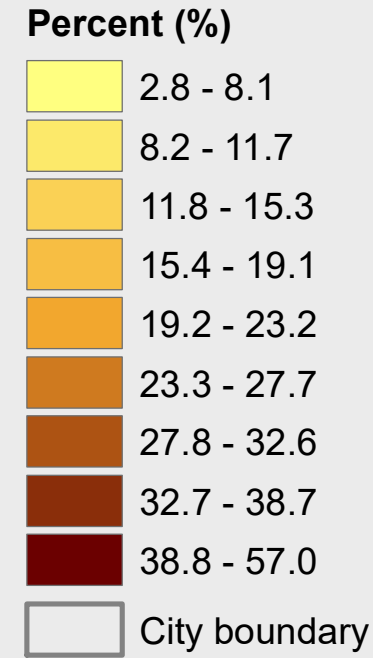
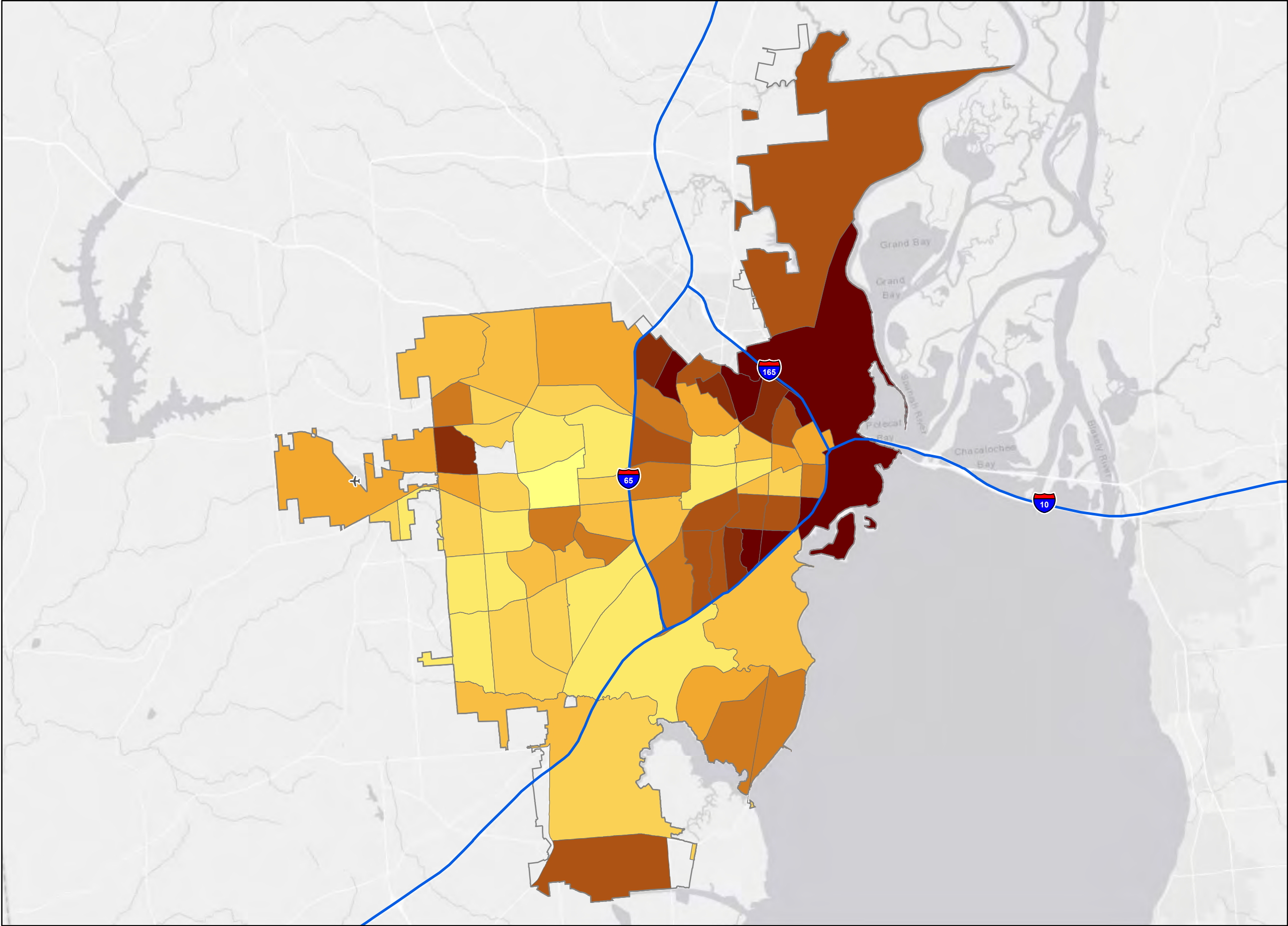
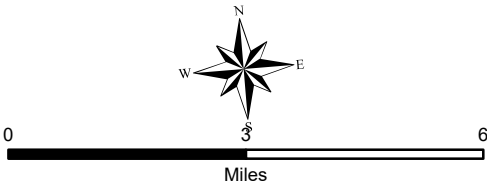


All teeth lost among adults aged >=65 years by census tract, Mobile, AL, 2016



Classification:
Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

Census tracts with population less than 50 were excluded from the map.



Data sources:
CDC BRFSS 2016, US Census Bureau
2010 Census, ACS 2012-2016



ATTACHMENT D

Selected Socio-Economic Data

Mobile city, Alabama

African American and White, Not Hispanic

Data Set: 2014-2018 American Community Survey 5-Year Estimates

C02003.DETAILED RACE - Universe: TOTAL POPULATION

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama		
	Population	Margin of Error (+/-)	% of Total
Total:	191,485	94	100.0%
Population of one race:	188,137	608	98.3%
White	85,813	1,504	44.8%
Black or African American	96,974	1,642	50.6%
American Indian and Alaska Native	381	142	0.2%
Asian alone	3,363	555	1.8%
Native Hawaiian and Other Pacific Islander	22	28	0.0%
Some other race	1,584	581	0.8%
Population of two or more races:	3,348	598	1.7%
Two races including Some other race	227	121	0.1%
Two races excluding Some other race, and three or more races	3,121	576	1.6%
Population of two races:	3,030	554	1.6%
White; Black or African American	1,228	407	0.6%
White; American Indian and Alaska Native	676	284	0.4%
White; Asian	532	236	0.3%
Black or African American; American Indian and Alaska Native	316	229	0.2%
All other two race combinations	278	124	0.1%
Population of three races	300	204	0.2%
Population of four or more races	18	33	0.0%

Note: Hispanics may be of any race. See Table B03002 and chart.

Source: U.S. Census Bureau, 2014-2018 American Community Survey

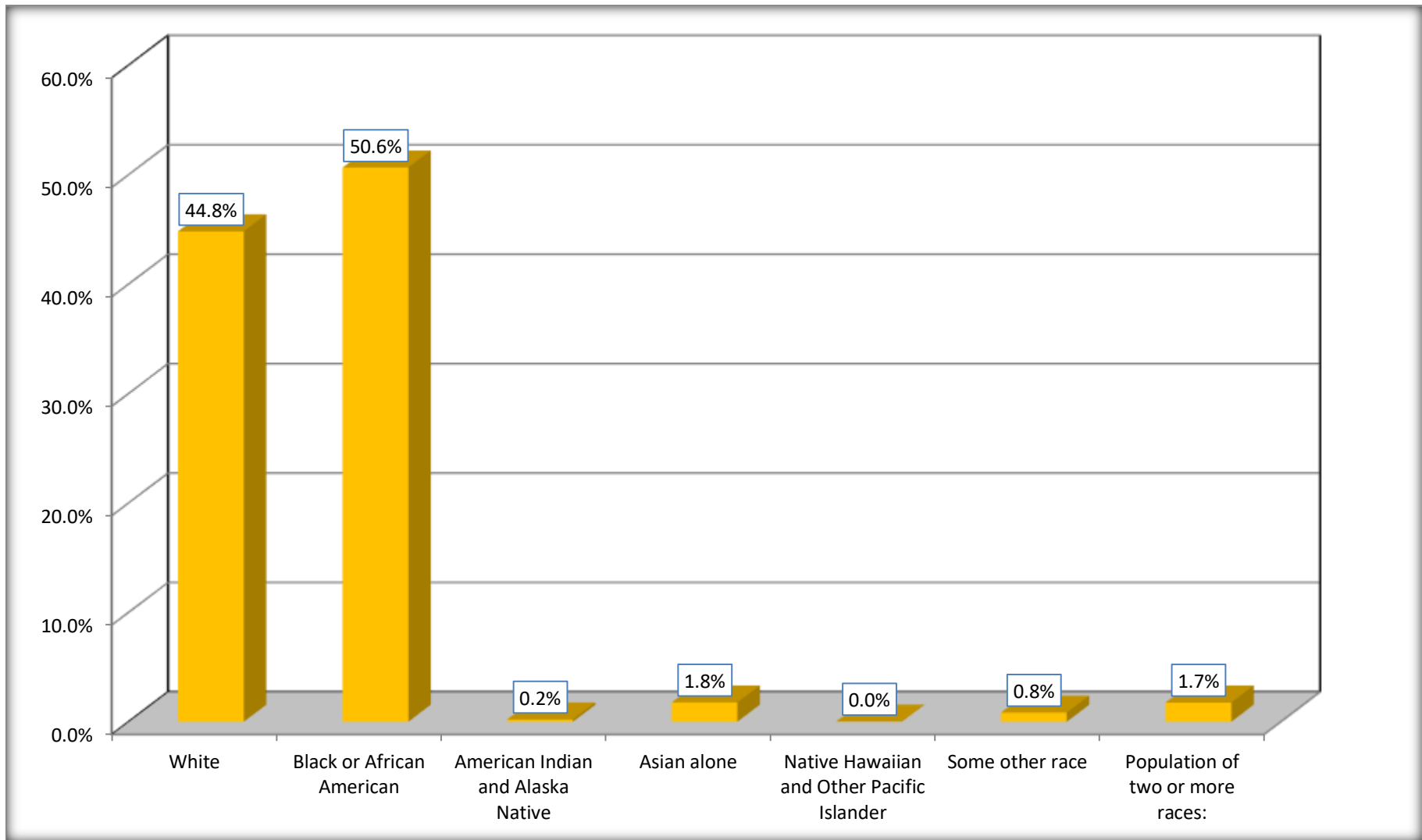
Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Population by Race

Mobile city, Alabama



Source: C02003.DETAILED RACE - Universe: TOTAL POPULATION
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B03002. HISPANIC OR LATINO ORIGIN BY RACE - Universe: TOTAL POPULATION

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama		
	Population	Margin of Error (+/-)	% of Total
Total:	191,485	94	100.0%
Not Hispanic or Latino:	186,562	696	97.4%
White alone	82,552	1,631	43.1%
Black or African American alone	96,711	1,610	50.5%
American Indian and Alaska Native alone	343	135	0.2%
Asian alone	3,363	555	1.8%
Native Hawaiian and Other Pacific Islander alone	22	28	0.0%
Some other race alone	584	297	0.3%
Two or more races:	2,987	586	1.6%
Two races including Some other race	93	96	0.0%
Two races excluding Some other race, and three or more races	2,894	561	1.5%
Hispanic or Latino	4,923	683	2.6%

Source: U.S. Census Bureau, 2014-2018 American Community Survey

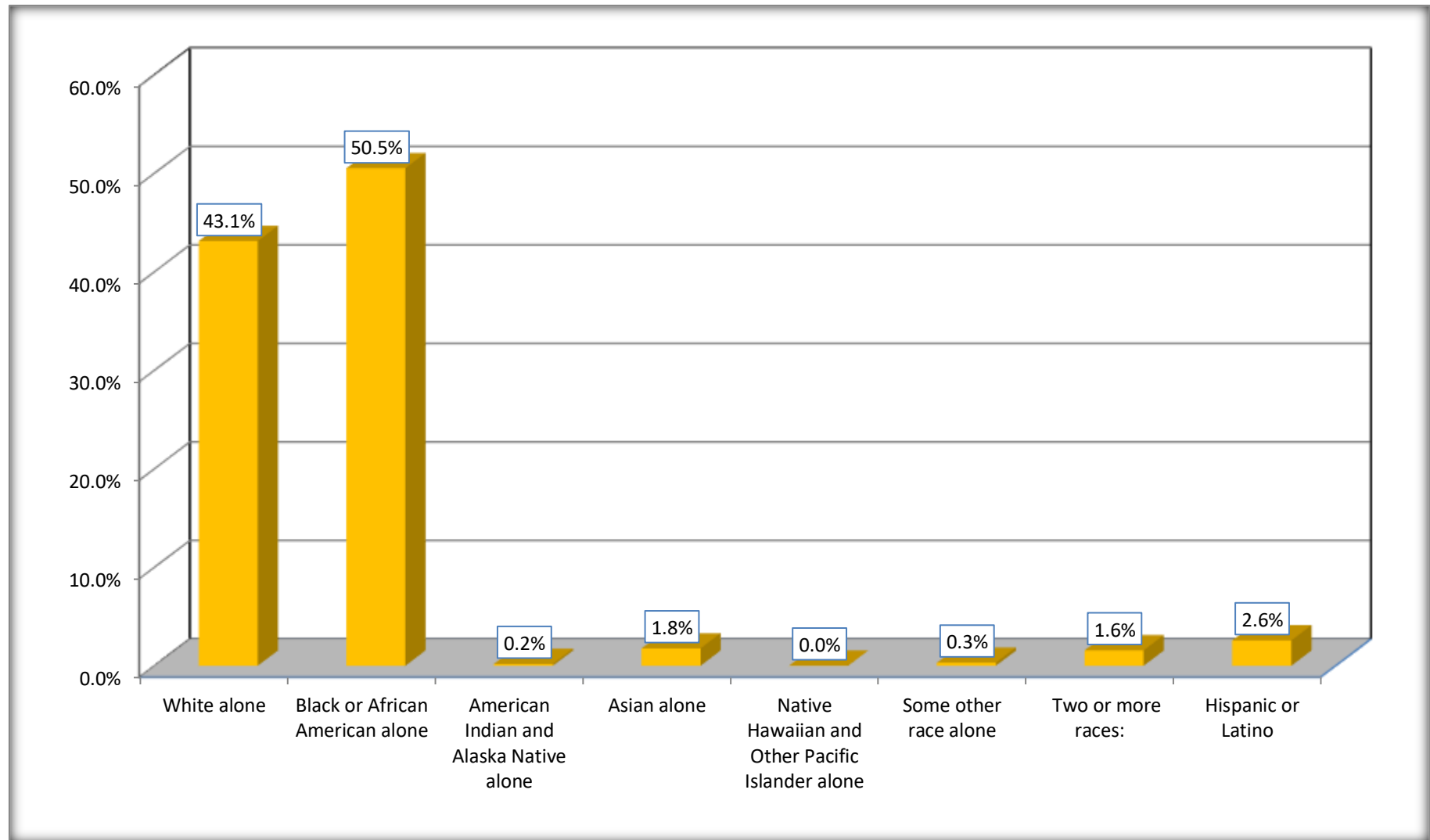
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<http://www.census.gov/acs/www/UseData/index.htm>

Non-Hispanic by Race and Hispanic Population

Mobile city, Alabama



Source: B03002. HISPANIC OR LATINO ORIGIN BY RACE - Universe: TOTAL POPULATION

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B03002. HISPANIC OR LATINO ORIGIN BY RACE

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama		
	Population	Margin of Error (+/-)	% of Total
Hispanic or Latino:	4,923	683	100.0%
White alone	3,261	563	66.2%
Black or African American alone	263	146	5.3%
American Indian and Alaska Native alone	38	47	0.8%
Asian alone	0	28	0.0%
Native Hawaiian and Other Pacific Islander alone	0	28	0.0%
Some other race alone	1,000	455	20.3%
Two or more races:	361	231	7.3%
Two races including Some other race	134	84	2.7%
Two races excluding Some other race, and three or more races	227	218	4.6%

Source: U.S. Census Bureau, 2014-2018 American Community Survey

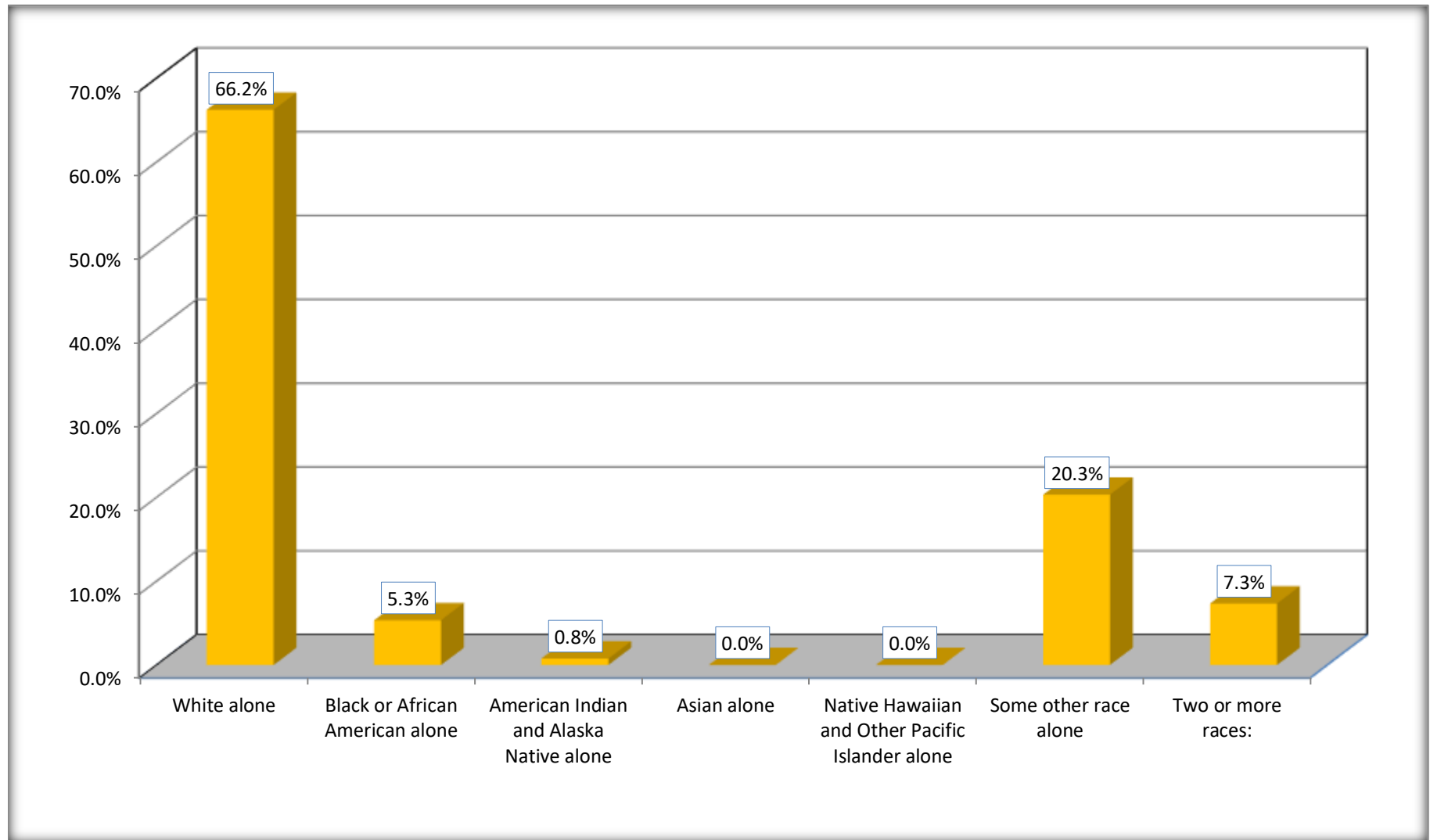
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For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Hispanic or Latino Origin by Race

Mobile city, Alabama



Source: B03002. HISPANIC OR LATINO ORIGIN BY RACE
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B01001. SEX BY AGE

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	96,974	1,642	100.0%	82,552	1,631	100.0%
Under 18 years	24,920	NC	25.7%	13,517	NC	16.4%
18 to 64 years	60,358	NC	62.2%	51,216	NC	62.0%
65 years and over	11,696	NC	12.1%	17,819	NC	21.6%
Male:	44,961	997	46.4%	40,199	476	48.7%
Under 18 years	12,451	NC	12.8%	6,785	NC	8.2%
18 to 64 years	27,896	NC	28.8%	25,961	NC	31.4%
65 years and over	4,614	NC	4.8%	7,453	NC	9.0%
Female:	52,013	1,129	53.6%	42,353	611	51.3%
Under 18 years	12,469	NC	12.9%	6,732	NC	8.2%
18 to 64 years	32,462	NC	33.5%	25,255	NC	30.6%
65 years and over	7,082	NC	7.3%	10,366	NC	12.6%

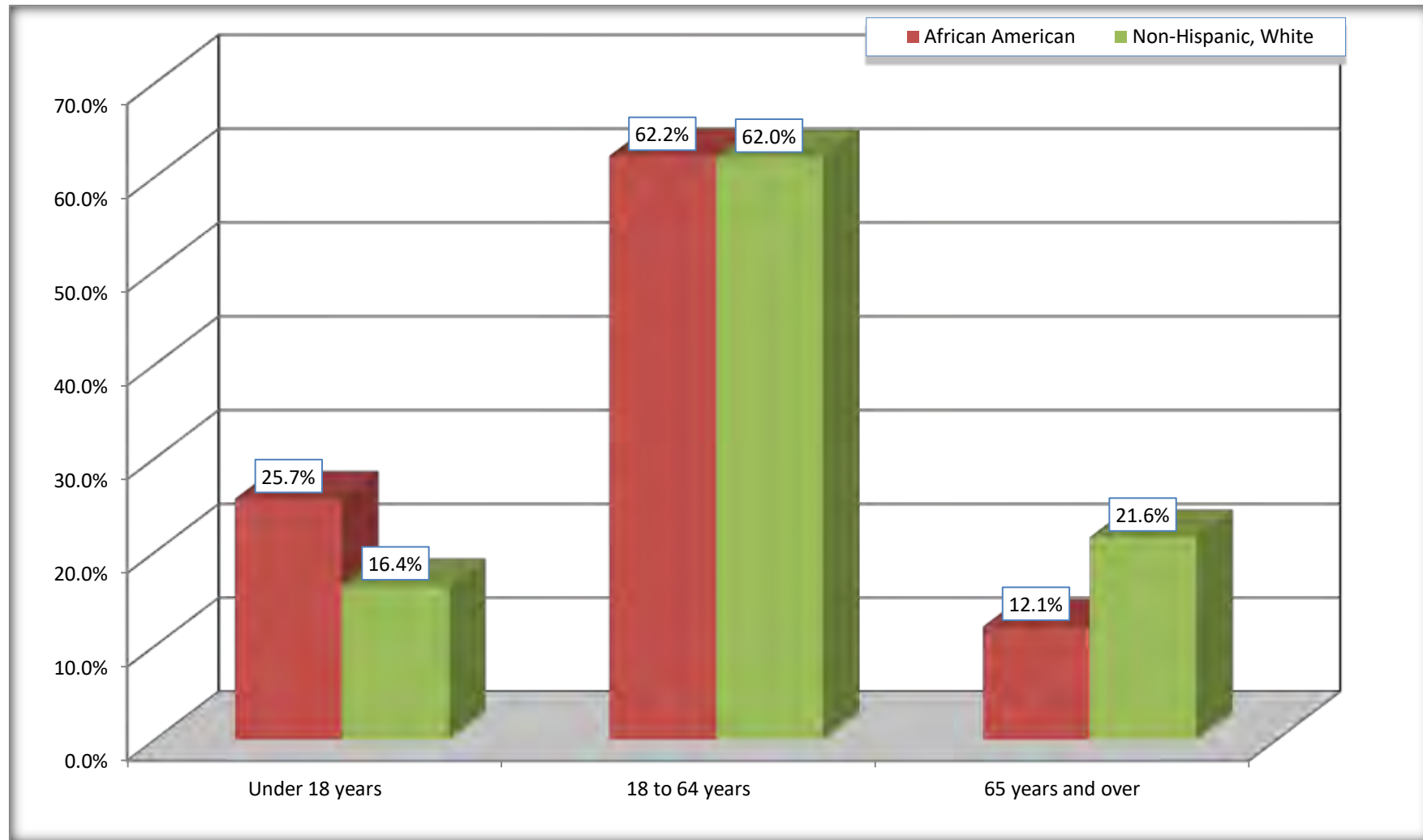
Source: U.S. Census Bureau, 2014-2018 American Community Survey

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For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.
<http://www.census.gov/acs/www/UseData/index.htm>

Population by Age

Mobile city, Alabama



Source: B01001. SEX BY AGE

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B05003. SEX BY AGE BY CITIZENSHIP STATUS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total by Age	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total by Age
Total:	96,974	1,642	100.0%	82,552	1,631	100.0%
Under 18 years:	24,920	NC	100.0%	13,517	NC	100.0%
Native	24,854	NC	99.7%	13,425	NC	99.3%
Foreign born:	66	NC	0.3%	92	NC	0.7%
Naturalized U.S. citizen	55	NC	0.2%	49	NC	0.4%
Not a U.S. citizen	11	NC	0.0%	43	NC	0.3%
18 years and over:	72,054	NC	100.0%	69,035	NC	100.0%
Native	71,377	NC	99.1%	67,346	NC	97.6%
Foreign born:	677	NC	0.9%	1,689	NC	2.4%
Naturalized U.S. citizen	353	NC	0.5%	862	NC	1.2%
Not a U.S. citizen	324	NC	0.4%	827	NC	1.2%
Male:	44,961	997	46.4%	40,199	1,029	48.7%
Under 18 years:	12,451	696	100.0%	6,785	539	100.0%
Native	12,433	696	99.9%	6,699	522	98.7%
Foreign born:	18	15	0.1%	86	83	1.3%
Naturalized U.S. citizen	18	15	0.1%	49	71	0.7%
Not a U.S. citizen	0	28	0.0%	37	47	0.5%
18 years and over:	32,510	785	100.0%	33,414	952	100.0%
Native	32,165	789	98.9%	32,379	961	96.9%
Foreign born:	345	170	1.1%	1,035	277	3.1%
Naturalized U.S. citizen	188	107	0.6%	458	158	1.4%
Not a U.S. citizen	157	122	0.5%	577	189	1.7%

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA by Age	White, Not Hispanic	Margin of Error (+/-)	% of NHW by Age
Female:	52,013	1,129	53.6%	42,353	1,106	51.3%
Under 18 years:	12,469	693	100.0%	6,732	555	100.0%
Native	12,421	693	99.6%	6,726	554	99.9%
Foreign born:	48	37	0.4%	6	12	0.1%
Naturalized U.S. citizen	37	33	0.3%	0	28	0.0%
Not a U.S. citizen	11	18	0.1%	6	12	0.1%
18 years and over:	39,544	814	100.0%	35,621	869	100.0%
Native	39,212	792	99.2%	34,967	911	98.2%
Foreign born:	332	143	0.8%	654	194	1.8%
Naturalized U.S. citizen	165	78	0.4%	404	138	1.1%
Not a U.S. citizen	167	97	0.4%	250	131	0.7%

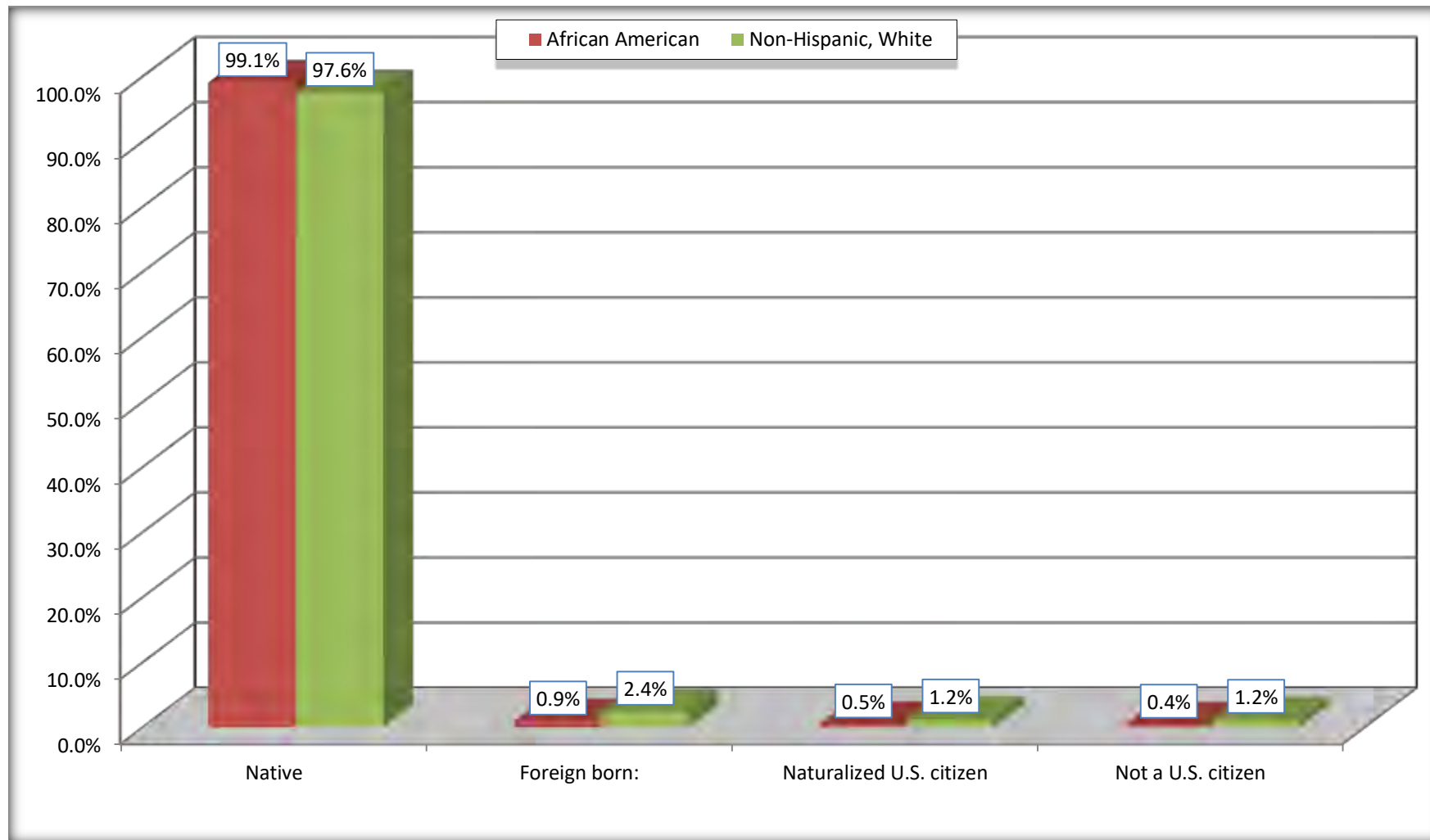
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Citizenship Status of Voting Age Population (18 and Over)

Mobile city, Alabama



Source: B05003. SEX BY AGE BY CITIZENSHIP STATUS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B07004. GEOGRAPHICAL MOBILITY IN THE PAST YEAR BY RACE FOR CURRENT RESIDENCE IN THE UNITED STATES - Universe:
POPULATION 1 YEAR AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	95,681	1,614	100.0%	81,749	1,575	100.0%
Same house 1 year ago	82,305	1,676	86.0%	68,707	1,581	84.0%
Moved within same county	11,640	1,447	12.2%	9,158	895	11.2%
Moved from different county within same state	728	217	0.8%	1,490	292	1.8%
Moved from different state	888	295	0.9%	2,136	357	2.6%
Moved from abroad	120	70	0.1%	258	133	0.3%

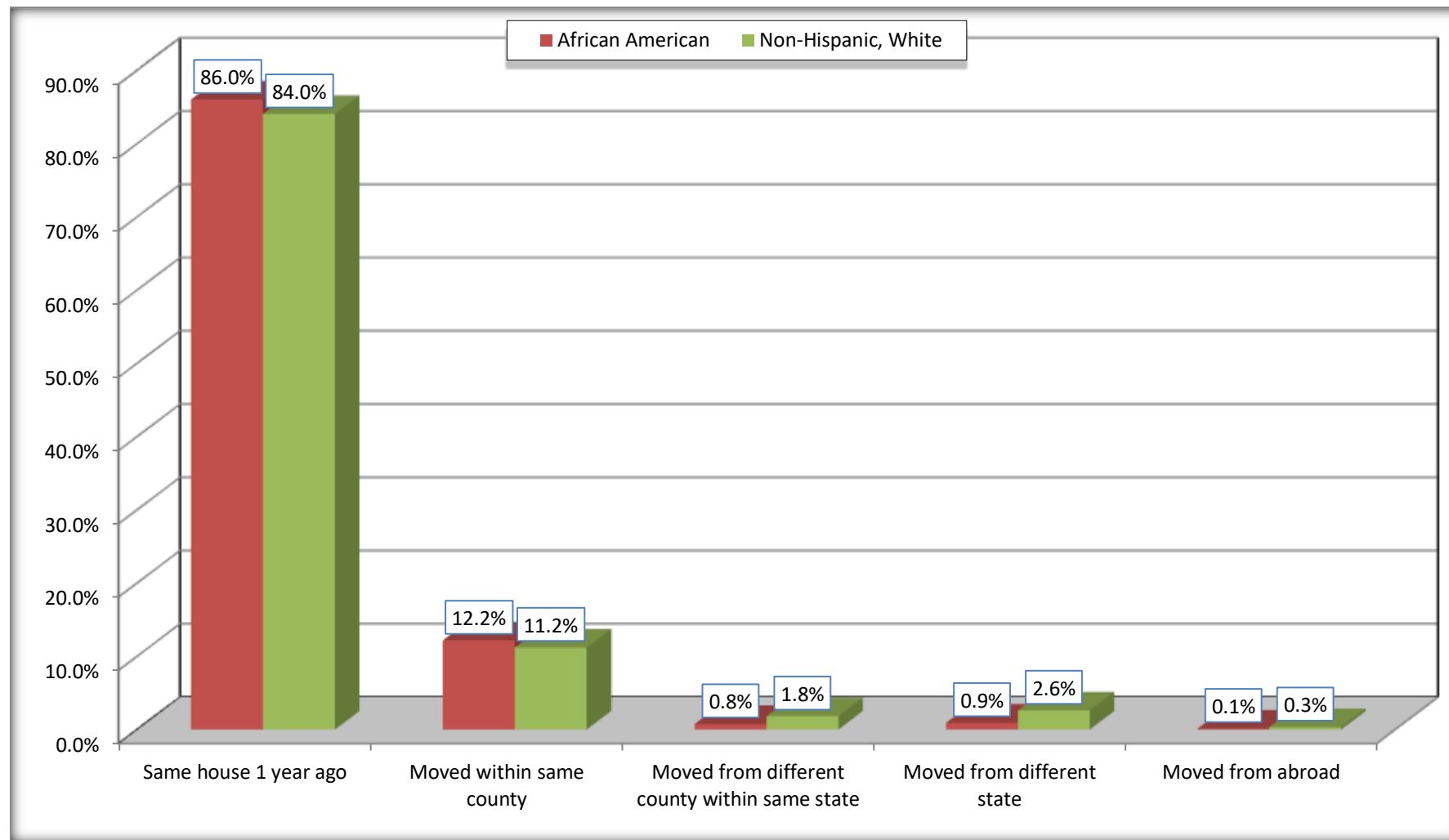
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Geographical Mobility in the Past Year (Population 1 Year and Over)

Mobile city, Alabama



Source: B07004. GEOGRAPHICAL MOBILITY IN THE PAST YEAR BY RACE FOR CURRENT RESIDENCE IN THE UNITED STATES - Universe: POPULATION 1 YEAR AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B08105. MEANS OF TRANSPORTATION TO WORK - Universe: WORKERS 16 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	35975	1237	100.0%	38958	979	100.0%
Car, truck, or van - drove alone	30450	1223	84.6%	33920	933	87.1%
Car, truck, or van - carpooled	2866	376	8.0%	2191	277	5.6%
Public transportation (excluding taxicab)	526	185	1.5%	79	77	0.2%
Walked	462	179	1.3%	590	154	1.5%
Taxicab, motorcycle, bicycle, or other means	538	170	1.5%	310	88	0.8%
Worked at home	1133	316	3.1%	1868	316	4.8%

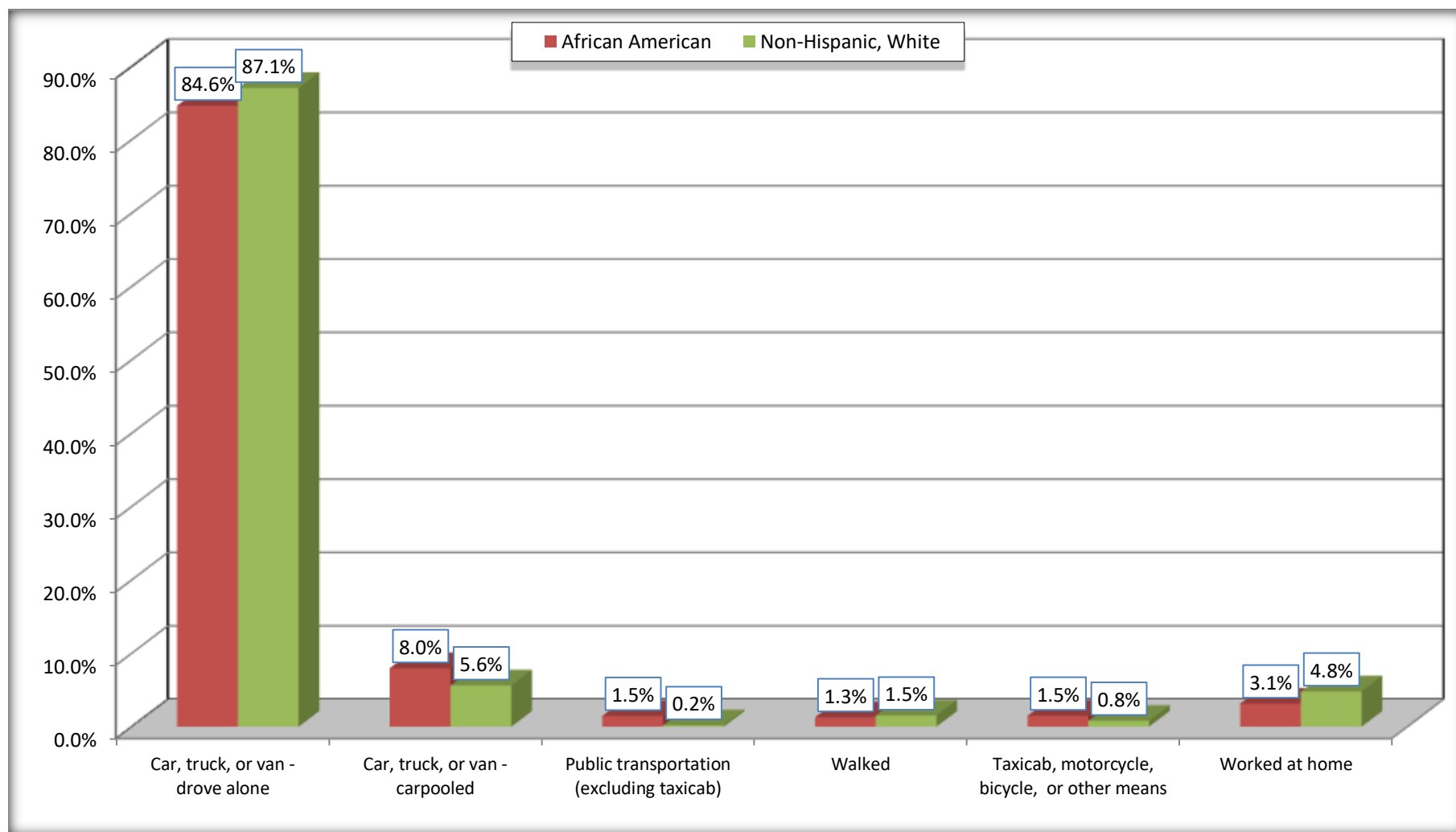
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Means of Transportation to Work (Workers 16 Years and Over)

Mobile city, Alabama



Source: B08105. MEANS OF TRANSPORTATION TO WORK - Universe: WORKERS 16 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B11002. HOUSEHOLD TYPE BY RELATIVES AND NONRELATIVES FOR POPULATION IN HOUSEHOLDS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	93497	1735	100.0%	80603	1739	100.0%
In family households	75691	1794	81.0%	59908	1698	74.3%
In nonfamily households	17806	974	19.0%	20695	1081	25.7%

