panel.

Non-ID Nonpanel Margins of Error				
Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0101	0.0117	0.0143	0.0226
0.8	0.0135	0.0156	0.0191	0.0302
0.7	0.0155	0.0179	0.0219	0.0346
0.6	0.0165	0.0191	0.0234	0.0370
0.5	0.0169	0.0195	0.0239	0.0377

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
	ID Margins of Error			
0.9	0.0215	0.0248	0.0304	0.0480
0.8	0.0286	0.0331	0.0405	0.0640
0.7	0.0328	0.0379	0.0464	0.0733
0.6	0.0351	0.0405	0.0496	0.0784
0.5	0.0358	0.0413	0.0506	0.0800

	10% characteristic
	0.0320
	0.0427
	0.0489
	0.0523
	0.0533

🟩 Margin of error of .03 or less
🟨 Margin of error greater than .03

r reponse, the

estimate of 90%

	10% characteristic
	0.0320
	0.0427
	0.0489
	0.0523
	0.0533

10% characteristic
0.0679
0.0905
0.1037
0.1109
0.1132

Margins of Error for Estimating a Proportion for the Savannah Reinterview

Cells in pink can be changed

Assumptions

Sample Size	5,000
alpha	0.05
z value	1.96
Design Effect	1
Eligibility Rate	1
Response Rate	75%

Sample Group	Sample Allocation
Non-ID Panel	40%
Non-ID Nonpanel	40%
ID	20%

Sample Group	Sample Size
Non-ID Panel	2,000
Non-ID Nonpanel	2,000
ID	1,000

Non-ID Panel Margins of Error					
Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic	10% characteristic
0.9	0.0152	0.0175	0.0215	0.0339	0.0480
0.8	0.0202	0.0234	0.0286	0.0453	0.0640
0.7	0.0232	0.0268	0.0328	0.0519	0.0733
0.6	0.0248	0.0286	0.0351	0.0554	0.0784
0.5	0.0253	0.0292	0.0358	0.0566	0.0800

For example, if the estimate is 90% of the reinterview households in the Non-ID panel can verify their reponse, the confidence interval is expected to be 0.9 +/- 0.0152.

If we want to consider a characteristic that represents 20% of the population (such as Hispanics), an estimate of 90% would have a confidence interval of .9 +/- .0339 for the Non-ID panel.

Non-ID Nonpanel Margins of Error					
Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic	10% characteristic
0.9	0.0152	0.0175	0.0215	0.0339	0.0480
0.8	0.0202	0.0234	0.0286	0.0453	0.0640
0.7	0.0232	0.0268	0.0328	0.0519	0.0733
0.6	0.0248	0.0286	0.0351	0.0554	0.0784
0.5	0.0253	0.0292	0.0358	0.0566	0.0800

ID Margins of Error

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic	10% characteristic
0.9	0.0215	0.0248	0.0304	0.0480	0.0679
0.8	0.0286	0.0331	0.0405	0.0640	0.0905
0.7	0.0328	0.0379	0.0464	0.0733	0.1037
0.6	0.0351	0.0405	0.0496	0.0784	0.1109
0.5	0.0358	0.0413	0.0506	0.0800	0.1132

	Margin of error of .03 or less
	Margin of error greater than .03

Margins of Error for Estimating a Proportion for the Savannah Reinterview

Cells in pink can be changed

Assumptions

Sample Size	10,000
Confidence Level	95%
z value	1.96
Design Effect	1
Eligibility Rate	1
Response Rate	75%

Data Collection Mode	Sample Group	Sample Allocation
	Non-ID Panel	36%
CATI	Non-ID Nonpanel	36%
	ID	8%
	Non-ID Panel	9%
In-person	Non-ID Nonpanel	9%
	ID	2%

Data Collection Mode	Sample Group	Sample Size
	Non-ID Panel	3600
CATI	Non-ID Nonpanel	3600
	ID	800
	Non-ID Panel	900
In-person	Non-ID Nonpanel	900
	ID	200

CATI Non-ID Panel Margins of Error

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0113	0.0131	0.0160	0.0253
0.8	0.0151	0.0174	0.0213	0.0337
0.7	0.0173	0.0200	0.0244	0.0387
0.6	0.0185	0.0213	0.0261	0.0413
0.5	0.0189	0.0218	0.0267	0.0422

For example, if the estimate is 90% of the reinterview households in the CATI Non-ID panel can verify the confidence interval is expected to be 0.9 +/- 0.0113.

If we want to consider a characteristic that represents 20% of the population (such as Hispanics), an e would have a confidence interval of .9 +/- .0253 for the Non-ID panel.

CATI Non-ID Nonpanel Margins of Error

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0113	0.0131	0.0160	0.0253
0.8	0.0151	0.0174	0.0213	0.0337
0.7	0.0173	0.0200	0.0244	0.0387
0.6	0.0185	0.0213	0.0261	0.0413
0.5	0.0189	0.0218	0.0267	0.0422

CATI ID Margins of Error

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0240	0.0277	0.0339	0.0537
0.8	0.0320	0.0370	0.0453	0.0716
0.7	0.0367	0.0423	0.0519	0.0820
0.6	0.0392	0.0453	0.0554	0.0877
0.5	0.0400	0.0462	0.0566	0.0895

In-person Non-ID Panel Margins of Error

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0226	0.0261	0.0320	0.0506
0.8	0.0302	0.0348	0.0427	0.0675
0.7	0.0346	0.0399	0.0489	0.0773
0.6	0.0370	0.0427	0.0523	0.0826
0.5	0.0377	0.0436	0.0533	0.0843

In-person Non-ID Nonpanel Margins of Error

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0226	0.0261	0.0320	0.0506
0.8	0.0302	0.0348	0.0427	0.0675
0.7	0.0346	0.0399	0.0489	0.0773
0.6	0.0370	0.0427	0.0523	0.0826
0.5	0.0377	0.0436	0.0533	0.0843

In-person ID Margins of Error

Estimate Proportion	Overall	75% characteristic	50% characteristic	20% characteristic
0.9	0.0480	0.0554	0.0679	0.1074
0.8	0.0640	0.0739	0.0905	0.1431
0.7	0.0733	0.0847	0.1037	0.1640
0.6	0.0784	0.0905	0.1109	0.1753

| 0.5 | | 0.0800 | 0.0924 | 0.1132 | 0.1789 |

their reponse,

estimate of 90%

**10%
characteristic**

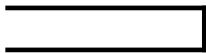| Color	Description
(green)	Margin of error of .03 or less
(yellow)	Margin of error greater than .03
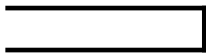
0.0358
0.0477
0.0547
0.0584
0.0596

10%
characteristic

0.0759
0.1012
0.1160
0.1240
0.1265

10%
characteristic

0.0716
0.0954
0.1093
0.1169
0.1193

10%
characteristic

0.0716
0.0954
0.1093
0.1169
0.1193

10%
characteristic

0.1518
0.2024
0.2319
0.2479

0.2530