

Assessing and Addressing Survey Non-Response in National Liberal Arts Colleges and Universities

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Have you struggled getting survey responses?

- National trends
- Experiences on your campus
- Lots of possible explanations









Why worry about non-response?

- Data-driven decision-making <u>and</u> equity and inclusion depend on reliable survey findings
- Usually, we are trying to learn something about an entire population from the responses of just a subset of that population's members
- Nonresponse bias

"Nonresponse bias can occur when the people who complete the survey (respondents) differ from people who do not complete the survey (nonrespondents)." – U.S. Census Bureau

"[T]he experiences or outcomes of those who don't respond could wildly differ to the experiences of those who do respond. As a consequence, the results may then over or underrepresent a particular perspective."

- Qualtrics

We're concerned about this and want to understand the nature of nonresponse. Who
 aren't we regularly hearing from on our surveys?





About our national survey of IR directors

- Directors of institutional research or registrar's offices at national liberal arts colleges and universities
- We asked about survey practices generally and asked for disaggregated response rates on one major survey from 2021-22
- Administered online April 4 May 15, 2023

Six sections in this presentation



Methods



Results



Best practices



Applications



Conclusions





Methods

- Literature review; six focus groups; wrote questionnaire; pre- and posttesting; online survey invite plus three reminders; postcard reminders
- Stephen Porter, Michael Whitcomb, Don Dillman
- Incentive to participate (\$15 Amazon gift card)

Survey disposition:

Total emails sent	Bounced	Started	Finished	Completion rate	Breakoff	RR
185	5	112	70	62.5%	37.5%	38.9%



Methods: Reminder postcards to partial completers

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Dear Brian,

The Office of Institutional Research and Planning at Connecticut College recently sent an email requesting your participation in a brief 10-minute survey regarding response rates in undergraduate surveys. Your input is essential for the success of this study, and we will share the results report with you once the work is completed.



If you haven't had a chance to complete the survey, there is still a chance to do so until the extended deadline of May 15.

The survey has been approved by the Connecticut College Institutional Review Board. Your participation in the survey is voluntary, and your responses will be kept confidential. As a token of our appreciation, you will be included in a drawing for one hundred \$15 Amazon gift cards. Your chance of winning a gift card is more than 50%.

Best wishes for the rest of the academic year,

John Nugent and Sanjeewa Karunaratne Office of Institutional Research and Planning Connecticut College



Scall Bridge

Break-off Rate (1-CO) = 37.5%



May not be collecting demographic info; not easy to tabulate respondent and non-respondent demographics, simply didn't want to continue

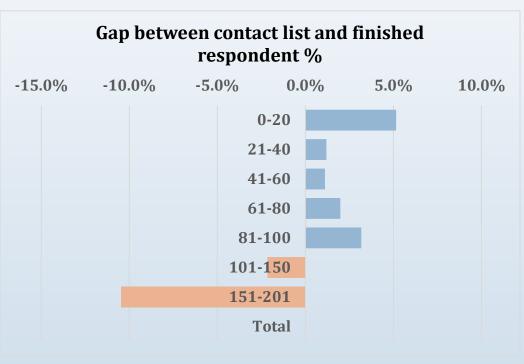




Methods: Respondents vs. Non-Respondents

Table 1.1 - Population and Respondent Sample by 2023 US News
Ranking

		Contact_	List	Responder	nt_List
		C	Column N	(Column N
		Count	%	Count	%
OVERALL0-20	LL0-20	19	10.6%	11	15.7%
RANK	21-40	21	11.7%	9	12.9%
	41-60	16	8.9%	7	10.0%
	61-80	17	9.4%	8	11.4%
	81-100	20	11.1%	10	14.3%
	101-150	45	25.0%	16	22.9%
	151-201	42	23.3%	9	12.9%
	Total	180	100.0%	70	100.0%
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	







Results

• Response rates from recent undergrad surveys (2021-22)

	Response R	late				
			Valid	Cumulative		
	Frequency	Percent	Percent	Percent		
0-25%	6	8.6	8.6	8.6		
25-50%	33	47.1	47.1	55.7		
50-75%	19	27.1	27.1	82.9	Over 50% RR	44.2%
75-100%	12	17.1	17.1	100.0		
Total	70	100.0	100.0			