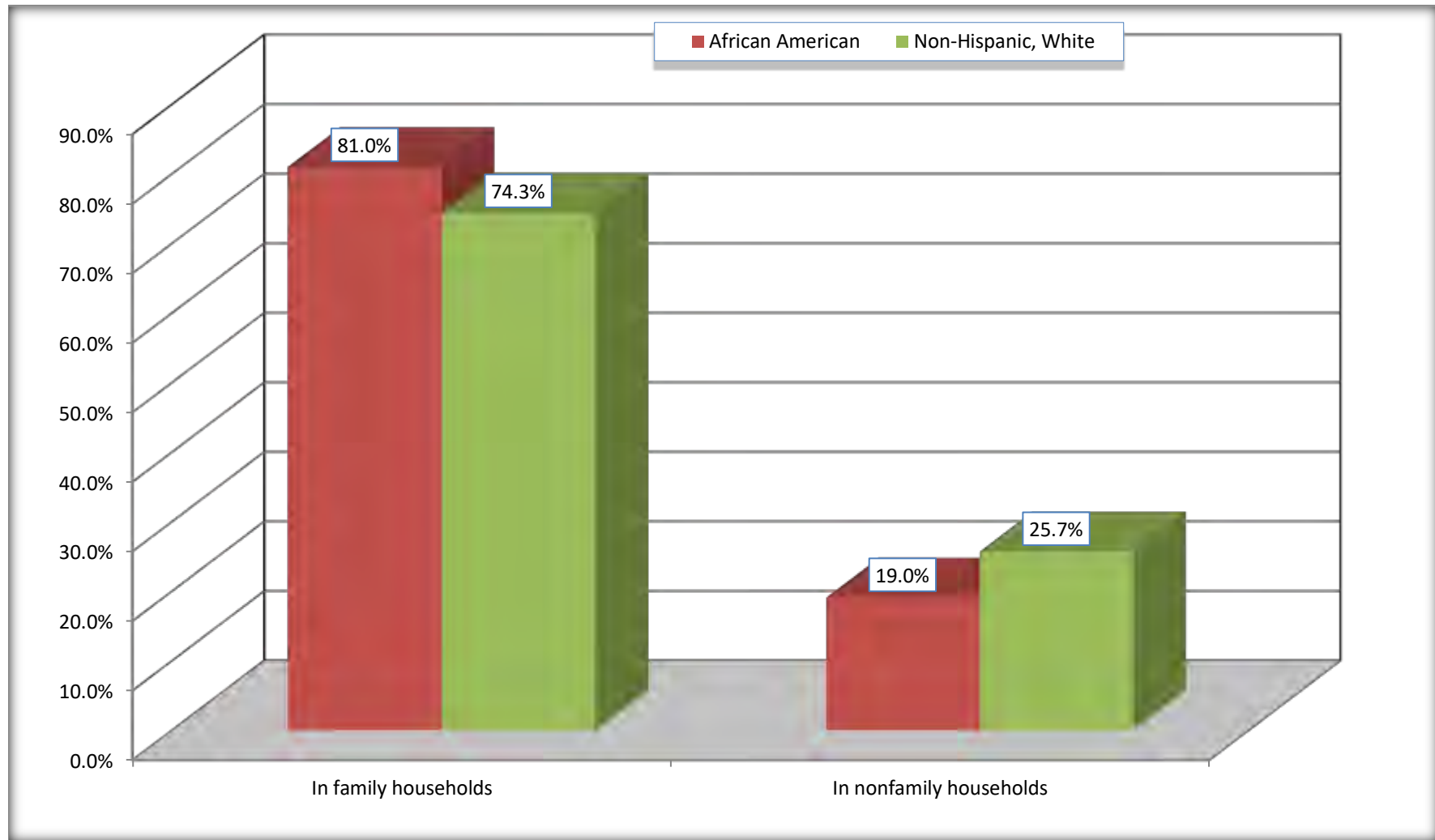
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Household Type for Population in Households

Mobile city, Alabama



Source: B11002. HOUSEHOLD TYPE BY RELATIVES AND NONRELATIVES FOR POPULATION IN HOUSEHOLDS
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B12002. MARITAL STATUS FOR THE POPULATION 15 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	76,550	1,280	100.0%	71,299	1,432	100.0%
Never married	37,271	NC	48.7%	21,300	NC	29.9%
Now married (except separated)	19,977	NC	26.1%	33,295	NC	46.7%
Separated	3,568	NC	4.7%	1,213	NC	1.7%
Widowed	5,285	NC	6.9%	5,856	NC	8.2%
Divorced	10,449	NC	13.6%	9,635	NC	13.5%
Male:	34,731	822	45.4%	34,496	946	48.4%
Never married	18,082	962	23.6%	11,806	761	16.6%
Now married (except separated)	10,030	565	13.1%	16,506	570	23.2%
Separated	1,359	261	1.8%	711	237	1.0%
Widowed	1,080	204	1.4%	1,288	211	1.8%
Divorced	4,180	435	5.5%	4,185	399	5.9%
Female:	41,819	841	54.6%	36,803	884	51.6%
Never married	19,189	879	25.1%	9,494	600	13.3%
Now married (except separated)	9,947	516	13.0%	16,789	675	23.5%
Separated	2,209	398	2.9%	502	127	0.7%
Widowed	4,205	366	5.5%	4,568	349	6.4%
Divorced	6,269	365	8.2%	5,450	419	7.6%

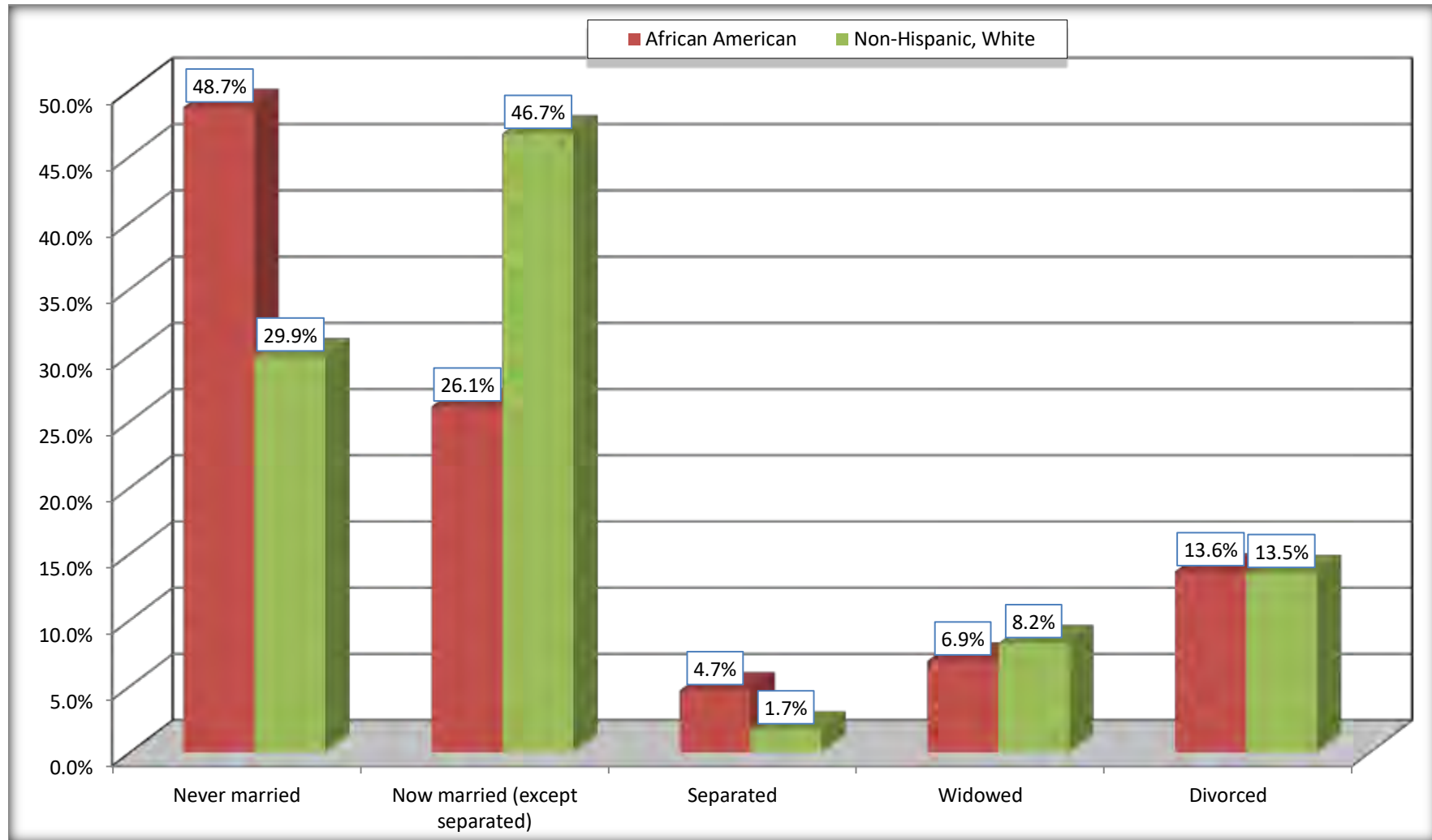
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Marital Status for the Population 15 Years and Over

Mobile city, Alabama



Source: B12002. MARITAL STATUS FOR THE POPULATION 15 YEARS AND OVER
Data Set: 2014-2018 American Community Survey 5-Year Estimates

C15002. SEX BY EDUCATIONAL ATTAINMENT FOR THE POPULATION 25 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	61,478	1,069	100.0%	61,576	1,275	100.0%
Less than high school diploma	9,686	NC	15.8%	4,237	NC	6.9%
High school graduate, GED, or alternative	22,191	NC	36.1%	14,845	NC	24.1%
Some college or associate's degree	19,991	NC	32.5%	17,524	NC	28.5%
Bachelor's degree or higher	9,610	NC	15.6%	24,970	NC	40.6%
Male:	27,380	683	44.5%	29,693	833	48.2%
Less than high school diploma	5,165	596	8.4%	2,444	411	4.0%
High school graduate, GED, or alternative	11,773	747	19.1%	6,490	535	10.5%
Some college or associate's degree	7,824	518	12.7%	8,357	592	13.6%
Bachelor's degree or higher	2,618	424	4.3%	12,402	626	20.1%
Female:	34,098	705	55.5%	31,883	728	51.8%
Less than high school diploma	4,521	491	7.4%	1,793	306	2.9%
High school graduate, GED, or alternative	10,418	585	16.9%	8,355	588	13.6%
Some college or associate's degree	12,167	741	19.8%	9,167	605	14.9%
Bachelor's degree or higher	6,992	556	11.4%	12,568	600	20.4%

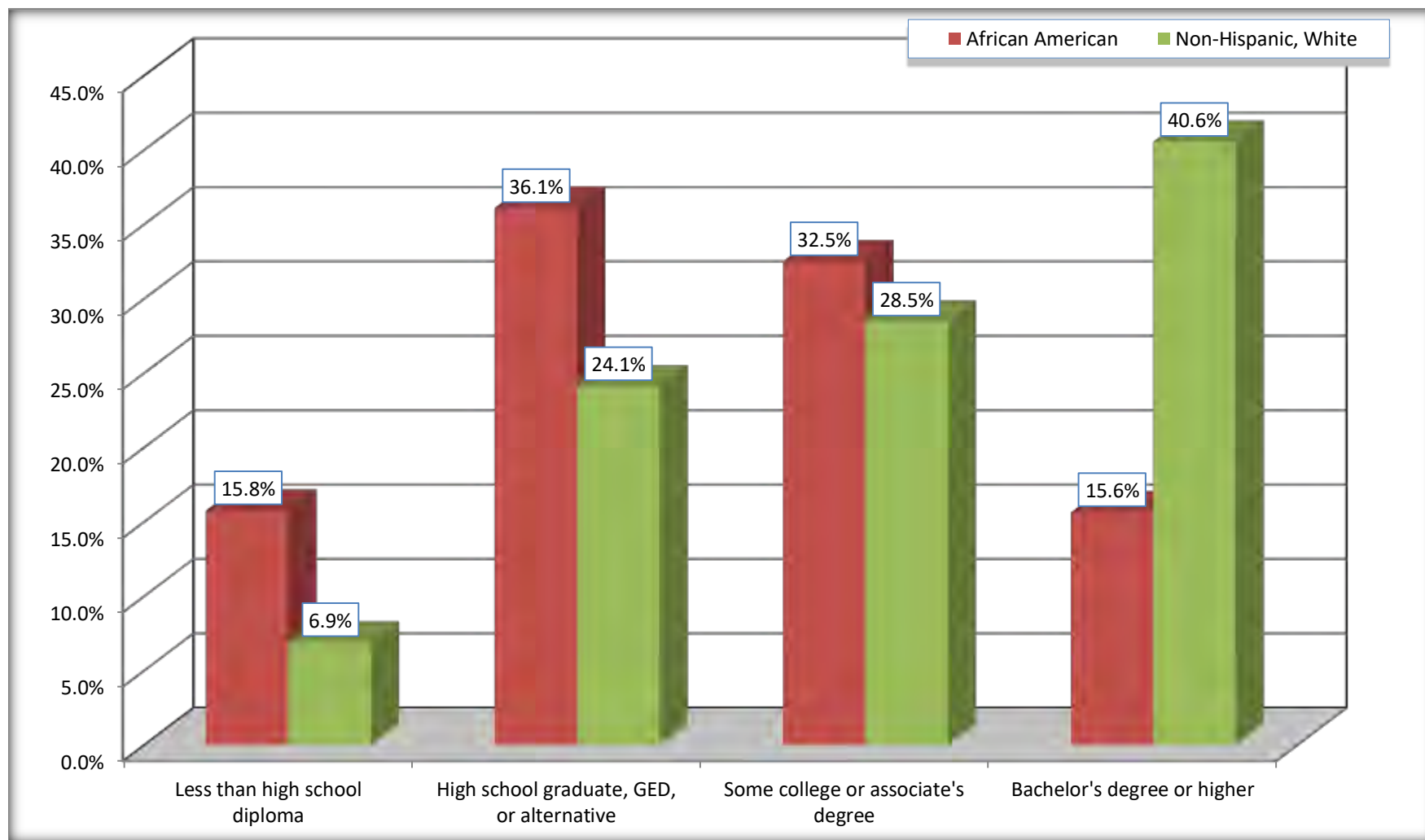
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Educational Attainment for the Population 25 Years and Older

Mobile city, Alabama



Source: C15002. SEX BY EDUCATIONAL ATTAINMENT FOR THE POPULATION 25 YEARS AND OVER
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B16005. NATIVITY BY LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH FOR THE POPULATION 5 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	89,638	1,476	100.0%	78,545	1,508	100.0%
Speak only English	88,474	NC	98.7%	76,673	NC	97.6%
Speak another language	1,164	NC	1.3%	1,872	NC	2.4%
Speak English "very well"	784	NC	0.9%	1,369	NC	1.7%
Speak English "less than very well"	380	NC	0.4%	503	NC	0.6%
Native:	88,895	1,472	99.2%	76,785	1,545	97.8%
Speak only English	88,228	1,464	98.4%	75,758	1,564	96.5%
Speak another language	667	167	0.7%	1,027	225	1.3%
Speak English "very well"	568	163	0.6%	879	214	1.1%
Speak English "less than very well"	99	52	0.1%	148	93	0.2%
Foreign born:	743	296	0.8%	1,760	421	2.2%
Speak only English	246	111	0.3%	915	327	1.2%
Speak another language	497	266	0.6%	845	269	1.1%
Speak English "very well"	216	114	0.2%	490	180	0.6%
Speak English "less than very well"	281	200	0.3%	355	162	0.5%

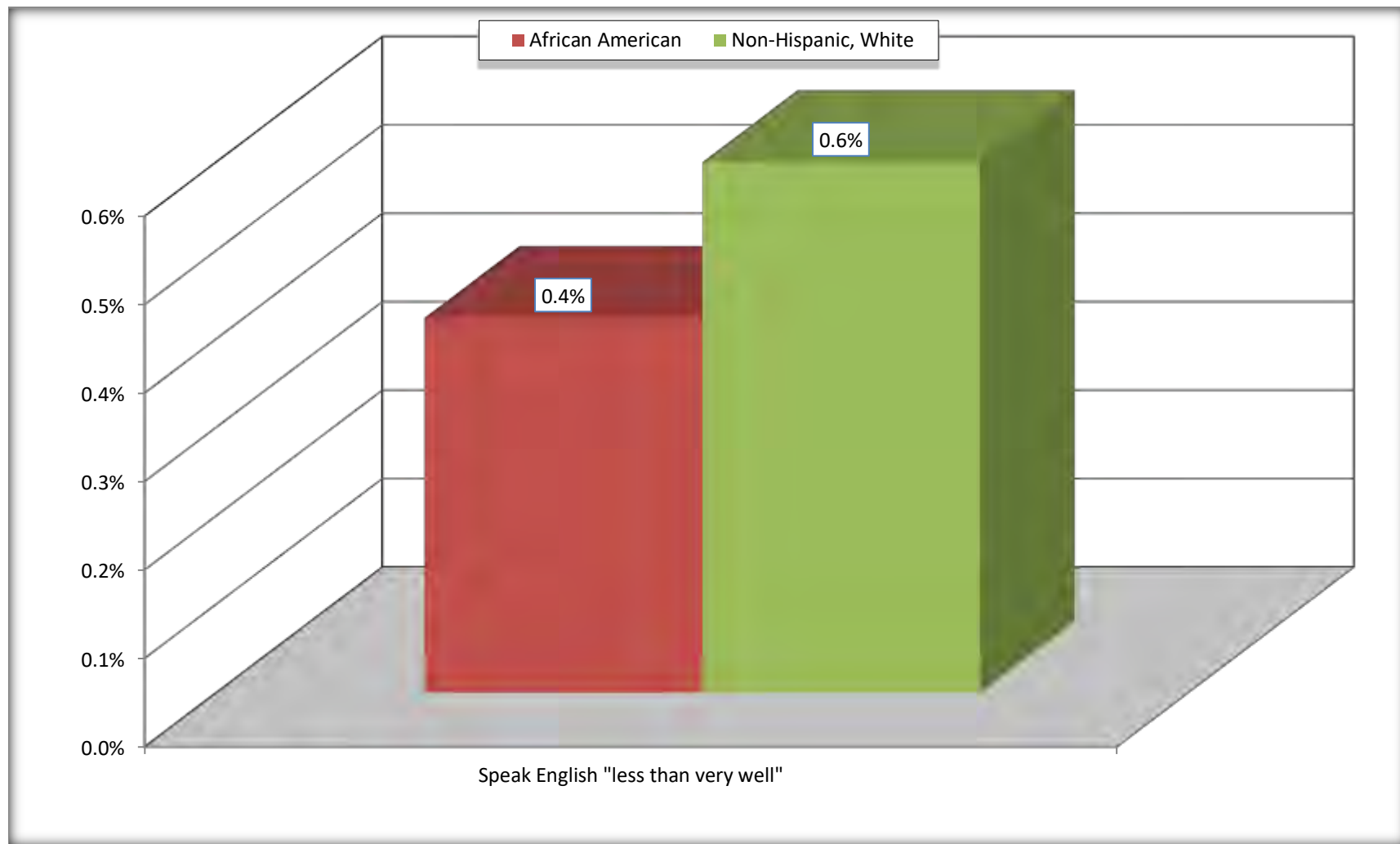
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Speak English "Less than Very Well" (Population 5 Years and Over)

Mobile city, Alabama



Source: B16005. NATIVITY BY LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH FOR THE POPULATION 5 YEARS AND OVER
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B17010. POVERTY STATUS IN THE PAST 12 MONTHS OF FAMILIES BY FAMILY TYPE BY PRESENCE OF RELATED CHILDREN UNDER 18 YEARS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	21,157	749	100.0%	19,934	588	100.0%
Income in the past 12 months below poverty level:	5,533	460	26.2%	1,528	285	7.7%
Married-couple family:	770	171	3.6%	621	173	3.1%
With related children under 18 years	331	113	1.6%	301	117	1.5%
Other family:	4,763	437	22.5%	907	217	4.6%
Male householder, no wife present	362	120	1.7%	130	86	0.7%
With related children under 18 years	268	109	1.3%	97	71	0.5%
Female householder, no husband present	4,401	425	20.8%	777	199	3.9%
With related children under 18 years	3,807	379	18.0%	581	171	2.9%
Income in the past 12 months at or above poverty level:	15,624	657	73.8%	18,406	567	92.3%
Married-couple family:	8,020	485	37.9%	15,137	555	75.9%
With related children under 18 years	2,882	408	13.6%	4,903	438	24.6%
Other family:	7,604	497	35.9%	3,269	328	16.4%
Male householder, no wife present	1,457	262	6.9%	856	174	4.3%
With related children under 18 years	695	169	3.3%	265	96	1.3%
Female householder, no husband present	6,147	415	29.1%	2,413	280	12.1%
With related children under 18 years	3,205	341	15.1%	959	199	4.8%

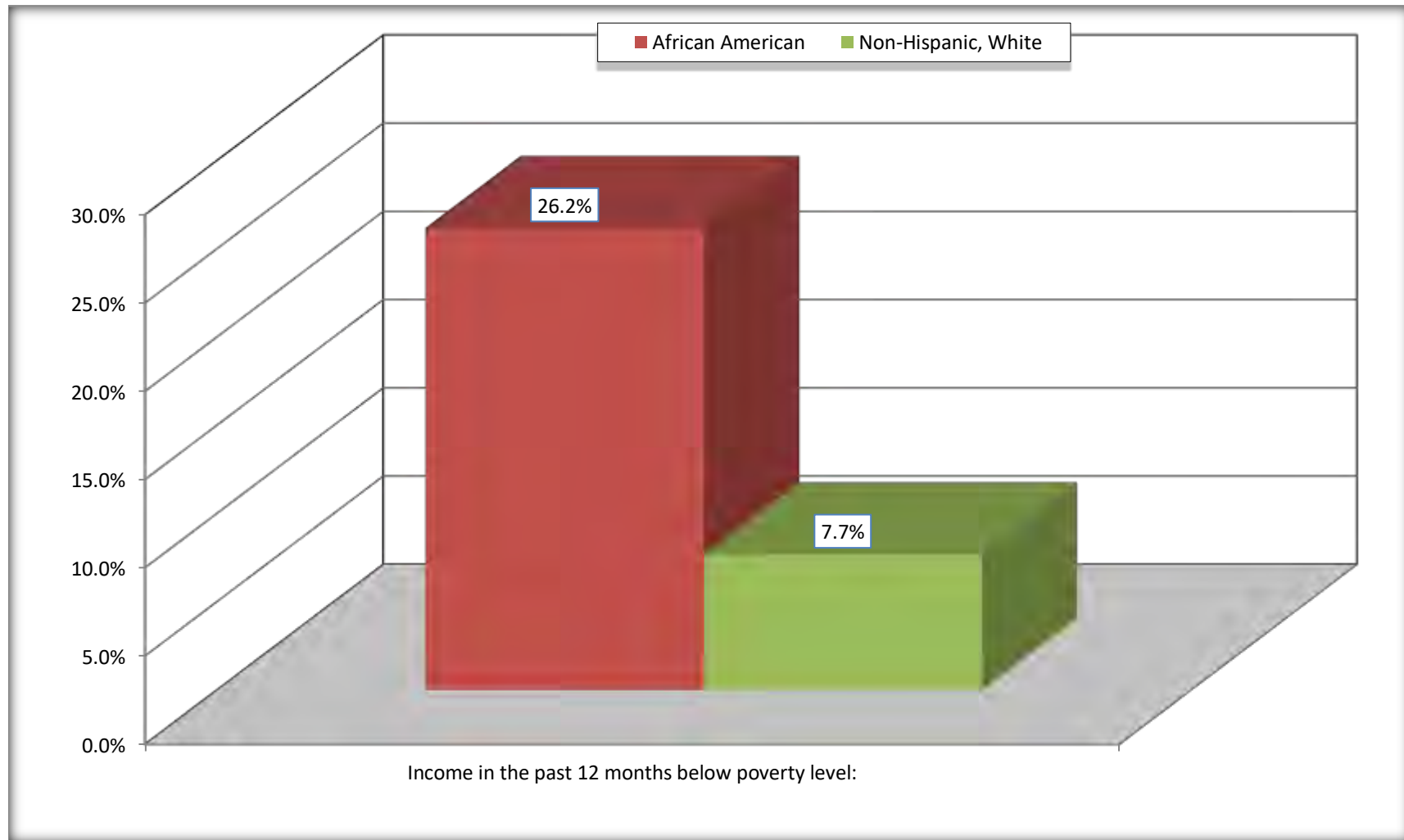
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Family Households Below Poverty in the Past 12 Months

Mobile city, Alabama

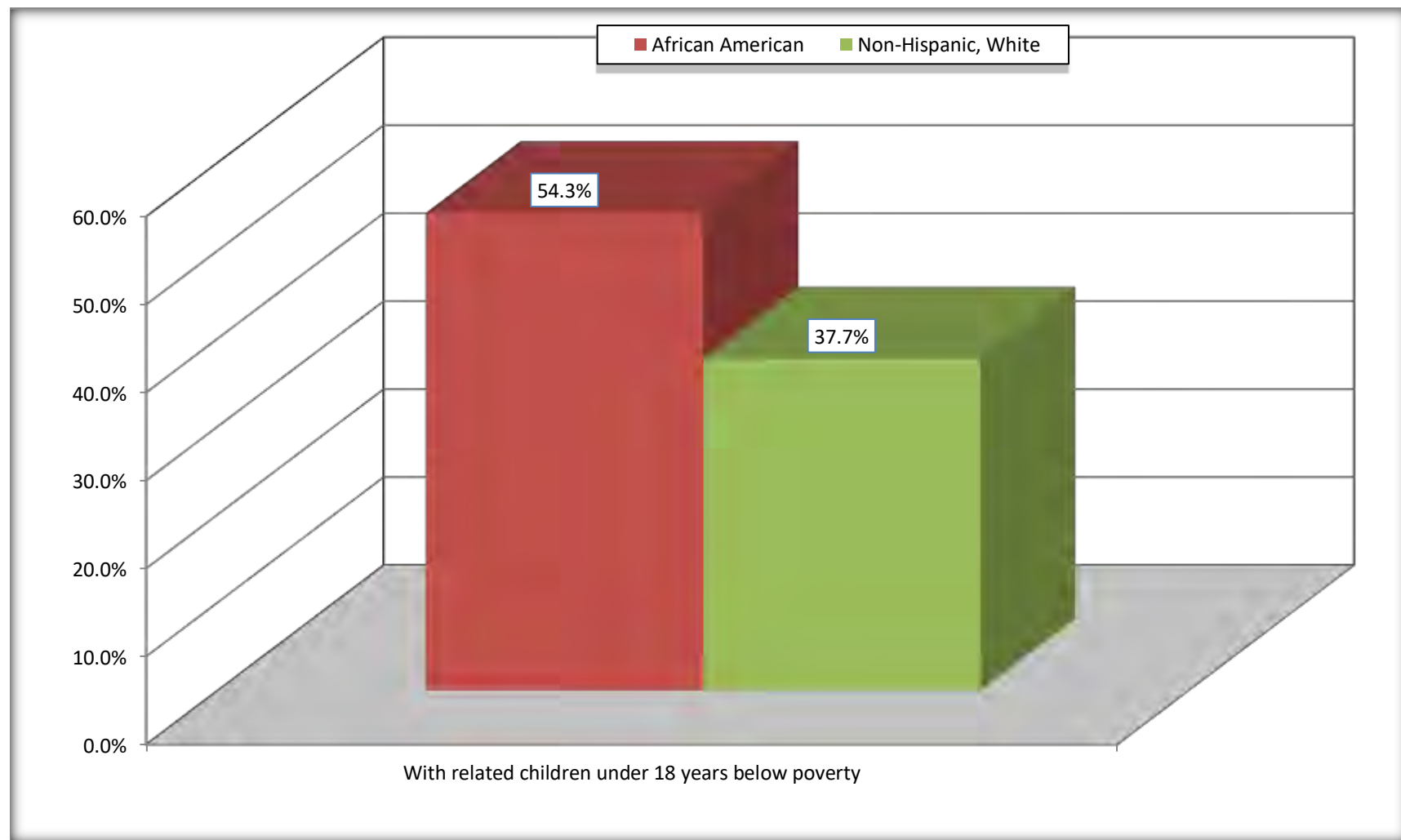


Source: B17010. POVERTY STATUS IN THE PAST 12 MONTHS OF FAMILIES BY FAMILY TYPE BY PRESENCE OF RELATED CHILDREN UNDER 18 YEARS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

Female-headed Households with Related Children Below Poverty in the Past 12 Months

Mobile city, Alabama



Source: B17010. POVERTY STATUS IN THE PAST 12 MONTHS OF FAMILIES BY FAMILY TYPE BY PRESENCE OF RELATED CHILDREN UNDER 18 YEARS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B17020 POVERTY STATUS IN THE PAST 12 MONTHS BY AGE - Universe: POPULATION FOR WHOM POVERTY STATUS IS DETERMINED

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA By Age	White, Not Hispanic	Margin of Error (+/-)	% of NHW By Age
Total:	93,697	1,758	100.0%	79,251	1,581	100.0%
Income in the past 12 months below poverty level:	28,993	1,896	30.9%	9,792	1,027	12.4%
Under 18 years	11,619	NC	47.1%	1,906	NC	14.2%
18 to 59 years	14,217	341	27.2%	6,163	221	14.4%
60 years and over	3,157	NC	18.9%	1,723	NC	7.5%
Income in the past 12 months at or above poverty level:	64,704	2,172	69.1%	69,459	1,630	87.6%
Under 18 years	13,044	NC	52.9%	11,541	NC	85.8%
18 to 59 years	38,132	583	72.8%	36,524	774	85.6%
60 years and over	13,528	NC	81.1%	21,394	NC	92.5%

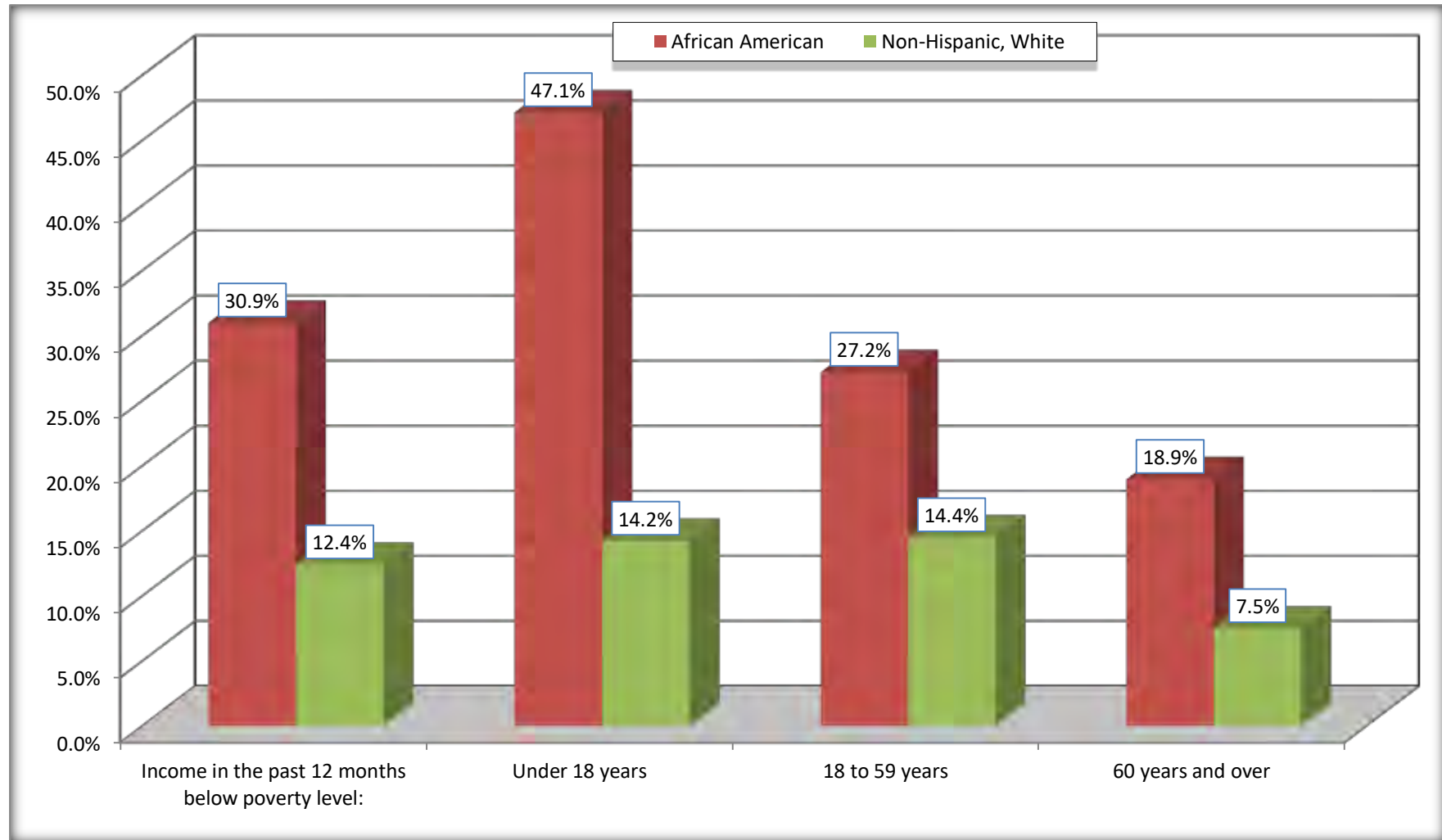
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Population Below Poverty in the Past 12 Months

Mobile city, Alabama



Source: B17020 POVERTY STATUS IN THE PAST 12 MONTHS BY AGE - Universe: POPULATION FOR WHOM POVERTY STATUS IS DETERMINED
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B19001. HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	37,124	705	100.0%	36,470	800	100.0%
Less than \$ 10,000	5,993	491	16.1%	2,443	388	6.7%
\$ 10,000 to \$ 14,999	3,803	429	10.2%	1,645	279	4.5%
\$ 15,000 to \$ 24,999	6,985	NC	18.8%	4,007	NC	11.0%
\$ 25,000 to \$ 34,999	4,590	NC	12.4%	3,336	NC	9.1%
\$ 35,000 to \$ 49,999	5,410	NC	14.6%	4,766	NC	13.1%
\$ 50,000 to \$ 74,999	4,926	NC	13.3%	6,558	NC	18.0%
\$ 75,000 to \$ 99,999	2,546	346	6.9%	4,487	406	12.3%
\$ 100,000 to \$ 149,999	2,240	NC	6.0%	4,859	NC	13.3%
\$ 150,000 to \$ 199,999	399	138	1.1%	2,003	292	5.5%
\$ 200,000 or more	232	95	0.6%	2,366	284	6.5%

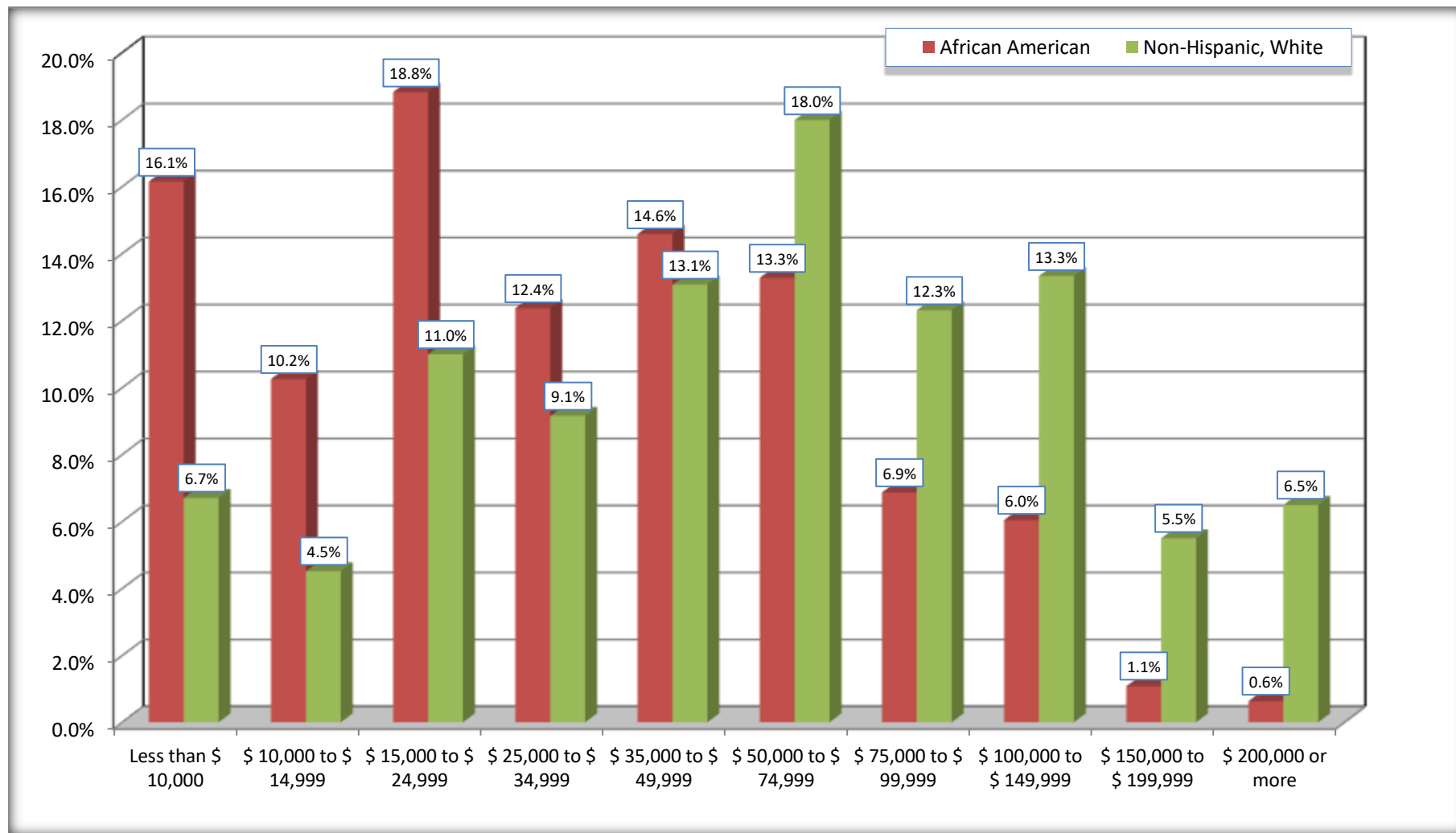
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Household Income in the Past 12 Months

Mobile city, Alabama



Source: B19001. HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B19013. MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama			
	African American	Margin of Error (+/-)	White, Not Hispanic	Margin of Error (+/-)
Median household income in the past 12 months (in 2018 inflation-adjusted dollars)	\$ 28,388	\$ 1,392	\$ 56,950	\$ 2,288

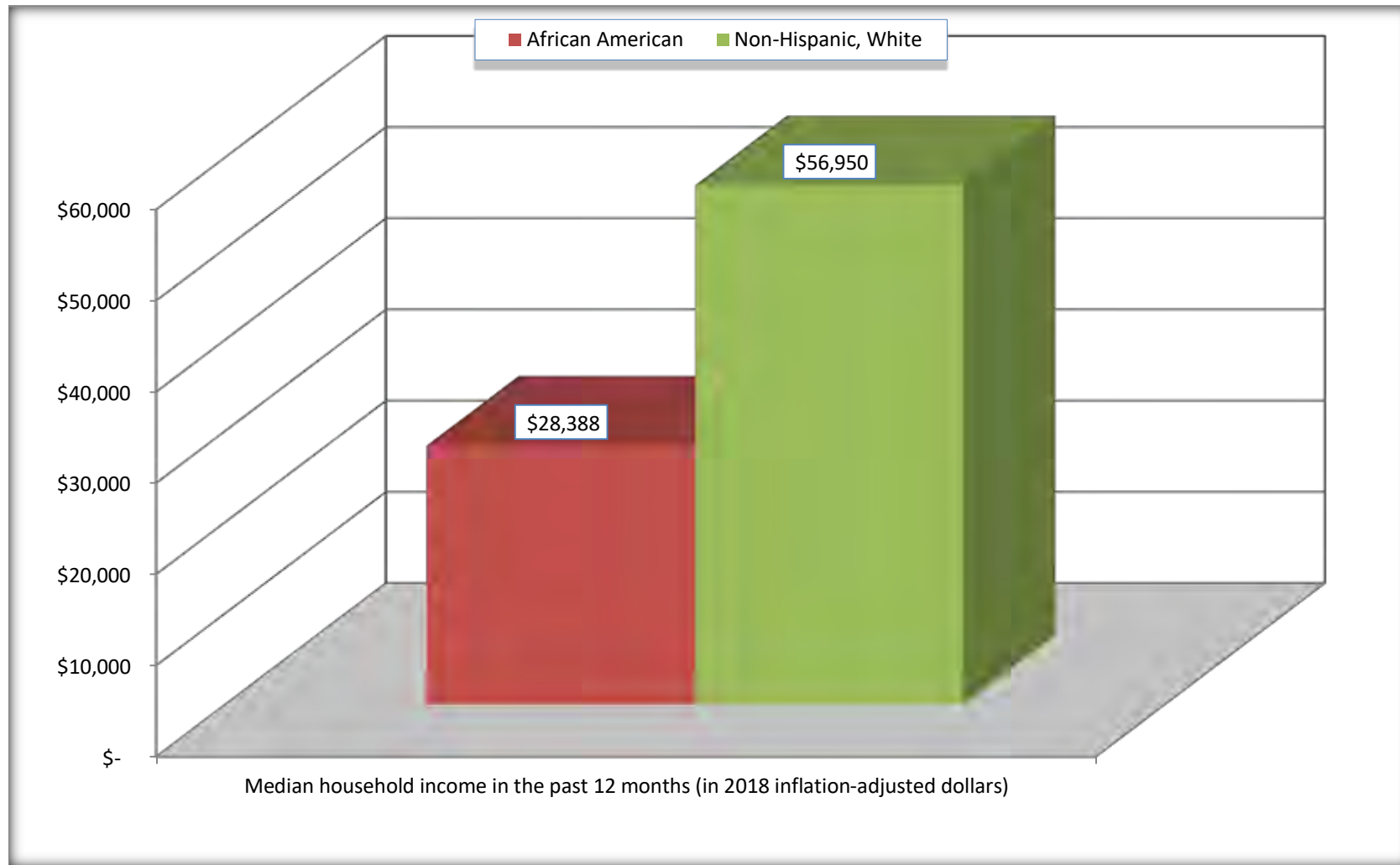
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Median Household Income in the Past 12 Months

