# **Counting on Higher Education: Teaching and** Assessing Knowledge and Participation in the 2020 Census

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#### Abstract

Mandated under Article 1, Section 2 of the United States Constitution, the decennial census determines the distribution of power and resources based upon population counts. College students are a hard-to-count population with limited knowledge about why the census matters and how to complete it. Politics and the global health pandemic made the 2020 Census exceptionally challenging. A university's center for civic engagement and students in a political science class collaborated with local, state, and national partners to develop and implement a campuswide 2020 Census Education and Engagement Program. Assessments of 2020 Census knowledge were administered to almost 2,000 students on a required university-wide Assessment Day. Subsequent data collection indicated knowledge about the 2020 Census is malleable, as evidenced by sizable gains over time as well as a positive relationship between census completion and participation in the 2020 Census Education and Engagement Program.

Keywords: census, civic learning, assessment, civic engagement

and faith and community-based organiza-American democratic governance, society, and economy (U.S. Census Bureau, 2019).

andated under Article 1, of those ages 18-29, indicated that they Section 2 of the United States definitely would not or probably would not Constitution, the decen-participate (Cohn et al., 2020). People cited nial census determines the concerns about sharing information and distribution of power based distrust of government as influencing their upon population counts, as well as the dis- likelihood of participating. 2020 Census tribution of some \$1.5 trillion dollars from participation challenges were compounded the federal government to states and lo- by the COVID-19 global pandemic, especially calities, including funding for programs like for college students across the country as Head Start, Medicare, SNAP, and Pell grants, the self-response window opened during as well as for roads and other public services the week that many were sent home as part (Reamer, 2020). In addition, census data are of public safety measures. As a result, some used by state governments to determine students did not receive participation noticreapportionment and redistricting, and by es from the Census Bureau with instructions state and local governments, businesses, for completing the census. Furthermore, because of budget constraints and contions for an array of decisions that affect cerns about public distrust in government, the U.S. Census Bureau employed a highly decentralized approach to census education, encouraging self-organized Complete The stakes of responding to the census are Count Committees (CCCs) by a range of high, as participation ensures that com- actors, including local and state governmunities receive their fair share of power ments, nonprofit organizations, corporaand resources; however, prior to the 2020 tions, and institutions of higher education Census, over 20% of all adults, and 36% (U.S. Census Bureau, 2019). One author of

this article was appointed by the governor of future directions and implications. their state to serve on their state's Complete Count Commission and served as an advisor Learning Objectives: 2020 Census to national higher education efforts.

Even in the best of circumstances, college students are a hard-to-count population as they are highly mobile and tend to be short-term renters. Perhaps even more consequential, as first-time participants, students are less likely to be knowledgeable tives were created to capture how individuabout why the census matters and how to complete it. Furthermore, as first-time participants, students are less likely to understand that completing the census is a civic dents' ability to responsibility and that it directly benefits their communities. Of course, some parents may include their college students as living at home due to the temporal nature of college living, and some students may believe their parents are taking care of this responsibility for them. Federal guidelines, however, require students to be counted where they live for most of the year, which is often on campuses away from their hometown. Therefore, colleges and universities have a special responsibility to the communities in which they are situated to ensure a complete count of their student populations.

Drawing upon lessons learned from scholarship in the voter education and engagement literature (Bennion & Nickerson, 2016; Teresi & Michelson, 2015; Thomas & Brower, 2017), a university's center for civic engagement and students enrolled in a political science class developed and implemented a campuswide 2020 Census Education and Engagement Program. Because research indicates participation is more likely when people know how to participate and how census data are used (Pew Research Center, 2010), the program was designed specifically to educate students about the purposes of the census and the participation process. Focusing on educating students as a means to enhance participation in the census also better serves the civic mission of colleges and universities.

Below we describe the goals and compowe provide our conclusions, limitations, and student participation in the 2020 Census.

# **Education and Engagement Program**

In spring 2020, a university's center for civic engagement and students in a political science course co-created and co-implemented the campuswide 2020 Census Education and Engagement Program. Four learning objecals should change as a result of participating in the program. Specifically, participation in the program was intended to facilitate stu-

- identify important purposes of the census,
- recall the logistics for participating in the 2020 Census,
- identify what kind of information is being obtained from individuals on the 2020 Census and laws pertaining to the use of personal information, and
- participate in and understand the value of the 2020 Census.

