



# Collection and Availability of Data on Race, Ethnicity and Immigrant Groups in Federal Surveys that Measure Health Insurance Coverage and Access to Care

## AUTHORS

**Sydney Bernard, MPH**  
Research Assistant, SHADAC

**Carrie Au-Yeung, MPH**  
Research Fellow, SHADAC

## SUMMARY

This brief presents the collection and classification of survey data for populations defined by race, ethnicity, and nativity/immigrant status as well as the availability of these data in public use files.

**Stay updated on our latest work by subscribing to our newsletter!**

## INTRODUCTION

Measurement of race and ethnicity is a critical component of research used to inform policy. However, the standards for measuring race and ethnicity are often confusing for analysts. This brief is intended to assist state and federal analysts with survey development and/or analysis of existing survey data to generate estimates of health insurance coverage and access to care across racial and ethnic groups and according to nativity and/or immigrant status. We discuss the collection and classification of survey data for populations defined by race, ethnicity, and nativity/immigrant status and the availability of these data in public use files.

This brief focuses on surveys that are conducted by federal agencies and that collect information about health insurance coverage and access to care on an annual or periodic basis for the general population of the United States. While tracking national trends is important, policy decisions and funding priorities are typically made at the state and local level. Thus, our emphasis will be on federal sources that afford both national and state-level estimates through public use files. Selected surveys and their associated agencies are listed in Exhibit 1.

### Exhibit 1. Federal Surveys Examined in this Issue Brief

Census Bureau	National Center for Health Statistics	Centers for Disease Control and Prevention	Agency for Healthcare Research and Quality
American Community Survey (ACS) Current Population Survey (CPS) National Survey of Children's Health (NSCH) Survey of Income and Program Participation (SIPP)	National Health Interview Survey (NHIS)	Behavioral Risk Factor Surveillance System (BRFSS)	Medical Expenditure Panel Survey—Household Component (MEPS)

Note: The Census Bureau's COVID-19-related Household Pulse Survey (HPS) also provides estimates of insurance coverage at the state level. However, we did not include the HPS in this analysis as it is scheduled to be discontinued after October 2021.

## Background

Standards for the collection and classification of race and ethnicity in federal surveys were first developed by the Office of Management and Budget (OMB) in 1977 and were revised in 1997. These standards were not meant to define the concepts of race or ethnicity; they were intended only to establish uniform guidelines for collecting and publishing data on race and ethnicity across federal agencies.

Major 1997 OMB directives related to collecting data on race and ethnicity were threefold:

- 1) Rely on self-identification of race and ethnicity rather than on interviewer observation;
- 2) Include two separate questions on race and ethnicity, with ethnicity coming first; and
- 3) Allow for identification of more than one race.

# Collection and Availability of Data on Race, Ethnicity and Immigrant Groups in Federal Surveys that Measure Health Insurance Coverage and Access to Care

## FURTHER READING

Learn more about the Census Bureau guidelines in [“Collection of Race, Ethnicity, Language \(REL\) Data in Medicaid Applications,”](#) prepared by SHADAC for State Health & Value Strategies.

It is important to note that the OMB standards represent minimum requirements, and surveys can collect more detailed information as long as these basic standards are met. As a result, while all federal surveys are governed by the same OMB guidelines, many surveys—including the ones examined here—implement these guidelines differently, resulting in race and ethnicity data that are not always comparable across surveys. In addition, the U.S. Census Bureau research has specified optimal ways of collecting race and ethnicity information that do not always agree with the OMB standards; for instance, the race/ethnicity optimal question format should, according to Census Bureau recommendations, be in one question rather than two (Matthews et al., 2017). The surveys in this brief also differ from one another on design components such as target population, sample design and size, and year and frequency of data collection. Exhibit 2 provides an overview of each survey with respect to frequency of data collection, target population, the most recent public use data available, and overall sample size.