Mobile city, Alabama



Source: B19013. MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B19101. FAMILY INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	21,157	749	100.0%	19,934	588	100.0%
Less than \$ 10,000	2,326	350	11.0%	658	180	3.3%
\$ 10,000 to \$ 14,999	1,297	239	6.1%	322	112	1.6%
\$ 15,000 to \$ 24,999	3,569	NC	16.9%	1,299	NC	6.5%
\$ 25,000 to \$ 34,999	2,665	NC	12.6%	1,257	NC	6.3%
\$ 35,000 to \$ 49,999	3,516	NC	16.6%	2,307	NC	11.6%
\$ 50,000 to \$ 74,999	3,500	NC	16.5%	3,637	NC	18.2%
\$ 100,000 to \$ 149,999	1,871	NC	8.8%	3,728	NC	18.7%
\$ 150,000 to \$ 199,999	332	121	1.6%	1,578	232	7.9%
\$ 200,000 or more	132	55	0.6%	2,080	264	10.4%

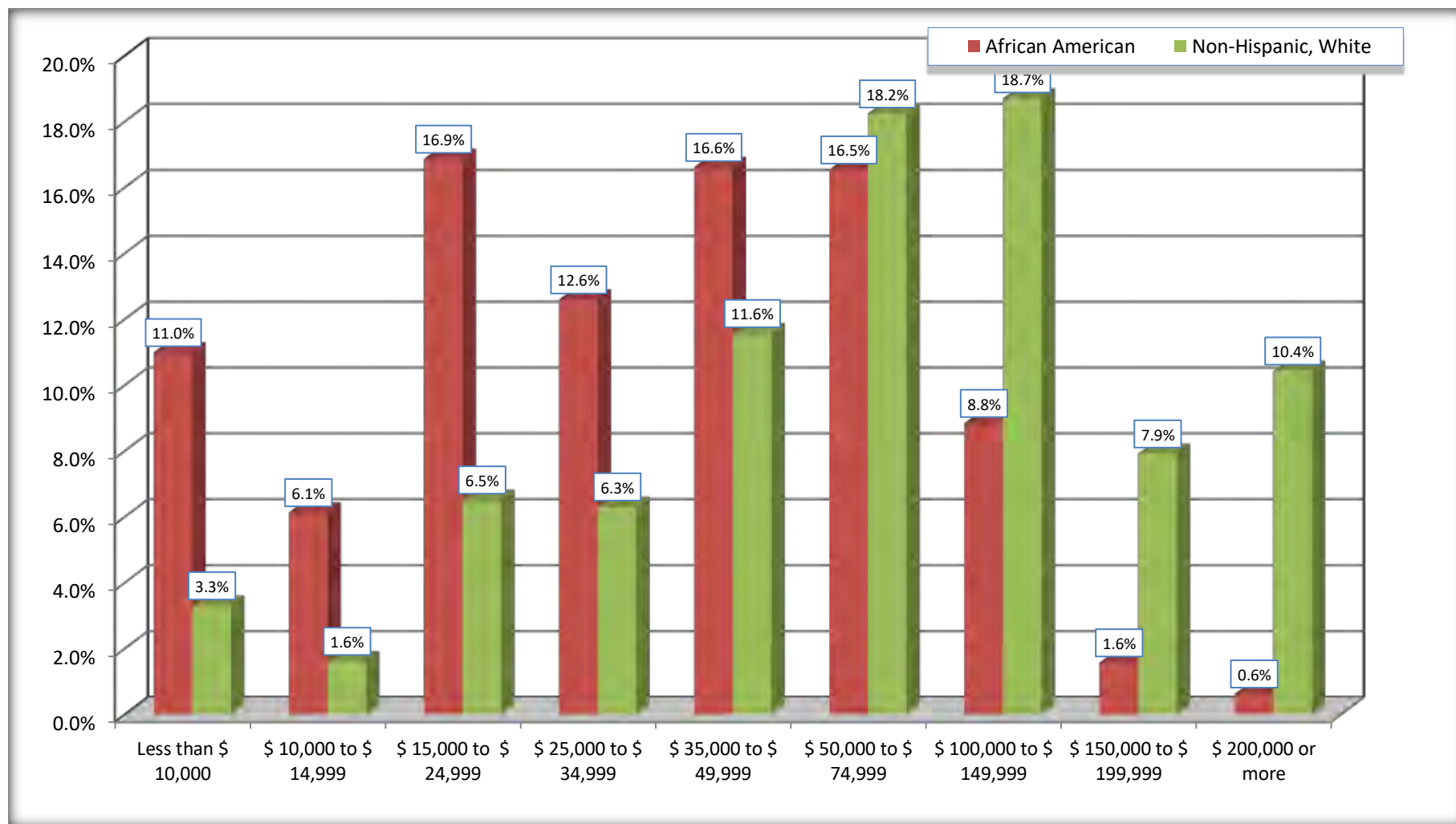
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Family Income in the Past 12 Months

Mobile city, Alabama



Source: B19101. FAMILY INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B19113. MEDIAN FAMILY INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama			
	African American	Margin of Error (+/-)	White, Not Hispanic	Margin of Error (+/-)
Median family income in the past 12 months (in 2018 inflation-adjusted dollars)	\$ 37,779	\$ 1,874	\$ 78,928	\$ 2,909

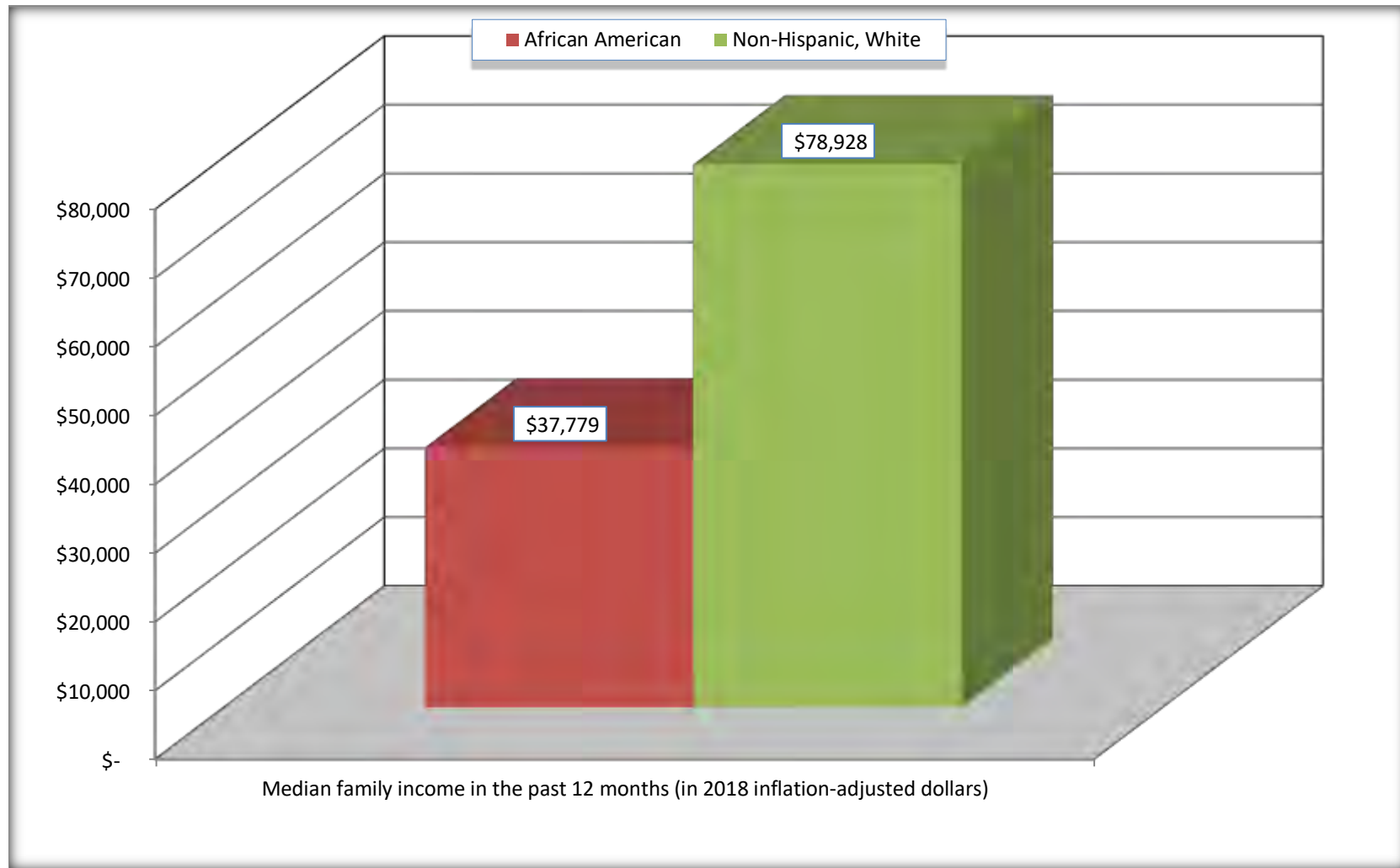
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Median Family Income in the Past 12 Months

Mobile city, Alabama



Source: B19113. MEDIAN FAMILY INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B19202. MEDIAN NONFAMILY HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama			
	African American	Margin of Error (+/-)	White, Not Hispanic	Margin of Error (+/-)
Median nonfamily household income in the past 12 months (in 2018 inflation-adjusted dollars)	\$ 18,771	\$ 1,004	\$ 36,624	\$ 2,413

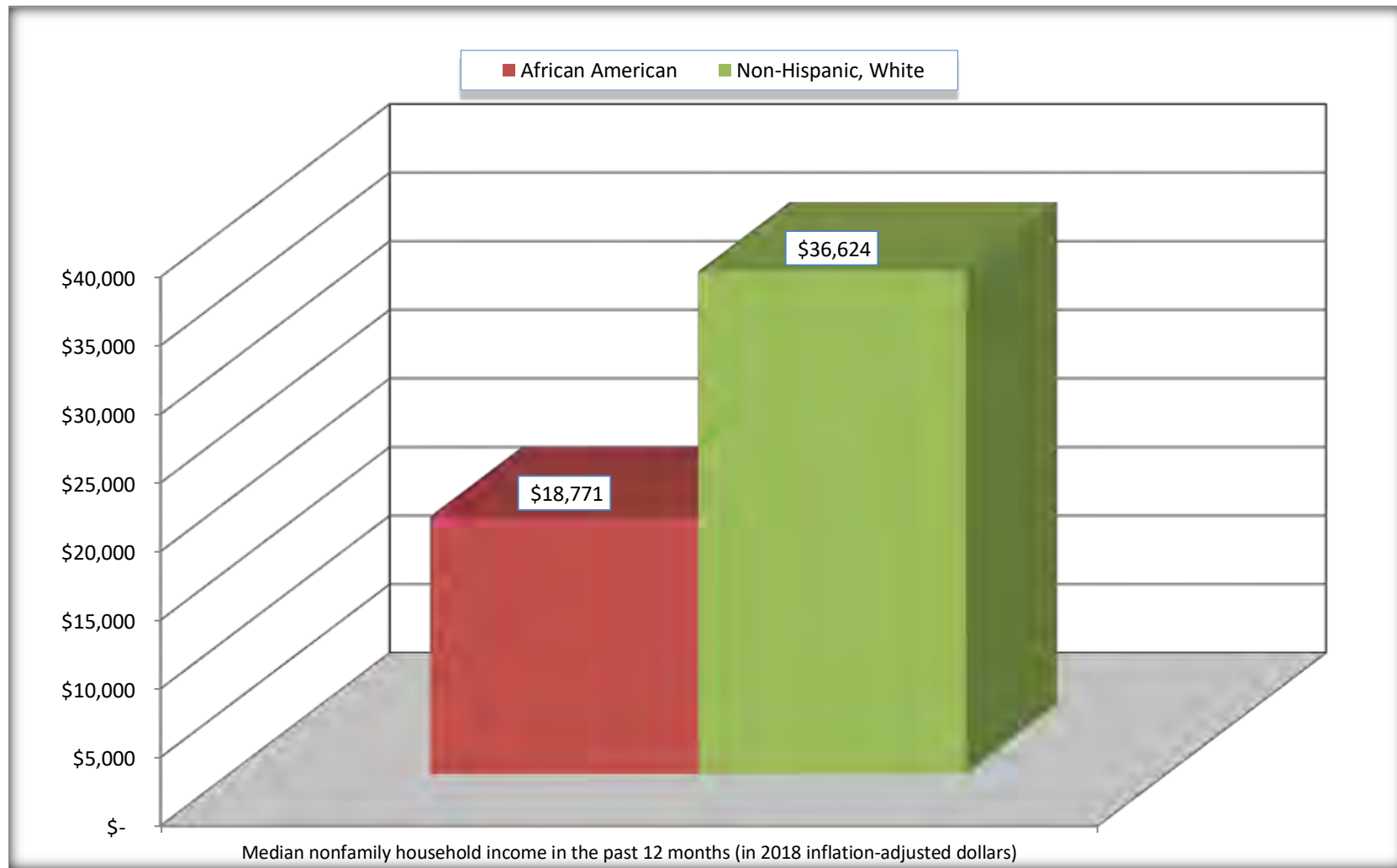
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Median Non-Family Income in the Past 12 Months

Mobile city, Alabama



Source: B19202. MEDIAN NONFAMILY HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B19301. PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama			
	African American	Margin of Error (+/-)	White, Not Hispanic	Margin of Error (+/-)
Per capita income in the past 12 months (in 2018 inflation-adjusted dollars)	\$ 17,329	\$ 608	\$ 36,435	\$ 1,239

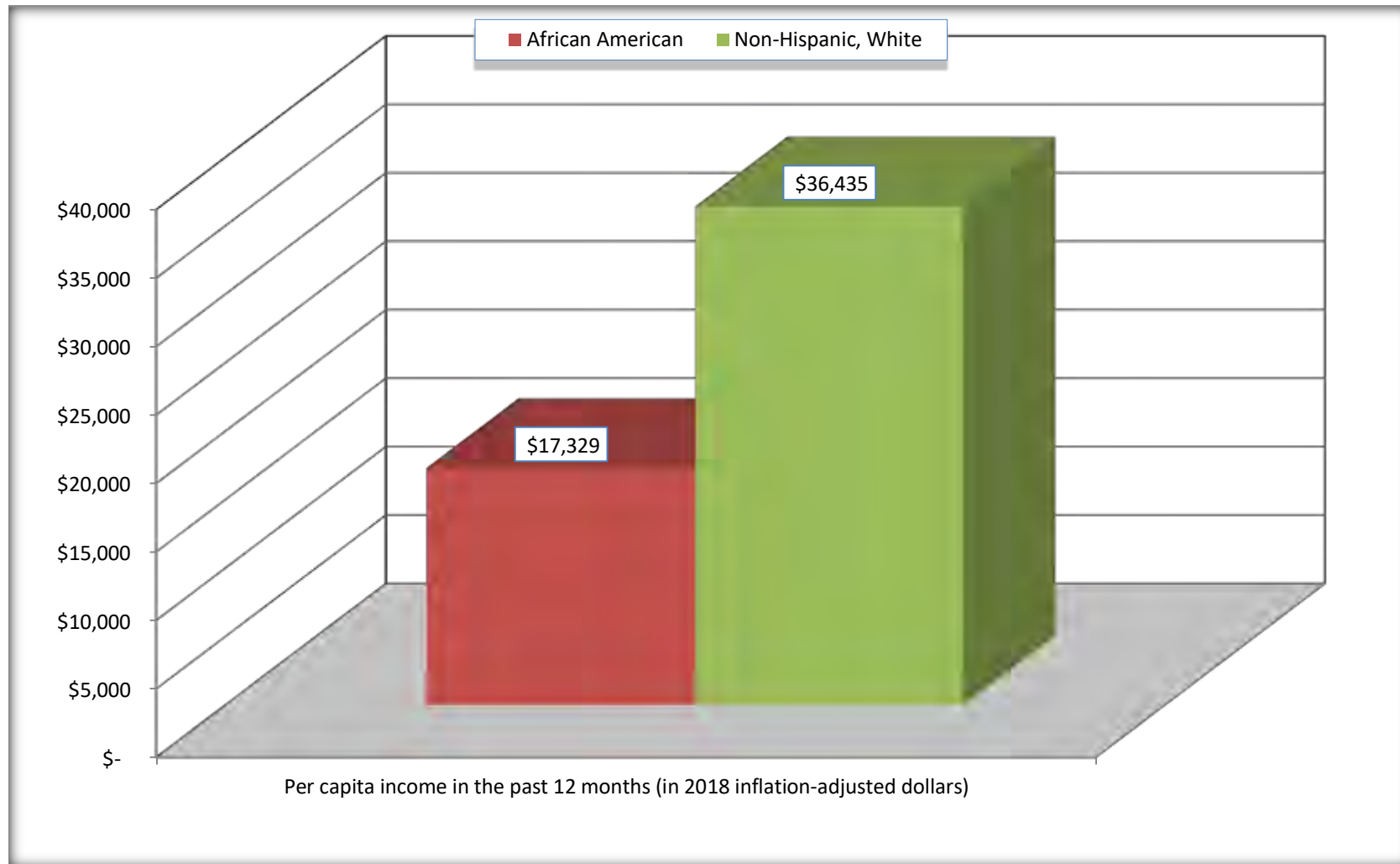
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Per capita Income in the Past 12 Months

Mobile city, Alabama



Source: B19301. PER CAPITA INCOME IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS)
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B20017. MEDIAN EARNINGS IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS) BY SEX BY WORK EXPERIENCE IN THE PAST 12 MONTHS FOR THE POPULATION 16 YEARS AND OVER WITH EARNINGS IN THE PAST 12 MONTHS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama			
	African American	Margin of Error (+/-)	White, Not Hispanic	Margin of Error (+/-)
Median earnings in the past 12 months (in 2018 inflation-adjusted dollars) --				
Total:	\$ 26,242	\$ 1,982	\$ 35,979	\$ 1,356
Male --				
Total	\$ 35,811	\$ 1,852	\$ 43,769	\$ 3,011
Worked full-time, year-round in the past 12 months	\$ 9,312	\$ 1,422	\$ 56,522	\$ 2,360
Other	\$ 21,456	\$ 865	\$ 13,318	\$ 980
Female --				
Total	\$ 28,008	\$ 1,236	\$ 29,327	\$ 1,535
Worked full-time, year-round in the past 12 months	\$ 10,473	\$ 900	\$ 40,540	\$ 917
Other	\$ 22,843	\$ 1,081	\$ 10,112	\$ 1,189

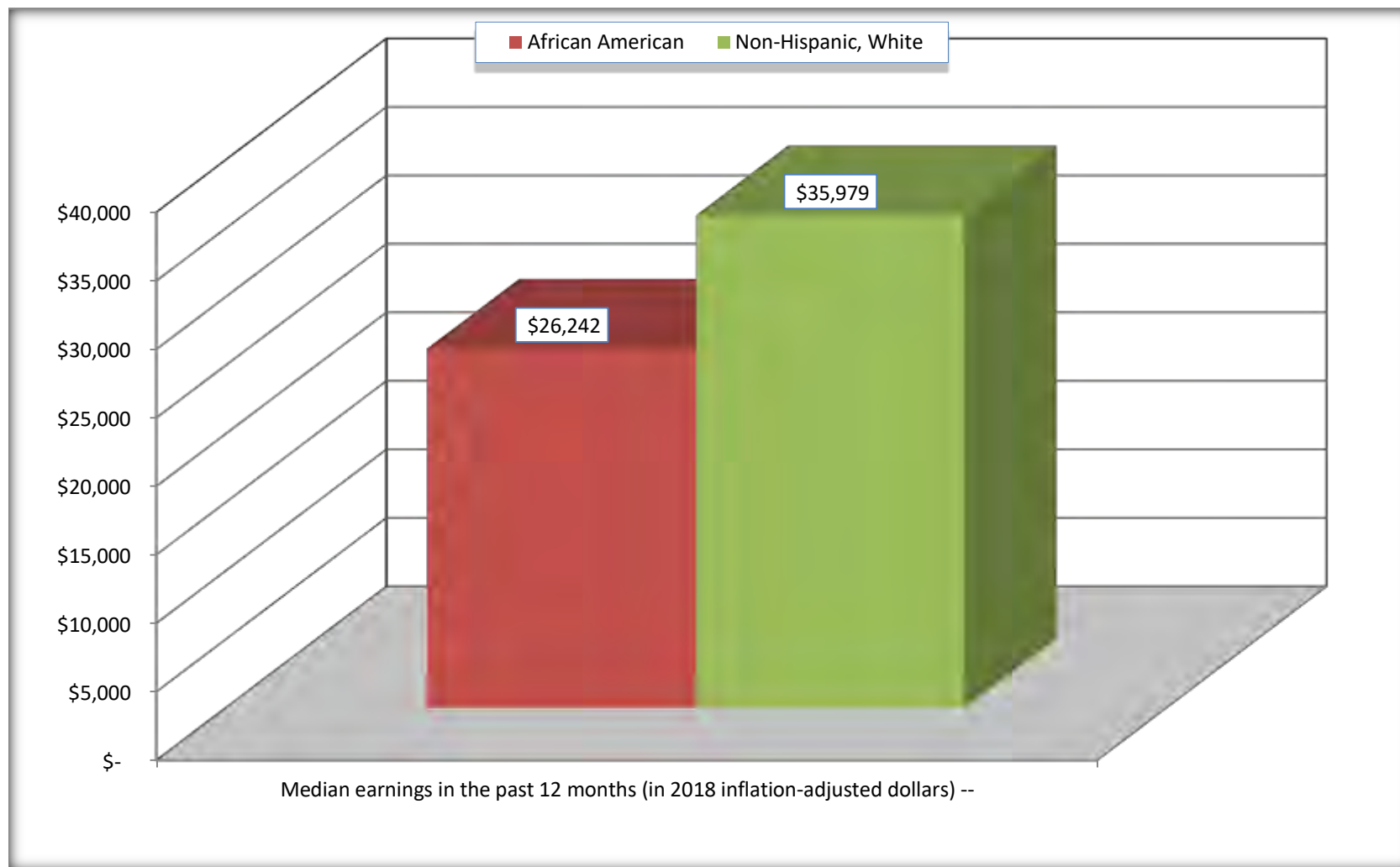
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Median earnings in the Past 12 Months (16 Years and Over with Earnings)

Mobile city, Alabama



Source: B20017. MEDIAN EARNINGS IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS) BY SEX BY WORK EXPERIENCE IN THE PAST 12 MONTHS FOR THE POPULATION 16 YEARS AND OVER WITH EARNINGS IN THE PAST 12 MONTHS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

C21001. SEX BY AGE BY VETERAN STATUS FOR THE CIVILIAN POPULATION 18 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	72,007	1,196	100.0%	68,827	1,409	100.0%
Veteran	5,318	NC	7.4%	6,319	NC	9.2%
Nonveteran	66,689	NC	92.6%	62,508	NC	90.8%
Male:	32,463	787	45.1%	33,233	968	48.3%
18 to 64 years:	27,849	813	38.7%	25,780	982	37.5%
Veteran	2,929	358	4.1%	2,291	285	3.3%
Nonveteran	24,920	801	34.6%	23,489	990	34.1%
65 years and over:	4,614	247	6.4%	7,453	340	10.8%
Veteran	1621	206	2.3%	3538	307	5.1%
Nonveteran	2,993	260	4.2%	3,915	309	5.7%
Female:	39,544	814	54.9%	35,594	865	51.7%
18 to 64 years:	32,462	711	45.1%	25,228	794	36.7%
Veteran	681	215	0.9%	360	96	0.5%
Nonveteran	31,781	709	44.1%	24,868	774	36.1%
65 years and over:	7,082	334	9.8%	10,366	440	15.1%
Veteran	87	58	0.1%	130	60	0.2%
Nonveteran	6,995	342	9.7%	10,236	429	14.9%

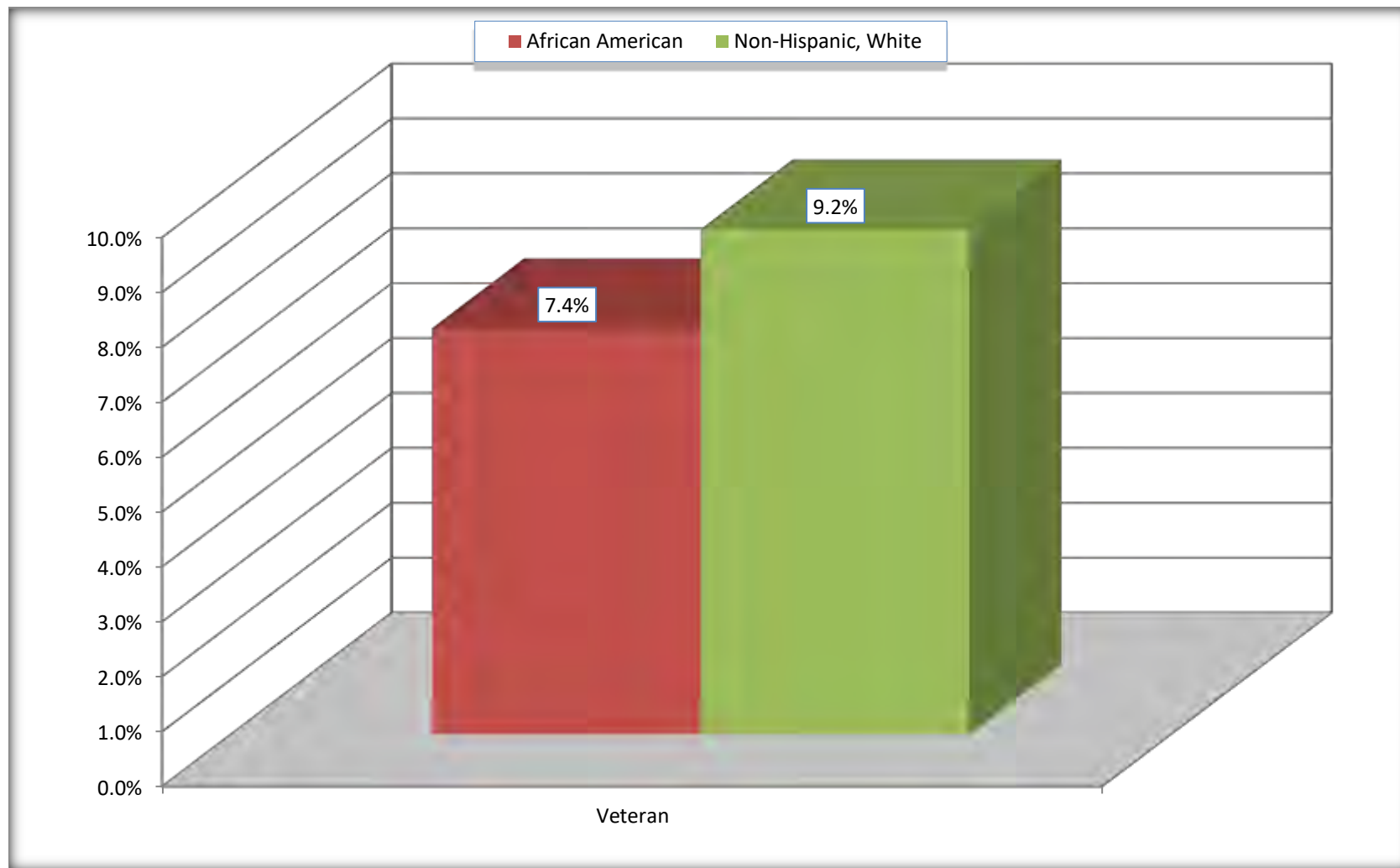
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Veterans in the Civilian Population 18 Years and Over

Mobile city, Alabama



Source: C21001. SEX BY AGE BY VETERAN STATUS FOR THE CIVILIAN POPULATION 18 YEARS AND OVER
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B20005. SEX BY WORK EXPERIENCE IN THE PAST 12 MONTHS BY EARNINGS IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS) FOR THE POPULATION 16 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	75,124	1,269	100.0%	70,468	1,427	100.0%
Worked full-time, year-round in the past 12 months:	26,635	NC	35.5%	29,554	NC	41.9%
No earnings	0	NC	0.0%	0	NC	0.0%
With earnings:	26,635	NC	35.5%	29,554	NC	41.9%
\$ 1 to \$ 9,999 or less	858	NC	1.1%	378	NC	0.5%
\$ 10,000 to \$ 19,999	5,279	NC	7.0%	2,122	NC	3.0%
\$ 20,000 to \$ 29,999	6,289	NC	8.4%	4,580	NC	6.5%
\$ 30,000 to \$ 49,999	8,288	NC	11.0%	8,302	NC	11.8%
\$ 50,000 to \$ 74,999	4,154	NC	5.5%	6,491	NC	9.2%
\$ 75,000 or more	1,767	NC	2.4%	7,681	NC	10.9%
Other:	48,489	NC	64.5%	40,914	NC	58.1%
No earnings	34,111	NC	45.4%	26,711	NC	37.9%
With earnings: less than full time, year-round	14,378	NC	19.1%	14,203	NC	20.2%
Male:	34,089	791	45.4%	34,088	951	48.4%
Worked full-time, year-round in the past 12 months:	12,035	840	16.0%	16,831	663	23.9%
No earnings	0	28	0.0%	0	28	0.0%
With earnings:	12,035	840	16.0%	16,831	663	23.9%
\$ 1 to \$ 9,999 or less	321	NC	0.4%	224	NC	0.3%
\$ 10,000 to \$ 19,999	2,024	NC	2.7%	882	NC	1.3%
\$ 20,000 to \$ 29,999	2,204	NC	2.9%	1,912	NC	2.7%
\$ 30,000 to \$ 49,999	3,906	NC	5.2%	3,943	NC	5.6%
\$ 50,000 to \$ 74,999	2,487	NC	3.3%	4,110	NC	5.8%
\$ 75,000 or more	1,093	NC	1.5%	5,760	NC	8.2%

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Other:	22,054	939	29.4%	17,257	829	24.5%
No earnings	15,770	669	21.0%	10,458	643	14.8%
With earnings:	6,284	631	8.4%	6,799	508	9.6%
Female:	41,035	845	54.6%	36,380	876	51.6%
Worked full-time, year-round in the past 12 months:	14,600	806	19.4%	12,723	512	18.1%
No earnings	0	28	0.0%	0	28	0.0%
With earnings:	14,600	806	19.4%	12,723	512	18.1%
\$ 1 to \$ 9,999 or loss	537	NC	0.7%	154	NC	0.2%
\$ 10,000 to \$ 19,999	3,255	NC	4.3%	1,240	NC	1.8%
\$ 20,000 to \$ 29,999	4,085	NC	5.4%	2,668	NC	3.8%
\$ 30,000 to \$ 49,999	4,382	NC	5.8%	4,359	NC	6.2%
\$ 50,000 to \$ 74,999	1,667	NC	2.2%	2,381	NC	3.4%
\$ 75,000 or more	674	NC	0.9%	1,921	NC	2.7%
Other:	26,435	893	35.2%	23,657	761	33.6%
No earnings	18,341	850	24.4%	16,253	705	23.1%
With earnings:	8,094	594	10.8%	7,404	531	10.5%

Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Employment and Earnings in in the Past 12 Months (16 Years and Over)

Mobile city, Alabama



Source: B20005. SEX BY WORK EXPERIENCE IN THE PAST 12 MONTHS BY EARNINGS IN THE PAST 12 MONTHS (IN 2018 INFLATION-ADJUSTED DOLLARS) FOR THE POPULATION 16 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

B22005. RECEIPT OF FOOD STAMPS/SNAP IN THE PAST 12 MONTHS BY RACE OF HOUSEHOLDER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	37,124	705	100.0%	36,470	800	100.0%
HH received Food Stamps/SNAP in the past 12 months	11,755	611	31.7%	3,002	356	8.2%
HH did not receive Food Stamps/SNAP in the past 12 months	25,369	824	68.3%	33,468	823	91.8%

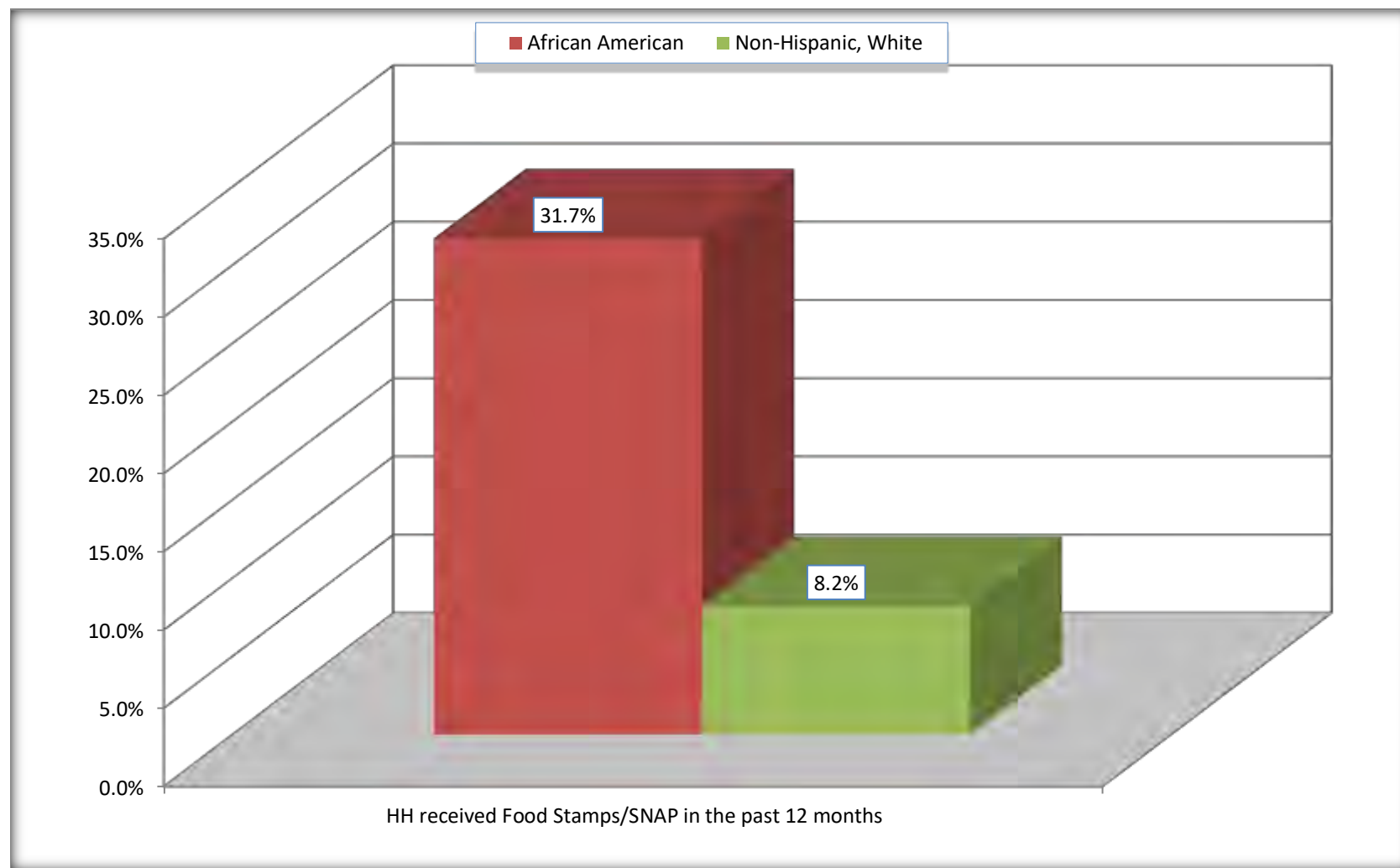
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Receipt of Food Stamps/SNAP in the Past 12 Months by Household

Mobile city, Alabama



Source: B22005. RECEIPT OF FOOD STAMPS/SNAP IN THE PAST 12 MONTHS BY RACE OF HOUSEHOLDER
Data Set: 2014-2018 American Community Survey 5-Year Estimates

C23002. SEX BY AGE BY EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	75,124	1,269	100.0%	70,468	1,427	100.0%
In labor force:	40,659	NC	54.1%	41,043	NC	58.2%
In Armed Forces	47	NC	0.1%	208	NC	0.3%
Civilian:	39,173	NC	52.1%	37,604	NC	53.4%
Employed	36,532	NC	48.6%	39,430	NC	56.0%
Unemployed	4,080	NC	5.4%	1,405	NC	2.0%
Not in labor force	34,465	NC	45.9%	29,425	NC	41.8%
Male:	34,089	791	45.4%	34,088	951	48.4%
16 to 64 years:	29,475	831	39.2%	26,635	961	37.8%
In labor force:	17,247	748	23.0%	20,099	725	28.5%
In Armed Forces	47	67	0.1%	181	71	0.3%
Civilian:	17,200	747	22.9%	19,918	731	28.3%
Employed	15,231	810	20.3%	19,224	737	27.3%
Unemployed	1,969	367	2.6%	694	163	1.0%
Not in labor force	12,228	779	16.3%	6,536	717	9.3%
65 years and over:	4,614	247	6.1%	7,453	340	10.6%
In labor force:	492	105	0.7%	1,818	218	2.6%
Employed	483	103	0.6%	1,755	208	2.5%
Unemployed	9	12	0.0%	63	42	0.1%
Not in labor force	4,122	243	5.5%	5,635	318	8.0%

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Female:	41,035	845	54.6%	36,380	876	51.6%
16 to 64 years:	33,953	732	45.2%	26,014	820	36.9%
In labor force:	21,973	778	29.2%	17,713	648	25.1%
In Armed Forces	0	28	0.0%	27	24	0.0%
Civilian:	21,973	778	29.2%	17,686	644	25.1%
Employed	19,913	833	26.5%	17,128	626	24.3%
Unemployed	2,060	321	2.7%	558	168	0.8%
Not in labor force	11,980	752	15.9%	8,301	609	11.8%
65 years and over:	7,082	334	9.4%	10,366	440	14.7%
In labor force:	947	141	1.3%	1,413	229	2.0%
Employed	905	135	1.2%	1,323	220	1.9%
Unemployed	42	24	0.1%	90	92	0.1%
Not in labor force	6,135	315	8.2%	8,953	403	12.7%

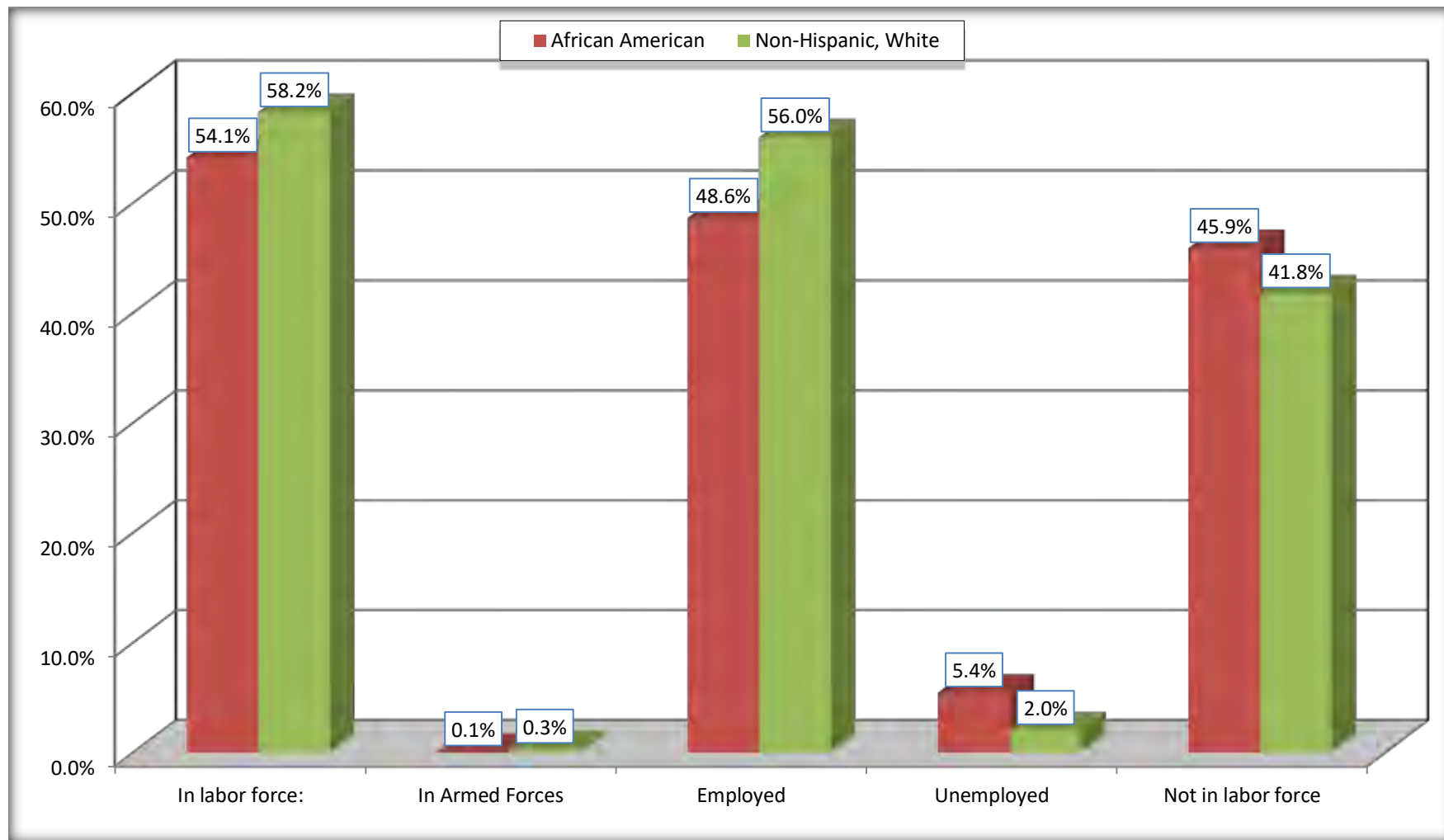
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Employment Status for the Population 16 years and over