The 2020 Census Education and Engagement Program centered efforts on understanding and addressing motivational and informational barriers students face to completing the census. Given widespread public distrust in government, the effort relied on collaboration across campus and leveraged the influence of trusted individuals, organizations, and their networks. Further, the students collaborated with local, state, and national partners to design and implement the learning-centered get-out-the-count campaign. Student organizers and faculty participated in a day-long learning trip to the U.S. Census Bureau headquarters in Suitland, Maryland, which included a meeting with the Census Bureau director appointed by President Donald J. Trump. During the semester, students also regularly participated in state and local Complete Count Committee meetings to learn about nents of the 2020 Census Education and the census and challenges facing it. Course Engagement Program, which form the basis assignments used for program development for this research. We then outline our re- purposes included interviewing members search questions and data collection efforts of hard-to-count communities, such as to better understand students' knowledge students and marginalized populations, to about the 2020 Census, the malleability of learn what messages would most resonate. such knowledge, and to assess the effec- Students then designed communications tiveness of the 2020 Census Education and and organized educational opportunities Engagement Program. Following our results to meet learning objectives and to increase

on the census, in-person and virtual town completion of the instrument. halls with experts, bus advertisements, door hangers used for canvassing high Research Questions density off-campus housing complexes, and a strategically designed social media campaign across platforms. The program also included tabling at key events and highly trafficked public spaces on campus prior to the university's changing operations in response to the global pandemic. Critical information and direct links to the census online portal were sent via a campuswide email and text message. Census materials were also included in a global alert for one week in April 2020 in the university's course instructional tool system. The program also included a global reminder from the university's registrar to complete the 2020 Census when students were registering for Fall 2020 courses or checking in for May 2020 graduation. Every aspect of the 2020 Census Education and Engagement Program required the student organizers to collaborate with units across Academic Affairs, Students Affairs, Communications and Marketing, and the business operations of the university.

Program organizers also collaborated with leaders of the institution's Assessment Day in February 2020, which required all enrolled students with 45–70 credit hours to complete a series of assessments in a variety developed the 2020 Census Assessment, a administered to nearly 2,000 students participating in Assessment Day. After students completed the instrument, proctors said:

We would like to encourage you to participate in the upcoming census, as it is an important part of our country's governmental process. If you reside on or off-campus in [the community where the campus is located], you are counted here and it will impact local funding, political representation, and other decisions.

A link to the 2020 Census Education and Engagement Program's website with additional learning materials about the census

A range of tactics was deployed as part of was also provided. Thus, in addition to all the 2020 Census Education and Engagement components of the 2020 Census Education Program, including in-person and virtual and Engagement Program, almost 2,000 classroom visits by trained student lead- students were encouraged to learn about ers equipped with educational materials and participate in the 2020 Census following

The development of the 2020 Census Education and Engagement Program and the partnership with the institution's required Assessment Day provided a ready-made opportunity to develop and test research questions focused on this work. An ideal approach to assessing the effectiveness of the 2020 Census Education and Engagement Program would include three phases. In the pretest phase, a test aligned with the program's learning objectives would be developed and administered to all students. In the intervention phase, students would be randomly assigned either to participate or not participate in various combinations of program elements. In the posttest phase, all students would again complete the same test that was administered during the pretest phase. This ideal approach would allow for the (a) examination of change over time in knowledge for students who did and did not participate in various aspects of the program, (b) investigation into various threats to internal validity, and (c) potential ability The 2020 Census Education and Engagement to claim that the program is the cause of changes in student knowledge.

Typical of most assessment of programs in higher education, our approach falls short of the ideal, as it would be impossible to of different areas. The authors of this article use random assignment and irresponsible to shield any students from important global multiple-choice instrument created to ad- messages about the census. A strength of dress the learning objectives, and it was our approach is the development of the 2020 Census Assessment, a measure aligned with the 2020 Census Education and Engagement Program's learning objectives. This assessment was administered in February 2020 to a random sample of almost 2,000 students and vielded information about what college students did and did not know about the 2020 Census. The administration of the 2020 Census Assessment served as a pretest, as most facets of the 2020 Census Education and Engagement Program had yet to be implemented at the time of completion. The pretest data were used to answer the following research question (RQ):

> RQ1: What do students know and not know about the 2020 Census?

administration (pretest), the April administration served as a posttest. The data from students completing both pretest and posttest were used to address four additional research questions:

RQ2: To what extent does students' knowledge about the 2020 Census change over time?

RQ3: To what extent are students participating in activities developed for and promoted by the 2020 Census Education and Engagement Program?

RQ4: Is change in knowledge about the 2020 Census related to participation in 2020 Census Education and Engagement Program activi-

RQ5: Did students complete the 2020 Census and is completion related to participation in 2020 Census Education and Engagement Program activities?

Although the pretest/posttest data is not ideal in that it is based only on students who chose to complete the assessment at posttest, it can be used to understand whether knowledge about the 2020 Census is malleable (RQ2), to ascertain levels of participation in the 2020 Census Education and Engagement Program (RQ3), to explore the relationship between program participation and changes in knowledge (RQ4), and to capture 2020 Census participation (RQ5).