**Exhibit 2. Public Use Data Files Examined in this Brief**

Survey	Periodicity	Target Population	Most Recent Year of Data	Total Unweighted Sample Size <sup>1, 2</sup>	State Data Available in Public Use Files
ACS	Annual	Civilian, non-institutionalized U.S. population	2019	3,239,553	Yes
BRFSS	Annual	U.S. children > 18 years	2019	416,193	Yes
CPS	Annual	Civilian, non-institutionalized U.S. population	2019	157,681	Yes
MEPS-Household	Panel	Civilian, non-institutionalized U.S. population	2018	30,245	No, Restricted
NHIS	Annual	Civilian, non-institutionalized U.S. population	2019	41,054	No, Restricted
NSCH	Periodic	U.S. children <18 years	2019	28,973	Yes
SIPP	Panel	Civilian, non-institutionalized U.S. population	2018	63,841	Yes

<sup>1</sup> Number of total observations with non-missing data on race/ethnicity and Medicaid/coverage status

<sup>2</sup> When examining these surveys, we utilize a sample threshold of a numerator of 5 and denominator of 50.

## Race Measures

In accordance with the 1997 OMB revisions, all seven surveys examined here allow respondents to select one or more races. For those who select more than one race response, two surveys (BRFSS and NHIS) ask a follow-up question regarding which of the multiple races “best” identifies the respondent.

The following summarizes the collection of race data by the seven surveys of interest according to the five minimum standard OMB categories (Exhibit 3).

- **White:** All seven surveys have a single comparable response option for this group.
- **Black:** All seven surveys have a single comparable response option for this group.
- **AIAN:** None of the surveys delineate between American Indian and Alaska Native. There are options to name the enrolled tribe in the ACS race question.
- **Asian:** All seven surveys provide the principle Asian sub-categories (Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, and Other Asian), though in some cases these sub-categories are contained in the original race question and in other cases they are contained in follow-up questions.
- **NHOPI:** All seven surveys provide the four principle NHOPI sub-categories, though in some cases these sub-categories are contained in the original race question and in other cases they are contained in follow-up questions.
- **Other:** “Other” is an OMB-mandated category, but specification is not required. However, five of the seven surveys of interest—the ACS, CPS, MEPS, NHIS, and SIPP—allow for write-in of what the “other” classification is, with the ACS including this option within the original race question.

## Collection and Availability of Data on Race, Ethnicity and Immigrant Groups in Federal Surveys that Measure Health Insurance Coverage and Access to Care

**Exhibit 3. Race Group Categories Collected in Selected Federal Surveys**

Race Group Category	ACS 2019	BRFSS 2019	CPS 2019	MEPS 2018	NHIS 2019	NSCH 2019	SIPP 2018
White	X	X	X	X	X	X	X
Black or African American	X	X	X	X	X	X	X
AIAN	X	X	X	X	X	X	X
<i>American Indian</i>							
<i>Alaska Native</i>							
Asian		X	X		X		
<i>Asian Indian</i>	X	X*	X*	X	X*	X	X
<i>Chinese</i>	X	X*	X*	X	X*	X	X
<i>Filipino</i>	X	X*	X*	X	X*	X	X
<i>Japanese</i>	X	X*	X*	X	X*	X	X
<i>Korean</i>	X	X*	X*	X	X*	X	X
<i>Vietnamese</i>	X	X*	X*	X	X*	X	X
<i>Other Asian</i>	X	X*	X*	X	X	X	X
NHOPI		X	X				
<i>Native Hawaiian</i>	X	X*	X*	X	X	X	X
<i>Pacific Islander</i>							
<i>Guamanian or Chamorro</i>	X	X*	X*	X	X*	X	X
<i>Samoan</i>	X	X*	X*	X	X*	X	X
<i>Other Pacific Islander</i>	X	X*	X*	X	X	X	X
Other	X	X	X	X	X	X	X
<i>Other Race specified</i>	X		X*	X*	X*		X*

\* These subcategories were not provided as response options to the initial race question; they were provided to respondents only on follow-up when the major category was selected.

### Race Data Availability

Federal surveys may measure race at a higher level of detail than required by OMB standards, but this level of detail is not always be publicly available for data analysis because of data confidentiality rules. Exhibit 4 shows race groups identified in the public use data for the seven surveys of interest along with unweighted sample sizes for each group. In order to provide roughly comparable information on available sample size across the surveys, we recoded information to reflect commonly used race categories. Note that some surveys do not support analysis by all of the categories; for example, the BRFSS does not break out NHOPI.