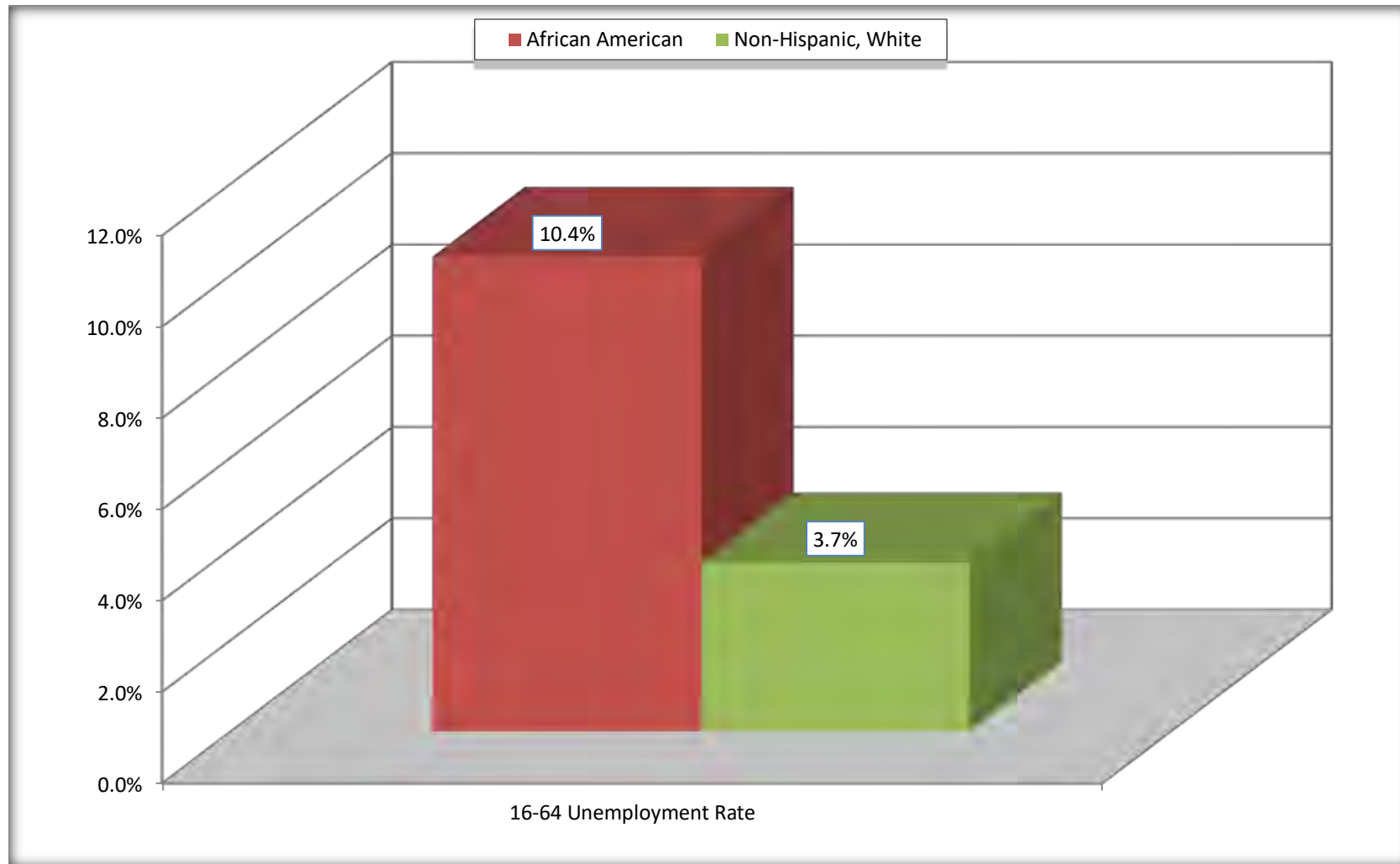
Mobile city, Alabama



Source: C23002. SEX BY AGE BY EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER
Data Set: 2014-2018 American Community Survey 5-Year Estimates

**Unemployment of Working Age Population (Ages 16 to 64)
(As a Percent of 16-64 Civilian Labor Force)**

Mobile city, Alabama



Source: C23002. SEX BY AGE BY EMPLOYMENT STATUS FOR THE POPULATION 16 YEARS AND OVER
Data Set: 2014-2018 American Community Survey 5-Year Estimates

C24010. SEX BY OCCUPATION FOR THE CIVILIAN EMPLOYED POPULATION 16 YEARS AND OVER

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	36,532	1,251	100.0%	39,430	953	100.0%
Management, professional, and related occupations	8,330	NC	22.8%	18,719	NC	47.5%
Service occupations	9,763	NC	26.7%	4,782	NC	12.1%
Sales and office occupations	8,446	NC	23.1%	9,321	NC	23.6%
Natural resources, construction, and maintenance occupations:	2,478	NC	6.8%	2,906	NC	7.4%
Production, transportation, and material moving occupations	7,515	NC	20.6%	3,702	NC	9.4%
Male:	15,714	804	43.0%	20,979	727	53.2%
Management, business, science, and arts occupations:	2,012	345	5.5%	9,464	537	24.0%
Service occupations	3,476	532	9.5%	1,980	290	5.0%
Sales and office occupations	1,989	304	5.4%	3,792	423	9.6%
Natural resources, construction, and maintenance occupations:	2,342	439	6.4%	2,787	369	7.1%
Production, transportation, and material moving occupations	5,895	518	16.1%	2,956	373	7.5%
Female:	20,818	818	57.0%	18,451	635	46.8%
Management, professional, and related occupations	6,318	574	17.3%	9,255	548	23.5%
Service occupations	6,287	497	17.2%	2,802	427	7.1%
Sales and office occupations	6,457	555	17.7%	5,529	447	14.0%
Natural resources, construction, and maintenance occupations:	136	76	0.4%	119	82	0.3%
Production, transportation, and material moving occupations	1,620	310	4.4%	746	181	1.9%

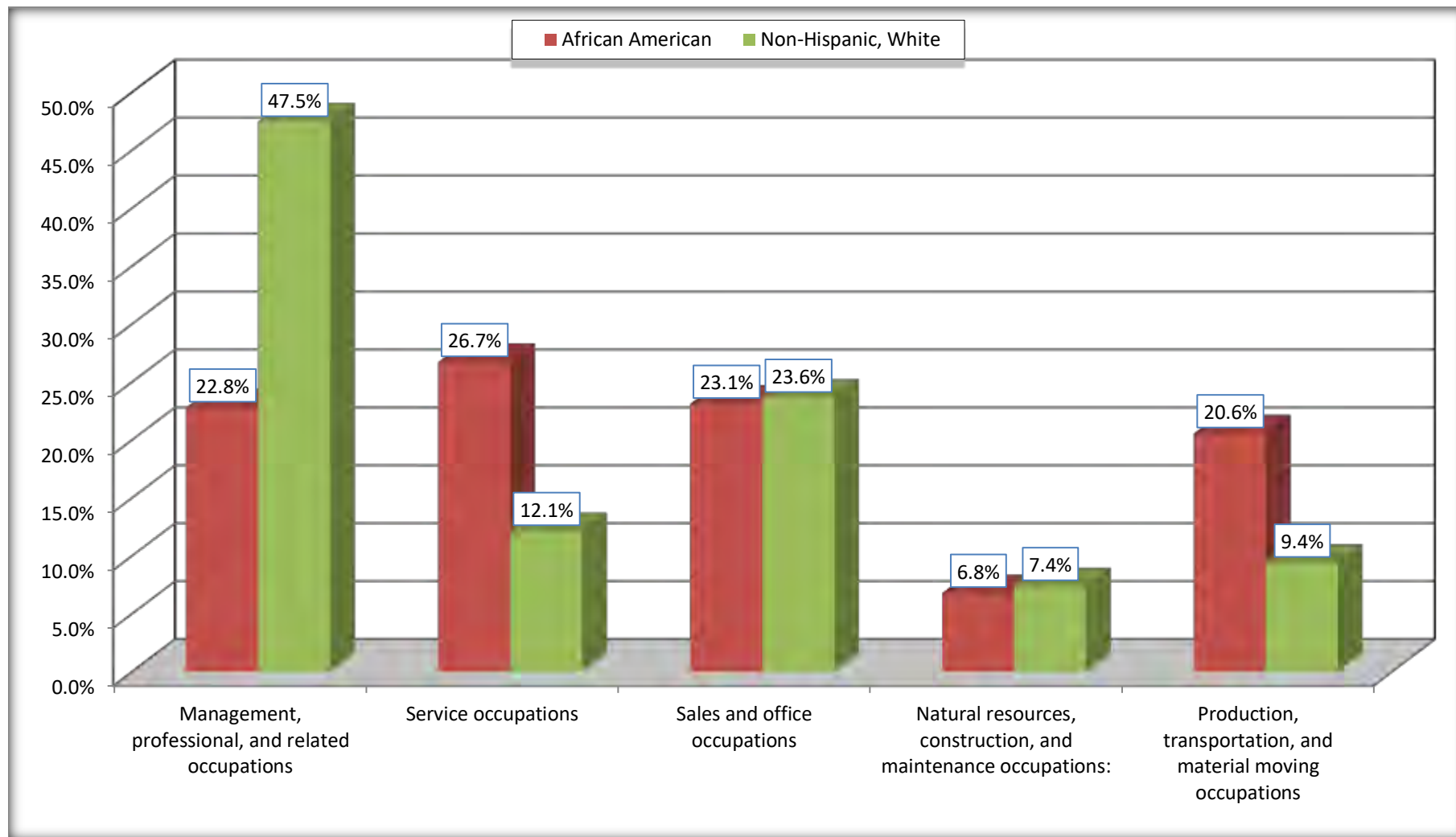
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Occupation for the Civilian Employed 16 Years and Over Population

Mobile city, Alabama



Source: C24010. SEX BY OCCUPATION FOR THE CIVILIAN EMPLOYED POPULATION 16 YEARS AND OVER
 Data Set: 2014-2018 American Community Survey 5-Year Estimates

B25003. TENURE - Universe: OCCUPIED HOUSING UNITS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	37,124	705	100.0%	36,470	800	100.0%
Owner occupied	16,321	538	44.0%	23,859	673	65.4%
Renter occupied	20,803	703	56.0%	12,611	680	34.6%

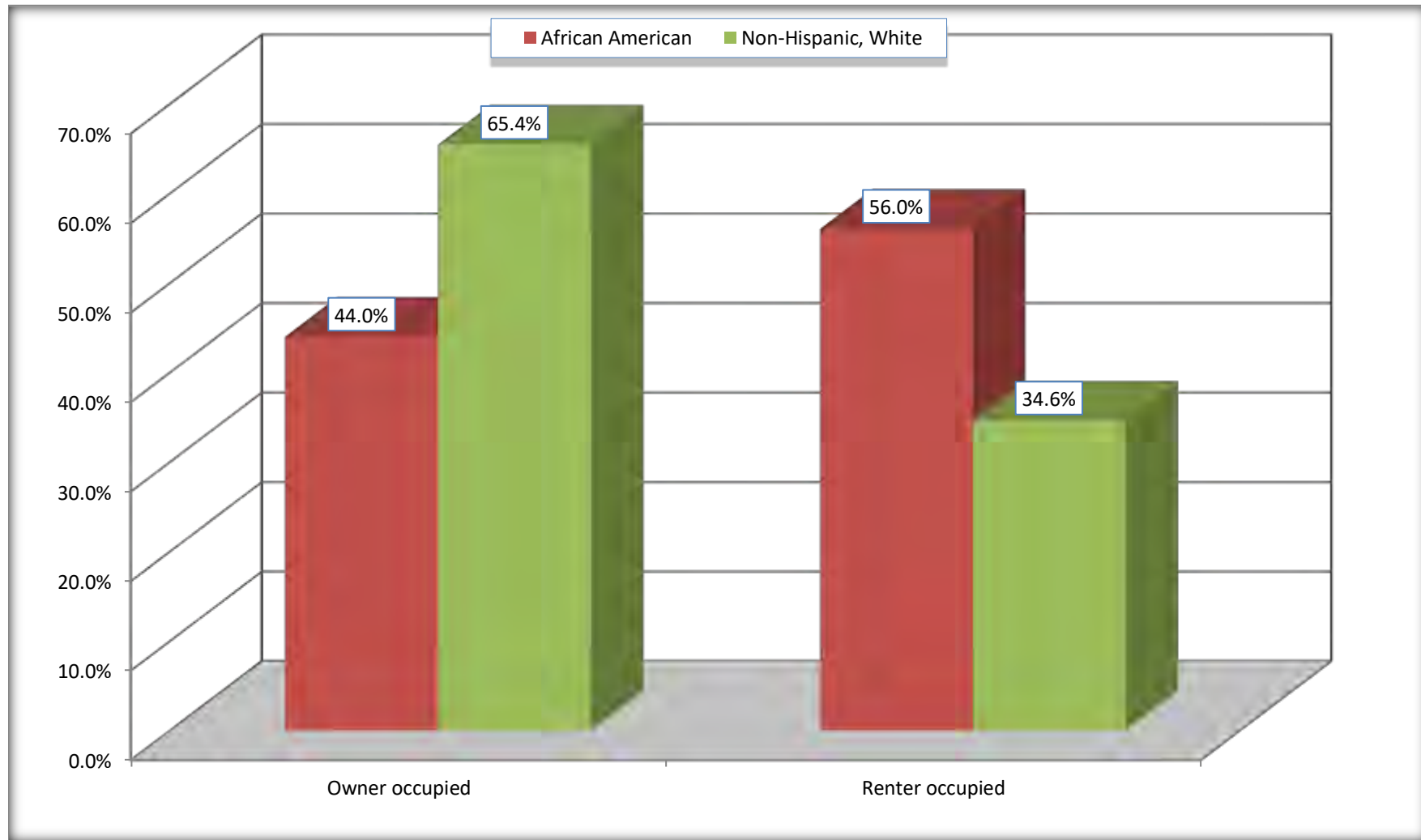
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.h>

Home Owners and Renters by Household

Mobile city, Alabama



Source: B25003. TENURE - Universe: OCCUPIED HOUSING UNITS
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B25014. OCCUPANTS PER ROOM - Universe: OCCUPIED HOUSING UNITS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	37,124	705	100.0%	36,470	800	100.0%
1.00 or less occupants per room	36,358	703	97.9%	36,110	802	99.0%
1.01 or more occupants per room	766	201	2.1%	360	146	1.0%

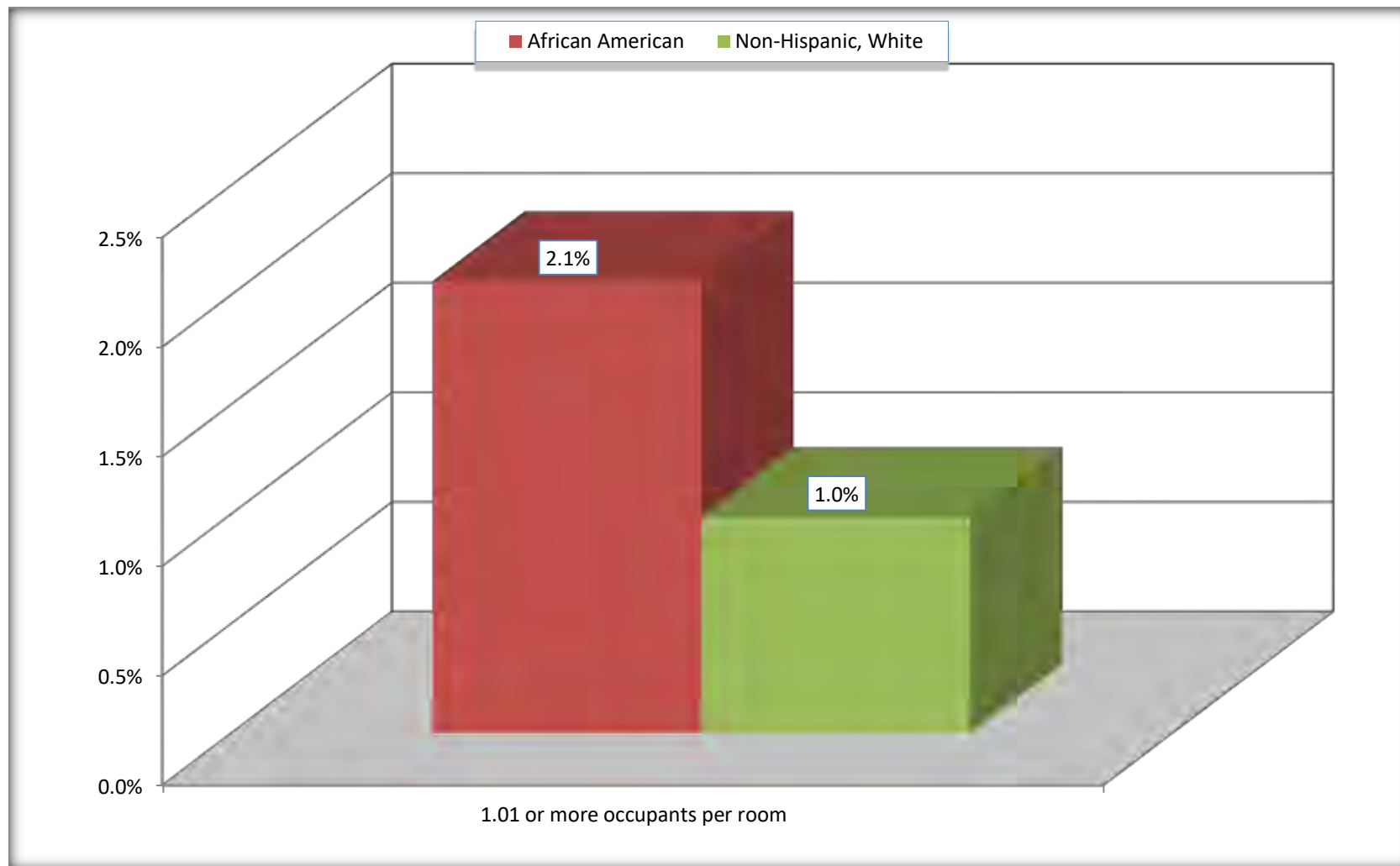
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.ht>

More than One Person per Room (Crowding) by Household

Mobile city, Alabama



Source: B25014. OCCUPANTS PER ROOM - Universe: OCCUPIED HOUSING UNITS
Data Set: 2014-2018 American Community Survey 5-Year Estimates

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	94,223	1,778	100.0%	79,945	1,624	100.0%
Under 18 years:	24,843	1,114	26.4%	13,504	218	16.9%
With a disability	678	190	0.7%	675	189	0.8%
No disability	24,165	1,090	25.6%	12,829	813	16.0%
18 to 64 years:	58,086	1,274	61.6%	49,199	1,303	61.5%
With a disability	7,723	551	8.2%	5,390	473	6.7%
No disability	50,363	1,241	53.5%	43,809	1,233	54.8%
65 years and over:	11,294	404	12.0%	17,242	678	21.6%
With a disability	4,268	349	4.5%	5,828	424	7.3%
No disability	7,026	425	7.5%	11,414	607	14.3%

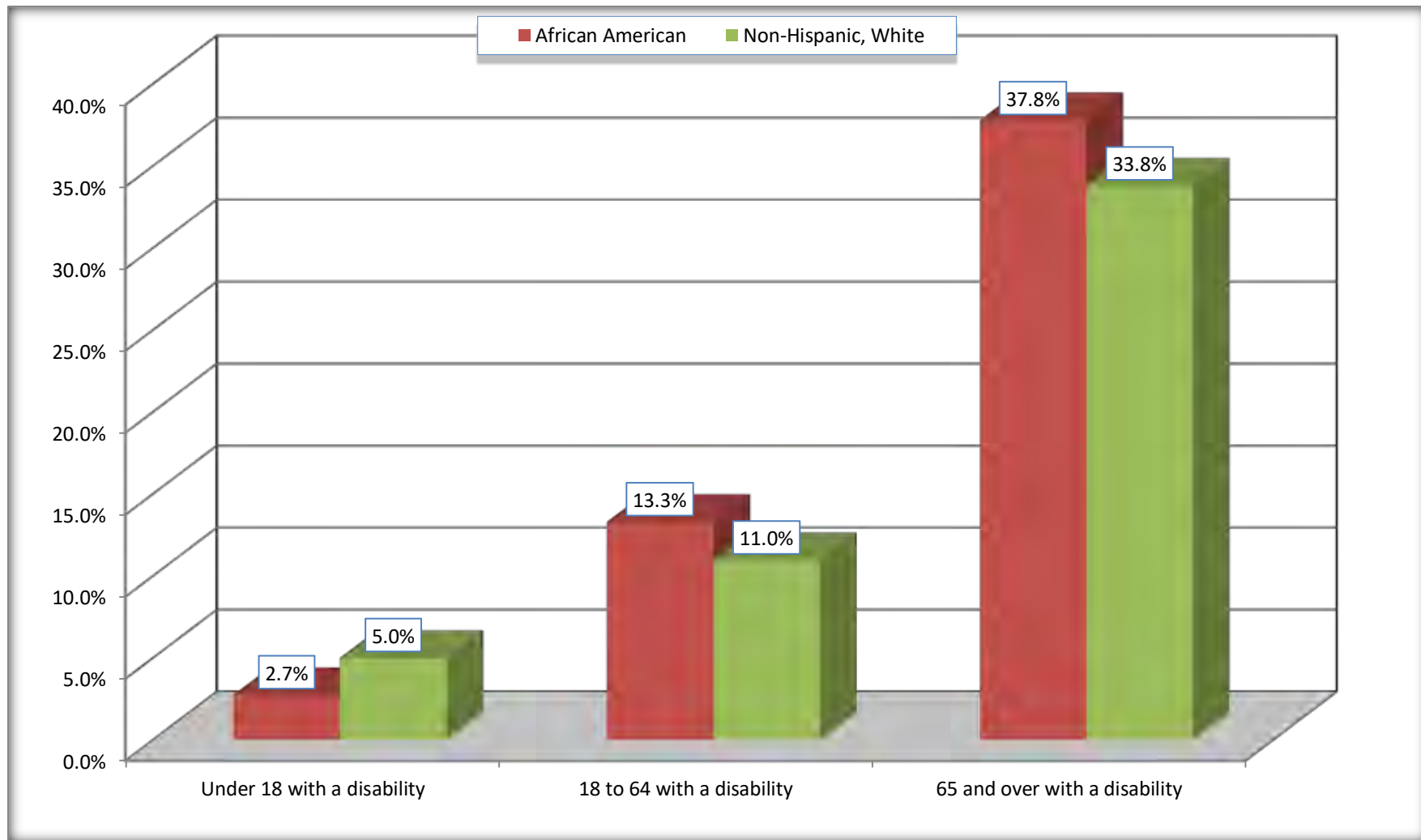
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Disability by Age

Mobile city, Alabama



Source: B18101. AGE BY DISABILITY STATUS

Data Set: 2014-2018 American Community Survey 5-Year Estimates

C27001B. HEALTH INSURANCE COVERAGE STATUS BY AGE

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	94,223	1,778	100.0%	79,945	1,624	100.0%
Under 18 years:	26,341	1,175	28.0%	14,425	826	18.0%
With health insurance coverage	25,496	1,181	27.1%	14,069	858	17.6%
No health insurance coverage	845	374	0.9%	356	134	0.4%
18 to 64 years:	56,588	1,277	60.1%	48,278	1,331	60.4%
With health insurance coverage	45,124	1,134	47.9%	41,470	1,242	51.9%
No health insurance coverage	11,464	849	12.2%	6,808	753	8.5%
65 years and over:	11,294	404	12.0%	17,242	678	21.6%
With health insurance coverage	11,237	399	11.9%	17,206	677	21.5%
No health insurance coverage	57	49	0.1%	36	33	0.0%

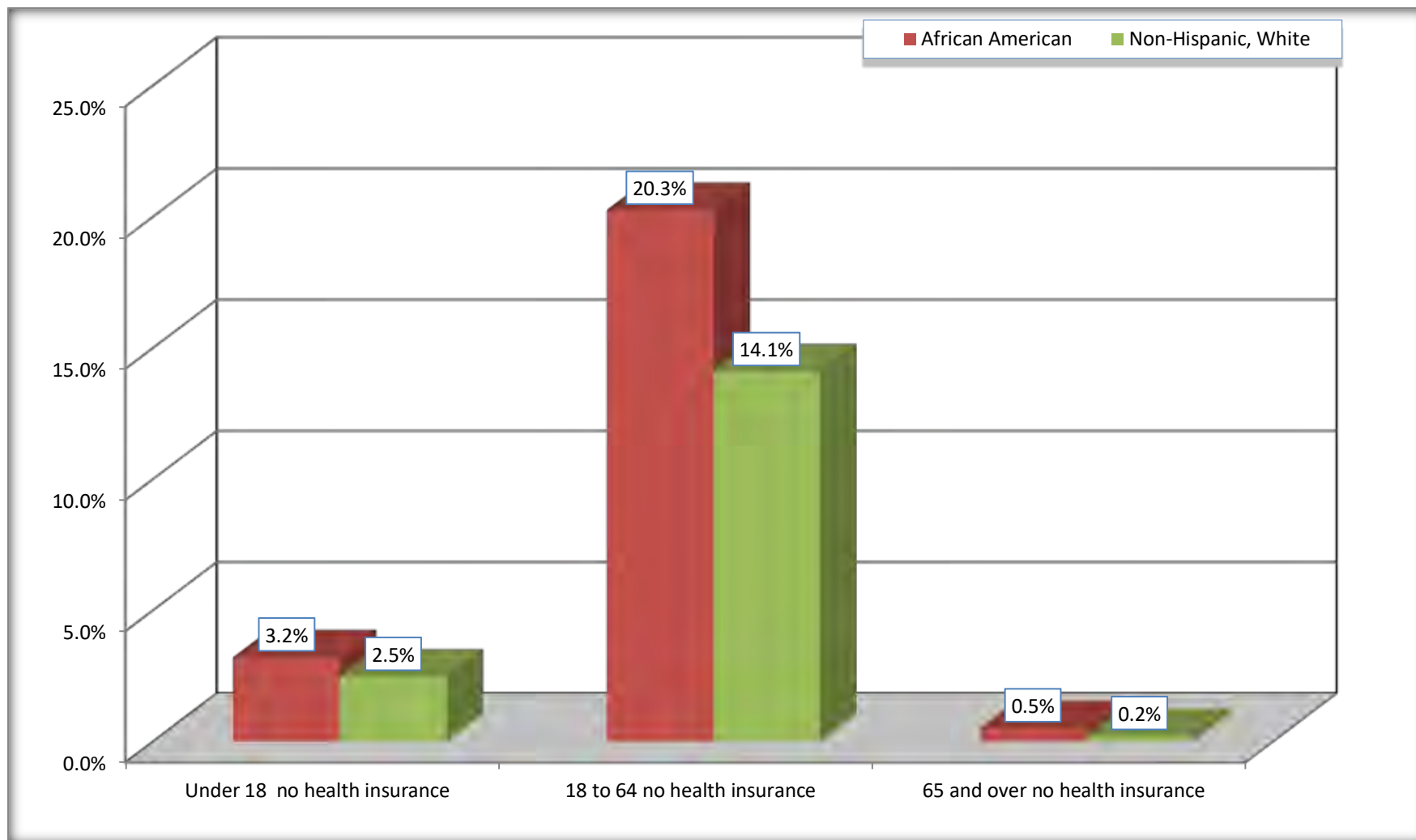
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Lack of Health Insurance Coverage by Age

Mobile city, Alabama



Source: C27001B. HEALTH INSURANCE COVERAGE STATUS BY AGE
Data Set: 2014-2018 American Community Survey 5-Year Estimates

B28009. PRESENCE OF A COMPUTER AND TYPE OF INTERNET SUBSCRIPTION IN HOUSEHOLD

Data Set: 2014-2018 American Community Survey 5-Year Estimates

	Mobile city, Alabama					
	African American	Margin of Error (+/-)	% of AA Total	White, Not Hispanic	Margin of Error (+/-)	% of NHW Total
Total:	93,534	1,769	100.0%	78,846	1,570	100.0%
Has a computer:	74,351	1,927	79.5%	72,558	1,673	92.0%
With dial-up Internet subscription alone	470	546	0.5%	250	128	0.3%
With a broadband Internet subscription	59,841	1,955	64.0%	66,961	1,751	84.9%
Without an Internet subscription	14,040	1,541	15.0%	5,347	776	6.8%
No Computer	19,183	1,606	20.5%	6,288	573	8.0%

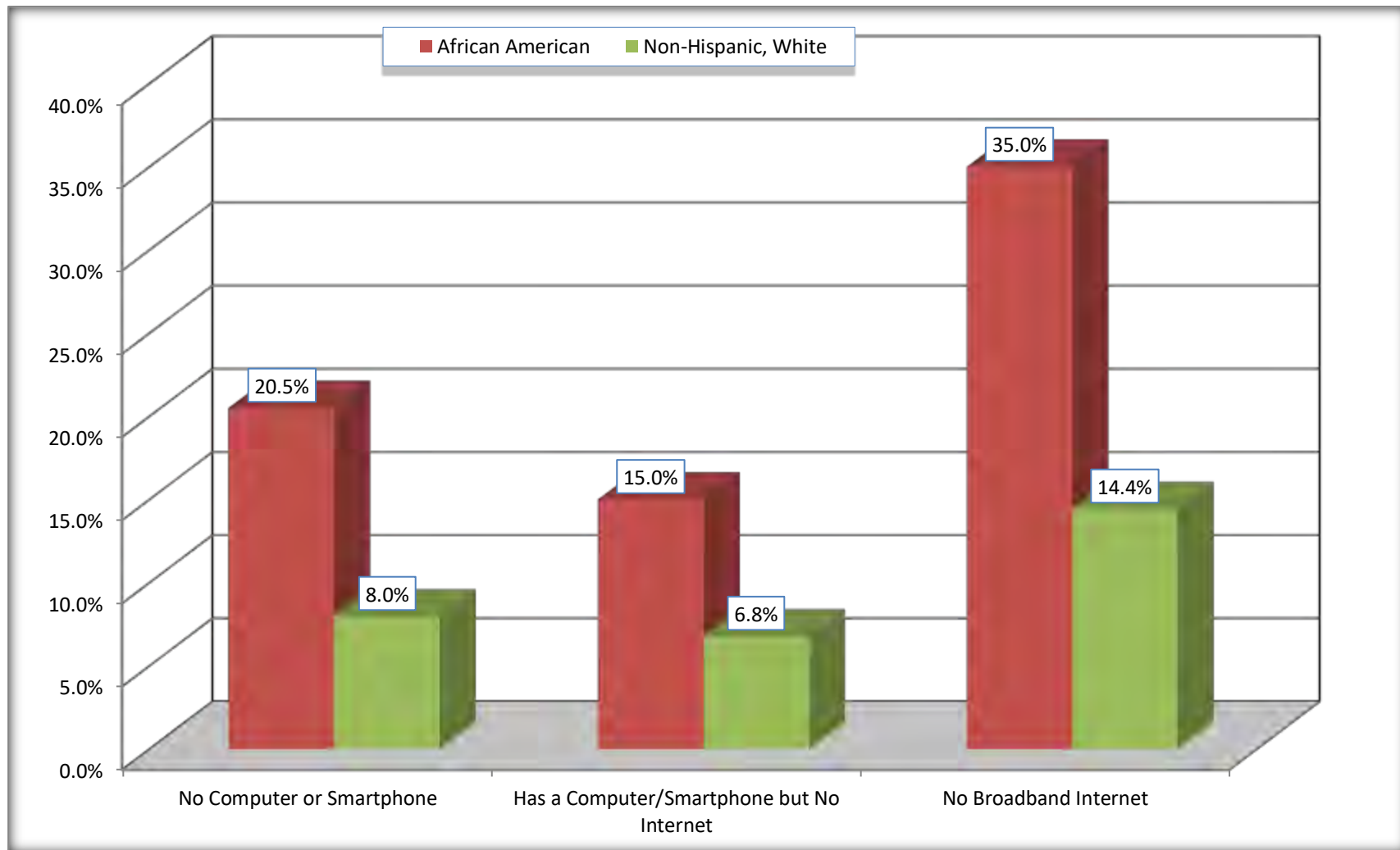
Source: U.S. Census Bureau, 2014-2018 American Community Survey

For information on confidentiality protection, sampling error, nonsampling error, and definitions, see Survey Methodology.

<http://www.census.gov/acs/www/UseData/index.htm>

Computer/Smartphone and Internet Access

Mobile city, Alabama



Source: B28009. PRESENCE OF A COMPUTER AND TYPE OF INTERNET SUBSCRIPTION IN HOUSEHOLD
Data Set: 2014-2018 American Community Survey 5-Year Estimates

EXHIBIT 37

ALEA NEWS RELEASE

ALEA Continues to Modify its Driver License Division Operations in Response to COVID-19

Date Submitted:

March 23, 2020

Location Issued:

Montgomery

PIO / Contact:**Agency Contact:**

ALEA Continues to Modify its
Driver License Division
Operations in Response to
COVID-19 ()

Montgomery – The Alabama Law Enforcement Agency continues to monitor its response to the Coronavirus (COVID-19) and modify its Driver License Division's statewide operations.

ALEA's Secretary Hal Taylor said, "Serving the public is a priority for our agency. We are dedicated to providing public safety to the state and its citizens, and this will not change as we respond to COVID-19. Governor Ivey, who has declared a state of emergency, has charged state agencies with determining how best to ensure continued operations without risking the health of the public or our personnel during this pandemic."

ALEA's Driver License Division touches the lives of many, so the agency continues to modify division operations, he said. Effective immediately, Driver License Division:

- Has closed several of its Driver License locations housed in county facilities that county officials have closed
- Beginning Tuesday, March 24, the agency is closing Birmingham, Pelham and Columbiana offices
- Has suspended road testing (including CDL)
- Discourages anyone with a weakened or compromised immune system from visiting any Driver License locations
- Reminds everyone all Alabama driver licenses and non-driver IDs holders have a 60-day grace period following expiration date (Code of Alabama, Title 32-6-1). Customers may wait to renew
- Encourages online services for anyone who must renew or obtain a duplicate driver license/STAR ID or non-driver ID
at https://www.alabamainteractive.org/dl_renewal (https://www.alabamainteractive.org/dl_renewal). To obtain a first issuance of a STAR ID, customers must visit an ALEA Driver License office
- Encourages everyone to visit www.alea.gov (<http://www.alea.gov/>) or to contact their local Driver License office prior to a visit to ensure the location is open. (Information may change daily, so check often). Office phone numbers are at www.alea.gov (<http://www.alea.gov/>)
- Has begun curbside check-in and screening at ALEA's Driver License offices. Everyone is asked to follow instructions posted outside each location and wait at their vehicles to reduce potential exposure
- Is contacting Driver License customers who scheduled appointments for services and will retain records to fulfill these appointments at a later date

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(<https://www.facebook.com/sharer/sharer.php?u=https://www.alea.gov/news-releases/alea-continues-to-modify-its-driver-license-division-operations-in-response-to-covid-19>)

MORE IN THIS SECTION**News & Alerts**

(<https://www.alea.gov/news-releases>)

Services (/online-services)

Information (/resources)

About ALEA (/about-alea)

Departments & Units (/#divisions)

Contact ALEA (/contact-alea)

- Is closing Reinstatement Offices statewide and providing these services by phone

Following are Reinstatement Office phone numbers:

- Birmingham: 205.252.0426
- Dothan: 334.983.5616
- Huntsville: 256.536.2365
- Jacksonville: 256.782.1322
- Mobile: 251.660.2330, ext. 5
- Montgomery: 334.242.4400
- Opelika: 334.737.1665
- Sheffield: 256.383.9991
- Tuscaloosa: 205.553.3511

The agency's Driver License offices housed in county facilities will be required to close if county commissions shut down county operations. The list at <https://www.alea.gov/dps/driver-license/driver-license-offices> (<https://www.alea.gov/dps/driver-license/driver-license-offices>) is being updated in real time to reflect closings or changes in hours of operation.

Secretary Taylor asks the public to be patient and to work with ALEA's Driver License Division to ensure the health and safety of both the public and ALEA personnel are not compromised. Please continue to check our website for the most up-to-date information as COVID-19 response may require additional changes in the way the agency serves customers.

Fatality

No

Alabama Law Enforcement Agency [f\(https://www.facebook.com/ALEAprotects\)](https://www.facebook.com/ALEAprotects) [t\(https://twitter.com/ALEAprotects\)](https://twitter.com/ALEAprotects) [@https://www.in:](https://www.instagram.com/ALEAprotects)

Citizen Reporting (<https://app.alea.gov/SAR/>)

Contact (</contact-alea/email-us>)

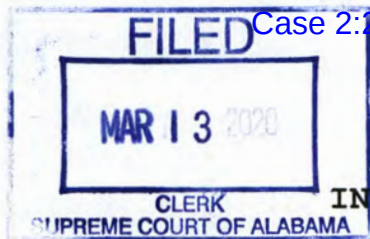
Departments & Units ([#divisions](/#divisions))

Employment (</about-alea/employment-information>)

News & Alerts (</news-releases>)

Online Services (</online-services>)

EXHIBIT 38



IN THE SUPREME COURT OF ALABAMA
IN RE: COVID-19 PANDEMIC EMERGENCY RESPONSE

March 13, 2020

**ADMINISTRATIVE ORDER SUSPENDING ALL IN-PERSON COURT
PROCEEDINGS FOR THE NEXT THIRTY DAYS**

The President of the United States having declared a national emergency and the Governor of Alabama having declared a state of emergency for the State of Alabama amid the Coronavirus Disease 2019 ("COVID-19") pandemic, the Supreme Court of Alabama, pursuant to the authority vested in it under Article VI, §§ 139, 140, and 150, Ala. Const. 1901, hereby declares a state of emergency for the entire Judicial Branch of the State of Alabama.

The local and state courts of the State of Alabama are open and will remain open under all circumstances, subject to the provisions of this order.

Under the constitutional, statutory, and inherent authority of the Supreme Court, we adopt the following provisions. All in-person proceedings in all state and local courts in Alabama, including, but not limited to, proceedings in the circuit court, district court (including cases on the small claims docket), juvenile court, municipal court, probate court, and appellate courts, are suspended beginning Monday, March 16, 2020 through Thursday, April 16, 2020, subject to the exceptions below.

Exceptions to this suspension of in-person court proceedings include, but are not limited to:

- Proceedings necessary to protect constitutional rights of criminal defendants, including bond-related matters and plea agreements for incarcerated individuals.
- Civil and criminal jury trials that are in progress as of March 13, 2020.
- Proceedings related to protection from abuse.
- Proceedings related to emergency child custody and protection orders.
- Department of Human Resources emergency matters related to child protection.

- Proceedings related to petitions for temporary injunctive relief.
- Proceedings related to emergency mental health orders.
- Proceedings related to emergency protection of elderly or vulnerable persons.
- Proceedings directly related to the COVID-19 public health emergency.
- Any emergent proceeding as needed by law enforcement.
- Other exceptions as approved by the Chief Justice.

The presiding judge or the designee of the presiding judge of each judicial circuit is authorized to determine the manner in which in-person court proceedings for the exceptions listed above are to be conducted. Other exceptions to the suspension of in-person court proceedings must be approved by the Chief Justice. Any permitted in-court proceedings shall be limited to attorneys, parties, witnesses, security officers, and other necessary persons, as determined by the trial judge.