• Over 50% response rate reported in the following surveys

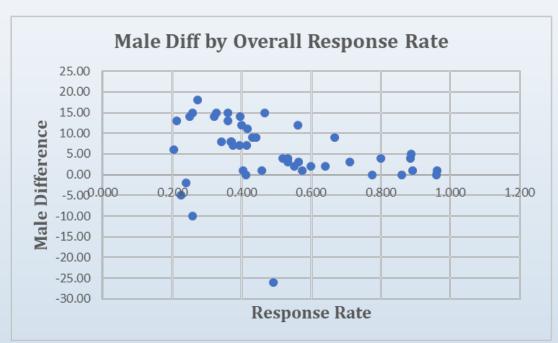
Senior survey or graduating student survey (internal)	13	41.9%	First-year or freshman survey (internal)	2	6.5%
HEDS New Student Survey	3	9.7%	End of First Year Survey	1	3.2%
HERI-CIRP Freshman Survey (TFS)	3	9.7%	HEDS Graduating Student Survey	1	3.2%
National Survey of Student Engagement (NSSE)	3	9.7%	Internal Student Satisfaction Survey	1	3.2%
COFHE Senior Survey	3	9.7%	Noel-Levitz Student Satisfaction Inventory (NSL)	1	3.2%

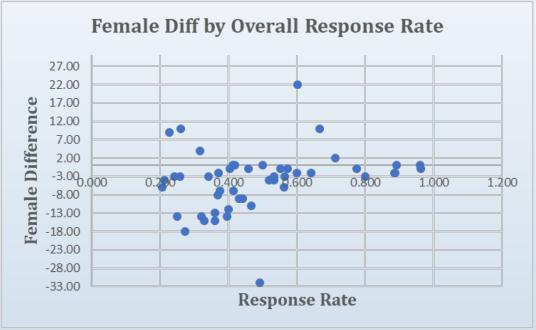




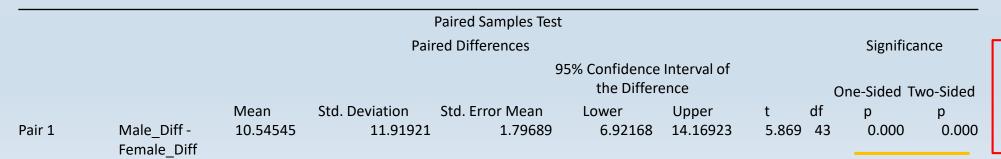


Results: Female and Male - population vs. survey respondents





Comparison of means: female and male response rate differentials in paired sample T-test



Statistically significant difference in male and female response rate differentials





New Camel Survey (First-year)

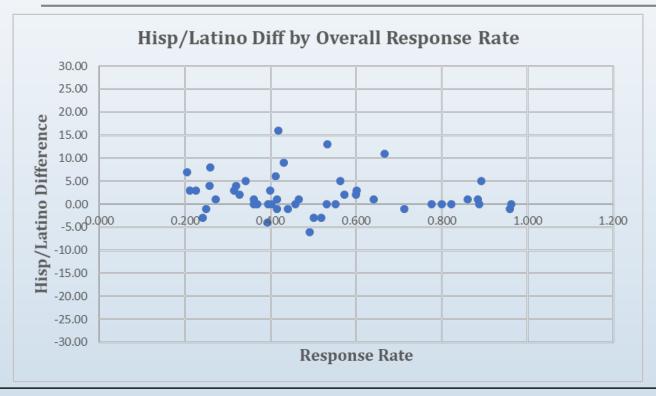
		•	Man	G	scribes your gend Woman	·	Tot	tal
		Count	Co	olumn Valid N %		lumn Valid N %		olumn Valid N %
O2E Haw would you	Earloft	Count	76	11.4%	Count	13.2%	Count 267	12.6%
Q25 How would you	rai ieit		76	11.4%	191	13.2%	207	12.0%
characterize your	Liberal		438	65.6%*	1153	79.6%*	1591	75.2%
political views?	Liberal		430	03.070	1133	7 7.0 70	1371	7 3.2 70
	Conservative		150	22.5%*	103	7.1%*	253	12.0%
	Gollsel vacive		150	22.570	100	7.170	200	12.070
	Far right		4	0.6%	2	0.1%	6	0.3%
	J							
	Total		668	100.0%	1449	100.0%	2117	100.0%

