

# "A Rising Tide Lifts All Boats" Assessing and Addressing Survey Non-response Results of Two National Surveys

John D. Nugent, Ph.D. Sanjeewa Karunaratne, MPA, MSR, LLM Connecticut College / New London, CT

BUILDING AN IR COMMUNITY for the next 50 years

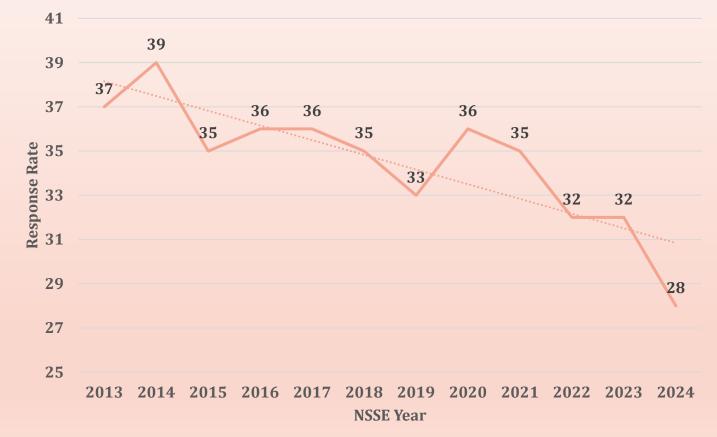




# Have you struggled getting survey responses? COLLEGE

- National trends
- Experiences on your campus
- Lots of possible explanations
- Conn College NSSE 2024 RR: 42.5%

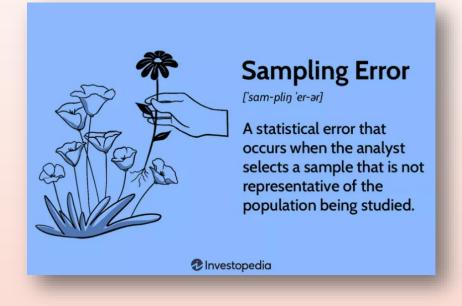
NSSE Average Response Rate for Last 12 Years Undergraduate Enrollment 2,500 or Fewer Institutions



Source: National Survey of Student Engagement (NSSE) Overview Report Table 2. NSSE 2023 Table 2 is publicly unavailable.



# Why it matters: sampling error



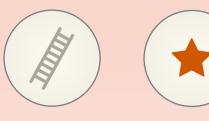
- Sampling error or margin of error occurs because we gather a data *sample* from the population, and the makeup of the sample may differ from and be unrepresentative of the population.
- We wanted to understand the nature of nonresponse (variations), and how to mitigate it.
- Who *aren't* we regularly hearing from on our surveys?



# About our national surveys

- Two surveys: Directors of institutional research at national liberal arts colleges (April-May 2023) and at national universities (May-June 2024)
- We asked about survey practices generally and asked for disaggregated response rates on a major survey
- 70 responses from 185 liberal arts colleges (38.9%) and 89 responses from 361 national universities (24.7%). Liberal arts and universities data combined for this analysis
- Case study: NSSE 2024, Senior Survey 2024, new-student survey 2023
- Five sections in this presentation