**Exhibit 4. Unweighted Sample Size<sup>1</sup> for OMB Race Groups in Public Use Data for Selected Federal Surveys**

OMB Race Group	ACS 2019	BRFSS 2019	CPS 2019	MEPS 2018	NHIS 2019	NSCH 2019	SIPP 2018
White, non-Hispanic	2,196,229	317,177	94,780	15,714	26,766	20,144	38,884
Black, non-Hispanic	293,243	31,549	17,074	4,504	4,476	1,834	7,298
AIAN, non-Hispanic	27,538	6,639	1,875	138	278	170	457
Asian, non-Hispanic	177,390	9,243	9,973	940	2,152	1,386	3,448
NHOPI, non-Hispanic	4,773	N/A	625	696	331	74	171
Other, Multiple Races, non-Hispanic	81,873	14,303	3,475	983	751	1,918	1,541

Note: Some groups are double-counted in this table. The ACS, CPS, and MEPS have variables that provide detailed subcategories of "Asian." The CPS has detailed identifiers for multiple race combinations.

<sup>1</sup> Number of total observations with non-missing data on race/ethnicity and Medicaid/coverage status.

## Ethnicity Measures

In federal surveys, ethnicity refers to Hispanic ethnicity. The minimum OMB standard for collecting data on ethnicity includes the options: 1) Hispanic/Latino or 2) Not Hispanic/ Latino. All seven surveys examined here specifically ask about Hispanic or Latino origin (and in some cases, Spanish as well), using three main formulations for the ethnicity question: whether the respondent is Hispanic, Latino, or Spanish origin; what Hispanic/Latino group represents the respondent's ethnic background; or whether the person considers themselves to be Hispanic or Latino. All seven surveys also include further identifying categories of Hispanic origin as a follow-up question to the primary ethnicity question (Exhibit 5).

**Exhibit 5. Ethnicity Group Categories Collected in Selected Federal Surveys**

Ethnicity Group	ACS 2019	BRFSS 2019	CPS 2019	MEPS 2018	NHIS 2019	NSCH 2019	SIPP 2018
<b>Not Hispanic or Latino</b>	X	X	X	X	X	X	X
<b>Hispanic or Latino</b>	X	X	X	X	X	X	X
<b>Mexican, Mexican-Am., Chicano</b>	X	X		X	X	X	
<i>Mexican</i>			X	X			X
<i>Mexican-American</i>			X				X
<i>Chicano</i>			X				X
<b>Puerto Rican</b>	X	X	X	X	X	X	X
<b>Cuban/Cuban-American</b>				X			
<i>Cuban</i>	X	X	X		X	X	X
<i>Cuban-American</i>			X				X
<b>Dominican</b>	X*		X*	X	X		
<b>Central or South American</b>				X			
<i>Central American</i>					X		
<i>Central American, exc. Salv.</i>			X*				
<i>Costa Rican</i>	X*						
<i>Guatemalan</i>	X*						
<i>Honduran</i>	X*						
<i>Nicaraguan</i>	X*						
<i>Panamanian</i>	X*						
<i>Salvadoran</i>	X*		X*				
<i>Other Central American</i>	X*						
<i>South American</i>			X*		X		
<i>Argentinean</i>	X*						
<i>Bolivian</i>	X*						
<i>Chilean</i>	X*						
<i>Colombian</i>	X*						
<i>Ecuadorian</i>	X*						
<i>Paraguayan</i>	X*						
<i>Peruvian</i>	X*						
<i>Uruguayan</i>	X*						
<i>Venezuelan</i>	X*						
<i>Other South American</i>	X*						
<b>Spaniard</b>	X*						
<b>Other Latin American</b>				X			
<b>Other Hispanic/Latino/Spanish</b>	X	X	X	X	X	X	X
<b>Multiple Categories Allowed</b>		X		X	X		X
<b>Other Category Specified</b>	X		X		X		X

\*Asterisks denote categories that are not specified in survey questions but are reported as open-ended "other" responses.

## Ethnicity Data Availability

As with race, federal surveys may measure ethnicity at a high level of detail, but this level of detail may not always be publicly available for data analysis because of data confidentiality rules. Exhibit 6 shows ethnicity group identifiers in the public use data and corresponding unweighted sample sizes for each of the seven surveys of interest.