Judges are charged with the responsibility of ensuring that core constitutional functions and rights are protected. Additionally, court clerks are charged with ensuring that court functions continue. Nevertheless, all judges and court clerks are urged to limit in-person courtroom contact as much as possible by utilizing available technologies, including electronic filing, teleconferencing, and videoconferencing. Any Alabama state or local rule, criminal or civil, that impedes a judge's or court clerk's ability to utilize available technologies to limit in-person contact is suspended until April 16, 2020.

This order expressly does not prohibit court proceedings by telephone, video, teleconferencing, or other means that do not involve in-person contact. This order does not affect courts' consideration of matters that can be resolved without in-person proceedings.

Any deadlines that are set by or subject to regulation by this Court that are set to expire between March 16, 2020 and April 16, 2020, are hereby extended to April 20, 2020. This Court cannot extend any statutory period of repose or statute of limitations period.

Orders of protection and temporary injunctions that would otherwise expire between March 16, 2020, and April 16, 2020, are hereby extended until April 16, 2020, unless the trial court elects to enter an order to the contrary.

This order is subject to modification, revision, or rescission by the Supreme Court at any time during the time periods stated herein.

Parker, C.J., Bolin, Shaw, Wise, Bryan, Stewart, and Mitchell, JJ., concur.

Witness my hand and seal this the 13th day of March, 2020.


Julia Jordan Weller
Clerk, Supreme Court of Alabama

EXHIBIT 39

Hospitalization Rates and Characteristics of Patients Hospitalized with Laboratory-Confirmed Coronavirus Disease 2019 — COVID-NET, 14 States, March 1–30, 2020

Shikha Garg, MD^{1,*}; Lindsay Kim, MD^{1,*}; Michael Whitaker, MPH^{1,2}; Alissa O'Halloran, MSPH¹; Charisse Cummings, MPH^{1,3}; Rachel Holstein, MPH^{1,4}; Mila Prill, MSPH¹; Shua J. Chai, MD¹; Pam D. Kirley, MPH⁵; Nisha B. Alden, MPH⁶; Breanna Kawasaki, MPH⁶; Kimberly Yousey-Hindes, MPH⁷; Linda Niccolai, PhD⁷; Evan J. Anderson, MD^{8,9,10}; Kyle P. Openo, DrPH^{9,10,11}; Andrew Weigel, MSW¹²; Maya L. Monroe, MPH¹³; Patricia Ryan, MS¹³; Justin Henderson, MPH¹⁴; Sue Kim, MPH¹⁴; Kathy Como-Sabetti, MPH¹⁵; Ruth Lynfield, MD¹⁵; Daniel Sosin, MD¹⁶; Salina Torres, PhD¹⁶; Alison Muse, MPH¹⁷; Nancy M. Bennett, MD¹⁸; Laurie Billing, MPH¹⁹; Melissa Sutton, MD²⁰; Nicole West, MPH²⁰; William Schaffner, MD²¹; H. Keipp Talbot, MD²¹; Clarissa Aquino²²; Andrea George, MPH²²; Alicia Budd, MPH¹; Lynnette Brammer, MPH¹; Gayle Langley, MD¹; Aron J. Hall, DVM¹; Alicia Fry, MD¹

On April 8, 2020, this report was posted as an MMWR Early Release on the MMWR website (<https://www.cdc.gov/mmwr>).

Since SARS-CoV-2, the novel coronavirus that causes coronavirus disease 2019 (COVID-19), was first detected in December 2019 (1), approximately 1.3 million cases have been reported worldwide (2), including approximately 330,000 in the United States (3). To conduct population-based surveillance for laboratory-confirmed COVID-19–associated hospitalizations in the United States, the COVID-19–Associated Hospitalization Surveillance Network (COVID-NET) was created using the existing infrastructure of the Influenza Hospitalization Surveillance Network (FluSurv-NET) (4) and the Respiratory Syncytial Virus Hospitalization Surveillance Network (RSV-NET). This report presents age-stratified COVID-19–associated hospitalization rates for patients admitted during March 1–28, 2020, and clinical data on patients admitted during March 1–30, 2020, the first month of U.S. surveillance. Among 1,482 patients hospitalized with COVID-19, 74.5% were aged ≥50 years, and 54.4% were male. The hospitalization rate among patients identified through COVID-NET during this 4-week period was 4.6 per 100,000 population. Rates were highest (13.8) among adults aged ≥65 years. Among 178 (12%) adult patients with data on underlying conditions as of March 30, 2020, 89.3% had one or more underlying conditions; the most common were hypertension (49.7%), obesity (48.3%), chronic lung disease (34.6%), diabetes mellitus (28.3%), and cardiovascular disease (27.8%). These findings suggest that older adults have elevated rates of COVID-19–associated hospitalization and the majority of persons hospitalized with COVID-19 have underlying medical conditions. These findings underscore the importance of preventive measures (e.g., social distancing, respiratory hygiene, and wearing face coverings in public settings where social distancing measures are difficult to maintain)[†] to protect older adults and persons with underlying medical conditions,

as well as the general public. In addition, older adults and persons with serious underlying medical conditions should avoid contact with persons who are ill and immediately contact their health care provider(s) if they have symptoms consistent with COVID-19 (<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>) (5). Ongoing monitoring of hospitalization rates, clinical characteristics, and outcomes of hospitalized patients will be important to better understand the evolving epidemiology of COVID-19 in the United States and the clinical spectrum of disease, and to help guide planning and prioritization of health care system resources.

COVID-NET conducts population-based surveillance for laboratory-confirmed COVID-19–associated hospitalizations among persons of all ages in 99 counties in 14 states (California, Colorado, Connecticut, Georgia, Iowa, Maryland, Michigan, Minnesota, New Mexico, New York, Ohio, Oregon, Tennessee, and Utah), distributed across all 10 U.S. Department of Health and Human Services regions.[§] The catchment area represents approximately 10% of the U.S. population. Patients must be residents of a designated COVID-NET catchment area and hospitalized within 14 days of a positive SARS-CoV-2 test to meet the surveillance case definition. Testing is requested at the discretion of treating health care providers. Laboratory-confirmed SARS-CoV-2 is defined as a positive result by any test that has received Emergency Use Authorization for SARS-CoV-2 testing.[¶] COVID-NET surveillance officers in each state identify cases through active review of notifiable disease and laboratory databases and hospital admission and infection control practitioner logs. Weekly age-stratified hospitalization rates are estimated using the number of catchment area residents hospitalized with laboratory-confirmed COVID-19 as the numerator and National Center for Health Statistics vintage 2018 bridged-race postcensal population estimates for the denominator.^{**} As of April 3, 2020, COVID-NET

* These authors contributed equally.

[†] <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/diy-cloth-face-coverings.html>.

[§] <https://www.hhs.gov/about/agencies/iea/regional-offices/index.html>.

[¶] <https://www.fda.gov/medical-devices/emergency-situations-medical-devices/emergency-use-authorizations>.

^{**} https://www.cdc.gov/nchs/nvss/bridged_race.htm.

hospitalization rates are being published each week at https://gis.cdc.gov/grasp/covidnet/COVID19_3.html. For each case, trained surveillance officers conduct medical chart abstractions using a standard case report form to collect data on patient characteristics, underlying medical conditions, clinical course, and outcomes. Chart reviews are finalized once patients have a discharge disposition. COVID-NET surveillance was initiated on March 23, 2020, with retrospective case identification of patients admitted during March 1–22, 2020, and prospective case identification during March 23–30, 2020. Clinical data on underlying conditions and symptoms at admission are presented through March 30; hospitalization rates are updated weekly and, therefore, are presented through March 28 (epidemiologic week 13).

The COVID-19–associated hospitalization rate among patients identified through COVID-NET for the 4-week period ending March 28, 2020, was 4.6 per 100,000 population (Figure 1). Hospitalization rates increased with age, with a rate of 0.3 in persons aged 0–4 years, 0.1 in those aged 5–17 years, 2.5 in those aged 18–49 years, 7.4 in those aged 50–64 years, and 13.8 in those aged ≥65 years. Rates were highest among persons aged ≥65 years, ranging from 12.2 in those aged 65–74 years to 17.2 in those aged ≥85 years. More than half (805; 54.4%) of hospitalizations occurred among men; COVID-19–associated hospitalization rates were higher among males than among females (5.1 versus 4.1 per 100,000 population). Among the 1,482 laboratory-confirmed COVID-19–associated hospitalizations reported through COVID-NET, six (0.4%) each were patients aged 0–4 years and 5–17 years, 366 (24.7%) were aged 18–49 years, 461 (31.1%) were aged 50–64 years, and 643 (43.4%) were aged ≥65 years. Among patients with race/ethnicity data (580), 261 (45.0%) were non-Hispanic white (white), 192 (33.1%) were non-Hispanic black (black), 47 (8.1%) were Hispanic, 32 (5.5%) were Asian, two (0.3%) were American Indian/Alaskan Native, and 46 (7.9%) were of other or unknown race. Rates varied widely by COVID-NET surveillance site (Figure 2).

During March 1–30, underlying medical conditions and symptoms at admission were reported through COVID-NET for approximately 180 (12.1%) hospitalized adults (Table); 89.3% had one or more underlying conditions. The most commonly reported were hypertension (49.7%), obesity (48.3%), chronic lung disease (34.6%), diabetes mellitus (28.3%), and cardiovascular disease (27.8%). Among patients aged 18–49 years, obesity was the most prevalent underlying condition, followed by chronic lung disease (primarily asthma) and diabetes mellitus. Among patients aged 50–64 years, obesity was most prevalent, followed by hypertension and diabetes mellitus; and among those aged ≥65 years, hypertension was most prevalent, followed by cardiovascular disease and diabetes

mellitus. Among 33 females aged 15–49 years hospitalized with COVID-19, three (9.1%) were pregnant. Among 167 patients with available data, the median interval from symptom onset to admission was 7 days (interquartile range [IQR] = 3–9 days). The most common signs and symptoms at admission included cough (86.1%), fever or chills (85.0%), and shortness of breath (80.0%). Gastrointestinal symptoms were also common; 26.7% had diarrhea, and 24.4% had nausea or vomiting.

Discussion

During March 1–28, 2020, the overall laboratory-confirmed COVID-19–associated hospitalization rate was 4.6 per 100,000 population; rates increased with age, with the highest rates among adults aged ≥65 years. Approximately 90% of hospitalized patients identified through COVID-NET had one or more underlying conditions, the most common being obesity, hypertension, chronic lung disease, diabetes mellitus, and cardiovascular disease.

Using the existing infrastructure of two respiratory virus surveillance platforms, COVID-NET was implemented to produce robust, weekly, age-stratified hospitalization rates using standardized data collection methods. These data are being used, along with data from other surveillance platforms (<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview.html>), to monitor COVID-19 disease activity and severity in the United States. During the first month of surveillance, COVID-NET hospitalization rates ranged from 0.1 per 100,000 population in persons aged 5–17 years to 17.2 per 100,000 population in adults aged ≥85 years, whereas cumulative influenza hospitalization rates during the first 4 weeks of each influenza season (epidemiologic weeks 40–43) over the past 5 seasons have ranged from 0.1 in persons aged 5–17 years to 2.2–5.4 in adults aged ≥85 years (6). COVID-NET rates during this first 4-week period of surveillance are preliminary and should be interpreted with caution; given the rapidly evolving nature of the COVID-19 pandemic, rates are expected to increase as additional cases are identified and as SARS-CoV-2 testing capacity in the United States increases.

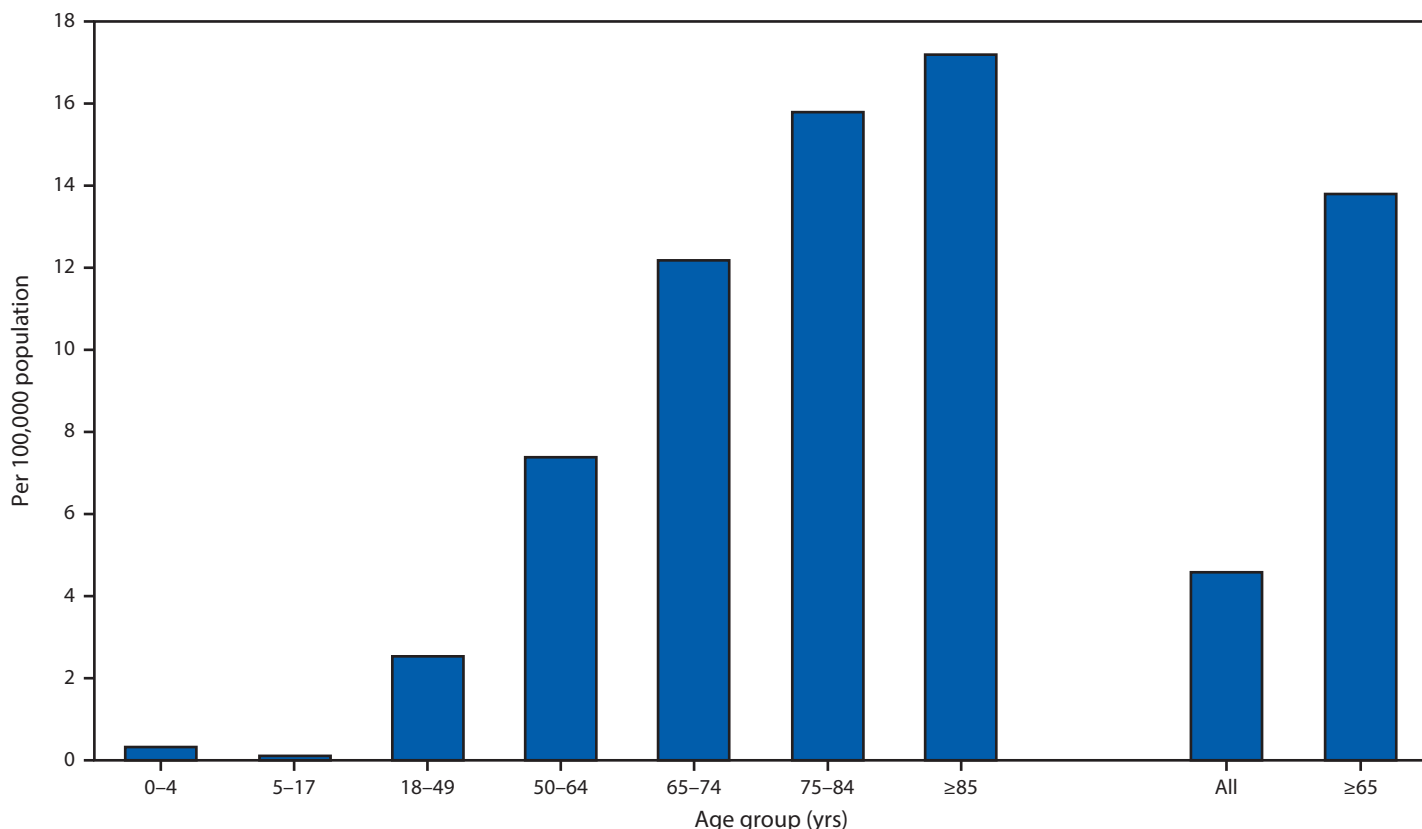
In the COVID-NET catchment population, approximately 49% of residents are male and 51% of residents are female, whereas 54% of COVID-19–associated hospitalizations occurred in males and 46% occurred in females. These data suggest that males may be disproportionately affected by COVID-19 compared with females. Similarly, in the COVID-NET catchment population, approximately 59% of residents are white, 18% are black, and 14% are Hispanic; however, among 580 hospitalized COVID-19 patients with race/ethnicity data, approximately 45% were white, 33% were black, and 8% were Hispanic, suggesting that black populations might be disproportionately affected by COVID-19. These findings, including the potential impact of both sex and

race on COVID-19-associated hospitalization rates, need to be confirmed with additional data.

Most of the hospitalized patients had underlying conditions, some of which are recognized to be associated with severe COVID-19 disease, including chronic lung disease, cardiovascular disease, diabetes mellitus (5). COVID-NET does not collect data on nonhospitalized patients; thus, it was not possible to compare the prevalence of underlying conditions in hospitalized versus nonhospitalized patients. Many of the documented underlying conditions among hospitalized COVID-19 patients are highly prevalent in the United States. According to data from the National Health and Nutrition Examination Survey, hypertension prevalence among U.S. adults is 29% overall, ranging from 7.5%–63% across age groups (7), and age-adjusted obesity prevalence is 42% (range

across age groups = 40%–43%) (8). Among hospitalized COVID-19 patients, hypertension prevalence was 50% (range across age groups = 18%–73%), and obesity prevalence was 48% (range across age groups = 41%–59%). In addition, the prevalences of several underlying conditions identified through COVID-NET were similar to those for hospitalized influenza patients identified through FluSurv-NET during influenza seasons 2014–15 through 2018–19: 41%–51% of patients had cardiovascular disease (excluding hypertension), 39%–45% had chronic metabolic disease, 33%–40% had obesity, and 29%–31% had chronic lung disease (6). Data on hypertension are not collected by FluSurv-NET. Among women aged 15–49 years hospitalized with COVID-19 and identified through COVID-NET, 9% were pregnant, which is similar to an estimated 9.9% of the general population

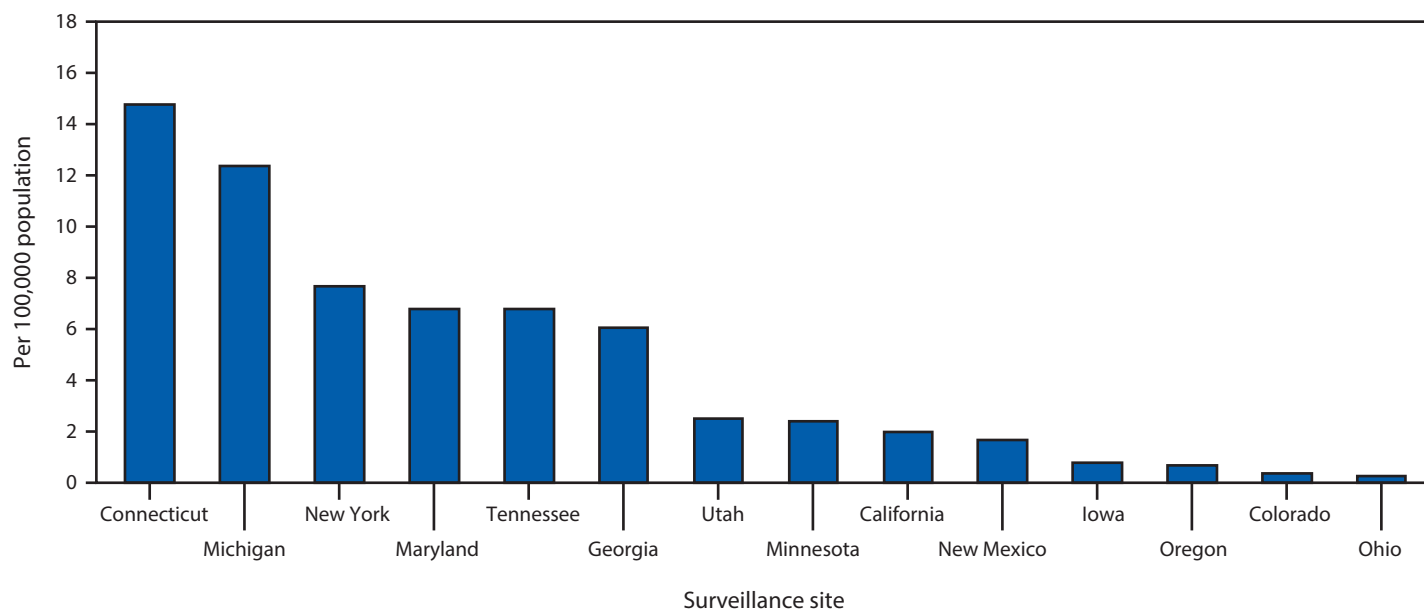
FIGURE 1. Laboratory-confirmed coronavirus disease 2019 (COVID-19)-associated hospitalization rates,* by age group — COVID-NET, 14 states,† March 1–28, 2020



Abbreviation: COVID-NET = Coronavirus Disease 2019–Associated Hospitalization Surveillance Network.

* Number of patients hospitalized with COVID-19 per 100,000 population.

† Counties included in COVID-NET surveillance: California (Alameda, Contra Costa, and San Francisco counties); Colorado (Adams, Arapahoe, Denver, Douglas, and Jefferson counties); Connecticut (New Haven and Middlesex counties); Georgia (Clayton, Cobb, DeKalb, Douglas, Fulton, Gwinnett, Newton, and Rockdale counties); Iowa (one county represented); Maryland (Allegany, Anne Arundel, Baltimore, Baltimore City, Calvert, Caroline, Carroll, Cecil, Charles, Dorchester, Frederick, Garrett, Harford, Howard, Kent, Montgomery, Prince George's, Queen Anne's, St. Mary's, Somerset, Talbot, Washington, Wicomico, and Worcester counties); Michigan (Clinton, Eaton, Genesee, Ingham, and Washtenaw counties); Minnesota (Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties); New Mexico (Bernalillo, Chaves, Dona Ana, Grant, Luna, San Juan, and Santa Fe counties); New York (Albany, Columbia, Genesee, Greene, Livingston, Monroe, Montgomery, Ontario, Orleans, Rensselaer, Saratoga, Schenectady, Schoharie, Wayne, and Yates counties); Ohio (Delaware, Fairfield, Franklin, Hocking, Licking, Madison, Morrow, Perry, Pickaway and Union counties); Oregon (Clackamas, Multnomah, and Washington counties); Tennessee (Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson counties); and Utah (Salt Lake County).

FIGURE 2. Laboratory-confirmed coronavirus disease 2019 (COVID-19)–associated hospitalization rates,* by surveillance site†— COVID-NET, 14 states, March 1–28, 2020

Abbreviation: COVID-NET = Coronavirus Disease 2019–Associated Hospitalization Surveillance Network.

* Number of patients hospitalized with COVID-19 per 100,000 population.

† Counties included in COVID-NET surveillance: California (Alameda, Contra Costa, and San Francisco counties); Colorado (Adams, Arapahoe, Denver, Douglas, and Jefferson counties); Connecticut (New Haven and Middlesex counties); Georgia (Clayton, Cobb, DeKalb, Douglas, Fulton, Gwinnett, Newton, and Rockdale counties); Iowa (one county represented); Maryland (Allegany, Anne Arundel, Baltimore, Baltimore City, Calvert, Caroline, Carroll, Cecil, Charles, Dorchester, Frederick, Garrett, Harford, Howard, Kent, Montgomery, Prince George's, Queen Anne's, St. Mary's, Somerset, Talbot, Washington, Wicomico, and Worcester counties); Michigan (Clinton, Eaton, Genesee, Ingham, and Washtenaw counties); Minnesota (Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties); New Mexico (Bernalillo, Chaves, Dona Ana, Grant, Luna, San Juan, and Santa Fe counties); New York (Albany, Columbia, Genesee, Greene, Livingston, Monroe, Montgomery, Ontario, Orleans, Rensselaer, Saratoga, Schenectady, Schoharie, Wayne, and Yates counties); Ohio (Delaware, Fairfield, Franklin, Hocking, Licking, Madison, Morrow, Perry, Pickaway and Union counties); Oregon (Clackamas, Multnomah, and Washington counties); Tennessee (Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson counties); and Utah (Salt Lake County).

of women aged 15–44 years who are pregnant at any given time based on 2010 data.^{††} Similar to other reports from the United States (9) and China (1), these findings indicate that a high proportion of U.S. patients hospitalized with COVID-19 are older and have underlying medical conditions.

The findings in this report are subject to at least three limitations. First, hospitalization rates by age and COVID-NET site are preliminary and might change as additional cases are identified from this surveillance period. Second, whereas minimum case data to produce weekly age-stratified hospitalization rates are usually available within 7 days of case identification, availability of detailed clinical data are delayed because of the need for medical chart abstractions. As of March 30, chart abstractions had been conducted for approximately 200 COVID-19 patients; the frequency and distribution of underlying conditions during this time might change as additional data become available. Clinical course and outcomes will be presented once the number of cases with complete medical chart abstractions are sufficient; many patients are still hospitalized at the time of this report. Finally, testing for SARS-CoV-2 among patients

identified through COVID-NET is performed at the discretion of treating health care providers, and testing practices and capabilities might vary widely across providers and facilities. As a result, underascertainment of cases in COVID-NET is likely. Additional data on testing practices related to SARS-CoV-2 will be collected in the future to account for underascertainment using described methods (10).

Early data from COVID-NET suggest that COVID-19–associated hospitalizations in the United States are highest among older adults, and nearly 90% of persons hospitalized have one or more underlying medical conditions. These findings underscore the importance of preventive measures (e.g., social distancing, respiratory hygiene, and wearing face coverings in public settings where social distancing measures are difficult to maintain) to protect older adults and persons with underlying medical conditions. Ongoing monitoring of hospitalization rates, clinical characteristics, and outcomes of hospitalized patients will be important to better understand the evolving epidemiology of COVID-19 in the United States and the clinical spectrum of disease, and to help guide planning and prioritization of health care system resources.

^{††} https://www.cdc.gov/nchs/data/hestat/pregnancy/2010_pregnancy_rates.htm.

Morbidity and Mortality Weekly Report

TABLE. Underlying conditions and symptoms among adults aged ≥18 years with coronavirus disease 2019 (COVID-19)–associated hospitalizations — COVID-NET, 14 states,* March 1–30, 2020†

Underlying condition	Age group (yrs), no./total no. (%)			
	Overall	18–49	50–64	≥65 years
Any underlying condition	159/178 (89.3)	41/48 (85.4)	51/59 (86.4)	67/71 (94.4)
Hypertension	79/159 (49.7)	7/40 (17.5)	27/57 (47.4)	45/62 (72.6)
Obesity [§]	73/151 (48.3)	23/39 (59.0)	25/51 (49.0)	25/61 (41.0)
Chronic metabolic disease [¶]	60/166 (36.1)	10/46 (21.7)	21/56 (37.5)	29/64 (45.3)
Diabetes mellitus	47/166 (28.3)	9/46 (19.6)	18/56 (32.1)	20/64 (31.3)
Chronic lung disease	55/159 (34.6)	16/44 (36.4)	15/53 (28.3)	24/62 (38.7)
Asthma	27/159 (17.0)	12/44 (27.3)	7/53 (13.2)	8/62 (12.9)
Chronic obstructive pulmonary disease	17/159 (10.7)	0/44 (0.0)	3/53 (5.7)	14/62 (22.6)
Cardiovascular disease**	45/162 (27.8)	2/43 (4.7)	11/56 (19.6)	32/63 (50.8)
Coronary artery disease	23/162 (14.2)	0/43 (0.0)	7/56 (12.5)	16/63 (25.4)
Congestive heart failure	11/162 (6.8)	2/43 (4.7)	3/56 (5.4)	6/63 (9.5)
Neurologic disease	22/157 (14.0)	4/42 (9.5)	4/55 (7.3)	14/60 (23.3)
Renal disease	20/153 (13.1)	3/41 (7.3)	2/53 (3.8)	15/59 (25.4)
Immunosuppressive condition	15/156 (9.6)	5/43 (11.6)	4/54 (7.4)	6/59 (10.2)
Gastrointestinal/Liver disease	10/152 (6.6)	4/42 (9.5)	0/54 (0.0)	6/56 (10.7)
Blood disorder	9/156 (5.8)	1/43 (2.3)	1/55 (1.8)	7/58 (12.1)
Rheumatologic/Autoimmune disease	3/154 (1.9)	1/42 (2.4)	0/54 (0.0)	2/58 (3.4)
Pregnancy ^{††}	3/33 (9.1)	3/33 (9.1)	N/A	N/A
Symptom^{§§}				
Cough	155/180 (86.1)	43/47 (91.5)	54/60 (90.0)	58/73 (79.5)
Fever/Chills	153/180 (85.0)	38/47 (80.9)	53/60 (88.3)	62/73 (84.9)
Shortness of breath	144/180 (80.0)	40/47 (85.1)	50/60 (83.3)	54/73 (74.0)
Myalgia	62/180 (34.4)	20/47 (42.6)	23/60 (38.3)	19/73 (26.0)
Diarrhea	48/180 (26.7)	10/47 (21.3)	17/60 (28.3)	21/73 (28.8)
Nausea/Vomiting	44/180 (24.4)	12/47 (25.5)	17/60 (28.3)	15/73 (20.5)
Sore throat	32/180 (17.8)	8/47 (17.0)	13/60 (21.7)	11/73 (15.1)
Headache	29/180 (16.1)	10/47 (21.3)	12/60 (20.0)	7/73 (9.6)
Nasal congestion/Rhinorrhea	29/180 (16.1)	8/47 (17.0)	13/60 (21.7)	8/73 (11.0)
Chest pain	27/180 (15.0)	9/47 (19.1)	13/60 (21.7)	5/73 (6.8)
Abdominal pain	15/180 (8.3)	6/47 (12.8)	6/60 (10.0)	3/73 (4.1)
Wheezing	12/180 (6.7)	3/47 (6.4)	2/60 (3.3)	7/73 (9.6)
Altered mental status/Confusion	11/180 (6.1)	3/47 (6.4)	2/60 (3.3)	6/73 (8.2)

Abbreviations: COVID-NET = Coronavirus Disease 2019–Associated Hospitalization Surveillance Network; N/A = not applicable.

* Counties included in COVID-NET surveillance: California (Alameda, Contra Costa, and San Francisco counties); Colorado (Adams, Arapahoe, Denver, Douglas, and Jefferson counties); Connecticut (New Haven and Middlesex counties); Georgia (Clayton, Cobb, DeKalb, Douglas, Fulton, Gwinnett, Newton, and Rockdale counties); Iowa (one county represented); Maryland (Allegany, Anne Arundel, Baltimore, Baltimore City, Calvert, Caroline, Carroll, Cecil, Charles, Dorchester, Frederick, Garrett, Harford, Howard, Kent, Montgomery, Prince George's, Queen Anne's, St. Mary's, Somerset, Talbot, Washington, Wicomico, and Worcester counties); Michigan (Clinton, Eaton, Genesee, Ingham, and Washtenaw counties); Minnesota (Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties); New Mexico (Bernalillo, Chaves, Dona Ana, Grant, Luna, San Juan, and Santa Fe counties); New York (Albany, Columbia, Genesee, Greene, Livingston, Monroe, Montgomery, Ontario, Orleans, Rensselaer, Saratoga, Schenectady, Schoharie, Wayne, and Yates counties); Ohio (Delaware, Fairfield, Franklin, Hocking, Licking, Madison, Morrow, Perry, Pickaway and Union counties); Oregon (Clackamas, Multnomah, and Washington counties); Tennessee (Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson counties); and Utah (Salt Lake County).

† COVID-NET included data for one child aged 5–17 years with underlying medical conditions and symptoms at admission; data for this child are not included in this table. This child was reported to have chronic lung disease (asthma). Symptoms included fever, cough, gastrointestinal symptoms, shortness of breath, chest pain, and a sore throat on admission.

§ Obesity is defined as calculated body mass index (BMI) ≥30 kg/m², and if BMI is missing, by International Classification of Diseases discharge diagnosis codes. Among 73 patients with obesity, 51 (69.9%) had obesity defined as BMI 30–<40 kg/m², and 22 (30.1%) had severe obesity defined as BMI ≥40 kg/m².

¶ Among the 60 patients with chronic metabolic disease, 45 had diabetes mellitus only, 13 had thyroid dysfunction only, and two had diabetes mellitus and thyroid dysfunction.

** Cardiovascular disease excludes hypertension.

†† Restricted to women aged 15–49 years.

§§ Symptoms were collected through review of admission history and physical exam notes in the medical record and might be determined by subjective or objective findings. In addition to the symptoms in the table, the following less commonly reported symptoms were also noted for adults with information on symptoms (180): hemoptysis/bloody sputum (2.2%), rash (1.1%), conjunctivitis (0.6%), and seizure (0.6%).

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Olson, Connecticut Emerging Infections Program and Yale School of Public Health; Emily Fawcett, Katelyn Lengacher, Jeremiah Williams, Foundation for Atlanta Veterans Education and Research, Atlanta Veterans Affairs Medical Center, and Emory University; Brian Bachaus, Timothy Blood, David Blythe, Alicia Brooks, Judie Hyun, Elisabeth Vaeth, Cindy Zerlaut, Maryland Department of Health;

Summary**What is already known about this topic?**

Population-based rates of laboratory-confirmed coronavirus disease 2019 (COVID-19)-associated hospitalizations are lacking in the United States.

What is added by this report?

COVID-NET was implemented to produce robust, weekly, age-stratified COVID-19-associated hospitalization rates. Hospitalization rates increase with age and are highest among older adults; the majority of hospitalized patients have underlying conditions.

What are the implications for public health practice?

Strategies to prevent COVID-19, including social distancing, respiratory hygiene, and face coverings in public settings where social distancing measures are difficult to maintain, are particularly important to protect older adults and those with underlying conditions. Ongoing monitoring of hospitalization rates is critical to understanding the evolving epidemiology of COVID-19 in the United States and to guide planning and prioritization of health care resources.

Jim Collins, Kimberly Fox, Sam Hawkins, Shannon Johnson, Libby Reeg, Michigan Department of Health and Human Services; Erica Bye, Richard Danila, Kristen Ehresmann, Melissa McMahon, Kirk Smith, Maureen Sullivan, Minnesota Department of Health; Cory Cline, New Mexico Department of Health; Kathy Angeles, Lisa Butler, Emily Hancock, Sarah Khanlian, Meaghan Novi, University of New Mexico Emerging Infections Program; Grant Barney, Suzanne McGuire, Nancy Spina, New York State Department of Health; Sophrena Bushey, Christina Felsen, Maria Gaitan, RaeAnne Kurtz, Christine Long, Marissa Tracy, University of Rochester School of Medicine and Dentistry; Nicholas Fisher, Maya Scullin, Jessica Shiltz, Ohio Department of Health; Kathy Billings, Katie Dyer, Anise Elie, Karen Leib, Tiffanie Markus, Terri McMinn, Danielle Ndi, Vanderbilt University Medical Center; Ryan Chatelain, Mary Hill, Jake Ortega, Andrea Price, Ilene Risk, Melanie Spencer, Ashley Swain, Salt Lake County Health Department; Keegan McCaffrey, Utah Department of Health; Mimi Huynh and Monica Schroeder, Council of State and Territorial Epidemiologists; Sharad Aggarwal, Lanson Broecker, Aaron Curns, Rebecca M. Dahl, Sascha R. Ellington, Alexandra Ganim, Rainy Henry, Sang Kang, Sonja Nti-Berko, Robert Pinner, Scott Santibanez, Alvin Shultz, Sheng-Te Tsai, Henry Walke, Venkata Akesh R. Vundi, CDC.

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EXHIBIT 40

IN THE SUPREME COURT OF ALABAMA
IN RE: COVID-19 PANDEMIC EMERGENCY RESPONSE
April 30, 2020

ADMINISTRATIVE ORDER NO. 6:
EXTENDING ORDERS AND DEADLINES CONCERNING THE SUSPENSION OF
IN-PERSON PROCEEDINGS THROUGH MAY 15, 2020

On April 28, 2020, Governor Kay Ivey announced the issuance of the "Safer at Home Order" effective April 30, 2020, to remain in effect through 5:00 p.m. on May 15, 2020.

This Court hereby extends through May 15, 2020, the state of emergency for the Judicial Branch of the State of Alabama. All administrative orders issued by this Court and the Chief Justice in relation to the COVID-19 pandemic are hereby extended and shall remain in effect through May 15, 2020, except as set forth below.

Effective May 1, 2020, all officials in the appellate courts, circuit courts, district courts, juvenile courts, municipal courts, and probate courts are authorized to prepare their offices and courtrooms for in-person court proceedings and shall have the authority to direct non-vulnerable employees to appear at work in person. Operations of the official's office must comply fully with the recommendations and requirements of the Safer at Home Order concerning protections for employees and other individuals.

To limit in-person contact, trial courts should continue to conduct hearings by teleconference and videoconference. The clerks of court shall also continue to use technology and other means to limit in-person contact. Jury trials shall remain suspended, and no juror summons shall be issued prior to July 1, 2020.

All deadlines in the Court's and the Chief Justice's administrative orders that are set to expire on April 30, 2020, are hereby extended through May 15, 2020.

Parker, C.J., and Bolin, Shaw, Wise, Bryan, Sellers, Mendheim, Stewart, and Mitchell, JJ., concur.

Witness my hand and seal this the 30th day of April, 2020.



Julia Jordan Weller
Clerk of Court
Supreme Court of Alabama

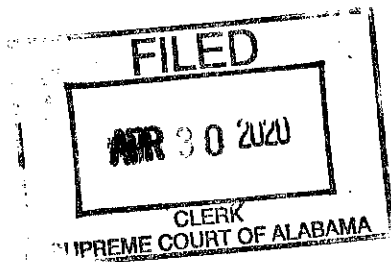


EXHIBIT 41



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EXHIBIT 42

abc 33/40 NEWS

WATCH

59°

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83°

Search Site

by Ainsley Allison
Tuesday, November 8th 2016

AA



Secretary of State's office shuts down curbside voting in Hale County (abc3340.com)



HALE COUNTY, Ala. — A polling place in Hale County was offering curbside voting Tuesday morning, until the Secretary of State's office found out about it, ABC 33/40 has learned.

Secretary of State John Merrill told ABC 33/40 said he first heard of the voting irregularities via text message. He called his office to follow up and was told they were already investigating.

Merrill said a local judge admitted this was a practice that had been offered before in Hale County. Poll workers assisted handicapped voters by bringing ballots to voters in their cars. Merrill's office informed the judge the practice was illegal and ordered poll workers cease and desist immediately. They complied. Merrill said no polling place was shut down.



some states, but Alabama is not one of them. He said he
over the summer.

59° 77° 83°

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MORE TO EXPLORE

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EXHIBIT 43



Report to Congressional Requesters

October 2017

VOTERS WITH DISABILITIES

Observations on Polling Place Accessibility and Related Federal Guidance

This report was revised on December 4, 2017 to correct page 41, Figure 10, the label of the measure we used to determine whether or not the height of the voting machine or voting surface was consistent with the 2010 ADA Standards for Accessible design criteria.

The corrected label is "44 inches Maximum height to voting machine or voting surface."

GAO Highlights

Highlights of [GAO-18-4](#), a report to congressional requesters

Why GAO Did This Study

Federal law generally requires all polling places for federal elections to be accessible to all voters, and each polling place to have a system for casting ballots that is accessible for people with disabilities. GAO's work during the 2000 and 2008 general elections showed mixed results on polling place accessibility. GAO was asked to examine voting access for people with disabilities during the 2016 general election.

This report examines in-person voting before and on Election Day 2016. GAO examined (1) the extent to which selected polling places had features that might impede voting access; (2) actions states took to facilitate voting access; and (3) guidance DOJ provided on the extent to which federal accessibility requirements apply to early in-person voting. GAO examined features at a nongeneralizable sample of 178 polling places, identified by selecting 21 counties in 12 states and the District of Columbia (DC). Counties were selected for variation in population size, geographic location, and type of election administration. GAO did not assess legal compliance with federal or state laws. GAO also surveyed state election officials in 50 states and DC (with 98 percent responding); reviewed federal laws and guidance; and interviewed local, state, and federal officials.

What GAO Recommends

GAO recommends that DOJ study the implementation of federal accessibility requirements in the context of early in-person voting and, as necessary, make changes to existing guidance. DOJ generally agreed with GAO's recommendation.

View [GAO-18-4](#). For more information, contact Barbara Bovbjerg at (202) 512-7215 or BovbjergB@gao.gov or Rebecca Gambler at (202) 512-8777 or GamblerR@gao.gov.

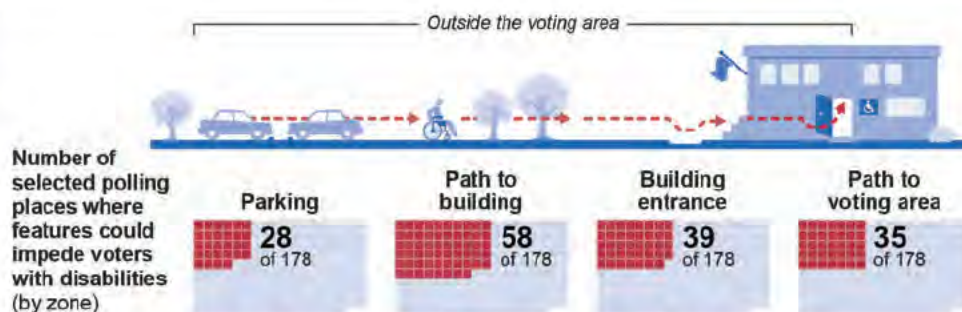
October 2017

VOTERS WITH DISABILITIES

Observations on Polling Place Accessibility and Related Federal Guidance

What GAO Found

GAO examined a nongeneralizable sample of 178 polling places during early in-person voting and on Election Day 2016. At these polling places, GAO examined a number of features outside and inside the voting area. Outside the voting area, GAO was able to examine features at all 178 polling places and found that 60 percent (107) had one or more potential impediments. The most common were steep ramps located outside buildings, lack of signs indicating accessible paths, and poor parking or path surfaces (see figure).



Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

Of the 178 polling places, GAO was able to fully examine voting stations inside the voting area at 137. Of these 137 polling places, 65 percent (89) had a voting station with an accessible voting system that could impede the casting of a private and independent vote. For example, some voting stations were not set up to accommodate people using wheelchairs, which might have required someone else to help them vote. GAO was not able to fully examine voting stations at 41 polling places due to voting area restrictions.

Most states that completed GAO's survey reported taking actions during the 2016 general election to facilitate voting access for voters with disabilities, including having accessibility requirements, providing election worker training, and conducting oversight. For example, 44 states reported having accessibility standards for polling places, and 48 states reported conducting at least one oversight activity, such as analyzing accessibility complaints.

The Department of Justice's (DOJ) guidance does not clearly specify the extent to which certain federal accessibility requirements are applicable to early in-person voting, an increasingly common form of voting at a designated location before Election Day. In this context, GAO found some variation in the extent to which accessible voting systems are provided for early in-person voting. GAO found one county without accessible voting systems at five of its early in-person voting locations. Also, officials from four states said that these systems are not required by their state laws for in-person voting before Election Day. Given that voting has evolved since federal accessibility requirements were enacted, studying the implementation of these requirements in the context of early in-person voting could position DOJ to determine the extent to which any changes to its guidance are necessary.

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Abbreviations

ADA	Americans with Disabilities Act of 1990
DOJ	Department of Justice
DRE	direct recording electronic
EAC	Election Assistance Commission
HAVA	Help America Vote Act of 2002
MCD	minor civil division
PAVA	Protection and Advocacy for Voting Access

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U.S. GOVERNMENT ACCOUNTABILITY OFFICE

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October 3, 2017

The Honorable Charles Schumer
Minority Leader
United States Senate

The Honorable Roy Blunt
Chairman
Subcommittee on the Departments of Labor, Health
and Human Services, Education, and Related Agencies
Committee on Appropriations
United States Senate

The Honorable Robert P. Casey
Ranking Member
Subcommittee on Children and Families
Committee on Health, Education, Labor, and Pensions
United States Senate

Voting is fundamental to America's representative democracy, and federal law generally requires that polling place locations and voting methods be accessible to all eligible voters for federal elections. In particular, the Americans with Disabilities Act of 1990 (ADA) includes requirements to ensure that people with disabilities have access to public services, programs, or activities, such as voting.¹ Although the ADA does not specifically address the accessibility of polling places, Title II of the ADA and its implementing regulation—which prohibit discrimination on the basis of disability—require public entities to select and use facilities for their services, programs, or activities that will not exclude people with disabilities and to provide appropriate auxiliary aids and services, where necessary, to provide people with disabilities an equal opportunity to participate in the service, program, or activity. Additionally, the Help America Vote Act of 2002 (HAVA) required that, by January 1, 2006, each polling place have at least one voting system that is accessible by people with disabilities in federal elections.² According to HAVA, an accessible

¹Pub. L. No. 101-336, 104 Stat. 327 (codified at 42 U.S.C. §§ 12101-12213).

²Pub. L. No. 107-252, 116 Stat. 1666 (codified at 52 U.S.C. §§ 20901-21145); see 52 U.S.C. § 21081(a)(3).

voting system must provide people with disabilities the same opportunity to vote privately and independently that is afforded to other voters.³

HAVA also established the Election Assistance Commission (EAC) to serve, among other purposes, as a clearinghouse and information resource for the election officials who administer federal elections.⁴ The Department of Justice's (DOJ) Civil Rights Division is responsible for enforcing federal voting laws.

We have previously reported on issues related to the accessibility of polling places for people with disabilities. Specifically, our work on voting accessibility during the 2000 and 2008 general elections showed that although improvements to polling place accessibility had been made between the two elections, work remained to ensure that voting was fully accessible to people with disabilities.⁵ Since our previous work that described the accessibility of polling places used on Election Day, early in-person voting—voting in person at a polling place or other voting

³52 U.S.C. § 21081(a)(3)(A). This requirement can be satisfied through the use of at least one direct recording electronic (DRE) voting system or other voting system equipped for individuals with disabilities at each polling place. 52 U.S.C. § 21081(a)(3)(B). A direct recording electronic voting system allows voters to mark ballots electronically using a touch screen or push-button interface, and their ballot selections are stored in the machine's memory.

⁴See 52 U.S.C. §§ 20921-30.

⁵GAO, *Voters with Disabilities: Access to Polling Places and Alternative Voting Methods*, [GAO-02-107](#) (Washington, D.C.: Oct. 15, 2001); and *Voters with Disabilities: Additional Monitoring of Polling Places Could Further Improve Accessibility*, [GAO-09-941](#) (Washington, D.C.: Sept. 30, 2009).

location before Election Day without providing an excuse—has expanded across the country,⁶ and is now used in almost three quarters of states.⁷

You asked us to examine voting access for people with disabilities at polling places used during early in-person voting and on Election Day (November 8) 2016. This report (1) examines the extent to which polling places in selected locations used during the 2016 general election had features that might impede access for voters with disabilities; (2) describes the actions states took to facilitate voting access during the 2016 general election; and (3) examines the guidance that DOJ has provided on the extent to which federal accessibility requirements apply, if at all, to early in-person voting.

To determine the extent to which selected polling places had features that might impede access for voters with disabilities, we examined a nongeneralizable sample of 178 polling places. These included 45 early in-person voting polling places in 11 counties in 6 states and the District of Columbia, and 133 Election Day polling places in 21 counties in 12 states and the District of Columbia. The counties we visited during early in-person voting were a subset of the counties visited on Election Day. However, we did not examine the same polling places on Election Day that we examined during early in-person voting. In each polling place, we made observations, took measurements, and interviewed chief polling place officials.

To identify polling places to examine, we first selected 21 counties from among the 84 randomly selected counties that were part of our study on the accessibility of polling places for voters with disabilities during the

⁶We use this definition of early in-person voting throughout the report. Specifically, to examine the accessibility of polling places during the 2016 general election, our definition also includes the completion of an absentee or mail ballot in-person at a polling place or other voting location. Absentee voting generally is a method of voting offered in some states that enables citizens to cast a vote by mail and may require voters to provide an excuse explaining why they cannot vote on Election Day; although some states have "no excuse" absentee voting in which any validly registered voter may request and cast an absentee ballot.

⁷National Conference of State Legislatures, Election Administration website, accessed July 6, 2017, <http://www.ncsl.org/research/elections-and-campaigns/absentee-and-early-voting.aspx>.

2008 general election.⁸ We selected these 21 counties based on: (1) variation in county population size (ranging from about 80,000 to over 10 million people), with most counties being larger in population size; (2) variation in type of election administration (that is, we selected some counties in which the county administers elections, and we selected other counties in which elections are administered by other government entities, such as cities, townships, or other local government entities); and (3) variation in geographic location.

Within these counties, we selected up to seven polling places based on the relative proximity of polling places to one another and variation in types of facilities used as polling places, such as schools, houses of worship, or city halls. Because we selected a nongeneralizable sample of polling places for the 2016 general election, our results cannot be used to make generalizations about polling places nationwide during the 2016 general election or to make comparisons with the results from our polling place accessibility assessments for the 2000 and 2008 general elections. However, our examination of the selected 178 polling places did provide important information about voter accessibility in a range of polling places in various types of local election jurisdictions across the country during the 2016 general election.

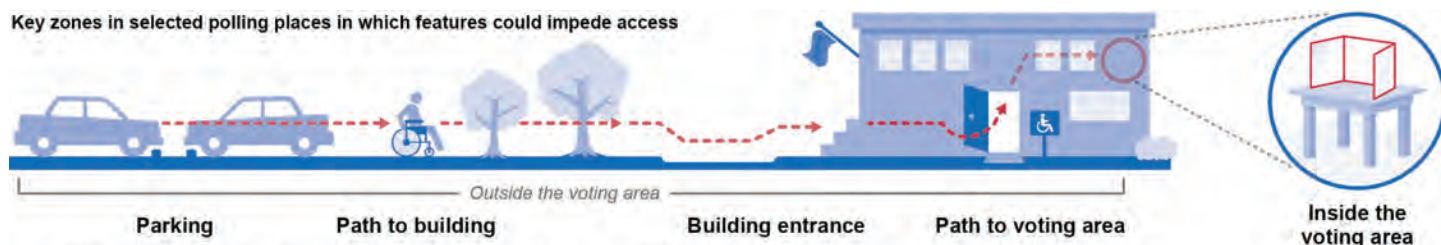
At our selected polling places, we examined features outside and inside the voting area that could have posed a potential impediment during early in-person voting or on Election Day voting.⁹ Figure 1 shows the zones within each area of the polling place where we made observations and took measurements. We examined specific features in each zone that might pose potential impediments for people with disabilities, many of which can primarily affect individuals with mobility impairments, such as voters using wheelchairs.

⁸See [GAO-09-941](#). For a description of how we originally selected the 84 counties and the two-stage sampling method to select polling places, see appendix I.

⁹Our use of the term “potential impediment” in this report is broader than our use of the term in our report on the 2008 general election. In our report on the 2008 general election, we used the term potential impediments in reference to features outside the voting area. In this report, the term refers to features both outside and inside the voting area.

Figure 1: Areas and Zones in Selected Polling Places That We Examined

Key zones in selected polling places in which features could impede access



Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

Outside the voting area of the polling place, we examined four zones: (1) parking, (2) the path from parking to the building entrance, (3) the entrance, and (4) the path from the entrance to the voting area. Inside the voting area, we assessed whether (1) an accessible voting system was provided, and (2) aspects of the voting station that could enable the casting of a private and independent vote by a person with a disability. To make these observations, we sent teams of two GAO staff to each selected county in our nongeneralizable sample during early in-person voting from October 26, 2016, through November 6, 2016, and separately on Election Day, November 8, 2016. Each team was equipped with a tape measure and a digital level,¹⁰ as well as a structured data collection instrument with which to document their observations and measurements. The teams used a data collection instrument similar to the one we used to document observations and measurements of features at polling places in the 2008 general election, as well as to document the responses of chief polling place officials to our interview questions. We revised the 2008 data collection instrument to reflect changes made in the *Americans with Disabilities Act: ADA Checklist for Polling Places 2016*—issued by DOJ—and in the *2010 ADA Standards for Accessible Design*.¹¹ Additionally,

¹⁰The digital levels were used to measure potential structural impediments in buildings and on walkways. We tested the reliability of the digital levels based on the consistency of readings from all digital levels, by reviewing the manufacturer's specifications, and talking with a representative of the manufacturer. We determined that the levels were sufficiently reliable for our purposes.

¹¹Our updated data collection instrument, used to document observations and measurements, was based on the *Americans with Disabilities Act: ADA Checklist for Polling Places 2016* as well as the *ADA Standards for Accessible Design*, and was reviewed by officials at DOJ and EAC. In particular, the data collection instrument was updated to include the cross-slope measurement of ramps or curb cuts. See *2010 ADA Standards for Accessible Design* §§403.3, 405.3.

officials at DOJ, EAC, and disability advocates reviewed a draft version of our data collection instrument, and we incorporated their comments where appropriate. We also pretested the data collection instrument at polling places during one state's congressional primary in September 2016.

For our observations and measurements both outside and inside the voting area, we did not differentiate the severity of potential impediments because accessibility is dependent on numerous factors, including the nature of an individual's disability. In addition, we did not assess polling places for legal compliance with HAVA accessible voting system requirements or other federal or state laws, but as described more fully below, we examined features that might impede access to voting for people with disabilities.

We visited 178 polling places. However, in some instances our examiners were not able to complete all measurements inside the voting area because of voting area restrictions.

- Of the 178 polling places, we examined features outside the voting area at all 178.
- Of the 178 polling places, we observed whether or not the polling place had an accessible voting system at 167 polling places, although we were not able to observe every measurable aspect of the voting station.¹² At the remaining 11 polling places, we were unable to observe if an accessible system was available. Further, for these polling places, we were able to determine potential impediments both outside and inside the voting area.
- Of the 178 polling places, we determined whether or not the polling place had a voting station inside the voting area that could facilitate or impede the casting of a private and independent vote at 137 polling places. At the remaining 41 polling places we were not able to observe if voting stations with accessible voting systems could impede private and independent voting.

¹²We define "voting station" as the location within a polling place where voters may record their votes, including the area around and the actual voting booth or enclosure where voting takes place as well as the voting system. "Voting system" refers to the voting equipment that was used to cast a ballot, such as a DRE, a ballot-marking device, or another type of machine or technology.

To identify the actions states took to facilitate voting for people with disabilities during the 2016 general election, we administered a web-based survey to state election officials in all 50 states and the District of the Columbia from January 2017 to May 2017. We obtained a 98 percent response, as one state did not submit a survey response. We did not verify survey responses or other information provided by state officials, and some states did not respond to all survey questions. In general, we also did not analyze states' laws to determine their voting access requirements, but instead relied on the states' responses to our survey. However, in several cases, we conducted a limited review of state laws or other related information (such as type of early in-person voting provided) to understand the context of a state's survey response.

To address all three objectives, we reviewed relevant federal laws and regulations as well as other relevant documentation, including (1) DOJ's publicly available guidance on HAVA and ADA implementation, and (2) EAC's 2007 advisory guidance regarding the HAVA accessible voting system requirement.¹³ We also interviewed election administration experts; officials at EAC, DOJ, and national organizations that represent election officials; local and state election officials; and, disability advocacy organizations. We also compared DOJ's guidance against Standards for Internal Control in the Federal Government.¹⁴ Additional information about our objectives, scope, and methodology is provided in appendix I.

We conducted this performance audit from May 2016 to October 2017 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

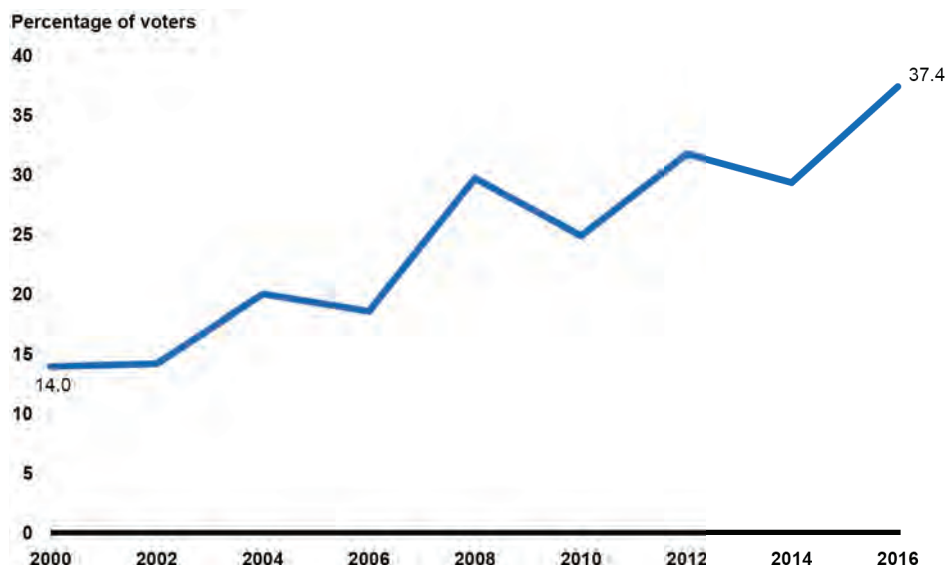
¹³Department of Justice, Civil Rights Division, Disability Rights Section, *The Americans with Disabilities Act and Other Federal Laws Protecting the Rights of Voters with Disabilities*. (Washington, D.C.: Sept. 2014); *Americans with Disabilities Act: ADA Checklist for Polling Places 2016*; and Election Assistance Commission, *2007 Guidance on Accessible Voting System Requirements* (Washington, D.C.: Jan. 24, 2007).

¹⁴GAO, *Standards for Internal Control in the Federal Government*, [GAO-14-704G](#) (Washington, D.C.: September 2014). Internal control is a process effected by an entity's oversight body, management, and other personnel that provides reasonable assurance that the objectives of an entity will be achieved.

Background

During the 2016 general election, approximately 137 million voters cast ballots in schools, libraries, churches, government buildings, recreation centers, senior centers, and other locations.¹⁵ According to the Census Bureau, over 51 million voters—about one of every three—cast their ballots before Election Day 2016, a number which has grown since 2000 (see fig. 2).¹⁶

Figure 2: Trend in the Percentage of Voters Casting a Vote before Election Day



Source: U.S. Census Bureau, Current Population Survey. | GAO-18-4

Note: Estimates come from independent analyses of data that includes the U.S. Census Bureau's Current Population Survey. Discrepancies between these analyses and estimates from Census's Current Population Survey data alone could arise from a number of potential factors, including the timing of this analyses and the incorporation of multiple data sources with different collection methodologies.

Authority to regulate elections is shared by federal, state, and local officials in the United States. The responsibility for the administration of federal and state elections resides at the state level, and states regulate various aspects of elections, including, for example, absentee and early voting requirements and Election Day procedures. Within each state,

¹⁵U.S. Federal Election Commission, *Official 2016 Presidential General Election Results: November 8, 2016*; (Washington, D.C.: Jan. 30, 2017).

¹⁶Michael P. McDonald, *2016 November General Election Early Voting*, United States Elections Project (July 13, 2017), http://www.electproject.org/early_2016.

primary responsibility for planning, managing, and conducting elections largely resides with local officials at the county level or in minor civil divisions like cities and towns. These localities implement both Election Day processes as well as any voting processes that occur before Election Day, such as absentee and early in-person voting.

Federal Laws Relating to Voting and Accessibility

While federal elections are generally conducted under state laws and policies, several federal laws apply to voting and some provisions specifically address accessibility issues for voters with disabilities. These federal laws collectively address two issues that are essential to ensuring that voters with disabilities have the same opportunity as voters without disabilities to access and cast their ballots at a polling place: (1) physical access to the polling place, and (2) voting systems that enable people with disabilities to cast a private and independent vote. Table 1 shows selected federal laws addressing accessibility issues for voters with disabilities.

Table 1: Selected Federal Laws Related to Voting Accessibility for Voters with Disabilities

Selected Law	Highlights of Accessibility Requirements in Selected Laws
The Voting Rights Act of 1965 Pub. L. No. 89-110, 79 Stat. 437 (codified as amended at 52 U.S.C. §§ 10101-702).	• Authorizes voters who require assistance to vote (by reason of blindness, disability, or inability to read or write) to be assisted by a person of their choice, provided the assistant is not the voter's employer or an agent of the voter's employer or union.
Voting Accessibility for the Elderly and Handicapped Act (VAEHA) Pub. L. No. 98-435, 98 Stat. 1678 (codified as amended at 52 U.S.C. §§ 20101-07).	• Requires political subdivisions responsible for conducting elections to assure that all polling places for federal elections are accessible to elderly voters and voters with disabilities.^a • One such exception occurs when the chief election officer of the state determines that no accessible polling places are available (or temporarily available) and the officer ensures that elderly voters and those with disabilities who are assigned to inaccessible polling places be, upon advance request, either reassigned to an accessible polling place or provided another means for voting on Election Day. • Requires election administrators to provide registration and voting aids (such as instructions printed in large type) to the elderly and people with disabilities.
The Americans with Disabilities Act of 1990 Pub. L. No. 101-336, 104 Stat. 327 (codified as amended at 42 U.S.C. §§ 12101-213). See also 28 C.F.R. pt. 35.	• Title II and its implementing regulation require that people with disabilities have access to public services, programs, or activities, including the right to vote. • Does not specifically address the accessibility of polling places. Instead, public entities are required to select and use facilities for their services, programs, or activities that will not exclude people with disabilities.^b
Help America Vote Act of 2002 Pub. L. No. 107-252, 116 Stat. 1666 (codified at 52 U.S.C. §§ 20901-21145).	• Vests enforcement authority with the U.S. Attorney General to bring a civil action against any state or jurisdiction as may be necessary to carry out specified uniform and nondiscriminatory election technology and administration requirements under HAVA. • Outlines minimum standards for voting systems for federal elections, stating that the voting system must be accessible for people with disabilities, including the blind and visually impaired, in a manner that provides the same opportunity for access and participation as for other voters. • This requirement may be satisfied through the use of at least one direct recording electronic device or other voting system equipped for people with disabilities at each polling place.

Source: GAO analysis of federal laws. | GAO-18-4

^aUnder the VAEHA, the definition of "accessible" is determined under guidelines established by the state's chief election officer, but the law does not specify standards or minimum requirements for those guidelines. 52 U.S.C. § 20107(1).

^bHowever, public entities are not required to take any action that they can demonstrate would result in a fundamental alteration in the nature of a service, program, or activity or in undue financial and administrative burdens. 28 C.F.R. § 35.164.

In 2010, DOJ promulgated revised regulations for Title II and Title III of the ADA, which included the adoption of the *2004 ADA Standards for Accessible Design* updated accessibility standards as part of the *2010 ADA Standards for Accessible Design* (2010 Standards).¹⁷ The 2010 Standards—which became effective in March 2012—revised the

¹⁷See 75 Fed. Reg. 56,164 (Sept. 15, 2010) and 75 Fed. Reg. 56,236 (Sept. 15, 2010).

minimum accessibility requirements, such as specifications for sloped surfaces, new construction or construction modifications to state and local government facilities, public accommodations, and commercial buildings, that had been established in the *1991 ADA Standards for Accessible Design*.

DOJ's and EAC's Roles in Federal Elections

DOJ helps ensure state and local compliance with federal laws and regulations designed to provide voters with disabilities physical access to polling places and voting systems through a number of actions. For example:

- DOJ's Civil Rights Division is responsible for enforcing Title II of the ADA (which prohibits discrimination on the basis of disability in public services), and Section 301 of HAVA (which requires each polling place in a federal election to have a voting system that is accessible to individuals with disabilities).
- DOJ separately investigates allegations of program access violations, including within polling places, under its Title II enforcement authority.¹⁸
- DOJ also provides educational outreach and technical assistance to states and localities. Specifically, based on the *2010 Standards for Accessible Design*, in 2016 DOJ updated technical guidance for polling place accessibility, known as the *DOJ ADA Checklist for Polling Places (ADA Checklist)*. The *ADA Checklist* mainly focuses on ADA accessibility requirements for polling places and offers guidance for temporary measures that can be used to facilitate access for people with disabilities. The *ADA Checklist* is also used by DOJ officials and state and local election administrators to evaluate the accessibility of current and potential polling places.

The EAC—an independent federal commission established by HAVA—has wide-ranging duties that help improve state and local administration of federal elections. Among other things, the EAC is responsible for (1) periodically conducting and making publicly available studies regarding methods of ensuring accessibility of voting, polling places, and voting equipment; (2) serving as a national clearinghouse of and resource for

¹⁸Under "Project Civic Access," for example, DOJ has reached agreements with a number of cities and towns to open up civic life, including voting, to people with disabilities. Some agreements require altering polling places and providing curbside or absentee balloting.

federal election-related information; (3) providing for the certification of voting systems; and (4) providing voluntary guidance to states implementing certain HAVA provisions. EAC does not have legal authority to enforce implementation of the ADA or HAVA.

State and Local Election Jurisdictions and Methods of Voting

The responsibility for the administration of federal elections resides at the state level, and states regulate various aspects of elections including, for example, registration procedures, absentee and early voting requirements, and Election Day procedures. States also establish policies for how voters can cast their ballots—including opportunities to vote in person on Election Day, in person before Election Day (e.g., early in-person voting), by mail under certain circumstances (absentee voting), by mail under any circumstances (no-excuse absentee or all vote-by-mail)—and states can choose to implement a combination of such policies.¹⁹

Within states, implementing federal and state election policies is largely a local responsibility, residing with about 10,500 local election jurisdictions nationwide. Local election officials make a number of planning and management decisions that determine the day-to-day operations of polling places. For example, they can designate any of the variety of locations mentioned earlier as a polling place. Local election officials also recruit and train poll workers.

Some states have implemented voting methods aimed at increasing voter convenience by offering citizens an alternative to voting on Election Day, which may benefit people with disabilities. These methods include in-person voting before Election Day—also referred to as early in-person voting—which has been gaining popularity in federal elections in recent years.²⁰ In general, this form of voting affords an eligible voter the opportunity to cast a ballot in person prior to Election Day. The provision and implementation of voting before Election Day is governed by state

¹⁹For more information about state laws regarding registration and voting on or before Election Day, see GAO, *Elections: State Laws Addressing Voter Registration and Voting on or before Election Day*, [GAO-13-90R](#) (Washington, D.C.: Oct. 4, 2012).

²⁰We have previously reported that for the 2010 general election, 33 states and the District of Columbia required or allowed for early in-person voting, which increased from 24 states and the District of Columbia during the 2004 general election. See GAO, *Elections: Views on Implementing Federal Elections on a Weekend*, [GAO-12-69](#) (Washington, D.C.: Jan. 12, 2012).

law and varies from state to state; consequently, there is no national definition of early voting.

Methods for in-person voting before Election Day and the extent to which they are used vary across states and localities. Some states or jurisdictions allow voters who have obtained an absentee ballot to cast their vote in-person at a designated location prior to Election Day in a process known as in-person absentee voting. Others allow voters to cast their ballots in the same manner as they would on Election Day during early voting. While both of these forms of in-person voting before Election Day might offer similar experiences for voters, the state laws governing them—such as in the dates, times, and locations that these options are offered—can vary widely as can local procedures for handling these pre-Election Day ballots. For example, ballots cast before Election Day at a clerk's office might be counted at a central location on Election Day versus being counted at the precinct. Local election administrators may also exercise discretion in determining the number and location of early voting sites as well as their hours of operation.

Accessible Voting Systems for People with Disabilities

Providing an accessible voting system encompasses both the voting method and the operation of the system. In terms of the voting method, HAVA requires the use of a direct recording electronic (DRE) voting system or other voting system equipped for individuals with disabilities to facilitate voting for people with disabilities. These accessible voting systems are primarily electronic machines or devices equipped with features to assist voters with disabilities.

- DRE devices capture votes electronically. These devices come in both push button or touch screen models, and mark ballots when a voter presses a button or touches a screen that highlights the selected ballot option (such as a candidate's name). Voters can change their selections until they touch the final vote location that indicates a completion of all choices, and their vote is officially cast. These devices can be equipped with features such as an audio ballot and audio voting instructions for the blind.
- Ballot marking devices use electronic technology to mark an optical scan ballot at voter direction, interpret ballot selections, communicate the interpretation for voter verification, and print a voter-verified ballot. Voters use a device's accessible interface to record their choices on a paper or digital ballot. These devices can accommodate voters who

prefer to vote in an alternate language or require use of a foot-pedal or a sip-and-puff device.²¹

In terms of the operation of the system, HAVA specifies that the accessible voting system must provide the same opportunity for access and participation, including privacy and independence, as provided to other voters.²²

Most Selected Polling Places We Examined Had One or More Features Outside or Inside the Voting Area That Could Impede Access for Voters with Disabilities

We visited 178 selected polling places during either early in-person voting or on Election Day 2016. At these polling places, we examined a number of features both outside and inside the voting area. Of the 178 polling places, we were able to examine features across both areas at 167.²³ A minority of these 167 polling places were free of potential impediments.²⁴ Outside the voting area only—where we were able to measure features at all 178 polling places—most had one or more potential impediments anywhere from (1) parking, (2) the path to the building entrance, (3) the entrance, or (4) the path from the entrance to the voting area. Inside the voting area only—where we were able to observe whether or not the polling place had an accessible voting system at 167 of the 178 polling places—almost all had accessible voting systems. Further, of the 178 polling places, we were able to determine whether or not the polling place had a voting station inside the voting area that could facilitate or impede the casting of a private and independent vote at 137 polling places. Of these 137 polling places, most were set up in a way that could impede casting a private and independent vote.

²¹A sip-and-puff device is a straw-like accessory that allows a voter to make selections by either blowing or sucking into the device.

²²52 U.S.C. § 21081(a)(3)(A).

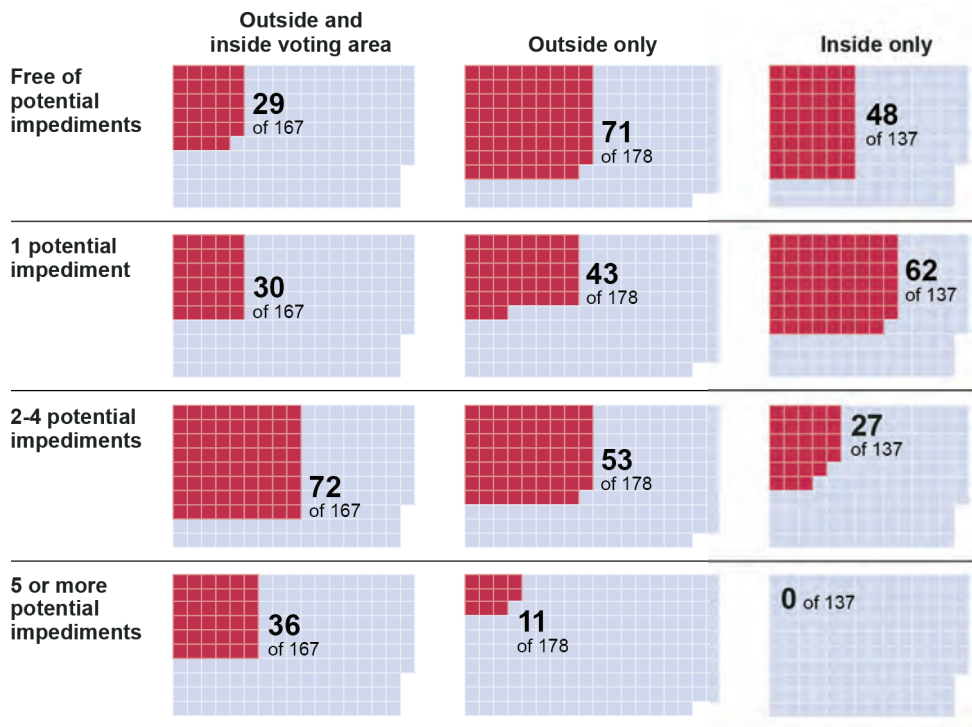
²³Throughout this report, we characterize the number of selected polling places with potential impediments with modifiers defined as follows: “almost all” represents 90 percent or more of selected polling places; “most” represents 60 percent or more of selected polling places; “the majority” represents 51 percent or more of selected polling places; “many” represents 40 percent or more of selected polling places; and a “minority” represents 20 percent or fewer of selected polling places.

²⁴For the purposes of this study, we treated all of the potential impediments with equal significance, although we recognize that, in practice, the effect of any one impediment may depend on the nature of an individual’s disability. For example, the width of a door would not necessarily affect an individual who is blind and without mobility impairments, but it could prevent a person using a wheelchair from entering a polling place.

A Minority of Polling Places We Examined Were Free of Any Potential Impediments

Of the 167 polling places where we could examine features outside and inside the voting area, 17 percent of polling places (29 of 167) were free of any potential impediments across both areas during early in-person voting or on Election Day 2016. That is, 83 percent (138 of 167) of polling places had one or more potential impediments. Figure 3 provides additional details about the number and location of these potential impediments.

Figure 3: Total Number of Potential Impediments at Selected Polling Places during the 2016 General Election, Outside or Inside the Voting Area



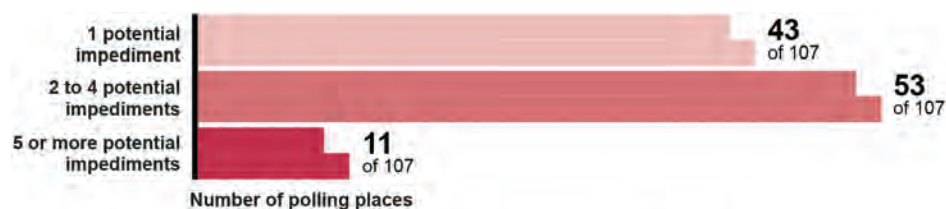
Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

Note: We made observations and measurements outside of the voting area at all 178 selected polling places, which include early in-person and Election Day polling places. However, we observed and measured inside the voting area at 167 polling places, and were able to make full observations and measurements of both areas (including at the voting station) at 137 polling places with accessible voting systems. Also, for inside the voting area, none of the 89 polling places with potential impediments had voting stations with accessible voting systems with more than 3 potential impediments to casting a private and independent vote.

Most Polling Places We Examined Had One or More Potential Impediments Outside the Voting Area

Most polling places (107 of 178, or 60 percent) we examined during early in-person voting and on Election Day had one or more potential impediments from parking to the voting area. Of these 107 polling places, 43 had one potential impediment, 53 had two to four potential impediments, and 11 had five or more potential impediments (see fig. 4). Examples of potential impediments included poor or unpaved parking surfaces and doors that would be difficult for a person using a wheelchair to open. Forty percent of all polling places we examined (71 of 178) had no potential impediments outside of the voting area.

Figure 4: Number of Selected Polling Places That Had One or More Potential Impediments Outside the Voting Area



Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

Note: 71 of the 178 polling places we examined had no potential impediments.

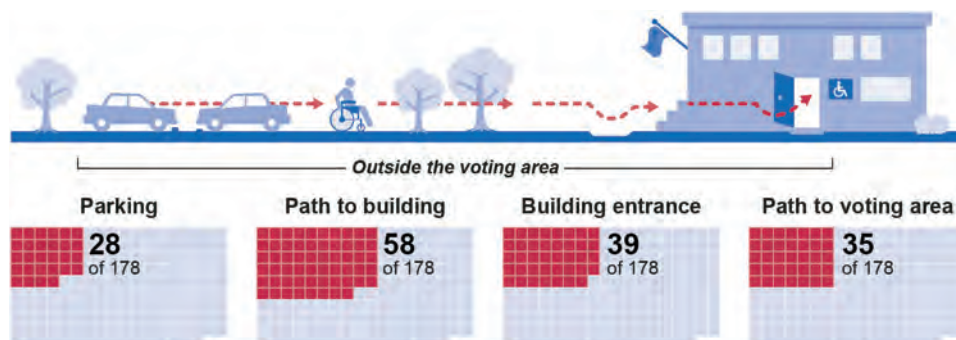
At a majority of the polling places with one or more potential impediments outside the voting area, polling place officials we interviewed said that they offered curbside voting to assist voters who may have had difficulty getting to or making their way through a polling place.²⁵ Specifically, of the 107 polling places that had one or more potential impediments, 63 offered curbside voting, while the remaining 44 did not.

²⁵According to DOJ guidance, curbside voting cannot replace in-person voting except in rare circumstances. Specifically, “in some circumstances, when a public entity is unable to identify or create an accessible polling place...election administrators may instead use an alternative method of voting at the polling place. While absentee balloting can be offered to voters with disabilities, it cannot take the place of in-person voting for those who prefer to vote at the polls on Election Day. Any alternative method of voting must offer voters with disabilities an equally effective opportunity to cast their votes in person. For example, the only suitable polling site in a precinct might be an inaccessible building. In this rare circumstance, election administrators may provide “curbside voting” to allow persons with disabilities to vote outside the polling place or in their cars.” See Department of Justice, Civil Rights Division, Disability Rights Section, *The Americans with Disabilities Act and Other Federal Laws Protecting the Rights of Voters with Disabilities* (Washington, D.C.: September 2014).

Outside the voting area, we found differences between the polling places we examined during early in-person voting and those we examined on Election Day 2016. Specifically, we found that outside the voting area 64 percent (29 of 45) of the early in-person polling places had one or more potential impediments compared with 59 percent (78 of 133) of the Election Day polling places. In addition, 38 percent (11 of 29) of the polling places used for early in-person voting with one or more potential impediments offered curbside voting while 67 percent (52 of 78) of the Election Day polling places with one or more potential impediments offered it.²⁶

Of the four zones we examined outside the voting area at all 178 polling places, the path from parking to the building entrance was the zone that most commonly had one or more potential impediments, followed by the building entrance (see fig. 5). Specifically, 33 percent (58 of 178) of all polling places we examined had at least one potential impediment on the path to the building, such as an unsafe or poor ramp surface. (See figure 6 for an example of a ramp we observed that was constructed from a folding table and a block of wood.) None of the selected polling places had a potential impediment in all four zones.

Figure 5: Zones Outside the Voting Area with One or More Potential Impediments That Could Impede Access for Voters with Disabilities



Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

²⁶Furthermore, 42 percent (19 of 45) of all polling places used for early in-person voting that we examined offered curbside voting compared with 62 percent (83 of 133) of the Election Day polling places.

Figure 6: Example of a Polling Place with a Make-shift Ramp Constructed from a Folding Table and a Block of Wood That Could Pose an Impediment for Voters with Disabilities



Source: GAO. | GAO-18-4

In addition, we observed that a higher percentage of polling places we examined during early in-person voting than on Election Day had one or more potential impediments across three of the four zones outside the voting area: (1) the path to the building entrance (17 of 45 polling places during early in-person versus 41 of 133 polling places on Election Day); (2) the building entrance (13 of 45 versus 26 of 133); and (3) the path from the building entrance to the voting area (14 of 45 versus 21 of 133).

Across the polling places we examined during the 2016 general election, the most common potential impediments outside the voting area were steep ramps or curb cuts located outside the building; entrance door thresholds exceeding $\frac{1}{2}$ inch in height; poor parking, pathway, or ramp surfaces; and, a lack of signs clearly indicating accessible paths from parking to the voting area. See appendix II for a full listing of each potential impediment we observed at polling places used for early in-person voting and separately on Election Day 2016.

Almost All Polling Places We Examined Had Accessible Voting Systems, but Most Had Voting Stations with Aspects That Could Impede Private and Independent Voting

Of the polling places in which we made observations and measurements inside the voting area, almost all (158 of 167, or 95 percent) had at least one accessible voting system. The most common brands of accessible voting systems used at these polling places were ballot marking devices. Ballot marking devices are accessible voting systems that use electronic technology to mark an optical scan ballot. However, 5 percent (9 of the 167 polling places) did not have any accessible voting systems. Of these 9 polling places without an accessible voting system, 6 were located at polling places used for early in-person voting. Further, 5 of these 6 polling places without an accessible voting system were located in one local jurisdiction.

Of the selected polling places in which we were able to make full observations of the voting station, most (89 of 137, or 65 percent) had at least one station with an accessible voting system that could impede casting a private and independent vote.²⁷ To determine if voting stations with accessible voting systems could impede private and independent voting, we assessed four aspects of the voting station: (1) whether the voting system was set up and powered on; (2) whether earphones were available for audio functions; (3) whether the voting station was set up to accommodate people using wheelchairs; and (4) whether the accessible voting station provided the same level of privacy for casting a ballot as the level of privacy for voters using a standard voting station.²⁸

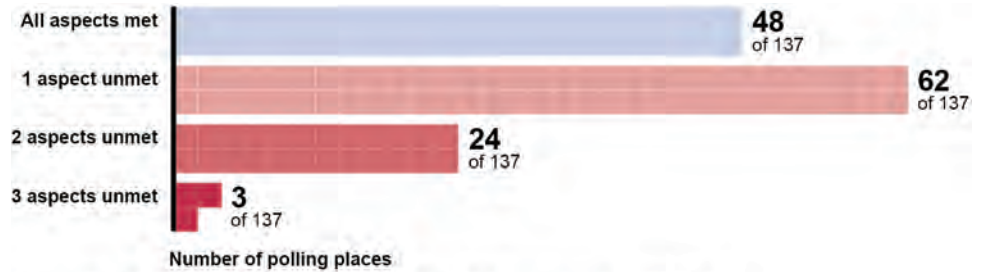
Of the 137 polling places in which we were able to measure aspects of private and independent voting in full, 62 polling places did not have a station that met one of these four aspects, 24 did not have one that met two aspects, and 3 did not have one that met three aspects. The remaining 48 polling places we examined—among the 137 which we

²⁷We define “voting station” as the location within a polling place where voters may record their votes, including the area around and the actual voting booth or enclosure where voting takes place as well as the voting system. For the purposes of this report, we define “voting system” to be the voting equipment that is used to cast a ballot, such as a DRE, a ballot-marking device, or another type of machine or technology.

²⁸If a polling place had more than one station with an accessible voting system, we measured the voting station that seemed to be best configured for voting in a chair or wheelchair. If any aspect was not met, we assessed any other stations with an accessible voting system to determine if one station met all four aspects for facilitating private and independent voting. If we found that all voting stations with an accessible voting system could impede casting a private and independent vote, we reported that the polling place did not have a voting station with an accessible voting system that met one or more of the four aspects we assessed.

were able to measure in full—had a voting station with an accessible voting system that met all aspects (see fig. 7).

Figure 7: Number of Selected Polling Places with a Voting Station with an Accessible Voting System That Could Impede Casting a Private and Independent Vote



Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

Note: To determine if voting stations with accessible system could impede private and independent voting, we assessed four aspects of the voting station: (1) whether the voting system was set up and powered on; (2) whether earphones were available for audio functions; (3) whether the voting station was set up to accommodate people using wheelchairs; and (4) whether the accessible voting station provided the same level of privacy for casting a ballot as the level of privacy for voters using a standard voting station. None of the 89 polling places observed had all four aspects unmet.

As shown in table 2, the aspect of the voting station that most commonly posed a potential impediment to casting a private and independent vote was a setup that would not accommodate wheelchairs. A voting station not set up to accommodate people using wheelchairs might require someone else to help a person with a disability vote, which might not provide the same level of privacy for a voter with a disability as offered to other voters.