#### Methods

#### Measures

Two measures were created for the 2020 Census Education and Engagement Program. Participants The 15-item 2020 Census Assessment was created to assess the student learning objectives of the program. The 2020 Census The pretest sample included 1,947 students Program Participation Survey was developed and was used to answer RQ1, which ad-

All students enrolled at the institution perienced and participated in activities de-(i.e., not just those who participated in the veloped for or promoted by the 2020 Census February 2020 Assessment Day) were invit- Education and Engagement Program. Some ed to complete the 2020 Census Assessment items on the survey also asked about related in late April of that year, along with a survey activities outside the program (e.g., viewinquiring about their participation in the ing non-program-related social media posts 2020 Census Education and Engagement about the 2020 Census). Because the inten-Program and other related activities. For tion was to pinpoint what students do and those who participated in the February do not know, only item-level results for the 2020 Census Assessment were considered.

#### **Procedures**

The 2020 Census Assessment was administered twice: once in early February 2020 during Assessment Day (pretest) and again in late April 2020 (posttest). The 2020 Census Participation Survey was administered along with the 2020 Census Assessment, but only during the posttest administration.

#### Pretest

All 3,274 students with 45-70 credit hours going into the Spring 2020 semester at the institution were required to complete a series of assessments during Assessment Day in February 2020. The 2020 Census Assessment was administered to a random subset of these students (N = 1,947). After completing the assessment, proctors encouraged students to learn about and complete the 2020 Census, and a link to the 2020 Census Education and Engagement Program's website was provided.

#### Posttest

In April 2020 all students at the university (about 20,000) were sent an email inviting them to take the 2020 Census Assessment and 2020 Census Program Participation Survey. Participation was voluntary. After responding to each item on the 2020 Census Assessment, students were provided with feedback (i.e., whether they got the item right/wrong) and shown results from those who had completed the survey at pretest. This step was added to make survey completion not only interesting, but educational and fun. To entice students who participated at pretest to voluntarily participate at posttest, their name was entered in a lottery to win a \$10 gift card.

### **Pretest Sample**

to ascertain the extent to which students ex- dressed what students knew and did not

sample.

# Pretest/Posttest Sample

The number of students choosing to participate in the posttest administration was low, which might partly be attributable to the mass disruptions caused by COVID-19. Only 162 students participated, and of those, only 122 had pretest data. Results from the 122 students who participated in both pretest and posttest administrations were used to answer RQ2-RQ5, which address whether knowledge changes over time, exposure to and participation in the 2020 Census Education and Engagement Program activities, whether change in knowledge is participation in the 2020 Census is associ-Education and Engagement Program.

sample.

We explored the extent to which student characteristics and pretest item responses differed for those who did and did not elect to participate at posttest using chi-square tests of independence. Only one item out of the 15, Item 3, yielded statistically significant results,  $X^2(1) = 12.87$ , p < .001. Specifically, 57% who elected to participate in the posttest obtained the correct answer at pretest compared to 40% who correctly chose to participate in the posttest were many

know about the 2020 Census. Demographic census is to count how many persons (not information for this sample was obtained citizens) are residing in the United States. through university records and missing We also considered demographic differences for two students. Of the remaining 1,945 for those students from the pretest sample students, 70% were sophomores and 30% who did and did not choose to participate in were juniors. With respect to gender, 59% the posttest. No differences were found with self-identified as female and 41% as male respect to year in college  $(X^2(1) = .24, p =$ (given those options). With respect to race, .623) or race ( $X^2(5) = 2.46$ , p = .783), but dif-74% identified as White, 6% as Black, 7% ferences were found with respect to gender as Asian, and 6% as Hispanic. All other  $(X^2(1) = 21.78, p < .001)$ . Specifically, more race categories or combinations of catego- females than males voluntarily participated ries were each represented by <5% of the at posttest. Thus, the subset of students who chose to participate in the posttest differs somewhat from the larger pretest sample.

#### Results

RQ1: What do students know and not know about the 2020 Census?

# Learning Objective 1

The majority of items on the 2020 Census Assessment were aligned with the first learning objective, which is to understand the purpose of the 2020 Census. The percentage of students who answered Learning Objective 1 items correctly ranged from a low of 41% for Item 3 to a high of 88% for Item related to program exposure, and whether 11 (see Pretest Sample column in Table 1). At least 75% of students selected the correct ated with participation in the 2020 Census response on Items 11 and 15, which inquire about the use of 2020 Census information to inform the allocation of federal, state, and Demographic information for this sample local resources. This purpose of the census was obtained through university records and appears to be well known by students. A sizmissing for one student. Of the remaining able percentage of students were also aware 121 students, 72% were sophomores and that the census is not used to do any of the 28% were juniors. With respect to gender, following: determine who has not paid taxes 79% self-identified as female and 21% as (Item 13; 73%); locate people living in the male (given those options). With respect to country without documentation (Item 10; race, 70% identified as White, 7% as Black, 65%; this was important given malinforma-6% as Asian, and 5% as Hispanic. All other tion circulating at the time); determine who race categories or combinations of catego- can vote (Item 14; 57%); and help decide ries were each represented by <5% of the whether conscription would be needed in the next major military conflict (Item 1; 63%). Although these results indicate the majority of college students can identify how census information is used, they still point to sizable percentages of students who responded that census information can be used for purposes it is not in fact used for. It's also important to note that assessing what mis-, dis-, and malinformation students were exposed to about the 2020 Census was beyond the scope of this study.