**Exhibit 6. Unweighted Sample Size for Ethnicity Groups in Public Use Data for Selected Federal Surveys**

<b>Ethnicity Group</b>	<b>ACS 2019</b>	<b>BRFSS 2019</b>	<b>CPS 2019</b>	<b>MEPS 2018</b>	<b>NHIS 2019</b>	<b>NSCH 2019</b>	<b>SIPP 2018</b>
<b>Not Hispanic or Latino</b>	2,781,046	378,911	127,802	22,975	34,754	25,526	51,799
<b>Hispanic or Latino</b>	458,507	37,282	29,879	7,270	6,300	3,447	12,042
<b>Hispanic, Mexican, Mexican-Am</b>					3,669		
<b>Mexican, Mexican-Am., Chicano</b>				4,760			
<i>Mexican</i>	282,466		18,485				
<b>Puerto Rican</b>	43,766		2,421	576			
<b>Cuban/Cuban-American</b>				301			
<i>Cuban</i>	19,721		1,046				
<b>Dominican</b>	13,598		942	188			
<b>Central or South American</b>				927			
Central American, exc. Salv.			1,850				
<i>Costa Rican</i>	1,400						
<i>Guatemalan</i>	10,737						
<i>Honduran</i>	6,675						
<i>Nicaraguan</i>	3,482						
<i>Panamanian</i>	1,611						
<i>Salvadoran</i>	15,941		1,050				
Other Central American	334						
South American			2,013				
<i>Argentinean</i>	2,690						
<i>Bolivian</i>	1,020						
<i>Chilean</i>	1,436						
<i>Colombian</i>	9,890						
<i>Ecuadorian</i>	5,115						
<i>Paraguayan</i>	242						
<i>Peruvian</i>	5,252						
<i>Uruguayan</i>	556						
<i>Venezuelan</i>	4,105						
Other South American	169						
<b>Spaniard</b>	7,660						
<b>Other Hispanic/Latino/Spanish</b>	20,641		2,072	405	2,540		
<b>Multiple Hispanic</b>				113			
<b>Unknown</b>					31		

\*Some groups are double-counted in this table.

## Immigrant Status Measures

There are no OMB standards for the collection of data on immigrant groups. We reviewed survey questionnaires to determine what data are collected related to immigrant status, with particular attention to information that will allow analysts to distinguish specific immigrant groups or, at a minimum, identify foreign-born respondents for subgroup analyses. Across surveys, three main concepts related to immigrant status are captured: nativity (country of birth), time lived in the U.S., and path to U.S. citizenship. Exhibit 7 shows summarizes the collection of data around these three immigration concepts by the seven surveys of interest.

**Exhibit 7. Immigrant-Status Related Concepts Collected in Selected Federal Surveys**

Ethnicity Group	ACS 2019	BRFSS 2019	CPS 2019	MEPS 2018	NHIS 2019	NSCH 2019	SIPP 2018
<b>Nativity</b>	X		X	X	X	X	X
Respondent	X		X	X	X	X	X
Other Household Members	X		X				X
Mother			X			X	X
Father			X			X	X
<b>Time Lived in the U.S.</b>	X		X	X	X	X	X
Respondent	X		X	X	X	X	X
Other Household Members	X		X				X
Mother						X	
Father						X	
<b>Path to U.S. Citizenship</b>	X		X		X		X
Are you a citizen?	X		X		X		X

### Immigrant Group Data Availability

We reviewed data files for each of the seven federal surveys examined here to determine whether respondents could be grouped as U.S. or foreign born and whether detailed information on country of origin was available for those identified as foreign born. Exhibit 8 shows the immigrant group data availability and corresponding unweighted sample sizes for each group within surveys.

**Exhibit 8. Unweighted Sample Size for Immigrant Groups in Public Use Data for Selected Federal Surveys**

Immigrant Group	ACS 2019	BRFSS 2019	CPS 2019	MEPS 2018	NHIS 2019	NSCH 2019	SIPP 2018
<b>U.S. Born</b>	2,862,760		136,813	25,494	34,971	28,251	54,466
<b>Foreign Born</b>	376,793		20,868	4,607	5,225	433	9,375
Latin America	166,219		11,004				
Europe	49,188		1,711				
Africa	17,079		1,124				
Asia	132,556		6,534				
Other North America	9,105		296				
Oceania and at Sea	2,437		152				
Puerto Rico and U.S. Island Areas	209						
Elsewhere			47				
<b>Unknown</b>				144	858	289	0

Note: The 2019 CPS specifies 161 countries and areas of the world. These are collapsed into larger geographic areas for this table.