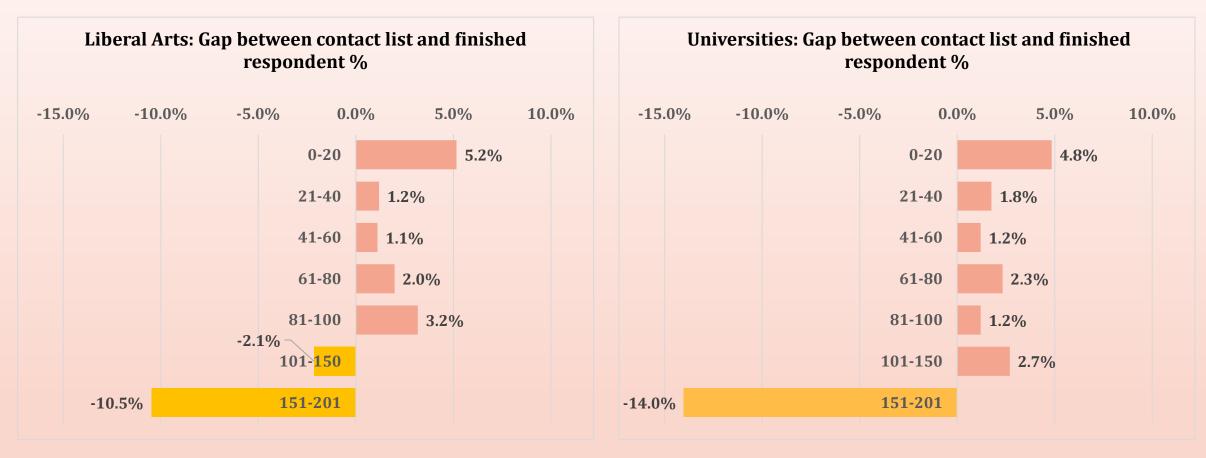


Applications

Conclusions

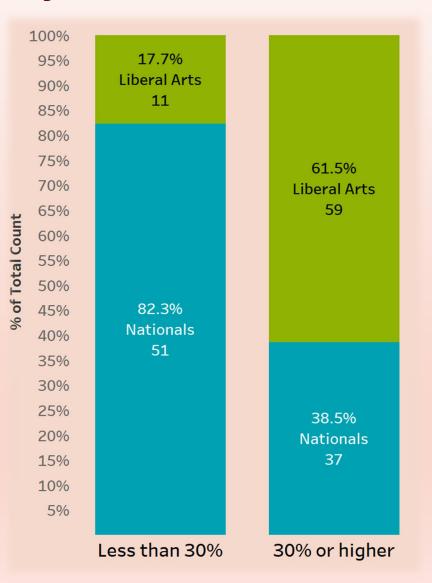


## National surveys – Response rates by institution type





### National surveys – Response rates by "ideal response rate"





## Why bother? An era of data-driven decision making

		Q26 Which of the following best describes your gender identity? - Selected Choice								
	J	Man		Woman	l	Total				
			Сс	olumn Valid	Column Valid		Column Valid			
		Count		N %	Count	N %	Count	N %		
Q25 How would you characterize your political views?	Far left		76	11.4%	191	13.2%	267	12.6%		
	Liberal		438	65.6%*	1153	79.6%*	1591	75.2%		
	Conservative		150	22.5%*	103	7.1%*	253	12.0%		
	Far right		4	0.6%	2	0.1%	6	0.3%		
	Total		668	100.0%	1449	100.0%	2117	100.0%		