answered at pretest but did not participate For Item 3, which asked: "The primary in the posttest. Thus, more students who purpose of the census is to count how \_\_\_\_\_ are residing in the United aware that the primary purpose of the States," only 41% of students selected the

Table 1. Learning Objective 1 Results

		Percent	Percentage selecting correct response	correct	1	McNemar's test (df = 1)	test ( $df = 1$ )	
Item	(bobled source to see the	Pretest	Pretest/posttest sample	test sample	Difference	\$	c	
#	itelli (collect aliswei bolded)	sample	Pretest	Posttest	(positest-	<b>'</b> <	ð.	
=======================================	Information collected from individuals in the 2020 Census will be used to: Inform how federal and state resources for schools, emergency services, roads, etc. are allocated to localities. ( <b>True</b> / False)	88	06	80	∞	8.33	.004**	
15	Information collected from individuals in the 2020 Census will be used to: Inform your local government about making changes in your community. ( <b>True</b> /False)	75	79	82	ო	0.44	.505	. 20, 110
13	Information collected from individuals in the 2020 Census will be used to: Determine which individuals have not paid taxes. (True/False)	73	84	100	16	7.00	**800	. I Jour
10	Information collected from individuals in the 2020 Census will be used to: Locate people living in the country without documentation. (True/False)	65	71	88	18	15.12	<.001**	
4	Information collected from individuals in the 2020 Census will be used to: Determine who can vote. (True/False)	22	61	81	20	14.40	<.001**	gner Eut
	All of these are purposes of the nationwide census conducted by the U.S. Census Bureau EXCEPT:							acation ou
<del>-</del>	b. To help decide whether conscription would be needed in the next major military conflict c. To assist in the understanding of the population of the United States	63	99	87	21	18.78	<.001*	ii eacii aiia
	d. To help determine how much money communities will get from the government							z.rga
					Table	Table continued on next page	n next page	

Table 1. Continued

			Percen	Percentage selecting correct response	correct		McNemar's test (df = 1)	est ( <i>df</i> = 1)
	Item	(bobled remove torrion) met	Pretest	Pretest/post	Pretest/posttest sample	Difference	>	2
	#	item (confect answer bolded)	sample	Pretest	Posttest	prefest)	<	2.
I		The primary purpose of the census is to count how many are residing in the United States.						
		a. Adults						
	က	b. Voters	4	22	89	7	4.67	.031*
		c. Citizens						
		d. Persons						
I		Census data is used to make decisions regarding funding for all of these EXCEPT:						
		a. Public education						
	7	b. Medicare	49	49	73	24	4.84	.028*
		c. Pell Grants						
		e. Military bases						
	12	Information collected from individuals in the 2020 Census will be used to: Determine how much taxes individuals will pay. (True/False)	4	44	62	81	11.00	.001**
	4	The census is required by the U.S. Constitution. ( <b>True</b> /False)	49	43	63	20	14.40	<.001**
I								

Note. For the pretest sample, N = 1,947 for all items except 13 and 2, where N = 887. For the pretest/posttest sample, N = 122 for all items except 13 and 2, where N = 45. Sample sizes depended on which version of the 2020 Census Assessment was completed. \* $p \le .05.~^*p \le .01.$ 

correct answer of "persons," compared to other governmental agencies or courts (Item response rate for this item.

Slightly less than half of students knew that the census is required by the U.S. Constitution (Item 4) or that census information is *not* used to determine how much tax individuals will pay (Item 12). Just less than half of students knew census data were used to make decisions about funding public education, Medicare, and Pell grants, but not military bases (Item 2). These results suggest that students need opportunities to develop knowledge about why the census matters and its value in democratic and social institutions.

# Learning Objective 2

The 2020 Census Assessment included two items related to Learning Objective 2 regarding college students knowledge of how to go about participating in the 2020 Census. One assessment item inquired how a student who is from out-of-town but living in a residence hall should participate. Another item inquired about how students who are living off-campus in an apartment together should participate. As shown in the Pretest Sample column in Table 2, slightly less than half (46%) of the respondents knew that a student living in a residence hall should be counted in the census with the residence hall as their place of residence (Item 5). In contrast, only 18% of students knew the appropriate procedures for students living together in an off-campus apartment to complete the 2020 Census. Results on these items suggest that students need opportunities to develop skills for participating effectively in the census.