### State and Local Level Data

Sample sizes for race, ethnic, or immigrant groups vary depending on the state or the REI group of interest. Even with publicly available geographic identifiers, the sample sizes for specific REI groups at lower levels of geography may be compromised. For example, BRFSS has relatively large samples of AIAN (n=6,639) and Asian (n=8,531) subpopulations. However, in Minnesota there are only 170 AIAN and 287 Asian respondents in the 2019 sample, precluding comprehensive research on health equity for these groups in this state that has a large Asian population and one of the larger American Indian populations. Appendix A to this brief shows unweighted sample sizes for selected REI groups by state for the five surveys that contain state identifiers in the public use files (ACS, BRFSS, CPS, NSCH, and SIPP).

## CONCLUSIONS

This brief is intended to draw attention to the way in which data on race, ethnicity, and immigrant groups are measured, collected, and available in federal surveys that measure health insurance coverage. Since all of the surveys reviewed are conducted by federal agencies, they are all governed by the same OMB standards for the collection and classification of data on race and ethnicity. Even so, there are some differences in the implementation of the minimum standards, and while the surveys reviewed are rich with questions on race, ethnicity, and immigrant groups, not all data collected are available in public use files. Given that many decisions regarding coverage and access to care are made at the state and local levels, having good data to inform practice and policy recommendations and to evaluate the impact for local REI populations is critical. This paucity of state and local data for REI groups from the federal surveys underscores the need for renewed initiatives to improve data collection and data availability to support state and local level activities to eliminate health inequities.

## Suggested Citation

Bernard, S., and Au-Yeung, C. (2021). "Collection and Availability of Data on Race, Ethnicity, and Immigrant Groups in Federal Surveys that Measure Health Insurance Coverage and Access to Care." SHADAC Issue Brief. Minneapolis, MN: State Health Access Data Assistance Center (SHADAC). Available at <https://www.shadac.org/publications/fed-survey-data-REI>.

## References

- Mathews, K., Phelan, J., Jones, N.A., Konya, S, Marks, R., Pratt, B.M., Coombs, J., & Bentley, M. (2017). "2015 National Content Test Race and Ethnicity Analysis Report: A New Design for the 21<sup>st</sup> Century." Washington, DC: U.S. Census Bureau. Available at <https://s3.documentcloud.org/documents/4316468/2015nct-Race-Ethnicity-Analysis.pdf>
- Office of Management and Budget (OMB). (1997). "Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity." Federal Register Notice. Washington, DC: Office of Information and Regulatory Affairs, OMB. Available at: [Revisions-to-the-Standards-for-the-Classification-of-Federal-Data-on-Race-and-Ethnicity-October30-1997.pdf \(whitehouse.gov\)](https://www.federalregister.gov/documents/1997/10/30/1195-1195-revisions-to-the-standards-for-the-classification-of-federal-data-on-race-and-ethnicity).
- Office of Management and Budget (OMB). (1977). "Directive No. 15: Race and Ethnic Standards for Federal Statistics and Administrative Reporting." Available at [1195.pdf \(fcc.gov\)](https://www.fcc.gov/1195.pdf).
- State Health Access Data Assistance Center (SHADAC). (2021). "Collection of Race, Ethnicity, Language (REL) Data in Medicaid Applications: A 50-State Review of the Current Landscape." Princeton, NJ: State Health and Value Strategies.

## Collection and Availability of Data on Race, Ethnicity and Immigrant Groups in Federal Surveys that Measure Health Insurance Coverage and Access to Care