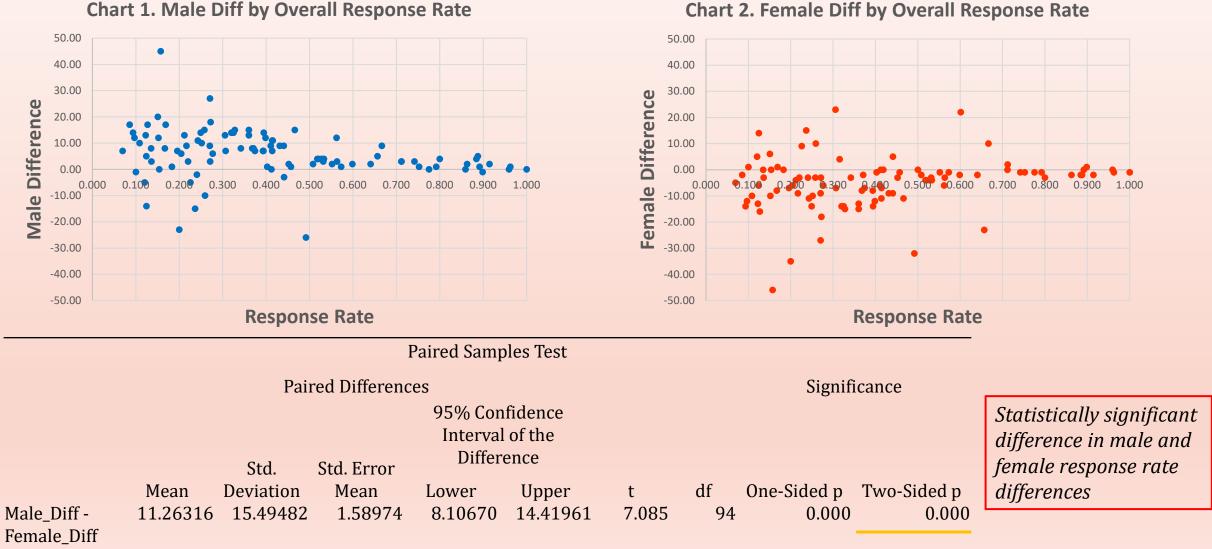
\* Significant at 95% chi-square test

Chi-Square Tests

	Value	df		symptotic cance (2-sided)	Exact Sig. Ex (2-sided) (1	0	
Pearson Chi-Square	$101.370^{a}$		1	0.000		,	Statistically significant
Continuity Correction <sup>b</sup>	99.913		1	0.000			association between
Likelihood Ratio	94.324		1	0.000	l.		gender and ideology
Fisher's Exact Test					0.000	0.000	
N of Valid Cases	1844						7