### Learning Objective 3

The 2020 Census Assessment included three selected the correct response at posttest. On items to help us understand what students some items a sizable percentage of students know about the kind of information obtained still did not choose the correct response at from people and knowledge of the laws posttest. For instance, at posttest about 40% pertaining to the use of the personal infor- of students still responded that the 2020 mation collected. As shown in the Pretest Census collects political party affiliation and Sample column in Table 3, results indicate U.S. citizenship status. the majority of students (61%) know personal information cannot be shared with

45% who selected the incorrect answer of 9). However, more than half (56%) of stu-"citizens." It is important to recall that the dents erroneously believed the 2020 Census Trump administration made a bid to include collects political party affiliation (Item 8), a question about citizenship on the 2020 and a much larger percentage (86%) re-Census and explicitly aimed to exclude im- sponded that the 2020 Census would colmigrants living in the United States without lect status on U.S. citizenship (Item 7). As government documents from census counts, mentioned above, the Trump administrawhich could account for such a low correct tion attempted to include a question on the 2020 Census to collect citizenship status, which led to mis-, dis-, and malinformation about what information was actually collected in the count. Results on these items also demonstrate knowledge development opportunities.

## RQ2: To what extent does students' knowledge about the 2020 Census change over time?

The percentages of students in the pretest/posttest sample selecting the correct response to each item at both pretest and posttest are shown in Tables 1–3 and Figure 1. The results suggest that students' mastery of the learning objectives associated with the 2020 Census Education and Engagement Program increased over time. For all items, more students selected the correct response at posttest than at pretest. McNemar's test was used to ascertain if the percentages of students selecting the correct answer at pretest and posttest significantly differed from one another. Differences between posttest and pretest were statistically significant for 12 of the 15 items.

The two items with the largest changes include Items 7 and 6. A correct answer to Item 7 required students to know that U.S. citizenship status is not collected on the 2020 Census. Only 17% of students selected the correct answer to this item at pretest, and a substantially larger percentage, 63%, selected the correct answer at posttest. A correct answer on Item 6 required identification of the appropriate procedures for 2020 Census participation for students living together in an off-campus apartment. Whereas only 22% of students selected the correct response at pretest, over half (51%)

Table 2. Learning Objective 2 Results

		Percent	Percentage selecting correct response	correct		McNemar's test (df = 1)	est ( <i>df</i> = 1)
Item		Pretest	Pretest/posttest $(N = 45)$	Pretest/posttest sample $(N = 45)$	Difference	\$	٥
#	item (confect answer bolded)	(N = 887)	Pretest	Posttest	(positest)	<b>'</b> <	J.
	Wade is from Localtown and started at James Madison University in Harrisonburg, VA in August 2019. He has lived in a residence hall since that time. Does Wade need to be counted in the census and if so, how?						
	a. Since Wade is a college student, he does not need to be counted in the census.	,	1				
Ω	<ul> <li>b. Since Wade is a college student, he should be included and Wade's guardian(s) in Localtown should include him when filling out the census.</li> </ul>	94	53	ე ე		1.96	.162
	c. Since Wade is a college student, he should be included and his place of residence is in Harrisonburg, VA when completing the census.						
	Liz and Heather are James Madison University students who live off campus in an apartment. Do they need to be counted in the census and if so, how?						
	a. Since they are college students, they do not need to be counted in the census.						
9	<ul> <li>b. Since they are college students, their guardian(s) should include them when filling out the census.</li> </ul>	8	22	51	59	11.27	.001**
	<ul> <li>Conly one of them (either Liz or Heather) needs to fill out the census for their residence and include all residents in the apartment.</li> </ul>						
	d. Liz and Heather each need to each fill out the census separately.						
*	5						

Table 3. Learning Objective 3 Results

		Percent	Percentage selecting correct response	correct	,	McNemar's	McNemar's test (df = 1)
Item		Pretest	Pretest/post	Pretest/posttest sample	Difference	\$	\$
#	itelli (collect albwel bolded)	sample	Pretest	Posttest	(positest-	<b>'</b> <	2.
თ	Personal information collected via the federal census can be shared at any time with other governmental agencies or courts. (True/False)	61	71	80	O	1. 4.	.285
ω	The 2020 Census collects information from individuals about: Political party affiliation. (True/False)	44	48	09	17	8.00	.005**
_	The 2020 Census collects information from individuals about: U.S. Citizenship status. (True/ <b>False</b> )	4	17	63	46	54.07	<.001**
Note	Note. For the pretest sample, $N = 1.947$ for Items 7 and 8 and $N = 887$ for Item 9. For the pretest/posttest sample, $N = 122$ for Items 7 and 8 and $N = 45$ for Item 9. Sample size	sample, N =	122 for Item	s 7 and 8 and	1 N = 45 for It	em 9. Sampl	e size

Note: For the prefest sample, N=1,947 for items 7 and 6 and N=667 for item depended on which version of the 2020 Census Assessment was completed. \*\* $\rho \le .01$ .