### Appendix A. Unweighted Sample Size for Selected REI Groups by Survey and State

State	Black, Non-Hispanic					AIAN, Non-Hispanic				
	ACS	BRFSS	CPS	NSCH	SIPP	ACS	BRFSS	CPS	NSCH	SIPP
	2019	2019	2020	2019	2018	2019	2019	2020	2019	2018
Alabama	10,241	1,817	879	105	276	193	102	10	3	2
Alaska	112	52	38	8	2	1,982	339	346	26	68
Arizona	2,379	203	129	17	51	3,908	628	47	2	32
Arkansas	3,605	752	365	52	98	153	61	13	6	8
California	17,283	588	755	19	418	1,807	83	66	3	36
Colorado	1,525	249	50	11	44	286	79	6	0	8
Connecticut	2,544	633	122	20	94	52	39	1	1	0
Delaware	1,441	492	269	71	22	31	32	2	1	1
Dist. Columbia	2,292	1,302	926	128	57	11	18	2	1	0
Florida	23,226	1,643	1,070	57	508	404	175	20	0	1
Georgia	24,318	1,632	1,098	105	659	172	54	4	4	13
Hawaii	207	71	23	4	1	21	27	7	0	0
Idaho	84	18	39	3	6	242	58	36	1	12
Illinois	11,799	656	550	37	249	104	23	0	0	1
Indiana	4,112	594	248	31	113	100	57	9	0	1
Iowa	684	185	81	17	34	85	37	2	1	4
Kansas	1,119	427	83	11	24	210	121	33	4	3
Kentucky	2,616	665	137	31	91	61	59	6	0	0
Louisiana	11,307	1,166	1,123	125	317	301	71	11	6	9
Maine	146	58	20	11	0	115	65	4	1	1
Maryland	13,822	3,448	589	101	300	91	98	3	1	1
Massachusetts	3,576	401	262	23	68	76	34	9	0	1
Michigan	8,326	870	412	33	232	619	84	7	0	16
Minnesota	1,433	513	102	20	59	646	170	20	2	7
Mississippi	9,423	1,958	1,051	171	273	159	46	3	4	0
Missouri	4,823	682	261	34	159	224	74	5	1	5
Montana	39	15	20	1	0	677	494	97	10	6
Nebraska	562	314	84	13	9	251	173	38	3	4
Nevada	2,080	160	210	25	84	483	41	24	2	3
New Hampshire	151	42	22	6	0	19	30	1	1	0
New Jersey	8,374	N/A	328	32	155	113	N/A	0	0	1
New Mexico	308	74	66	8	8	2,766	532	248	16	40
New York	21,042	1,289	883	44	466	435	102	9	0	19
North Carolina	17,176	859	709	61	381	1,383	110	59	3	13
North Dakota	89	48	75	10	3	421	193	95	5	0
Ohio	10,423	797	357	31	195	133	92	9	0	1
Oklahoma	1,931	328	125	20	75	3,710	454	228	39	69
Oregon	581	66	36	12	13	509	87	29	2	7
Pennsylvania	7,691	689	358	26	249	125	31	14	0	7
Rhode Island	435	231	70	28	2	21	42	2	0	0
South Carolina	10,405	1,536	669	70	229	184	55	5	0	3
South Dakota	92	35	29	6	1	726	834	133	7	2
Tennessee	7,959	726	394	48	234	132	83	7	2	4
Texas	24,339	1,008	1,045	41	541	840	108	38	1	14
Utah	230	65	27	4	0	375	123	18	1	1
Vermont	54	28	32	7	1	19	48	5	0	0
Virginia	12,539	1,530	543	59	328	179	53	7	1	1
Washington	1,901	251	93	10	56	1,274	147	57	3	22
West Virginia	571	93	90	10	19	26	34	4	0	1
Wisconsin	1,790	230	113	9	94	437	83	18	1	9
Wyoming	38	28	14	8	0	247	56	58	5	0
U.S. Territories	N/A	32	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
<b>Total</b>	<b>293,243</b>	<b>31,517</b>	<b>17,074</b>	<b>1,834</b>	<b>7,298</b>	<b>27,538</b>	<b>6,639</b>	<b>1,875</b>	<b>170</b>	<b>457</b>



*Collection and Availability of Data on Race, Ethnicity and Immigrant Groups in Federal Surveys that Measure Health Insurance Coverage and Access to Care*