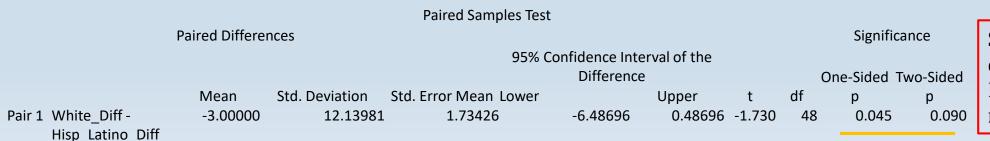
^{*} Significant at 95% Z test for proportions





Results: Hispanic or Latino - population vs. survey respondents





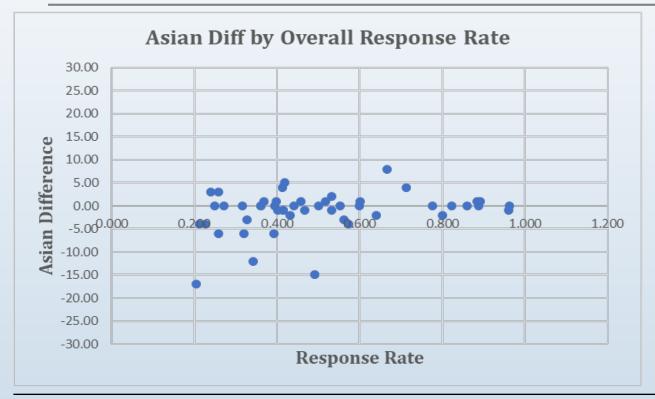
Statically significant difference in White and Hispanic/Latino response rate differentials

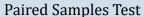


Asian Diff



Results: Asian - population vs. survey respondents





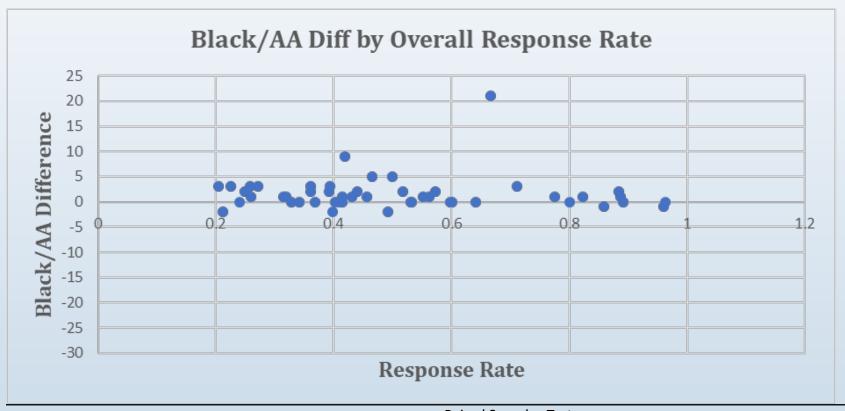
Paired Differences Significance

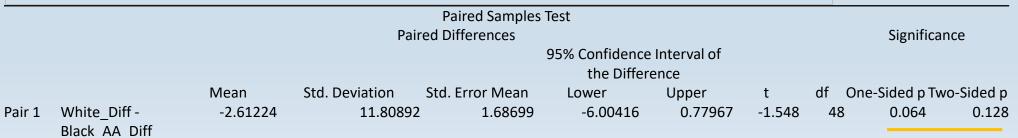
95% Confidence Interval of the

Difference Std. df One-Sided p Two-Sided p Mean Deviation Std. Error Mean Lower Upper Pair 1 White_Diff -0.12245 12.31975 1.75996 -3.41620 3.66110 0.070 48 0.472 0.945