### **Results:** Female and Male - population vs. survey sample

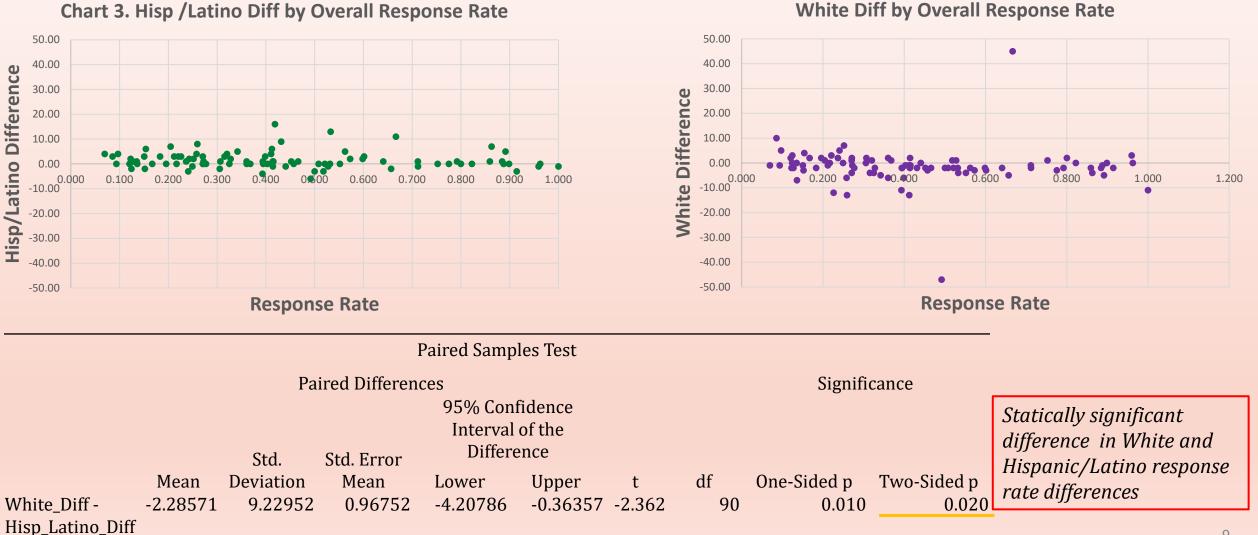


#### Chart 1. Male Diff by Overall Response Rate

<sup>8</sup> 

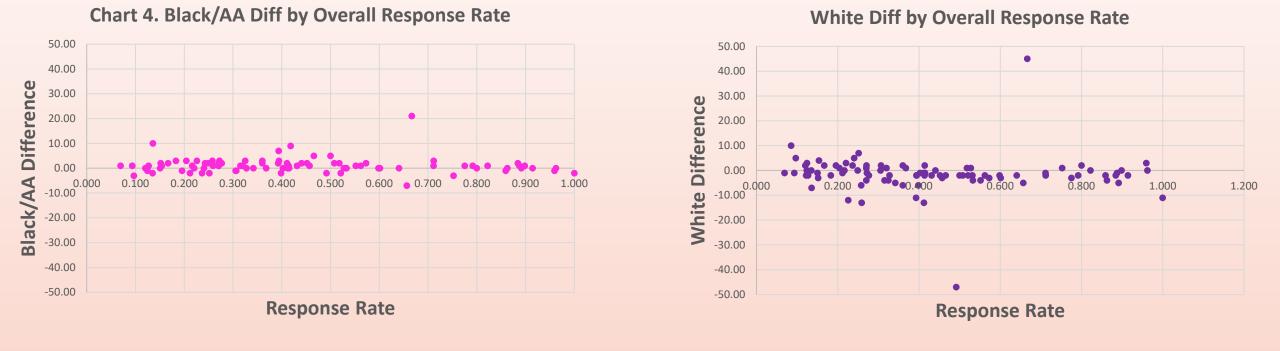


### **Results:** Hispanic or Latino - population vs. survey sample



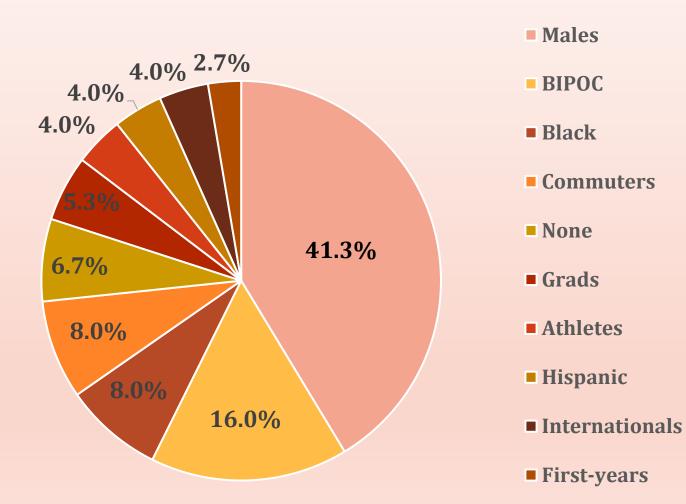


### **Results:** Black or Afr. Amer. - population vs. survey sample



Paired Samples Test									
	Paired Differences								Statically significant
95% Confidence Interval of the							difference in Whi Black ( AA respon		
	Mean	Std. Deviation	Std. Error Mean	Differe		t	df One-Sided p	Two-Sided p	Black / AA response rate differences
White_Diff - Black_AA_Diff	-1.93407			-3.85081	-0.01732	-2.005	90 0.024	0.048	10

**Results:** Name one student subgroup or population that is harder to reach



CONNECTICUT

COLLEGE



### **Case Study -** "Rising Tide Lifts All Boats"

#### First-year survey Senior survey ■ NSSE 15-17% 40-42% 50-51% 60-61% 70-73% 30-35% 70-80% 85-86% 0% -2.5% -2.9% -3.2% .3% -5.5% -6.7% -9.8% -10.6% 10.1% So .0% -16.4%