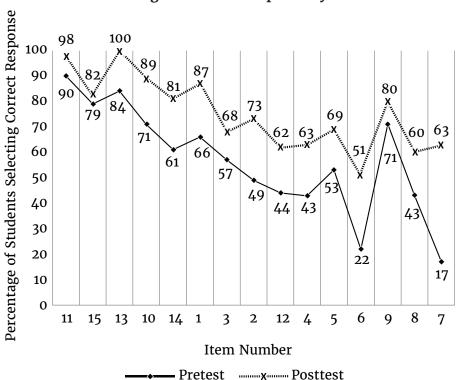


Figure 1. Percentage of Students in the Pretest/Posttest Sample Selecting the Correct Response by Item

RQ3: To what extent are students participating in activities developed for and promoted by the 2020 Census Education and Engagement Program?

The percentage of students reporting participation in each 2020 Census Education and Engagement Program activity and activities the program with others, completing the census) is provided in Table 4, recognizing that some activities could have come from outside the program (e.g., seeing a post on social media about the 2020 Census). Although operating during a chaotic information environment, many students reported receiving communications that were part of the 2020 Census Education and Engagement Program. For instance, 79% reported receiving a university-wide email about the 2020 Census, 69% saw a social media post (which may or may not have been from the university), 64% saw an alert on the university's primary learning management platform, and 56% noticed an alert = .31, p < .001). Discussions with families on the administrative platform for students, were also significantly correlated with where they can register for classes, manage seeing social media posts (r(120) = .30, p <financial aid, apply for graduation, and so .001). In addition, discussions with roomon. A little less than half (46%) received in - mates/friends were significantly correlated

one third received a university text message (35%). Students also reported discussing the 2020 Census with others. More students reported discussing the census with their families (68%) or roommates/friends (44%) than with students in their classes (20%). However, it should be noted that class meetpromoted by the program (e.g., discussing ings moved to virtual-only format during this time.

As noted in Table 4, discussions with families/roommates/friends were heavily promoted by the 2020 Census Education and Engagement Program. Such discussions with others were positively correlated with the messaging students received as part of the program, indicating that student exposure to aspects of the program stuck with them and benefited their networks. For example, discussions with roommates/friends were significantly correlated with receiving text messages (r(120) = .24, p = .008) and seeing a video about the 2020 Census (r(120)formation from their professors, and about with discussions with families (r(120) =

.33, p < .001), and both kinds of discussions RQ4: Is change in knowledge about the were correlated with classroom discussions 2020 Census related to participation in (r(120) = .41, p < .001 and r(120) = .26, p = 2020 Census Education and Engagement.003, respectively).

Perhaps not surprisingly, especially given the onset of the COVID-19 pandemic, activities that required more effort were less common. For instance, only 27% of students took action to learn about the 2020 Census by visiting the 2020 Census Education and Engagement Program's website, and far time point and then a difference score was fewer (5% or less) asked questions via social computed from the pretest and posttest media, email, or tables on campus.

Program activities?

To ascertain the relationship between change over time in knowledge and participation in program activities, we used only those students in the pretest/posttest sample who had been administered all 15 2020 Census Assessment items on Assessment Day. Items were summed to create a total score at each totals. The difference score was then corre-

Table 4. Percentage of Students Reporting Participating in Each 2020 Census Education and Engagement Program Activity or Activities **Promoted by Program** (N = 122)

Item	%
Complete the 2020 Census Assessment during February 2020 Assessment Day	100
Receive an email from campus administrators with information about the 2020 Census <sup>a</sup>	79
See a post on social media about the 2020 Census <sup>b</sup>	69
Discuss the 2020 Census with your families <sup>a</sup>	68
See a Canvas alert about the 2020 Census <sup>a</sup> (learning management platform)	64
See a MyMadison alert about the 2020 Census <sup>a</sup> (administrative platform)	56
Receive an email or receive other communications from a professor with information about the 2020 Census <sup>a</sup>	46
Discuss the 2020 Census with roommates or friends <sup>a</sup>	44
Receive a text message from James Madison University about the 2020 Census <sup>a</sup>	35
Coordinate 2020 Census completion with roommates <sup>a</sup>	30
See a video about the 2020 Census <sup>b</sup>	30
Review information about the 2020 Census on the James Madison University website <sup>a</sup>	27
Discuss the 2020 Census with other students in your classes <sup>a</sup>	20
Ask questions about the 2020 Census on social media or by email <sup>b</sup>	5
Ask questions about the 2020 Census at a table on campus <sup>a</sup>	3
Attend a virtual discussion about the 2020 Census <sup>b</sup>	2
Update your social media profile picture to include a frame indicating you had completed the 2020 Census <sup>a</sup>	2
Participate in the Student Government Association/James Madison University 2020 Census art/video/photo contesta	2

Note. Considering that many of these items inquired about information that was sent to all students regarding implemented program activities, results are indicative of whether students noticed the implemented activity.

<sup>&</sup>lt;sup>a</sup> Activity specifically promoted by the 2020 Census Education and Engagement Program.

<sup>&</sup>lt;sup>b</sup> Activity may have been experienced through program or outside program or both.

(r(43) = .15, p = .341).