**Appendix A. Unweighted Sample Size for Selected REI Groups by Survey and State (Continued)**

State	Asian, Non-Hispanic					NHOPI, Non-Hispanic				
	ACS	BRFSS	CPS	NSCH	SIPP	ACS	BRFSS	CPS	NSCH	SIPP
	2019	2019	2020	2019	2018	2019	2019	2020	2019	2018
Alabama	593	37	57	10	20	18	N/A	6	0	0
Alaska	226	48	150	35	10	41	N/A	43	8	6
Arizona	2,159	84	99	24	18	120	N/A	11	1	14
Arkansas	332	24	49	14	6	47	N/A	2	2	0
California	61,290	943	2,445	89	1,135	1,064	N/A	86	0	33
Colorado	1,757	160	52	22	23	44	N/A	6	1	1
Connecticut	1,601	203	100	33	34	11	N/A	0	0	0
Delaware	336	70	65	41	17	1	N/A	6	1	0
Dist. Columbia	320	65	121	13	4	1	N/A	5	0	0
Florida	5,547	154	210	20	84	105	N/A	10	1	6
Georgia	3,990	111	209	36	75	45	N/A	4	1	7
Hawaii	5,232	2,312	1,056	147	101	1,485	N/A	287	26	41
Idaho	174	24	32	14	4	22	N/A	8	1	0
Illinois	6,049	211	311	41	112	29	N/A	4	0	7
Indiana	1,213	71	84	25	18	19	N/A	4	0	0
Iowa	408	82	100	16	18	16	N/A	0	0	1
Kansas	600	121	59	22	14	11	N/A	6	0	0
Kentucky	663	27	27	9	20	21	N/A	2	1	3
Louisiana	745	33	64	12	35	15	N/A	9	0	0
Maine	138	31	23	6	2	4	N/A	0	0	0
Maryland	3,911	372	212	47	83	23	N/A	0	0	0
Massachusetts	4,908	271	294	47	36	37	N/A	0	0	0
Michigan	2,440	153	168	16	45	19	N/A	0	1	3
Minnesota	1,567	287	125	33	52	9	N/A	1	1	0
Mississippi	323	15	18	6	3	3	N/A	0	1	0
Missouri	990	50	40	16	21	68	N/A	6	0	2
Montana	56	33	26	2	1	2	N/A	1	1	0
Nebraska	291	98	66	15	13	9	N/A	3	0	0
Nevada	2,433	67	221	49	68	177	N/A	13	8	9
New Hampshire	266	52	91	28	6	6	N/A	0	0	0
New Jersey	9,159	N/A	384	80	136	18	N/A	1	0	2
New Mexico	326	42	48	8	3	7	N/A	3	0	2
New York	17,867	475	718	51	315	37	N/A	2	1	4
North Carolina	2,861	58	161	24	72	58	N/A	3	0	2
North Dakota	63	42	36	9	4	8	N/A	5	2	0
Ohio	2,184	86	122	7	44	30	N/A	6	1	1
Oklahoma	627	60	72	21	23	46	N/A	1	0	0
Oregon	1,621	92	129	23	33	129	N/A	21	3	0
Pennsylvania	3,356	146	182	24	99	24	N/A	2	1	0
Rhode Island	296	88	48	24	6	2	N/A	2	3	1
South Carolina	782	40	39	13	14	37	N/A	5	0	1
South Dakota	89	13	51	12	3	8	N/A	1	1	1
Tennessee	1,071	40	43	17	26	36	N/A	7	0	0
Texas	12,802	263	644	40	277	184	N/A	8	0	10
Utah	617	113	70	7	31	178	N/A	21	5	9
Vermont	62	33	23	11	4	1	N/A	0	0	0
Virginia	5,568	208	244	54	104	51	N/A	5	0	0
Washington	6,242	461	281	45	127	418	N/A	3	0	3
West Virginia	147	12	17	8	3	1	N/A	2	0	1
Wisconsin	1,060	40	69	16	43	22	N/A	2	1	1
Wyoming	32	10	18	4	3	6	N/A	2	1	0
U.S. Territories	N/A	712	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>177,390</b>	<b>8,531</b>	<b>9,973</b>	<b>1,386</b>	<b>3,448</b>	<b>4,773</b>	<b>N/A</b>	<b>625</b>	<b>74</b>	<b>171</b>

## Collection and Availability of Data on Race, Ethnicity and Immigrant Groups in Federal Surveys that Measure Health Insurance Coverage and Access to Care