### Population v Sample: Male % Difference – sample vs population

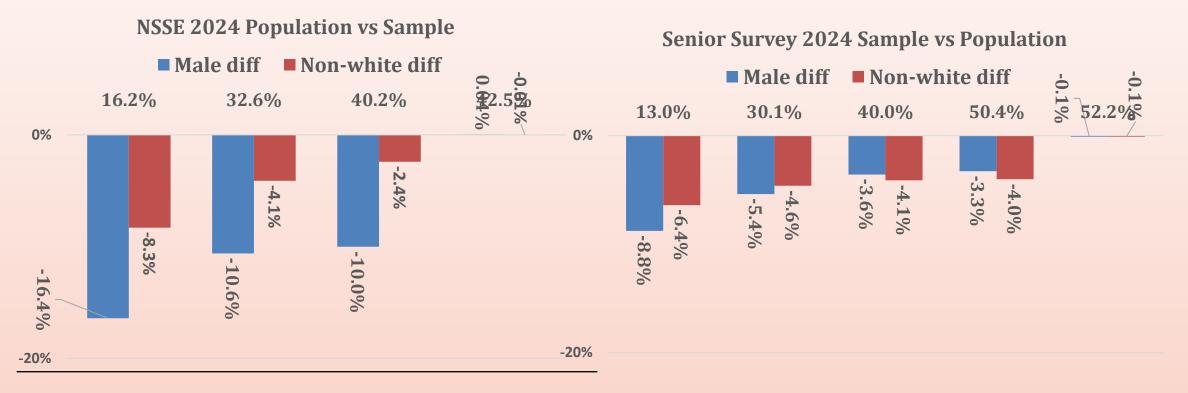


### Best practices – Sampling and Data Weighting

### Chart 1.2 Performed data weighting to make the **Chart 1.1 Surveyed a sample of students rather** sample look like population than the entire student population? Always or frequently Sometimes Rarely or never Unknown Always or frequently Sometimes Rarely or never Unknown 10.1% 9.4% 17.0% 23.9% 47.8% 59.7%



### Best practices – Post-stratification Data Weighting



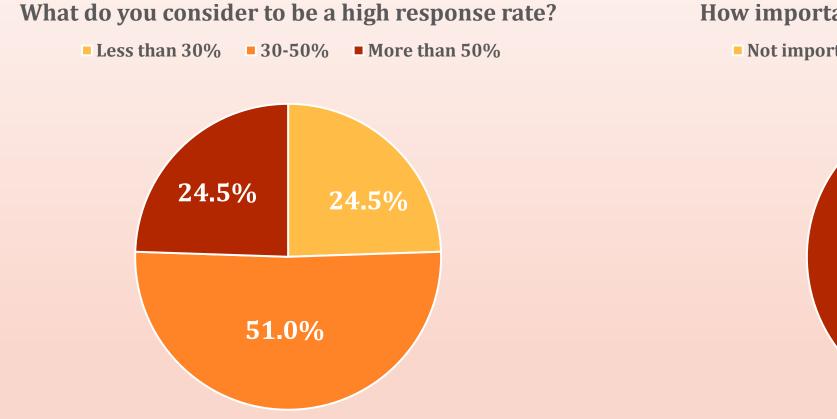
### Internal NSSE weight matrix

	#	%	Exp	Obs	۱	wgt1	exp2	obs2	wgt2
F		577 61.6	% 23	6	275	0.85987	22	2 222	2 0.99859
М		360 38.4	% 14	8	109	1.35353	13	8 138	3 1.00227
TOTAL		937			384			360	)