Table 2: Number of Polling Places with Voting Station Features That Could Impede Casting a Private and Independent Vote on an Accessible Voting System

Accessible voting station features that could potentially impede casting a private and independent vote	Number of polling places with potential impediment	Percentage of polling places with potential impediment^a
Voting system is not set up or powered on	9	7%
Earphones are not attached or prominently visible	13	9%
Voting station is not set up to accommodate voters using a wheelchair	58	42%
Voting station does not provide the same level of privacy for voters with disabilities that is afforded other voters	39	28%

Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

^aPercentages are based on the 137 polling places with accessible voting stations that GAO was able to fully observe and measure. To determine if voting stations with accessible systems could impede private and independent voting, we assessed four aspects of the voting station: (1) whether the voting system was set up and powered on, (2) whether earphones were available for audio functions, (3) whether the voting station was set up to accommodate people using wheelchairs, and (4) whether the accessible voting station provided the same level of privacy for casting a ballot as the level of privacy for voters using a standard voting station.

A higher percentage of the polling places we observed on Election Day had a voting station with an accessible voting system that could impede casting a private and independent vote compared with the early in-person voting polling places we examined. Specifically, 67 percent (73 of 109) of the Election Day polling places versus 57 percent (16 of 28) of the early in-person polling places had a voting station with an accessible voting system that could impede casting a private and independent vote.

Almost all of the chief polling place officials said that they would allow a friend or relative of a voter with a disability to assist with voting, and most said that they themselves would provide various types of assistance to help people with disabilities who encountered difficulties while using an accessible voting system (see table 3). In addition, officials in 75 percent (126 of 167) of the polling places said that their training provided them with hands-on practice on how to operate the accessible voting system.²⁹ However, officials in 8 percent (14 of 167) of the polling places we examined said that they did not receive any training on accessible voting systems.

²⁹Not all polling place officials answered every question in our data collection instrument. Each percentage is based on the number of polling places where officials answered the question and not on 178.

Table 3: Type of Assistance That Polling Place Officials Reported They Would Provide to Help People with Disabilities Operate the Accessible Voting System

Type of assistance polling place officials would provide	Number of polling places where officials would provide assistance	Percentage of polling places where officials would provide assistance ^a
Explain how to operate the accessible voting system	157	96%
If asked, talk the person through operations while they are voting	151	92%
Demonstrate how to operate the accessible voting system	126	80%
Operate the machine for the person if having difficulties voting	121	75%
Let the person practice on the machine before voting	53	33%

Source: GAO analysis of polling place data collected during the 2016 general election. | GAO-18-4

^aNot all polling place officials answered every question in our data collection instrument. Each percentage is based on the number of polling places where officials answered the question and not on 178.

Most States Reported Having Accessibility Requirements and Conducting Oversight among Other Actions during the 2016 General Election

States that completed our survey reported taking a range of actions to support access for voters with disabilities during the 2016 general election.³⁰ These reported actions included having accessibility requirements, providing election worker training and voter education and outreach, as well as conducting oversight. These results are similar to what states reported in prior GAO work during the 2008 general election.³¹ Also, these reported actions included efforts to facilitate private and independent voting for people with disabilities. For the 39 states that reported requiring or allowing early in-person voting, most states reported taking similar actions during early in-person voting as on Election Day 2016. Moreover, states reported that the challenges they faced to ensuring accessibility for Election Day were similar to the ones faced for early in-person voting, with a few exceptions.

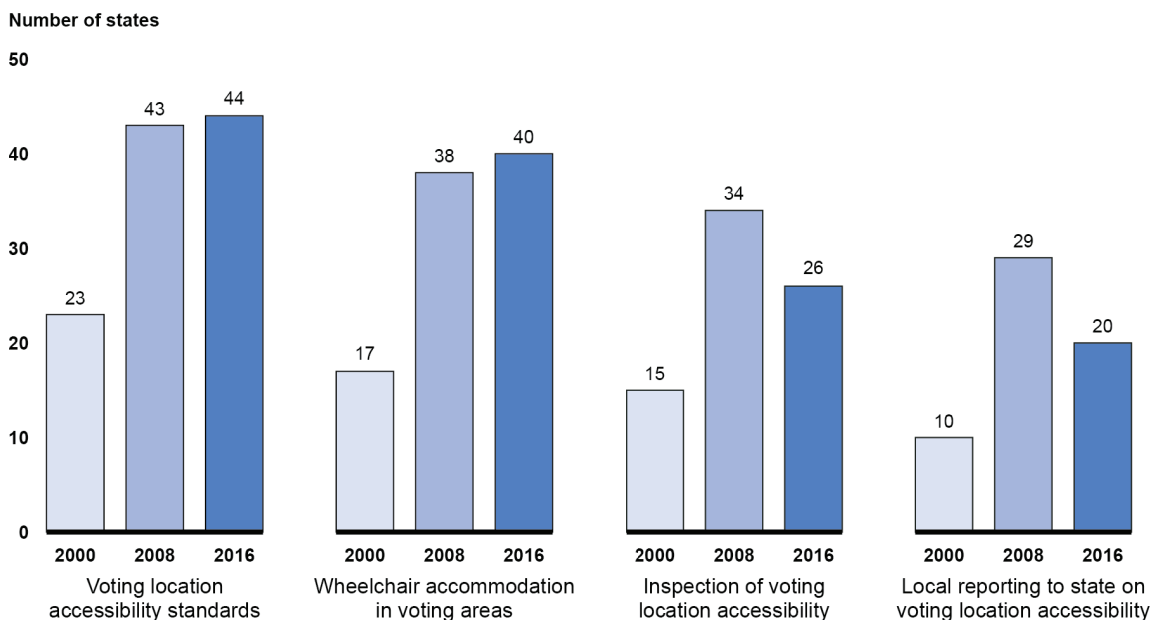
³⁰We surveyed 50 states and the District of Columbia and received a 98 percent response (one state did not complete the survey). In this report, we are using the term “states” in reference to the states and the District of Columbia.

³¹Our 2016 survey allows for comparisons with past results on state accessibility requirements that were published in our 2009 report. See [GAO-09-941](#). However, we updated and added new questions to the survey about other actions, such as conducting oversight, that are not comparable with our past work. For more information, see appendix I.

State accessibility requirements. In 2016, most states that completed our survey reported having accessibility requirements in place under their state law, regulation, executive order, or executive directive. Specifically, the number of states reporting requirements specifying polling place accessibility standards grew slightly from 43 states in 2008 to 44 states in 2016.³² One state reported, for example, that when new polling places are identified, local election officials are required to file a polling place accessibility self-assessment, which the state reviews for approval. In addition, officials from 40 states reported that they required accommodations for wheelchairs in the voting area on Election Day, which increased from 38 states for the 2008 general election. In addition, while most states reported they had state requirements in place to help ensure accessibility, fewer states reported requiring polling places to be inspected in 2016 (26 states) than in 2008 (34 states). Similarly, fewer states reported requiring local jurisdictions to submit inspection reports to the state to help ensure accessibility of polling places for Election Day 2016 (20 states) than in 2008 (29 in 2008).³³ Figure 8 shows the number of states that reported having accessibility and inspection requirements in place for polling places for the 2000, 2008, and 2016 general elections.

³²See [GAO-09-941](#).

³³While the number of states that reported having requirements for inspections and reporting mechanisms decreased between 2008 and 2016, the number of states that reported allowing their localities to have requirements for performing inspections of and provide reporting on polling place accessibility increased slightly between 2008 and 2016. Specifically, 16 states reported in 2016 that they allowed local jurisdictions to establish their own requirements for reporting accessibility issues, whereas 12 states reported this in 2008.

Figure 8: State-Reported Requirements Regarding the Accessibility of Polling Places, as of Election Days in 2000, 2008, and 2016

Source: GAO analysis of states' survey responses on Election Day in 2000, 2008, and 2016. | GAO-18-4

Note: Data for 2016 include 49 states and the District of Columbia while data from 2000 and 2008 includes all states and the District of Columbia; and, for the 2000, 2008, and 2016 surveys, not all states may have answered every survey question.

Education, outreach, and oversight. Most states reported providing education and training to local election officials and poll workers as well as conducting outreach to people with disabilities for Election Day 2016. For example, 43 states reported that they provided guidance to local election officials on voting accessibility for people with disabilities, and officials from 32 states reported that they provided training to local election officials on how to operate an electronic recording system or other accessible voting system. For example, one state reported that it produced a training video for county election officers. In addition to educating and training local election officials and poll workers, most states reported conducting outreach to people with disabilities. Specifically, officials from 38 states reported that they provided voter education to people with disabilities on voting access methods, and officials from 40 states reported that they provided election information at polling places, such as sample ballots or voter instructions. For example, one state reported that they contracted with a Protection and Advocacy

for Voting Access group who developed several ads that emphasized voter accessibility at the polls for people with disabilities.

In addition to education and outreach, 48 states reported conducting at least one oversight activity to ensure local compliance with state and federal accessibility requirements for voting on Election Day. For example, 39 states reported compiling and analyzing complaints of polling place accessibility issues occurring on Election Day; 34 states reported that they investigated or adjudicated local complaints on polling place accessibility and accommodations on Election Day; and 35 states reported that they evaluated and verified compliance with state requirements. One state, for example, reported deploying advocacy volunteers and volunteer attorneys to assess polling places to ensure compliance around the state.

Private and independent voting. In preparation for Election Day 2016, almost all states reported taking at least one action to facilitate private and independent voting for people with disabilities. Such voting methods are designed to provide the same level of privacy for voters with disabilities as offered to other voters, and enable people with disabilities to independently verify their vote and make any changes to their ballot before it is cast without assistance. Specifically, 48 states reported that they provided guidance on facilitating private and independent voting to local election officials, and 45 states reported providing training to local election officials and poll workers about this issue.

Early in-person voting. Thirty-nine states reported requiring or allowing early in-person voting, a method of voting by which a voter may complete a ballot in person prior to Election Day.³⁴ Similar to their responses regarding Election Day voting, most states that offered early in-person voting also reported taking a range of actions to ensure compliance with accessibility requirements for people with disabilities. We found

³⁴For our survey purpose, we defined “early in-person voting” as voting in-person without providing an excuse. Our definition also included the completion of an absentee or mail ballot in-person at a polling place.

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- 35 of 39 states reported having in place state accessibility requirements for polling places for early in-person voting;³⁵
 - 31 of 39 states reported training election officials on voting access methods for people with disabilities during early in-person voting;
 - 29 of 39 states reported offering voter education to people with disabilities on voting access methods during early in-person voting;
 - 36 of 39 states reported performing at least one oversight activity to ensure local compliance with state and federal accessibility requirements for early in-person voting; and
 - 36 of 39 states reported providing guidance to local election officials to facilitate private and independent voting for people with disabilities during early in-person voting.

In addition, most states reported that the challenges they face to ensure accessibility for voters with disabilities were similar for both early in-person voting and Election Day voting. In general, a majority of states reported no difference in challenges between early in-person voting or Election Day for these provisions and activities. For example, among the 39 states that indicated requiring or allowing early in-person voting, 32 states reported no difference in providing “voter information at voting locations,” and establishing or maintaining “state-based administrative complaint procedures,” whether it was during early in-person voting or for Election Day. For the states that reported differences in challenges between early in-person voting and Election Day, a majority indicated that there were more challenges associated with Election Day than early in-person voting. For example, 13 states reported that identifying accessible facilities for potential polling places was either “somewhat more challenging” or “more challenging” for Election Day than for early in-person voting before Election Day. Additional information is available in Appendix III, tables 17 and 18.

³⁵An additional 3 states reported that such provisions were allowed at the local level for early in-person voting, but were not a state-wide requirement for early in-person voting as they were for Election Day; 1 state reported that they did not address this provision.

DOJ Guidance Does Not Clearly Specify the Extent to Which Federal Accessibility Requirements Apply to Early In-Person Voting

DOJ provides guidance related to federal accessibility requirements in the context of voting for people with disabilities; however, this guidance does not clearly specify the extent to which these requirements apply to the various forms of in-person voting before Election Day. For example, one form of in-person voting before Election Day is marking an absentee ballot in-person at an elections office.

HAVA and ADA contain requirements related to accessibility, including requirements related to the accessibility of voting systems used in federal elections. Specifically:

- HAVA section 301(a)(3) requires that a voting system “be accessible for individuals with disabilities, including nonvisual accessibility [. . .] in a manner that provides the same opportunity for access and participation (including privacy and independence) as for other voters.”³⁶ This section further states that this requirement may be satisfied “through the use of at least one direct recording electronic voting system or other voting system equipped for individuals with disabilities at each polling place.” HAVA does not define the term “polling place.”
- Title II of the ADA and its implementing regulation, which prohibit discrimination on the basis of disability, require public entities to select and use facilities for its services, programs, or activities—such as voting—that will not exclude people with disabilities and to provide appropriate auxiliary aids and services where necessary to provide people with disabilities an equal opportunity to participate in the service, program, or activity.³⁷ According to DOJ’s guidance, *The Americans with Disabilities Act and Other Federal Laws Protecting the Rights of Voters with Disabilities (Federal Voting Laws Guidance)*, the ADA’s provisions apply to all aspects of voting.³⁸ Therefore, in accordance with the ADA, election officials conducting any elections, including federal elections, must provide an opportunity to participate

³⁶See 52 U.S.C. § 21081(a)(3).

³⁷See 42 U.S.C. § 12132; 28 C.F.R. § 35.130-35.164.

³⁸DOJ, Civil Rights Division, Disability Rights Section, *The Americans with Disabilities Act and Other Federal Laws Protecting the Rights of Voters with Disabilities* (Washington, D.C.: September 2014).

in the elections process that is equal to that afforded others.³⁹ To afford individuals with disabilities equal opportunity to participate in the election process, election officials conducting elections are required to furnish appropriate auxiliary aids and services. To be effective, “auxiliary aids and services must be provided in accessible formats, in a timely manner, and in such a way as to protect the privacy and independence of the individual with a disability.”⁴⁰ However, under the ADA, officials are not required to take any action that they can demonstrate would result in a fundamental alteration in the nature of a service, program, or activity or in undue financial and administrative burdens.⁴¹ Nonetheless, the election officials have an obligation to provide, if possible, another auxiliary aid or service that results in effective communication. In determining the type of auxiliary aid or service to be provided, officials must give primary consideration to the request of the individual with a disability.⁴²

DOJ is responsible for enforcing the federal voting rights and disability rights laws as well as providing certain guidance and technical assistance regarding voting accessibility. However, DOJ’s guidance does not clearly specify the extent to which HAVA’s accessible voting system requirement or the ADA’s auxiliary aids and services requirement apply to early in-person voting or other forms of in-person voting before Election Day versus Election Day. DOJ’s guidance is contained in (1) *Federal Voting Laws Guidance*; and (2) the *ADA Checklist of Polling Place Accessibility (ADA Checklist)*, according to DOJ officials.⁴³ In particular, the *Federal Voting Laws Guidance* discusses HAVA’s accessible voting system requirement, but does not clearly specify whether this requirement applies

³⁹See 42 U.S.C. § 12132; 28 C.F.R. § 35.130(b). The ADA states that “no qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of a public entity, or be subject to discrimination by any such entity.” According to the DOJ’s *Federal Voting Laws Guidance*, the ADA’s provisions apply to all aspects of voting.

⁴⁰See 28 C.F.R. § 35.160(b).

⁴¹28 C.F.R. § 35.164.

⁴²See 28 C.F.R. § 35.160(b)(2).

⁴³DOJ, Civil Rights Division, Disability Rights Section, *The Americans with Disabilities Act and Other Federal Laws Protecting the Rights of Voters with Disabilities* (Washington, D.C.: September 2014); and, *Americans with Disabilities Act: ADA Checklist for Polling Places* (Washington, D.C.: June 2016).

to early in-person voting. Regarding the ADA, this guidance states that the “ADA’s provisions apply to all aspects of voting, including voter registration, site selection, and the casting of ballots, whether on Election Day or during an early voting process.”⁴⁴ However, DOJ’s *ADA Checklist* states that it is intended for use on Election Day.⁴⁵ Further, the *ADA Checklist* does not reference HAVA’s accessible voting system requirement or the ADA’s requirements for providing appropriate auxiliary aids and services, except for noting that enough clearance must be provided for an individual with a disability to access and use all the voting equipment, including at least one accessible voting machine.

According to DOJ officials we interviewed, the department’s enforcement efforts under HAVA include limited assessments of a jurisdiction’s accessible voting systems, involving examining polling places to determine if an accessible voting system is available and turned on at the polling place and if polling place workers are trained to operate the machine and can demonstrate to voters how to use the machine. Separately, DOJ focuses its ADA enforcement efforts mainly on the physical accessibility of polling places, according to DOJ officials.

As previously discussed, EAC also provides advisory guidance and technical assistance to help improve the administration of federal

⁴⁴In addition, DOJ’s *Federal Voting Laws Guidance* discusses ADA requirements, stating that “officials must provide appropriate auxiliary aids and services at each stage of the process, from registering to casting a ballot.” The guidance gives examples of appropriate auxiliary aids or services for people who are blind or have low vision, such as a qualified reader, information in large print or Braille, accessible electronic information and information technology; and audio recording of printed information, as well as examples of auxiliary aids for people who are deaf or have hearing loss. Additionally, the guidance discusses an example of a jurisdiction that conducts elections by paper ballot: If a blind voter requested an accessible ballot, a Braille ballot would not be a secret ballot because it would have to be counted separately, and thus the guidance states that “other aids and services would better afford voters who are blind the opportunity to vote privately and independently and to cast a secret ballot,” such as ballot overlays or templates; electronic information and information technology that is accessible (either independently or through assistive technology, such as screen readers); or, recorded text or telephone voting systems.

⁴⁵Although the *ADA Checklist* states that it provides information on polling place accessibility on Election Day and does not state the extent to which the checklist applies to voting locations used during early in-person voting, DOJ officials noted that in past actions to enforce the ADA, the department has defined “Election” or “Election Day” to include both the period of in-person absentee voting and Election Day. See, e.g., Settlement Agreement between the U.S. and Fauquier County Regarding the Accessibility of Polling Places, DJ 204-79-321 (2017).

elections. Within this role, EAC's Advisory 2007-001, issued in 2007, states that, under HAVA, an in-person absentee voting location would be considered a "polling place" and therefore should be equipped with at least one accessible device.⁴⁶ Further, the advisory states that the term "polling place," as used in section 301(a)(3) of HAVA, should be considered any location where a voter appears in person to cast a ballot, including an early voting site. EAC officials confirmed to us that the commission's 2007 guidance remained pertinent for the 2016 general election.

Against this federal policy backdrop, we found some variation in the extent to which accessible voting systems were made available, or were required by states, for early in-person voting during the 2016 general election, through responses to our survey of state election officials and our observations and measurements of polling places. In addition, during our follow-up interviews, some state and local election officials cited legal, technological, and administrative challenges to providing DREs or other accessible voting systems for people with disabilities during early in-person voting or other forms of in-person voting before Election Day. Specifically, states had varying requirements with regard to accessible voting systems during early in-person voting, according to survey responses of state election officials. To examine access to polling places for people with disabilities, we defined early in-person voting to include casting a ballot in person prior to Election Day without an excuse as well as completing an absentee ballot or mail in ballot in person at a polling place or other voting location. Using this definition, almost all states that reported that they had early in-person voting (35 of 39) reported requiring or allowing DREs or other accessible voting systems. However, 4 of the 39 states reported either prohibiting or having no explicit policy for providing DREs or other accessible voting systems during this period of voting.

In following-up on our survey, officials from these four states said that their states' laws dictate the technology to be used for in-person absentee

⁴⁶Election Assistance Commission, *EAC Advisory 2007-001: Accessible Voting Systems For In-Person Absentee Voting* (Washington, D.C.: Jan. 24, 2007).

voting,⁴⁷ and that in their view, the federal accessible voting system requirement does not apply to this form of voting required in their states.⁴⁸

- According to officials from two of these four states, the states' laws preclude counting or tabulating votes during the no excuse, absentee voting period before Election Day. As a result, according to the state officials, these laws exclude use of a DRE, which records a vote when cast by a voter.
- Officials from the other two states—which reported allowing a voter with a disability to complete an excused absentee ballot in-person at an election clerk's office—cited similar challenges to providing DREs or other accessible voting systems for people with disabilities during in-person voting before Election Day. According to an official we interviewed from one of these states, the state's long-standing law requires that absentee voting, which requires an excuse, be conducted by paper ballot. Thus, this method of voting precludes using accessible technology, such as DREs or ballot marking devices, according to one state official. However, the state allows a person with a disability to request and receive assistance in marking the individual's ballot at a polling place, according to the state official. An official we interviewed from the other state said that state law does not define an election clerk's office as a polling place or other voting location, so the federal accessible voting system requirement does not apply to completing an excused, absentee ballot in-person at a clerk's office.
- One county in a fifth state offering early in-person voting did not have accessible voting systems, as previously discussed, at any of the five voting locations we examined during the 2016 general election. According to the county election officials we interviewed, the federal accessible voting system requirement did not apply to locations they used for early in-person voting. In addition, county officials said that they used a vote center model for early in-person voting—as opposed to precinct-based voting as they use on Election Day—which did not

⁴⁷We have previously reported that, since the 1980s, ballots in the United States, to varying degrees, have been cast and counted using five systems: paper ballots, lever machines, punch cards, optical scan, and DREs. Four of these systems involve technology; only the paper ballot system does not. See [GAO-12-69](#).

⁴⁸Two of the four state officials we spoke to reported that their states only provide excused absentee voting, which requires a voter to provide an excuse such as having a disability to vote absentee.

permit them to use accessible voting systems. This vote center model instead permitted people in the county to vote outside of their precincts at any location available for early in-person voting. As a result, each early voting location needed to make available multiple ballots for precinct-specific candidates and initiatives (e.g., bond measures), as well as in different languages; their accessible voting systems were not designed to accommodate these needs, according to these officials. Officials said that they plan in the future to purchase accessible voting systems that will be able to accommodate this model of early in-person voting.⁴⁹

Election officials we interviewed from two of the four states and the one county we discuss above also said that requiring these systems would affect the resources needed to facilitate in-person voting before Election Day as well as the election calendars. For example, an official from one state said that it would require more lead-time for designing and producing ballots, testing the voting equipment, completing paperwork confirming the testing, and securing the accessible voting systems during the period before Election Day.

During our discussions with DOJ officials, we asked them about the extent to which federal accessibility requirements are applicable, if at all, to early in-person voting or in-person absentee voting. DOJ officials said that the department has not taken a public position on the issue of whether the HAVA accessible voting system requirement applies to early in-person voting. Further, with regard to the ADA, although DOJ's *Federal Voting Laws Guidance* states that the ADA applies to all aspects of voting, to include early voting, DOJ officials said that they recognize that the *ADA Checklist* uses the term "Election Day" without further defining the term, and that the use of this term may be commonly understood to limit its application to the traditional day of the election.

DOJ officials also stated that the department has not received any voter complaints about the lack of an accessible voting system during in-person voting before Election Day. They stated that DOJ provides state and local jurisdictions flexibility in applying HAVA provisions given the considerable variation in how election jurisdictions arrange polling places, buy and maintain voting equipment, conduct elections, and count votes. DOJ

⁴⁹An election official from another state we interviewed cited a similar issue, stating that the greater numbers of people voting before Election Day had outpaced purchasing decisions for voting equipment.

officials also noted that there are various possible implications to the department taking a more specific position on guidance related to early in-person voting. For example, these officials told us that changes in their guidance could result in states or local jurisdictions expending additional resources to procure certain types of voting systems or could affect state and local jurisdictions' decisions on offering early in-person voting.

Given that these various factors could affect implementation of federal accessibility requirements in the context of early in-person voting, studying this issue and considering changes to existing guidance, as appropriate, would help DOJ to determine the extent to which any changes to its guidance are necessary. Federal internal control standards and Office of Management and Budget (OMB) guidance call for agencies to review policies for continued relevance and effectiveness in achieving their objectives and, in turn, to communicate changes in policy to external stakeholders when significant changes in conditions occur.⁵⁰ DOJ helps enforce state and local compliance with federal laws and regulations designed to provide voters with disabilities access to both the locations used as polling places and the voting systems, which provide the means to cast the ballot. As previously discussed, more states and voters today are voting in-person before Election Day than when HAVA was enacted in 2002.⁵¹ Within this context, studying the implementation of federal accessibility requirements in relation to early in-person voting could help DOJ take account of conditions that have changed in recent years, such as the increases in early in-person voting, and position the department to

⁵⁰GAO, *Standards for Internal Control in the Federal Government*, [GAO-14-704G](#) (Washington, D.C.: Sept. 10, 2014). Office of Management and Budget (OMB), *Final Bulletin for Agency Good Guidance Practices* (January 2007). According to OMB's guidance, agencies may provide helpful guidance to interpret existing law through an interpretive rule or to clarify how they tentatively will treat or enforce a governing legal norm through a policy statement. Guidance documents, used properly, can channel the discretion of agency employees, increase efficiency, and enhance fairness by providing the public clear notice of the line between permissible and impermissible conduct while ensuring equal treatment of similarly situated parties. Moreover, guidance should aim to communicate effectively to the public about the legal effect of the guidance and the consequences for the public of adopting an alternative approach.

⁵¹National Conference of State Legislatures, Election Administration website, accessed July 6, 2017, <http://ncsl.org/research/elections-and-campaigns/absentee-and-early-voting.aspx>; and, Michael P. McDonald, 2016 November Election Early Voting, United States Election Project (July 13, 2017), http://www.electproject.org/early_2016.

determine the extent to which any changes to guidance might be warranted or appropriate.

Conclusions

Our work examining the accessibility of polling places for voters with disabilities during the 2000, 2008, and 2016 general elections points to the need for additional progress to help voters with disabilities enter and move through polling places, access voting systems, and cast a private and independent vote.

The ADA and HAVA help provide a framework for ensuring access to polling places and voting methods, thereby helping ensure equal opportunity for voters with disabilities to participate in America's democracy. Since the enactment of HAVA in 2002, changes have occurred in how local and state election jurisdictions implement key election activities, such as early in-person voting. Notably, the number of states offering and voters nationwide using early in-person voting methods during the 2016 general election has increased relative to previous federal elections, as previously discussed, and may continue to grow in the future. As voting practices evolve, the need for federal and state agencies to review and update existing policies and guidance on voting accessibility is an important step in providing greater clarity about how they will treat or enforce legal requirements. With a perspective towards future elections, DOJ studying the implementation of the legal requirements for accessible voting systems in the context of early in-person voting and making changes to guidance, as appropriate, could help provide additional information to federal, state, and local entities on these requirements, which could in turn help inform future decision making about how to interpret and address the requirements.

Recommendation for Executive Action

The Attorney General should study the implementation of federal accessibility requirements in the context of early in-person voting and make any changes to existing guidance that are determined to be necessary as a result of the study. (Recommendation 1)

Agency Comments

We provided a draft of this report to the Department of Justice (DOJ) and the Election Assistance Commission (EAC) for review and comment. See Appendix IV for DOJ's written comments and Appendix V for EAC's comments. In its written comments, DOJ generally agreed with our recommendation to study the implementation of federal accessibility requirements in the context of early in-person voting and to make any

changes to existing guidance that DOJ determines to be necessary as a result of the study. DOJ also outlined its efforts to enforce the protections for voters with disabilities found in federal law. In addition, DOJ provided technical comments, which we incorporated as appropriate.

The EAC agreed with the information in our report and provided no technical comments.

As agreed with your offices, unless you publicly announce the contents of this report earlier, we plan no further distribution until 30 days from the report date. At that time, we will send copies to the appropriate congressional committees, the Attorney General, the EAC's Executive Director, and other interested parties. In addition, the report is available at no charge on GAO's website at <http://www.gao.gov>.

If you or your staff have any questions about this report, please contact Barbara Bovbjerg at (202) 512-7215 or BovbjergB@gao.gov; or, Rebecca Gambler at (202) 512-8777 or GamblerR@gao.gov. Contact points for our Offices of Congressional Relations and Public Affairs may be found on the last page of this report. GAO staff who made major contributions to this report are listed in appendix VI.



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Appendix I: Objectives, Scope, and Methodology

Our objectives were to (1) examine the extent to which polling places in selected locations used during the 2016 election had features that might impede access for voters with disabilities, (2) describe the actions states took to facilitate voting access for people with disabilities in the 2016 general election, and (3) examine guidance the Department of Justice (DOJ) has provided on the extent to which federal accessibility requirements apply, if at all, to early in-person voting.

To determine the number of selected polling places with features that might impede access for people with disabilities, we examined a nongeneralizable sample of 178 polling places during either early in-person voting or on Election Day (November 8, 2016) to make observations, take measurements, and conduct interviews with chief polling place officials. To determine what actions states took to facilitate voting for people with disabilities, we administered a web-based survey to state election officials in all 50 states and the District of Columbia. For all three objectives, we reviewed relevant federal laws, regulations, federal guidance, and other relevant documentation. In addition, we interviewed officials at DOJ, Election Assistance Commission (EAC), and selected national election organizations, along with selected national disability advocates, and election administration experts.

We conducted this performance audit from May 2016 to October 2017 in accordance with generally accepted government auditing standards. Those standards require that we plan and perform the audit to obtain sufficient, appropriate evidence to provide a reasonable basis for our findings and conclusions based on our audit objectives. We believe that the evidence obtained provides a reasonable basis for our findings and conclusions based on our audit objectives.

Early In-Person Voting and Election Day Polling Places

Selection of Polling Places

To examine selected polling places for features that might impede access for people with disabilities, we examined a nongeneralizable sample of 178 polling places during either early in-person voting or on Election Day (November 8, 2016). Our sample included:

- 45 early in-person voting polling places in 11 counties in 6 states and the District of Columbia; and

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- 133 Election Day polling places in 21 counties in 12 states and the District of Columbia.

The counties we examined during early in-person voting were a subset of the counties visited on Election Day. However, in all local election jurisdictions, we did not examine the same polling places on Election Day that we examined during early in-person voting.

To identify polling places to examine, we first selected 21 counties from among the 84 randomly selected counties that were part of our study on the accessibility of polling places for voters with disabilities during the 2008 general election.¹ We selected these 21 counties based on: (1) variation in county population size, with most counties being larger in population size; (2) variation in type of election administration (that is, we selected some counties in which the county administers elections, and we selected other counties in which elections are administered by other government entities, such as cities, townships, or other local government entities); and (3) variation in geographic location. For the selected counties in which elections were administered by cities, townships, or villages—generally known as minor civil divisions (MCD)—we chose up to six MCDs based on their population and on their proximity to each other.

We selected polling places within each county on a nonprobability basis. To do this, we searched the internet in September and early October 2016 to determine whether each county or MCD posted a listing of its polling places. If the information was posted, we downloaded the list. If not, we contacted county or MCD officials to obtain a list of the jurisdiction's polling places. We selected up to seven polling places in each county based on the relative proximity of polling places to each other and variation in the types of facilities used as polling places (such as schools, houses of worship, fire stations, or city halls).² We identified up to three polling places in each MCD. In advance, we contacted election officials in each of the selected states, counties, and MCDs to request permission to visit polling places, and were granted permission to visit any available polling places, including the 178 selected polling places.

¹GAO, *Voters with Disabilities: Additional Monitoring of Polling Places Could Further Improve Accessibility*, [GAO-09-941](#) (Washington, D.C.: Sept. 30, 2009).

²A few jurisdictions used a small number of polling places during early in-person voting, which limited our ability to select various types of facilities in these locations.

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Polling Place Examinations and the Data Collection Instrument

Because we selected a nongeneralizable sample of polling places for the 2016 general election, the results cannot be used to make generalizations about polling places nationwide used during the 2016 general election or to make comparisons with the results from our polling place accessibility assessments for the 2000 and 2008 general elections. However, our examination of the selected 178 polling places provided important information about voter accessibility in a range of polling places in various types of local election jurisdictions across the country during the 2016 general election.

We sent teams of two GAO analysts to each county in our nongeneralizable sample during early in-person voting from October 26, 2016, through November 6, 2016, and separately on Election Day, November 8, 2016. In counties selected for both early in-person voting and Election Day voting, the same team generally was used. Each team was equipped with a tape measure and a digital level,³ as well as a structured data collection instrument with which to document their observations and measurements.

The teams used a data collection instrument similar to the one we used to document observations and measurements of features at polling places in the 2008 general election, as well as to document the responses of chief polling place officials to our interview questions. However, we revised the 2008 data collection instrument to reflect changes made in the *Americans with Disabilities Act: ADA Checklist for Polling Places 2016*—issued by DOJ—and in the *2010 ADA Standards for Accessible Design*.⁴ Additionally, officials at DOJ, EAC, and disability advocates reviewed a draft version of our data collection instrument, and we incorporated their comments where appropriate. Finally, to examine the ease of use, clarity, and time required to complete the data collection instrument, we pretested the data collection instrument at polling places during one state’s congressional primary in September 2016.

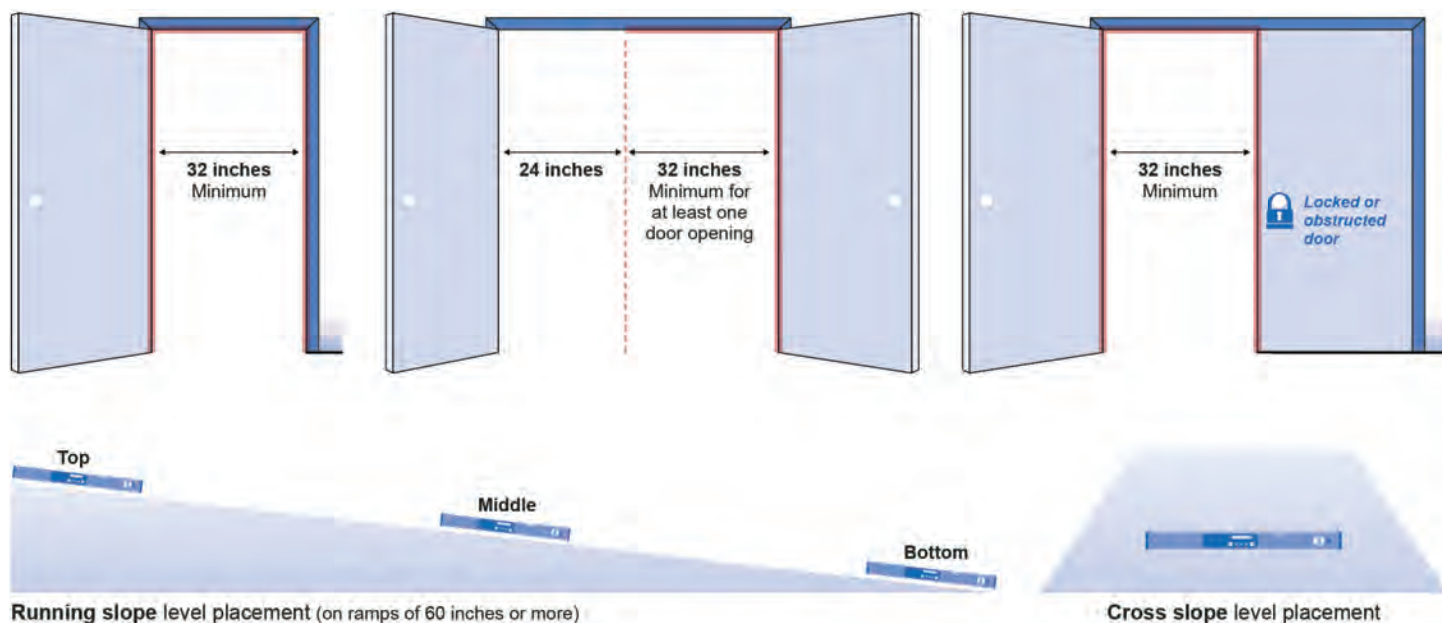
³The digital levels were used to measure potential structural impediments in buildings and on walkways. We tested the reliability of the digital levels based on the consistency of readings from all digital levels, by reviewing the manufacturer’s specifications, and talking with a representative of the manufacturer. We determined that the levels were sufficiently reliable for our purposes.

⁴In particular, the data collection instrument was updated to include the cross-slope measurement of ramps or curb cuts.

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To ensure uniformity of data collection, we trained all teams on how to (1) complete the data collection instrument; (2) use the measurement tools; and (3) interview the chief election official in each polling place about the location's accessible voting systems as well as its accommodations for voters with disabilities. See figure 9 for examples of measurements and items for observation that were used to train GAO teams. We also instructed teams to not approach voters or interfere with the voting process.

Figure 9: Examples of Items for Observation and Measurements from Our Data Collection Instrument That Were Used to Train GAO Teams for Polling Place Examinations



Source: GAO's analysis of Department of Justice's 2010 ADA Standards for Accessible Design. | GAO-18-4

Each GAO team received a list of up to seven polling places to examine in each county for early in-person voting or on Election Day. Teams were expected to complete at least four examinations of polling places from the lists where possible. For ease of travel, we allowed GAO teams to examine polling places in the order that was most convenient. We instructed GAO teams not to disclose to anyone outside of GAO the selected polling places to maintain the integrity of data collection. As a result of time constraints, traffic patterns, and/or geography, some teams were not able to complete examinations of their assigned polling places while other teams were able to examine up to seven polling places.

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Collection of Data

We examined features both outside and inside polling places that might pose a potential impediment during early in-person voting and Election Day voting.⁵ Data were first collected in four zones outside of the polling place voting area and were next collected inside the voting area.

- **Outside the voting area.** We examined features in four different zones outside of the voting area: (1) parking, (2) the path from parking to the building entrance, (3) the building entrance, and (4) the path from the entrance to the voting area. We examined several features within these zones, such as the slopes of sidewalks, ramps or curb cuts, paved surfaces, and door openings.⁶ Consequently, the number and percentage of polling places cited as having one or more potential impediments outside the voting area is derived from an observation that at least one feature located in these zones might impede access to voting.
- **Inside the voting area.** We assessed whether (1) an accessible voting system was provided and (2) whether aspects of the voting station could enable the casting of a private and independent vote by a person with a disability. To assess whether an accessible voting system could impede private and independent voting, we examined the following four aspects: (1) whether the system was turned on, (2) whether it was equipped with special features such as ear phones, (3) whether it was set up to accommodate voters using wheelchairs, and (4) whether it was positioned in such a way as to provide the same level of privacy as afforded to other voters. As a part of this assessment, we identified the types of voting methods available to all voters and took measurements of voting station(s) or table(s) used by people with disabilities to determine if wheelchairs could fit inside the station or underneath the table (see fig. 10 for the measurements we

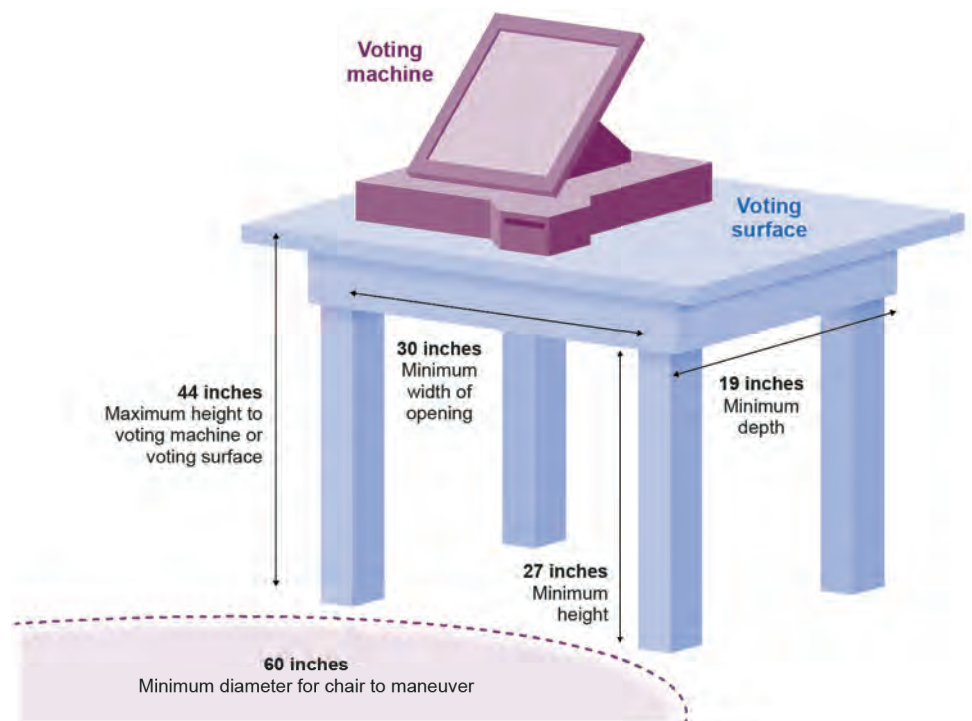
⁵Our use of the term potential impediments is broader in this report than it was in our 2008 general election report. In our 2008 election report, we used “potential impediments” in reference only to features outside the voting area. In this report, the term refers to features either outside or inside the voting area.