### Appendix A. Unweighted Sample Size for Selected REI Groups by Survey and State (Continued)

State	Hispanic					Foreign				
	ACS	BRFSS	CPS	NSCH	SIPP	ACS	BRFSS	CPS	NSCH	SIPP
	2019	2019	2020	2019	2018	2019	2019	2020	2019	2018
Alabama	1,484	96	199	20	64	1,405	N/A	136	51	0
Alaska	299	73	154	50	0	358	N/A	147	10	12
Arizona	17,371	1,295	1,178	197	469	7,741	N/A	441	188	9
Arkansas	1,753	156	265	59	66	1,079	N/A	150	30	3
California	128,159	4,028	6,810	194	3,520	98,573	N/A	4,325	2,433	20
Colorado	8,992	1,413	524	88	251	4,155	N/A	231	144	7
Connecticut	4,495	719	264	76	158	4,554	N/A	273	148	11
Delaware	661	444	174	55	13	766	N/A	139	26	16
Dist. Columbia	630	146	261	63	0	756	N/A	346	11	7
Florida	43,955	1,903	2,268	153	971	37,875	N/A	1,774	769	16
Georgia	7,502	567	451	71	235	8,688	N/A	435	239	10
Hawaii	1,217	567	183	65	14	2,443	N/A	445	52	15
Idaho	1,581	319	343	56	57	711	N/A	172	26	2
Illinois	14,977	814	978	81	328	13,832	N/A	703	289	5
Indiana	3,403	381	193	45	75	2,593	N/A	132	67	9
Iowa	1,379	459	167	39	38	1,064	N/A	179	35	4
Kansas	2,449	558	291	51	108	1,409	N/A	139	60	6
Kentucky	1,361	103	72	19	31	1,541	N/A	70	53	3
Louisiana	2,050	138	282	41	82	1,723	N/A	196	62	3
Maine	207	161	36	19	2	440	N/A	69	11	6
Maryland	4,721	720	235	50	108	7,983	N/A	382	192	16
Massachusetts	6,256	690	510	71	125	10,421	N/A	653	181	15
Michigan	3,626	272	247	29	91	5,212	N/A	262	135	7
Minnesota	1,775	663	140	31	25	2,487	N/A	186	66	5
Mississippi	726	42	101	23	18	632	N/A	53	14	4
Missouri	2,090	150	112	28	57	2,024	N/A	68	58	3
Montana	297	137	84	32	17	200	N/A	46	8	1
Nebraska	1,359	1,161	271	60	33	779	N/A	210	29	12
Nevada	7,067	535	690	151	218	5,279	N/A	421	167	14
New Hampshire	373	60	101	34	8	729	N/A	139	18	3
New Jersey	13,249	N/A	648	115	282	18,130	N/A	755	323	26
New Mexico	7,675	1,932	1,466	310	256	1,478	N/A	323	52	7
New York	26,205	1,597	1,433	107	504	38,247	N/A	1,656	750	16
North Carolina	7,446	405	539	55	148	7,099	N/A	430	166	11
North Dakota	250	76	79	19	7	172	N/A	88	10	8
Ohio	3,726	216	183	34	70	4,358	N/A	190	97	6
Oklahoma	3,245	405	362	76	73	1,696	N/A	165	46	6
Oregon	3,870	524	416	75	131	3,195	N/A	256	113	5
Pennsylvania	5,766	293	327	45	193	6,242	N/A	318	209	8
Rhode Island	1,001	457	247	67	21	1,100	N/A	180	31	13
South Carolina	2,195	180	193	48	35	2,341	N/A	142	51	4
South Dakota	220	96	88	26	6	223	N/A	60	5	7
Tennessee	2,964	133	255	38	130	3,031	N/A	164	111	9
Texas	88,902	3,155	4,128	188	2,475	38,723	N/A	1,808	1,175	17
Utah	3,109	999	454	63	63	2,033	N/A	226	63	4
Vermont	103	67	33	18	6	216	N/A	74	9	4
Virginia	6,031	533	380	48	167	9,228	N/A	436	242	14
Washington	7,382	932	540	56	158	9,550	N/A	457	227	11
West Virginia	223	44	86	16	14	261	N/A	53	7	6
Wisconsin	2,279	144	169	33	113	1,860	N/A	111	111	4
Wyoming	451	196	269	59	8	158	N/A	54	5	3
U.S. Territories	N/A	6,128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	<b>458,507</b>	<b>31,154</b>	<b>29,879</b>	<b>3,447</b>	<b>12,042</b>	<b>376,793</b>	<b>N/A</b>	<b>20,868</b>	<b>9,375</b>	<b>433</b>