# RQ5: Did students complete the 2020 Census and is completion related to participation in 2020 Census Education and Engagement Program activities?

on the university's administrative plat-(r(120) = .49, p < .0001) or family members administration. (r(120) = .19, p = .04).

#### Conclusion

To provide information about the purposes of the 2020 Census and logistics for participation, a campus center for civic engagement and students in a political science class developed and implemented the campuswide 2020 Census Education and Engagement Program. To inform the learning objectives of the program, the 2020 Census Assessment was developed and administered to almost 2,000 students. Results were incredibly useful for understanding gaps in students' knowledge about the importance of the 2020 Census and what they needed to know to participate. Findings indicate many students are Although knowledge acquisition is imporaware of the purpose of the census, but also tant, the ultimate goal of the program was reveal a troubling number of students who to promote completion of the 2020 Census. don't know what information is being col- In April 2020, 57% of students in the prelected and how that information is used. test/posttest sample reported completion. The results also indicated most students This rate is encouraging, given that it was are unclear about the logistics for partici- based on data collected soon after the 2020 pation. That students fared much better on Census participation window opened and

lated with the total number of activities the could be a reflection of the emphasis placed student indicated they had participated in on on knowledge acquisition in modern civic the 2020 Census Education and Engagement education. As other scholars have also Program Participation Survey. The corre- found, our results indicate young people lation was small but positive, indicating need more education and opportunities to greater participation was related to greater develop important civic skills and to parincreases in knowledge. The relationship, ticipate in critical democratic practices and however, was not statistically significant institutions rather than solely focusing on knowledge (Hart & Youniss, 2018; Holbein & Hillygus, 2020).

A subset of students voluntarily completed the 2020 Census Assessment again later in the Spring 2020 semester. This allowed us to explore change over time in 2020 Census Completion of the 2020 Census was the knowledge. More students selected the cormost critical activity promoted by the 2020 rect answer at posttest on almost all items, Census Education and Engagement pro- with statistically significant gains on the gram. Of the 122 students, 69 (57%) re- majority of them. Even though it is encourported completing the 2020 Census at the aging to see increases in knowledge, it is time of posttest, and 30% reported coordi- disappointing that on some items, a sizable nating with their roommates to do so. Each percentage of students still did not perform of the program activities in Table 4 was cor- well at posttest. For instance, at posttest related with 2020 Census completion, and about 40% of students still believed the four correlations were statistically signifi- 2020 Census collects political party affiliacant. Specifically, 2020 Census completion tion and citizenship status. However, such was positively and significantly correlated misconceptions are not necessarily surpriswith asking questions on social media or by ing given the politicization of whether the email (r(120) = .18, p = .05), seeing an alert census would include a citizenship question and significant mis-, dis-, and maform (r(120) = .19, p = .03), and discussing linformation in the news ecosystem and the 2020 Census with roommates/friends emanating from President Trump and his

> The pretest/posttest design permitted exploration into whether students can accrue knowledge about the census, and results strongly indicate that they can. Of course, why knowledge changed is a relevant question. Many 2020 Census Education and Engagement Program activities (e.g., emails, social media alerts) were designed to raise awareness and share resources, but did not require students to carefully digest or study the information provided in the resources. Although it is possible program activities designed to facilitate more meaningful engagement with informational materials increased knowledge, the study design did not permit quality assessment of such activities.

questions about the purpose of the census as students were inundated with messages

much as in voting studies, is likely exagger—information collected is used. ated relative to actual participation (Górecki, 2011). It's also worth noting that the Census Bureau reported large overcounts for the 18–24 age group, but undercounts for the 25–29 age group in the 2020 Census (Jensen & Kennel, 2022).

Unlike gains in knowledge, participation ful changes in knowledge about the 2020 in particular activities was associated with Census and logistics for participation. We 2020 Census completion. Some activities suspect these program elements affected associated with census completion were knowledge and 2020 Census completion part of the 2020 Census Education and and regret not collecting data immediately Engagement Program (e.g., alerts on the before and after such activities to capture university's administrative platform). Other their relative effectiveness. Program eleactivities associated with completion may ments with the potential to alter such outor may not have been part of the program comes (e.g., participating in virtual class-(e.g., social media alerts). Still other activi- room discussion, watching a video about ties were heavily promoted by the program, the 2020 Census) were not as widespread but may or may not have occurred as a result and often relied on voluntary participaof program participation (e.g., discussing tion because of the COVID-19 pandemic. census with others).