14

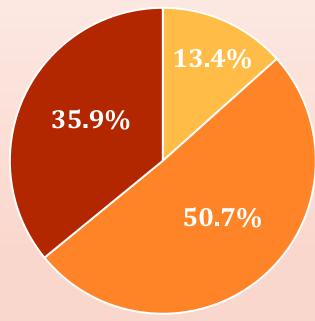


### Best practices – How important is high response rate?



### How important it is for you to achieve this rate?

Not important
Important
Extremely or very





### Best practices – How important is high response rate?





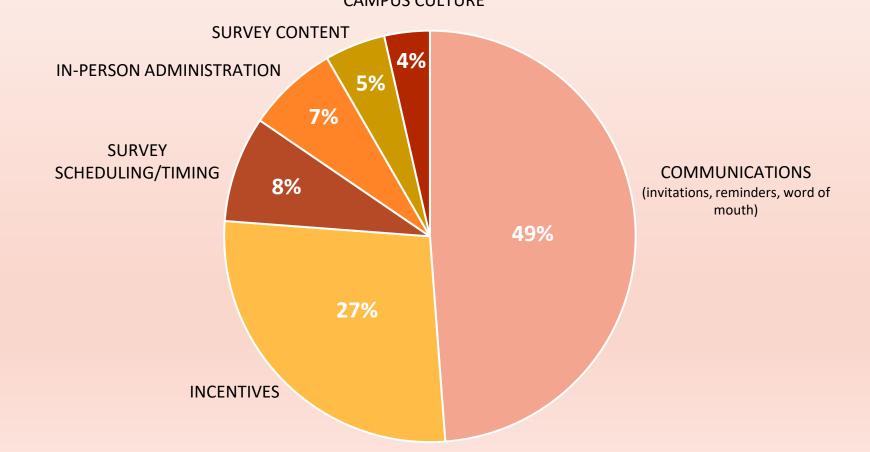
### Best practices – Mitigating Survey Fatigue

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

	Respo	Percent of	
	Ν	Percent	Cases
Administered external surveys such as NSSE, CIRP, NSL, or HEDS in rotating basis (e.g., every other year)	113	15.0%	78.5%
Managed the scheduling of the surveys through survey coordination with other offices, or similar process	110	14.6%	76.4%
Cut down the number of internal surveys	86	11.4%	59.7%
Made surveys that are shorter in length	76	10.1%	52.8%
Made surveys that take less time to complete	74	9.8%	51.4%
Communicated survey best practices to on-campus researchers	72	9.5%	50.0%
Combined or consolidated similar internal surveys	66	8.7%	45.8%
Had a survey pre-approval process such as a form or IRB approval process	54	7.2%	37.5%
Managed access to survey software such as Survey Monkey or Qualtrics	54	7.2%	37.5%
Allowed only some offices or departments to send out surveys	32	4.2%	22.2%
Something else	18	2.4%	12.5%



# We asked respondents open-ended to name one practice they think helps improve response rates





- Offer a well-chosen incentive (one big prize, small prizes to every completer, non-monetary prizes, a prize each week, early responder prizes, etc.) [*n*=23]
- Ask people in respected/high-profile roles on campus to announce survey and encourage its completion – college leadership, faculty, student support office staff, advisors, coaches, etc. [n=19]
- Find ways to administer surveys other than just via email: in person, with posters/table tents with QR codes, through LMS, etc. [*n*=11]
- Explain how the data will be used; point to concrete changes that happened as a result of past survey responses; cite survey results in reports; write articles about results for student newspaper [n=8]



# Conclusions

- Response rates do appear to differ among student subgroups, but with higher overall response rates, subgroup response rates converge.
- Try everything you can think of. Study your own survey practices to identify responserate variations.
- Good survey research is pretty hard. Low-quality surveying is easy, but with some extra planning, creativity, and legwork, results can be improved/professionalized. Get out of your office an engage with students and possible surveying partners on campus.
- Extra efforts needed to bridge response-rate gaps between males/females and Hispanic/Latino respondents
- 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)!

Link to our Best Practices handout: <u>https://docs.google.com/document/</u> <u>d/1jVvymIXYhqEfL4BJIDVilvuuAkRRS</u> <u>nNxdmok7\_j4IuU/edit?tab=t.0</u>

Thank you! Any questions?

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

ir@conncoll.edu