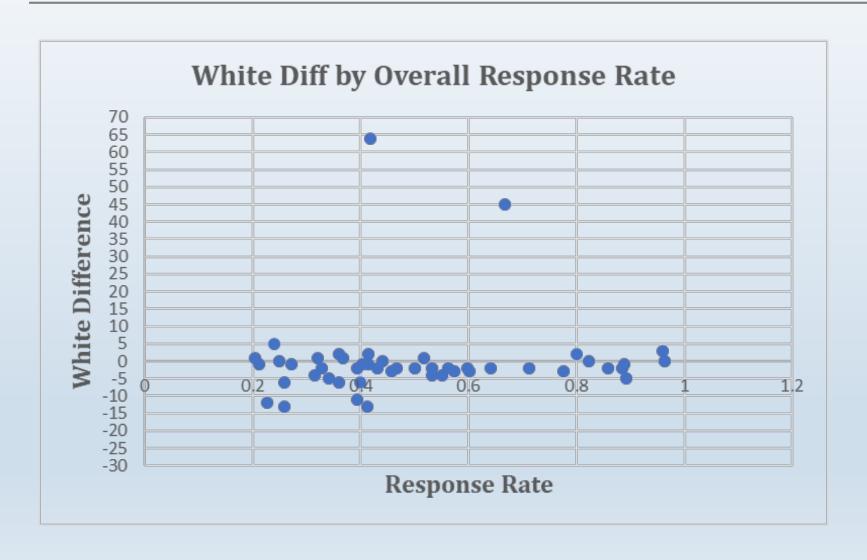
Results: Black or Afr. Amer. - population vs. survey respondents







Results: White - population vs. survey respondents







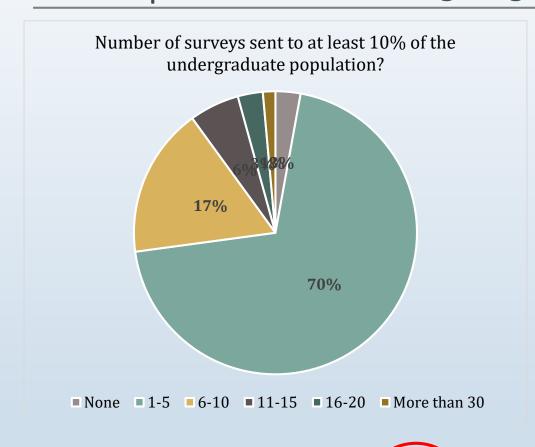
Best practices — Sampling and Data Weighting

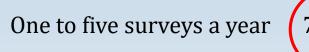
	Table 1.2 - Sampl	ling and Data Weighting			
			Count	Column N %	
	In your practice over the years, how often have	Always	1	1.4%	
	you surveyed a sample of students rather than the	Frequently	4	5.7%	
	entire student population in a survey?	Sometimes	19	27.1%	
		Rarely	26	37.1%	Rarely or Never (65.7%)
		Never	20	28.6%	
		Total	70	100.0%	
	In your practice over the years, how often have	Always	1	1.4%	
	you had the chance to perform data weighting to	Frequently	2	2.9%	
	make the survey respondent population look similar to your student population?	Sometimes	11	15.7%	
	similar to your student population:	Rarely	25	35.7%	Rarely or Never (78.6%)
		Never	30	42.9%	railely of Never (70.070)
		Unknown	1	1.4%	
		Total	70	100.0%	

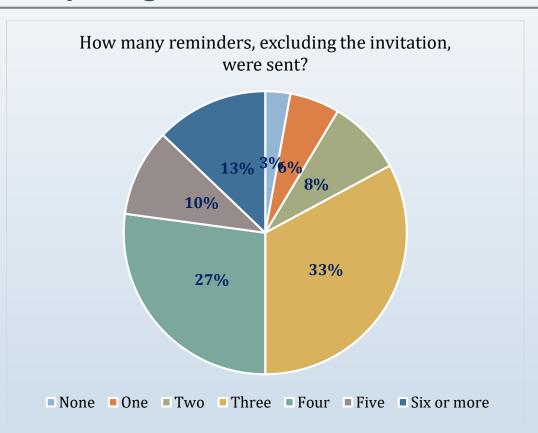


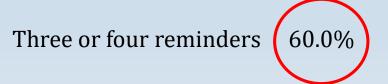


Best practices — Mitigating Survey Fatigue











Best practices — Mitigating Survey Fatigue

Have you done any of the following when administering student surveys over the years to reduce survey "load"