#### Limitations and Future Directions

There are several limitations to the study and opportunities for future research and improvements to the program. First, the generalizability of the findings is limited by the collection of data at a single university and further limited to students with 45-70 credit hours at pretest and those voluntarily responding at posttest. Second, program participation, implementation, and data collection were impacted by COVID-19. Pretest data collection occurred before national shutdowns, but posttest data collection occurred in April 2020, and many of the program activities were implemented during the chaotic months of March through September 2020. The rates of participation in the program, posttest data collection, and 2020 Census itself are impressive, given this chaotic context, and encouraging for future program implementation under stressful On the whole, results from the pretest adcircumstances. Third, other objectives as-

about the global pandemic and needing Especially given the politicization of the to make alternative living arrangements. census, future research should explore how However, we also recognize it is based only information ecosystems affect attitudes and on a subset of students at the university and understanding of the census, why it matters, also on self-reported participation, which, what information is collected, and how the

> Fourth, many of the program elements that were easy to implement and able to reach a large number of students (e.g., emails, social media posts) were designed to increase awareness about the census, but may have limited utility in fostering meaning-Showcasing the effectiveness of such activities would provide a solid argument for their future implementation, ideally required of all students.

> Perhaps the most meaningful knowledge gains were for students in the political science course who had the opportunity to spend an entire semester learning about the census and developing and applying civic skills through creating and implementing the 2020 Census Education and Engagement Program. A future project will discuss the extent to which these students experienced changes in knowledge and skill development. Students also reported that the course showed them the value of civic engagement and expressed the importance of learning how to identify issues and work on them in the community for the greater good.

# **Implications**

ministration strongly suggest the need for sociated with the 2020 Census Education census education and engagement programand Engagement Program require further ming targeted to college students. Results consideration. For instance, this study did also suggest that such knowledge is malnot address the extent to which students leable, providing further support for provalue the completion of the census. Thus, gram development and implementation. In future research should consider how pro- addition, our findings suggest that higher gram activities affect not only knowledge education can impact census completion and and behavior, but also attitudes toward the take a range of actions to support the census. census. It also did not measure political Our study provides objectives for such a ideology as a potential intervening variable. program, program activities, and assessour research design.

We also provide an example of how students can be involved in program creation. Although our focus in this study was on the students for whom the program was intended, we learned from course evalua- Unfortunately, however, these efforts are tions and interviews that students involved undermined by exploitive and extractive in program creation were affected in even institutional practices that are often (though more positive ways. This outcome sug- not exclusively) initiated outside academic gests that experiential learning opportuni- and student affairs units. Davarian L. ties through coursework can contribute to Baldwin (2021) prominently chronicled ways knowledge and skill development. Recent that institutions of higher education exacscholarship has emphasized that practicing erbate the same problems community-endemocratic engagement in academic set- gaged scholars and practitioners are trying tings is superior to rote memorization as a to solve. Such interference often comes in means to develop knowledge and encourage the form of expanding campus footprints, future participation (Hart & Youniss, 2018; real estate development, elevated housing Holbein & Hillygus, 2020). Of course, more costs, expanded campus policing without evidence is needed, though understanding public oversight, service worker exploitawhat activities promote knowledge, skills, tion, and psychological and physical wedges and actual democratic engagement can between campuses and the communities better position scholars, practitioners, ad- many of us hope to serve. Scholars and ministrators, funders, and policymakers to practitioners in the field should pay close prepare students for meaningful participa— attention to threats to community engage tion in civic life.

Students and communities benefit when institutions of higher education invest in efforts to educate people on the census and encourage participation. This work fits within a larger movement for campuses to

ment tools other colleges and universities tant networks for scholars and practitiomay want to consider for the next decennial ners engaged in these efforts. Developing census, along with suggested improvements and implementing a campuswide census to the existing program, its assessment, and program checks all of the right boxes. It simultaneously addresses an important community need while better preparing all students for participation in civic life and merits the attention more typically placed on service-learning and voter education.

> ment and outreach that come from within our institutions. We fear that community engagement is justifiably perceived as window-dressing for larger business practices that shape relationships with partner organizations and the people we hope to serve.

serve as anchor institutions in their locali- Colleges and universities should assume an ties, connect student learning to commu- important position in efforts to strengthen nity-based issues, and reengage the public democracy while promoting desirable civic mission of higher education. The momen- behaviors and educating students on how tum is promising. More than 350 colleges to engage in democratic practices, instituand universities currently hold Carnegie's tions, and processes (National Task Force on Elective Classification for Community Civic Learning and Democratic Engagement, Engagement, which formally recognizes 2012). Our findings provide evidence that institutions of higher education for foster- student participation in democracy need ing mutually beneficial collaboration be- not to be left to chance, and institutions tween campuses and broader communities can successfully embed civic learning into (Carnegie Foundation & ACE, n.d.). Further, campus programs and discourse. Doing so outlets such as the Journal of Higher Education aligns the interests of students, campuses, Outreach and Engagement and International and the communities in which they reside. Journal of Research on Service-Learning and Colleges and universities aiming to con-Community Engagement have provided tribute to strengthening democracy and the countless scholarly and reflective articles communities in which they are embedded to promote good practices for community- can develop census education and engageengaged learning. Organizations such as ment courses and programs as an element Campus Compact and the Students Learn of broader efforts to prepare students to be Students Vote Coalition have built impor- active and informed participants in civic life.

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