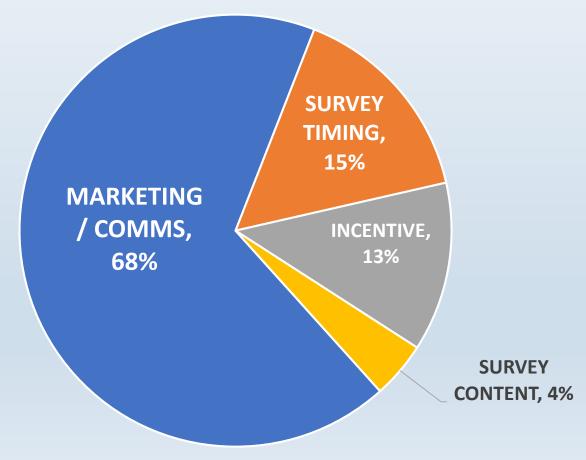
	Resp	onses	Percent of
	N	Percent	Cases
Managed the scheduling of the surveys through survey coordination with other offices, or similar process	57	15.2%	81.4%
Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotational basis (i.e., every other year)	56	15.0%	80.0%
Cut down the number of internal surveys	46	12.3%	65.7%
Made surveys that are shorter in length	36	9.6%	51.4%
Communicated survey best practices to on-campus researchers	34	9.1%	48.6%
Made surveys that take less time to complete	34	9.1%	48.6%
Combined or consolidated similar internal surveys	32	8.6%	45.7%
Managed access to survey software such as Survey Monkey or Qualtrics	27	7.2%	38.6%
Had a survey pre-approval process such as a form or IRB approval process	25	6.7%	35.7%
Allowed only some offices or departments to send out surveys	18	4.8%	25.7%
Something else	9	2.4%	12.9%





Best practices — Open-ended question

 We asked respondents to name one practice they think helps improve response rates







Best practices – Top responses

- Ask people in various roles on campus to announce survey and encourage its completion -- coaches, faculty, student support offices' staff, etc. [n=17]
- Explain how the data will be used; point to concrete changes that happened as a result of past survey responses [n=8]
- Embed the survey link in student learning management system/portal (increases views and makes it clear it's not a phishing attempt) [n=7]
- Set aside time in classes, events, practices, work shifts, etc. to complete survey (proctored time) [n=7]
- Big incentive [*n*=7]





Best practices — Did you do any of the following? (select all apply)

Response rate below 50% (top-10)		Percent
Sent pre-notification emails to students about the upcoming survey	N (of Cases 48.6%
Spread information about the survey by word-of-mouth	14	40.0%
Posted fliers on campus	13	37.1%
Communicated with faculty to spread the word	10	28.6%
Posted digital messages on campus TV screens	9	25.7%
Contacted resident hall assistants or staff to spread the word	8	22.9%
Posted on your institution's social media (e.g., Twitter, Instagram, or Facebook)	8	22.9%
Posted digital messages on student portal (e.g., Banner)	7	20.0%
Contacted departments or divisions	6	17.1%
Posted digital notices on campus website	5	14.3%

Response rate 50% or higher (top-10)		Percent of		
	N	Ca	ases	
Sent pre-notification emails to students about the upcoming survey		16	61.5%	
Something else (please describe)		14	53.8%	
Communicated with faculty to spread the word		9	34.6%	
Contacted departments or divisions		7	26.9%	
Spread information about the survey by word-of-mouth		7	26.9%	
Posted fliers on campus		5	19.2%	
Posted digital messages on student learning management system (e.g., Moodle)		4	15.4%	
Posted on your institution's social media (e.g., Twitter, Instagram, or Facebook)		4	15.4%	
Contacted resident hall assistants or staff to spread the word		4	15.4%	
Posted digital notices on campus website		3	11.5% ₂₀	
Posted digital messages on student portal (e.g., Banner)		3	11.5%	



Best practices — Something else (summary)?

Academic Deans sent out emails	
Administered in-person during orientation	
Chance to take the survery when collecting cap and gown	
Coordinated with commencement plans	

In commencement planning communications i.e., cap and gown pick up

Reminded in cap and gown pick up

Set up tables and kiosks for in-person

Administered in-person during orientation

Table tents in dining halls for in-person & ads in student newspaper

Part of checklist of things to do by freashman

Adminstered in-person during first year seminar

Time during new student orientation to complete in-person



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Application: Our Spring 2023 senior survey



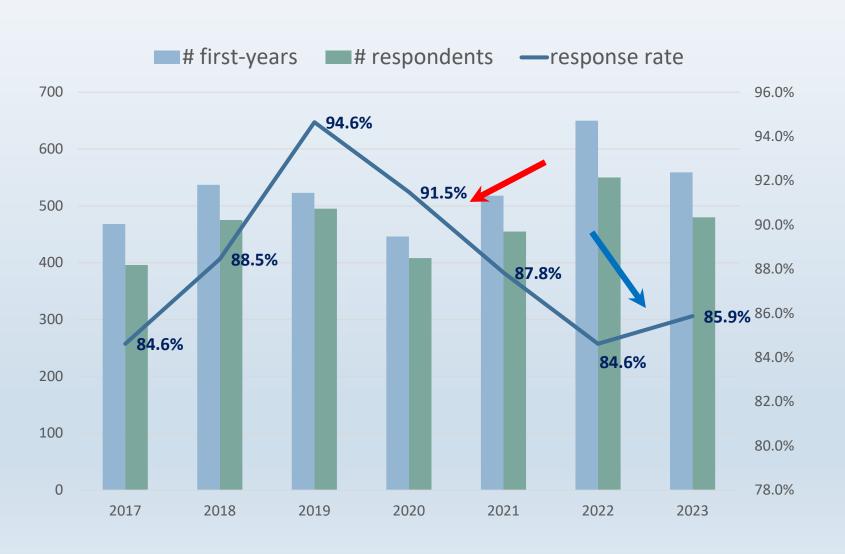
To reverse declining response rates, this year, we did most of the things that respondents suggested:

- Pre-tested the survey with students for clarity, length, and desirability of incentives
- Deans sending invites
- Fliers with QR code
- Mix of incentives
- Faculty, coaches, residential
- Commencement emails and other communications
- Cap and gown pick-up flier
- Advertisement in student paper





Application: Our Fall 2023 New Camel survey



Historically, the new camel survey distributed as a generic link to students via text and email messages by first-year dean. Following changes were made in fall 2023:

- Customized link appeared on each students Camel Experience portal, similar to an LMS link
- Emails were sent via Qualtrics, with personalized messages
- Emails were sent on behalf of the first-year dean



Conclusions

- Study your own survey practices to identify response-rate variation.
- Resp. rates do appear to differ among student subgroups, but with higher survey response rates, subgroup response rates converge.
- Extra efforts needed to bridge resp.-rate gaps between males/females and Hispanic/Latino response-rate differences
- Good survey research is pretty hard. Low-quality surveying is easy, but with some extra planning, creativity, and legwork, results can be improved/professionalized.
- Institutional research office is a natural location for promoting collaborative survey excellence on your campus.



Big shout out to Conn's Center for Critical Study of Race and Ethnicity (CCSRE)!

Thank you!
Any questions?

Link to our Best Practices handout:



Contact the Office of Institutional Research and Planning with questions or for more information.

ir@conncoll.edu 25





Application: Incentives

Incentive

Frequency	P	ercent
	12	35.3
	9	26.5
	7	20.6
	5	14.7
	1	2.9
	34	100.0
	Frequency	12 9 7 5 1

School sweatshirts

Campus dining credit

Class time credit

Early registration

Mug with class year

Diploma frame

Tuition credit

Commencement tickets



Application: Reminders



	Correlations	
	Q11 How many reminders,	
	excluding the invitation,	
	were sent during the	
	administration of the [QID1-	
	ChoiceGroup-	
	SelectedChoicesTextEntry]?	
	(The reminders include any	
	reminder notification sent	
	to students, either by the	
	external organization or by	
	the institution.)	RR
Pearson Correlation	1	-0.158
Sig. (2-tailed)		0.208
N	65	65
Pearson Correlation	-0.158	1
Sig. (2-tailed)	0.208	
N	65	65