⁶We used DOJ’s 2010 *ADA Standards for Accessible Design* criteria to determine if these features could potentially impede access (for example, if the slopes of sidewalks, ramps or curb cuts had a running slope steeper than 8.3 percent or a cross slope steeper than 2.1 percent; paved surfaces had abrupt changes of over ½ inch; or door openings were less than 32 inches wide). The digital level—which we used to measure the slopes of ramps or curb cuts—measured to the tenth decimal place while the ADA criterion for the running slope is 8.3333 percent and the criterion for the cross slope is 2.0833 percent. Thus, we rounded the criteria to 8.3 percent and 2.1 percent, respectively.

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took).⁷ We also interviewed chief poll workers about the availability of curbside voting and accommodations available to people with disabilities.

Figure 10: Measurements Used to Determine If a Voting Station Was Set Up to Accommodate People Using Wheelchairs Based on Criteria in the Americans with Disabilities Act



Source: GAO's analysis of Department of Justice's 2010 ADA Standards for Accessible Design. | GAO-18-4

For our measurements in both areas, we did not differentiate the severity of potential impediments because disabilities and access are dependent on numerous factors, including the nature of an individual's disability. In addition, we did not assess polling places for legal compliance with the Help America Vote Act of 2002 (HAVA) accessible voting system requirements or other federal or state laws, but we examined features that might impede access to voting for people with disabilities.

⁷We took multiple measurements of voting station(s) or table(s) used by people with disabilities, such as the height, width, and depth based on the criteria we used. If at least one of these measurements did not conform with the criteria, we identified the polling place as having one or more potential impediments inside the voting area.

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In general, the denominator for our calculations is the 178 polling places we examined in which we were able to take measurements and make observations. However, the number of measurements and observations we completed at polling places varied. In some instances our examiners were not able to complete all measurements inside the voting area because of voting area restrictions.

- Of the 178 polling places, we examined features outside of the voting area at all 178.
- Of the 178 polling places, we observed whether or not the polling place had an accessible voting system at 167 polling places, although we were not able to observe every measurable aspect of the voting station.⁸ At the remaining 11 polling places, we were unable to observe if an accessible system was available. Further, for these polling places, we were able to determine potential impediments both outside and inside the voting area.
- Of the 178 polling places, we were able to determine whether or not the polling place had a voting station inside the voting area that could facilitate or impede the casting of a private and independent vote at 137 polling places. At the remaining 41 polling places we were not able to observe if voting stations with accessible voting systems could impede private and independent voting.

We assessed the accuracy of information collected through our data collection instrument by reviewing responses to identify obvious errors or inconsistencies; conducting follow-up to clarify responses when needed; and, checking responses from the paper-based data collection instrument that were entered manually into an electronic format.

To characterize the number of selected polling places with potential impediments throughout this report, we defined modifiers (e.g., “most”) to quantify this information as follows:

- “almost all” represents 90 percent or more of selected polling places,
- “most” represents 60 percent or more of selected polling places,

⁸We define “voting station” as the location within a polling place where voters may record their votes, including the area around and the actual voting booth or enclosure where voting takes place as well as the voting system. “Voting system” refers to the voting equipment that was used to cast a ballot, such as a DRE, a ballot-marking device, or another type of machine or technology.

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- “the majority” represents 51 percent or more of selected polling places,
 - “many” represents 40 percent or more of selected polling places,
 - a “minority” represents 20 or fewer of selected polling places.

Survey of States and the District of Columbia

To identify the actions states took to facilitate voting for people with disabilities during the 2016 general election, we administered a web-based survey to state election officials in all 50 states and the District of Columbia.⁹ Survey topics included: (1) state actions to accommodate people with disabilities; (2) state implementation of the Help America Vote Act of 2002 (HAVA) voting access requirements and other accommodations for people with disabilities; and (3) state requirements, policies, and methods for voting before Election Day, particularly early in-person voting and other convenience voting methods like absentee voting.

The 2016 survey was based on the survey used in our 2008 work. However, we updated several of the questions and added new questions to examine early in-person voting and application of HAVA requirements in more depth. We also added questions to examine actions states took to facilitate private and independent voting for people with disabilities. These revisions were informed by discussions with election administration experts and election officials. Several experts and election administrators reviewed our draft survey, and we incorporated their comments as appropriate. We conducted the survey using a self-administered electronic questionnaire administered via the internet. We collected the survey data from January 31, 2017, to May 5, 2017. We received surveys from 49 states and the District of Columbia, for a 98 percent response rate.¹⁰ As a result, the survey will allow for comparison with past results that were published in our 2009 report.¹¹

⁹In this report, we are using the term “states” in reference to the states and the District of Columbia.

¹⁰Not all respondents answered every survey question. In addition, the wording of the 2016 survey question stem changed slightly from our 2000 and 2008 surveys, but the wording for the questions about specific provisions and accommodations are consistent with our previous surveys.

¹¹[GAO-09-941](#).

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This survey was not a sample survey, so there are no sampling errors. However, the practical difficulties of conducting any survey may introduce nonsampling errors, such as variations in how respondents interpret questions and their willingness to offer accurate responses. To minimize nonsampling errors, we pretested the draft survey instrument in five states to ascertain the following: (1) clarity and unbiasedness of survey questions; (2) precision of terminology; and (3) ability of respondents to provide the information sought. We made changes to the content and format of the questionnaire on the basis of pretest results.

Almost all respondents entered their web-based questionnaire responses directly into our survey database, thereby greatly reducing the possibility of data entry errors. However, because of a technical difficulty, two states had to provide their responses directly to a GAO analyst, who then entered the responses directly into the database. To minimize data entry errors for these two surveys, a second analyst separately reviewed the entered responses for accuracy. We also identified any inconsistencies in responses and other indications of error. In addition, a second analyst verified that the computer programs used to analyze the data were written correctly.

Our verification of survey results did not include contacting all state or local election officials to verify survey responses or other information provided by state officials. In general, we also did not analyze states' laws to determine their voting access requirements, but instead relied on the states' responses to our survey. However, in several cases, we conducted a limited review of states' laws or other related information (such as type of early in-person voting provided) to understand the context of a state's response.

Review of Federal Laws, Documentation, and Interviews with Federal Officials and Experts

For all three objectives, we reviewed relevant federal laws, regulations, guidance, and other documentation as well as interviewed officials at the DOJ and EAC. Specifically, we reviewed the *Americans with Disabilities Act: ADA Checklist for Polling Places 2016* and additional guidance, such as the 2007 advisory issued by the EAC regarding the HAVA accessible voting system requirement and DOJ's 2014 guidance on ADA and HAVA implementation, the *Americans with Disabilities Act and Other Federal Laws Protecting the Rights of Voters with Disabilities*. We assessed DOJ's guidance in the context of federal standards for internal control for identifying, analyzing, and responding to change as well as

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communicating with external parties.¹² Relevant documents were obtained and reviewed for selected states.

To learn more about the extent to which the accessible voting system requirements apply to voting locations used for early in-person voting, we spoke with officials from the EAC as well as officials in both the Voting and Disability Rights Sections of DOJ's Civil Rights Division.¹³ These interviews were used to document DOJ's internal processes for handling enforcement actions, to clarify our understanding of the language in official documents, and to review DOJ's actions to monitor and enforce voting accessibility requirements. Further, we interviewed selected local and state election officials from the counties we selected and states we surveyed. In addition, we interviewed officials from the National Disability Rights Network, officials from the National Association of Secretaries of State, and officials from the National Association of State Election Directors, as well as other election and disability area experts. We selected experts based on their experience working with state and local election officials and their expertise with accessibility issues concerning voting for people with disabilities during federal elections, among other factors. The perspectives we obtained from our interviews with association and election officials and disability experts provided insights regarding officials' views on the accessible voting system requirements. These perspectives cannot be generalized to other associations or officials.

¹²GAO-14-704G.

¹³The Voting Section, within Justice's Civil Rights Division, is responsible for enforcement of civil provisions of federal voting laws, such as HAVA. The Disability Rights Section, also within the Civil Rights Division, is primarily responsible for protecting the rights of persons with disabilities under the ADA, which includes ensuring that people with disabilities have access to basic services, such as voting.

Appendix II: List of Potential Features Outside of the Voting Area That Might Impede Access to Voting

Table 4: Selected Features Outside the Voting Area That Might Impede Access to Voting: Selected Early In-Person Voting Polling Places

Potential impediment	Number of polling places with potential impediment	Number of polling places
Parking		
Poor parking surface	0	45
One or more unramped or uncut curbs	0	45
One or more ramped or cut curbs less than 36 inches wide	0	45
One or more ramps or cut curbs with running slope steeper than 8.3%	3	45
One or more ramps or cut curbs with cross slope steeper than 2.1% ^a	2	45
Other potential impediments in parking lot	3	45
Path from parking to building entrance		
No sign clearly indicating path designated for people with disabilities	5	45
Overly narrow sidewalk/pathway	0	45
No sidewalk/pathway from parking area to building entrance	0	45
Sidewalk/pathway running slope is steeper than 8.3%	5	45
Sidewalk/pathway cross slope is steeper than 2.1%	4	45
Unpaved or poor surface in parking lot or route to building entrance	2	45
Leaves, snow, litter in path from parking area to building entrance	0	45
Objects (e.g., signs) protrude into pathway where object not touching the ground without safety cones	0	45
Steps required in path from parking area to building entrance	0	45
Poor ramp surfaces (e.g., unpaved, abrupt surface changes, etc.)	0	45
Presence of leaves, snow, litter on the ramp from parking area to building entrance	0	45
Suspended objects (e.g., signs, decorative objects) protrude into ramp more than 4 inches where the object is not touching the ground and is at least 27 inches through 80 inches off the ground, without safety cones to identify them	0	45
Ramps along pathway had a running slope steeper than 8.3%	4	45
Ramps along pathway had a cross slope steeper than 2.1%	2	45
Lack handrails on ramp	3	45
Improper handrails on ramp	0	45
Ramps in path from parking area to building entrance is < 36 inches wide or can go down to 32 inches wide for 2 feet	0	45
Ramps in path from parking area to building entrance do not have a level landing at the top and bottom of each section that is at least 60 inches long	0	45
Other potential impediments in the path from parking area to building entrance	2	45

**Appendix II: List of Potential Features Outside
of the Voting Area That Might Impede Access
to Voting**

Potential impediment	Number of polling places with potential impediment	Number of polling places
Building entrance		
Doorway threshold exceeds ½ inch in height	4	45
Single building entrance doorway opening is < 32 inches wide	3	45
Double building entrance door opening is <32 inches wide, including situations in which one of the doors cannot be opened	0	45
Door hardware requires more than one hand to open	1	45
Revolving door is the only door provided	0	45
Automatic door opener for people with disabilities does not work	5	45
Doorbell does not function	2	45
Other potential impediments at the building entrance	0	45
Path from building entrance to voting area		
No sign clearly indicating route to the voting area designated for people with disabilities	4	45
Doorway threshold exceeds ½ inch in height	0	45
Single doorway opening is <32 inches wide	3	45
Double door opening is <32 inches wide, including situations in which one of the doors cannot be opened	0	45
Doors that would be difficult for a person using a wheelchair to open	1	45
Revolving door is the only door provided	0	45
Automatic door opener does not work	1	45
Steps are required to gain access to voting area	0	45
Ramp's running slope is steeper than 8.3%	0	45
Ramp's cross slope is steeper than 2.1%	0	45
No handrails on ramp inside the building	0	45
Improper handrails on ramps inside the building	0	45
One or more ramps that are < 36 inches wide or can go down to 32 inches wide for 2 feet	0	45
Elevator is not operational or is not properly equipped for people with disabilities		
Elevator is not operational	0	45
The center of the top outside call button in the hall is higher than 48 inches from the ground or floor	0	45
The panel surrounding the elevator car buttons lacks raised lettering or Braille	2	45
Outside or inside elevator buttons require a human touch to operate	0	45
The center of the top floor button(s) in the elevator car is higher than 48 inches from the floor of the elevator	2	45
The elevator is not equipped with audible tones or bells or verbal annunciators that signal each floor as it passes	3	45

**Appendix II: List of Potential Features Outside
of the Voting Area That Might Impede Access
to Voting**

Potential impediment	Number of polling places with potential impediment	Number of polling places
Other potential elevator impediments	0	45
Wheelchair lift or buttons are not operational or not proper dimensions	0	45
The lift is not operational or the lift requires a key which is not visibly present	0	45
The outside call button in the hall is higher than 48 inches from the ground or floor	0	45
The width of the opening to enter the lift is less than 32 inches wide	0	45
There is less than a 30-inch by 48 unobstructed floor space on the lift	0	45
The controls inside the lift are higher than 48 inches from the floor of the lift	0	45
Outside or inside lift buttons require a human touch to operate	0	45
The lift requires assistance to operate	0	45
Other potential lift impediments	0	45
Corridors that do not provide an unimpeded width of at least 36 inches can go down to 32 inches for 2 feet, or objects protrude into the corridor where object not touching the ground without safety cones	3	45
Objects (e.g., signs, decorative objects hanging overhead, exposed undersides of stairs) protruding more than 4 inches into the pathway where the object is not touching the ground and is at least 27 inches through 80 inches off the ground, without safety cones to identify them.	3	45
Other potential impediments at doorways and entrances	0	45
Other potential impediments with ramps	0	45
Other potential impediments with corridors	1	45

Source: GAO analysis of selected polling place data collected on Oct. 26, 2016 through Nov. 6, 2016. Criteria to determine if features might impose impediments to access are based on the Department of Justice's 2010 ADA Standards for Accessible Design. | GAO-18-4

^aThe 2016 data collection instrument was updated to include the measurement of the cross slope for ramps, sidewalks, and curb-cuts on the basis of the Department of Justice's *ADA Checklist for Polling Places 2016*.

Table 5: Selected Features Outside the Voting Area That Might Impede Access to Voting: Selected Polling Places on Election Day

Potential impediment	Number of polling places with potential impediment	Number of polling places
Parking		
Poor parking surface	5	133
One or more unramped or uncut curbs	1	133
One or more ramped or cut curbs less than 36 inches wide	0	133
One or more ramps or cut curbs with running slope steeper than 8.3%	11	133
One or more ramps or cut curbs with cross slope steeper than 2.1% ^a	4	133
Other potential impediments in parking lot	3	133

**Appendix II: List of Potential Features Outside
of the Voting Area That Might Impede Access
to Voting**

Potential impediment	Number of polling places with potential impediment	Number of polling places
Path from parking to building entrance		
No sign clearly indicating path designated for people with disabilities	5	133
Overly narrow sidewalk/pathway	1	133
No sidewalk/pathway from parking area to building entrance	3	133
Sidewalk/pathway running slope is steeper than 8.3%	13	133
Sidewalk/pathway cross slope is steeper than 2.1%	9	133
Unpaved or poor surface in parking lot or route to building entrance	8	133
Leaves, snow, litter in path from parking area to building entrance	1	133
Objects (e.g., signs) protrude into pathway where object not touching the ground without safety cones	0	133
Steps required in path from parking area to building entrance	1	133
Poor ramp surfaces (e.g., unpaved, abrupt surface changes, etc.)	4	133
Presence of leaves, snow, litter on the ramp from parking area to building entrance	1	133
Suspended objects (e.g., signs, decorative objects) protrude into ramp more than 4 inches where the object is not touching the ground and is at least 27 inches through 80 inches off the ground, without safety cones to identify them	0	133
Ramps along pathway had a running slope steeper than 8.3%	13	133
Ramps along pathway had a cross slope steeper than 2.1%	6	133
Lack handrails on ramp	1	133
Improper handrails on ramp	3	133
Ramps in path from parking area to building entrance is < 36 inches wide or can go down to 32 inches wide for 2 feet	0	133
Ramps in path from parking area to building entrance do not have a level landing at the top and bottom of each section that is at least 60 inches long	4	133
Other potential impediments in the path from parking area to building entrance	4	133
Other potential impediments on a ramp to the actual building entrance	0	133
Building entrance		
Doorway threshold exceeds ½ inch in height	9	133
Single building entrance doorway opening is < 32 inches wide	5	133
Double building entrance door opening is <32 inches wide, including situations in which one of the doors cannot be opened	3	133
Door hardware requires more than one hand to open	4	133
Revolving door is the only door provided	0	133
Automatic door opener for people with disabilities does not work	5	133
Doorbell does not function	2	133
Other potential impediments at the building entrance	2	133

**Appendix II: List of Potential Features Outside
of the Voting Area That Might Impede Access
to Voting**

Potential impediment	Number of polling places with potential impediment	Number of polling places
Path from building entrance to voting area		
No sign clearly indicating route to the voting area designated for people with disabilities	5	133
Doorway threshold exceeds ½ inch in height	0	133
Single doorway opening is <32 inches wide	3	133
Double door opening is <32 inches wide, including situations in which one of the doors cannot be opened	0	133
Doors that would be difficult for a person in a wheelchair to open	1	133
Revolving door is the only door provided	0	133
Automatic door opener does not work	1	133
Steps are required to gain access to voting area	0	133
Ramp's running slope is steeper than 8.3%	4	133
Ramp's cross slope is steeper than 2.1%	0	133
Improper handrails on ramps inside the building	0	133
One or no handrails on ramps inside the building	2	133
One or more ramps that are < 36 inches wide or can go down to 32 inches wide for 2 feet	1	133
Elevator is not operational or is not properly equipped for people with disabilities		
Elevator is not operational	0	133
The center of the top outside call button in the hall is higher than 48 inches from the ground or floor	0	133
The panel surrounding the elevator car buttons lacks raised lettering or Braille	2	133
Outside or inside elevator buttons require a human touch to operate	0	133
The center of the top floor button(s) in the elevator car is higher than 48 inches from the floor of the elevator	0	133
The elevator is not equipped with audible tones or bells or verbal annunciators that signal each floor as it passes	2	133
Other potential elevator impediments	1	133
Wheelchair lift or buttons are not operational or not proper dimensions		
The lift is not operational or the lift requires a key which is not visibly present	1	133
The outside call button in the hall is higher than 48 inches from the ground or floor	0	133
The width of the opening to enter the lift is less than 32 inches wide	1	133
There is less than a 30-inch by 48 unobstructed floor space on the lift	0	133
The controls inside the lift are higher than 48 inches from the floor of the lift	0	133
Outside or inside lift buttons require a human touch to operate	0	133

**Appendix II: List of Potential Features Outside
of the Voting Area That Might Impede Access
to Voting**

Potential impediment	Number of polling places with potential impediment	Number of polling places
The lift requires assistance to operate	0	133
Other potential lift impediments	0	133
Corridors that do not provide an unimpeded width of at least 36 inches can go down to 32 inches for 2 feet, or objects protrude into the corridor where object not touching the ground without safety cones	2	133
Objects (e.g., signs, decorative objects hanging overhead, exposed undersides of stairs) protruding more than 4 inches into the pathway where the object is not touching the ground and is at least 27 inches through 80 inches off the ground, without safety cones to identify them.	2	133
Other potential impediments at doorways and entrances	3	133
Other potential impediments with ramps	0	133
Other potential impediments with corridors	2	133

Source: GAO analysis of selected polling place data collected on Nov. 8, 2016. Criteria to determine if features might pose impediments to access are based on the Department of Justice's *2010 ADA Standards for Accessible Design*. | GAO-18-4

^aThe 2016 data collection instrument was updated to include the measurement of the cross slope for ramps, sidewalks, and curb-cuts on the basis of the Department of Justice's *ADA Checklist for Polling Places 2016*.

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

To identify the actions states took to facilitate voting for people with disabilities during the 2016 general election, we administered a web-based survey to state election officials in all 50 states and the District of Columbia. We received surveys from 49 states and the District of Columbia, for a 98 percent response rate. The tables provided below represent the frequencies of state responses to the questions listed in the title. In addition, we provide comparative information below that was reported in our 2009 report, updated with corresponding responses from our 2016 survey results.¹ We did not verify survey responses or other information provided by state officials, and some states did not respond to all survey questions.

Table 6: States' Responses to GAO 2016 Survey Question: "To the best of your knowledge, did your state office take any of the following actions to facilitate private and independent voting for people with disabilities in preparation for Election Day, November 8, 2016?"

	Yes	No	Don't know
Conducted demonstrations of voting equipment to people with disabilities	27	20	3
Provided election information on accessible voting procedures in advance to people with disabilities	40	7	2
Provided guidance to local election officials on facilitating voting for people with disabilities	48	2	0
Provided training to local election officials on assisting voters with disabilities	45	5	0
Provided specific guidance on positioning voting stations at voting locations to prevent other voters from seeing how voters using the accessible machines were marking their ballots	40	7	3
Coordinated with disability council, Protection Advocate Voting agency (PAVA) or other advocacy groups	41	6	3
Other	8	6	15

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions.

¹GAO-09-941.

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

Table 7: States' Responses to GAO 2016 Survey Question: "For Election Day, November 8, 2016, did your state obligate or spend any Help America Vote Act (HAVA), state, and/or local funds for any of the following activities to help facilitate voting access for people with disabilities?"

	Yes, we obligated or spent HAVA funds	Yes, we obligated or spent state funds	Localities obligated or spent	No funds were obligated or spent	Don't know	State has not taken this action
Provide voter education to people with disabilities on voting access methods	16	16	14	6	3	2
Providing voting information at polling places, such as sample ballots or voter instructions	10	19	22	6	2	1
Identify accessible facilities for potential voting locations	4	4	26	8	4	5
Train election officials on voting access methods for people with disabilities	18	18	20	4	0	2
Improve, acquire, lease, modify, or replace voting systems and technology	18	13	19	6	1	5
Improve the accessibility of polling places, such as improving physical access for people with disabilities and providing non-visual access for people with visual impairments	17	2	20	7	3	5
Establish or maintain state-based administrative complaint procedures	7	20	1	20	2	2
Establish or maintain a toll-free telephone hotline that voters may use to file accessibility complaints or to obtain voter-related information including voter accessibility issues	6	26	4	12	1	6
Conduct pre-election reviews of voting locations for accessibility or accommodations	6	7	22	4	5	9
Conduct audits of voting locations' accessibility or accommodations	8	7	15	7	5	12
Monitor local governments' efforts to address the state's audit findings and implementing corrective actions	6	8	5	10	6	18
Other	1	1	1	4	4	13

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select ALL answers that applied within each row. Some states did not respond to all survey questions.

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

Table 8: States' Responses to GAO 2016 Survey Question: "In your opinion, for the 2016 general election, how challenging, if at all, has it been for your state to ensure voting access for people with disabilities in the following ways?"

	Very challenging	Moderately challenging	Slightly challenging	Not challenging	No opinion	State has not taken this action
Provide voter education to people with disabilities on voting access methods	1	3	25	17	2	1
Provide voting information at voting locations, such as sample ballots or voter instructions	0	1	9	34	2	3
Identify accessible facilities for potential voting locations	3	10	15	7	3	11
Train election officials on voting access methods for people with disabilities	1	5	17	19	3	3
Improve, acquire, lease, modify, or replace voting systems and technology	7	6	11	8	2	14
Improve the accessibility of voting locations, such as improving physical access for people with disabilities and providing non-visual access for people with visual impairments	2	15	11	9	4	8
Establish or maintain a state-based administrative complaint procedures	0	0	4	41	2	2
Establish or maintain a toll-free telephone hotline that voters may use to file accessibility complaints or to obtain voter-related information including voter accessibility issues	0	1	2	36	1	9
Conduct pre-election reviews of voting locations for accessibility or accommodations	2	5	14	10	3	15
Conduct audits of voting locations' accessibility or accommodations	2	7	9	10	4	16
Monitor local governments' efforts to address the state's audit findings and implementing corrective actions	2	4	11	5	6	19
Other activities your state used to help facilitate voting access for people with disabilities	0	1	8	11	10	11

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions.

**Appendix III: Survey of States Actions to
Facilitate Voting Access for People with
Disabilities**

Table 9: States' Responses to GAO 2016 Survey Question: "For the 2016 general election, did your state office perform any of the following oversight activities to ensure local compliance with state and federal requirements for voting accessibility and accommodations?"

	Yes	No	Don't know
Evaluated and verified compliance with state requirements	34	15	0
Inspected Election Day voting location accessibility	18	30	1
Evaluated and verified that localities provide voter education/outreach for people with disabilities	21	26	2
Required certification from county or local election officials that training on voting location accessibility and accommodations was performed	15	33	1
Provided training to county or local election officials to operate a direct recording electronic devices (DRE) or other accessible voting machine	32	17	0
Compiled and analyzed complaints of voting location accessibility issues occurring on Election Day	39	7	3
Investigated or adjudicated local complaints on voting location accessibility and accommodations on Election Day	34	8	7
Other state oversight actions to ensure local compliance with state and federal requirements	11	12	18

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions.

Table 10: States' Responses to GAO 2016 Survey Question: "For the 2016 general election, did your state allow for or require jurisdictions to provide early in-person voting?"

	Number
Yes, the state required jurisdictions to provide early in-person voting	36
Yes, the state allowed jurisdictions to provide early in-person voting	3
No	11
Don't know	0

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer. Some states did not respond to all survey questions.

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

Table 11: States' Responses to GAO 2016 Survey Question: "For early in-person voting, did your state require, allow, prohibit, or not address each of the following accessibility provisions and at voting locations for people with disabilities?"

	State requirement	State allowed but not a requirement	State prohibited	Not applicable	State did not address
Provision of ballot or methods of voting in Braille	6	8	1	2	21
Provision of ballots with larger type	12	11	0	1	15
Provision of magnifying instruments	11	21	0	0	7
Curbside voting available during early in-person voting period	16	9	9	1	3
Voting location accessibility standards	35	3	0	0	1
Inspection of polling place accessibility	18	9	0	1	11
Reporting by local jurisdictions to the state on voting location accessibility	13	11	0	2	13
Accommodation of wheelchairs in voting areas	32	4	0	0	3
Notification to voters of any inaccessible voting locations	13	4	0	4	18
Other accessibility provisions or accommodations	5	2	0	13	12

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions.

Table 12: States' Responses to GAO 2016 Survey Question: "For early in-person voting for the 2016 general election, which of the following statements best describes your state's policy for providing a direct recording electronic (DRE) system or other accessible machine at voting locations used by jurisdictions?"

	Number
State required a direct recording electronic system or other accessible machine at voting locations used by jurisdictions	30
State allowed a direct recording electronic system or other accessible machine at voting locations used by jurisdictions	5
State had no explicit policy for a direct recording electronic system or other accessible machine at voting locations used by jurisdictions	3
State prohibited direct recording electronic systems or other accessible machines at voting locations used by jurisdictions	1
Don't know	0

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer. Some states did not respond to all survey questions. For the purpose of this question, we did not consider the accessibility of the voting booth or voting station as part of an "other accessible machine." Only states that allowed or required jurisdictions to provide early in-person voting responded to this question.

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

Table 13: States' Responses to GAO 2016 Survey Question: "To the best of your knowledge, did your state office take any of the following actions to facilitate private and independent voting for people with disabilities during early in-person voting for the 2016 general election?"

	Yes	No	Don't know
Conducted demonstrations of voting equipment to people with disabilities	20	17	2
Provided election information on accessible voting procedures in advance to people with disabilities	34	4	1
Provided guidance to local election officials on facilitating voting for people with disabilities	36	2	1
Provided training to local election officials on assisting voters with disabilities	35	3	3
Provided specific guidance on positioning voting stations at voting locations to prevent other voters from seeing how voters using the accessible machines were marking their ballots	30	6	3
Coordinated with disability council, Protection Advocate Voting agency (PAVA) or other advocacy groups	30	5	4
Other	2	8	12

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions. Only states that allowed or required jurisdictions to provide early in-person voting responded to this question.

Table 14: States' Responses to GAO 2016 Survey Question: "For early in-person voting for the 2016 general election, did your state obligate or spend any Help America Vote Act (HAVA), state, and/or local funds for any of the following activities to help facilitate voting access for people with disabilities?"

	Yes, we obligated or spent HAVA funds	Yes, we obligated or spent state funds	Localities obligated or spent	No funds were obligated or spent	Don't know	State as not taken this action
Provide voter education to people with disabilities on voting access methods	11	15	15	5	1	3
Provide voter education to people with disabilities on voting access methods	8	15	19	5	2	1
Identify accessible facilities for potential voting locations	3	4	20	5	6	4
Train election officials on voting access methods for people with disabilities	13	14	14	5	1	1
Improve, acquire, lease, modify, or replace voting systems and technology	12	6	15	4	1	8
Improve the accessibility of polling places, such as improving physical access for people with disabilities and providing non-visual access for people with visual impairments	13	4	16	5	4	3
Establish or maintain state-based administrative complaint procedures	6	15	1	13	2	3

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

	Yes, we obligated or spent HAVA funds	Yes, we obligated or spent state funds	Localities obligated or spent	No funds were obligated or spent	Don't know	State as not taken this action
Establish or maintain a toll-free telephone hotline that voters may use to file accessibility complaints or to obtain voter-related information including voter accessibility issues	5	15	4	9	1	7
Conduct pre-election reviews of voting locations for accessibility or accommodations	5	3	19	4	2	9
Conduct audits of voting locations' accessibility or accommodations	4	7	10	6	2	11
Monitor local governments' efforts to address the state's audit findings and implementing corrective actions	3	6	4	6	4	17
Other	2	1	0	2	3	14

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select ALL answers that applied within each row. Some states did not respond to all survey questions.

Table 15: States' Responses to GAO 2016 Survey Question: "In your opinion, how challenging, if at all, has it been to implement the following aspects of Help America Vote Act (HAVA) during early in-person voting in your state for the 2016 general election?"

	Very challenging	Moderately challenging	Slightly challenging	Not challenging	No opinion	State has not taken this action
Interpreting HAVA accessibility requirements	1	1	6	25	5	1
Obtaining federal guidance regarding HAVA accessibility requirements, if needed	0	1	7	15	8	7

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions.

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

Table 16: States' Responses to GAO 2016 Survey Question: "For early in-person voting for the 2016 general election, did your state office perform any of the following oversight activities to ensure local compliance with state and federal requirements for voting accessibility and accommodations?"

	Yes	No	Don't know
Evaluated and verified localities' compliance with state requirements	16	21	1
Inspected early in-person voting location accessibility	12	26	0
Evaluated and verified that localities provide voter education/outreach for people with disabilities	10	27	1
Required certification from county or local election officials that training on voting location accessibility and accommodations was performed	11	27	0
Provided training to county or local election officials to operate a direct recording electronic devices (DRE) or other accessible voting machine	26	11	1
Compiled and analyzed complaints of voting location accessibility issues occurring during early in-person voting	23	12	3
Investigated or adjudicated local complaints on voting location accessibility and accommodations during early in-person voting	24	11	3
Other state oversight actions to ensure local compliance with state and federal requirements	10	9	10

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions. Only states that allowed or required jurisdictions to provide early in-person voting responded to this question.

Table 17: States' Responses to GAO 2016 Survey Question: "In your opinion, for the 2016 general election, has it been more challenging to ensure accessibility for early in-person voting than for Election Day, more challenging to ensure accessibility on Election Day than for early in-person voting, or has there been no difference between early in-person voting and Election Day?"

	More challenging for early in-person voting than on Election Day	Somewhat more challenging for Early in-person voting than on Election Day	No difference between early in-person voting and Election Day	Somewhat more challenging on Election Day than for early in-person voting	More challenging on Election Day than for early in-person voting	No opinion	State has not taken this action
Provide voter education to people with disabilities on voting access methods	1	3	29	1	0	2	2
Provide voting information at voting locations, such as sample ballots or voter instructions	0	2	32	1	1	2	0
Identify accessible facilities for potential voting locations	2	1	16	5	8	2	3

**Appendix III: Survey of States Actions to
Facilitate Voting Access for People with
Disabilities**

	More challenging for early in- person voting than on Election Day	Somewhat more challenging for Early in- person voting than on Election Day	No difference between early in- person voting and Election Day	Somewhat more challenging on Election Day than for earl in-person voting	More challenging on Election Day than for early in-person voting	No opinion	State has not taken this action
Train election officials	1	1	28	2	3	2	1
Improve, acquire, lease, modify, or replace voting systems and technology	1	0	26	0	0	2	9
Improve the accessibility of voting locations, such as improving physical access for people with disabilities and providing non-visual access for people with visual impairments	0	2	22	4	5	2	3
Establish or maintain a state-based administrative complaint procedures process	0	0	32	0	0	3	3
Establish or maintain a toll-free telephone hotline that voters may use to file accessibility complaints or to obtain voter-related information, including voter accessibility issues	0	0	30	0	0	2	6
Conduct pre-election reviews of voting locations for accessibility or accommodations	1	0	18	3	3	4	9
Conduct audits of voting locations' accessibility or accommodations	1	2	17	1	2	4	9
Monitor local governments' efforts to address the state's audit findings and implementing corrective actions	1	2	18	1	2	4	10

Source: GAO survey of state election officials. | GAO-18-4

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions. Only states that allowed or required jurisdictions to provide early in-person voting responded to this question.

Table 18: States' Responses to GAO 2016 Survey Question: "In your opinion, have the following aspects of the Help America Vote Act (HAVA) been more challenging to implement for early in-person voting than for Election Day, more challenging to implement on Election Day than for early in-person voting, or has there been no difference between early in-person voting and Election Day?"

	More challenging for early in- person voting than on Election Day	Somewhat more challenging for early in-person voting than on Election Day	No difference between early in- person voting and Election Day	Somewhat more challenging on Election Day than for early in-person voting	More challenging on Election Day than for early in-person voting	No opinion	State has not taken this action
Interpreting HAVA accessibility requirements	0	1	33	0	0	3	1
Obtaining federal guidance regarding HAVA accessibility requirements, if needed	0	0	28	1	0	6	3

Source: GAO survey of state election officials. | GAO-18-4

Note: Respondents were asked to select one answer per row. Some states did not respond to all survey questions.

Table 19: State-Reported Requirements Concerning the Accessibility of Polling Places: Election Days 2000, 2008 and 2016

State-Reported Requirement	2000	2008	2016
Voting location accessibility standards	23	43	44
Accommodation of wheelchairs in voting areas	17	38	40
Inspection of voting location accessibility	15	34	26
Reporting by local jurisdictions to the state on voting location accessibility	10	29	20

Sources: GAO-09-941 and GAO analysis of data from its 2016 survey of state election officials. | GAO-18-4

Note: Some states did not respond to all survey questions.

**Appendix III: Survey of States Actions to
Facilitate Voting Access for People with
Disabilities**

Table 20: States' Reported Challenges in Implementing Various Aspects of the Help America Vote Act (HAVA), 2008 and 2016

	Very or moderately challenging		Slightly challenging		Not challenging		State has not taken this action	
	2008	2016	2008	2016	2008	2016	2008	2016
Ensuring voting location accessibility	31	16	16	13	3	9	1	6
Purchasing direct recording electronic devices (DRE) or other accessible voting systems	24	11	8	5	15	7	4	20
Providing guidance to counties, cities, or local entities for HAVA-required voting access activities for people with disabilities	20	5	18	13	12	25	1	3
Securing HAVA funding for your state	19	9	13	4	17	16	0	11
Disseminating HAVA funding to counties, cities, or local entities	16	4	12	10	11	17	10	13

Sources: GAO-09-941 and GAO analysis of data from its 2016 survey of state election officials. | GAO-18-4

Note: Some states did not respond to all survey questions.

Table 21: Accommodations That States Reported Requiring Local Jurisdictions to Offer to Voters with Disabilities, as of Election Days 2000 2008 and 2016

Reported Required Accommodations	2000	2008	2016
Curbside voting available on Election Day	28	23	21
Provision of magnifying instruments	7	12	14
Provision of ballots with larger type	2	11	13
Ballot taken to voter's residence on or before Election Day	21	9	27
Provision of ballot or methods of voting in Braille	3	6	9

Sources: GAO-09-941 and GAO analysis of data from its 2016 survey of state election officials. | GAO-18-4

Note: Some states did not respond to all survey questions.

Appendix III: Survey of States Actions to Facilitate Voting Access for People with Disabilities

Table 22: State-Reported Provisions Concerning Accessibility of Polling Places and Accommodations for Individuals with Disabilities, 2008 and 2016

	Required		Allowed		Not Allowed		Not Addressed		Not Applicable ^a		Required or allowed	
	2008	2016	2008	2016	2008	2016	2008	2016	2008	2016	2008	2016
Voting location accessibility standards	43	44	6	4	0	0	0	2	0	n/a	49	48
Inspection of voting location accessibility	34	26	11	13	0	1	4	10	1	n/a	45	39
Reporting by local jurisdictions to the state on voting location accessibility	29	20	12	16	0	0	8	13	0	n/a	41	36
Accommodation of wheelchairs in voting areas	38	40	9	6	0	0	3	4	0	n/a	47	46
Curbside voting available on Election Day	23	21	6	7	12	13	8	9	8	n/a	29	28
Notification to voters of any inaccessible voting locations	16	21	12	5	1	2	20	22	1	n/a	28	26
Provision of ballot or methods of voting in Braille	6	9	14	9	0	1	30	31	30	n/a	20	18
Provision of ballots with larger type	11	13	13	15	0	0	26	22	0	n/a	24	28
Provision of magnifying instruments	12	14	29	25	0	0	9	11	0	n/a	41	39

Sources: GAO-09-941 and GAO analysis of data from its 2016 survey of state election officials. | GAO-18-4

Note: Some states did not respond to all survey questions

^a"Not Applicable" was not a response option for this question for the 2016 survey

Table 23: Reported Changes in State Requirements Concerning Alternative Voting Methods from the 2000, 2008 and 2016

Methods and accommodations	2000	2008	2016
Absentee/mail voting	51	51	49
Curbside voting available on Election Day	28	29	28
Ballot taken to voter's residence on or before Election Day	21	24	27
Early In-Person voting ^a	39	23	39

Sources: GAO-09-941 and GAO analysis of data from its 2016 survey of state election officials | GAO-18-4

^aIn our report on the 2000 general election (GAO-02-107), we did not identify states that offered early voting as part of our analyses, as we defined it in later reports (2004 general election: see GAO-06-450). Rather we reported on the absentee and early voting together. For our 2016 report, we define early in-person voting as a method of voting by which any voter may cast a ballot in person prior to Election Day without providing an excuse. For the purposes of this questionnaire, early in-person voting includes completing an absentee or mail ballot in-person at a voting location (as defined in this questionnaire), which is also known as "in-person absentee" voting in some states. Some states did not respond to all survey questions.

Appendix IV: Comments from the Department of Justice



U.S. Department of Justice
Civil Rights Division

Office of the Assistant Attorney General
950 Pennsylvania Ave, NW - RPK
Washington, DC 20530
Telephone (202) 514-2151

August 25, 2017

Rebecca Gambler
Director, Homeland Security and Justice
U.S. Government Accountability Office
441 G Street, N.W.
Washington, D.C. 20548

Dear Ms. Gambler:

Thank you for the opportunity to review the final draft of the Government Accountability Office (GAO) report entitled, "*VOTERS WITH DISABILITIES: Observations on Polling Place Accessibility and Related Federal Guidance, GAO-18-4*." This draft report was reviewed by the components of the Department of Justice that participated in this review, specifically the Voting Section and the Disability Rights Section within the Civil Rights Division. This letter constitutes the Department's formal comments, and we request that the GAO include this letter in the final report.

The Department greatly appreciates the efforts of GAO staff in reviewing issues related to the rights of voters with disabilities in federal elections, including the accessibility of polling places and voting systems. We also appreciate the opportunity to work once again with your staff on these important issues. The right to vote is the cornerstone of our democracy and the Department is committed to ensuring that the right to vote is secure for all eligible voters in our country, including our citizens with disabilities.

Before responding directly to the recommendation contained in the draft report, we believe it is important to provide background on the Department's extensive and continuing efforts to enforce the protections for voters with disabilities found in federal law, including the Americans with Disabilities Act of 1990, as amended (ADA), the Help America Vote Act (HAVA), and the National Voter Registration Act (NVRA), to name a few. Over two years ago, the Department launched the ADA Voting Initiative, a collaboration between the Civil Rights Division and United States Attorneys' Offices from across the country, to focus our enforcement efforts on increasing the accessibility of voting locations for people with disabilities. Through this initiative, the Department has worked with a number of jurisdictions to improve polling place accessibility and the accessibility of the ballot. In fact, over the past few years, Department staff have surveyed well over 1300 polling places in more than 60 counties and cities, to determine whether the facilities are physically accessible to voters with disabilities. We have reached agreements with counties and cities, both big and small, and most recently in Chicago, Illinois, Chesapeake, Virginia, and Richland County, South Carolina, to ensure that people with disabilities can access and use all of their voting facilities.

Appendix IV: Comments from the Department of Justice

In addition to the ADA Voting Initiative with U.S. Attorneys' Offices, the Civil Rights Division continues to review polling place accessibility through its Project Civic Access. Recently, the Division obtained an agreement with Augusta County, Virginia that focused on polling place accessibility. The Division has reviewed other aspects of state and local voting locations, including the provision of accessible voting systems. Most recently, the Division reached an agreement with the Palm Beach County Supervisor of Elections in Palm Beach County, Florida, to improve the accessibility of the voting system used by the County in federal, state, and local elections. The Department will continue its enforcement efforts in this area and will continue to act on potential violations of federal law with respect to the voting rights of people with disabilities.

The Department has also expanded the guidance we provide on the rights of voters with disabilities, publishing *The Americans with Disabilities Act and Other Federal Laws Protecting the Rights of Voters with Disabilities* and *Solutions for Five Common ADA Access Problems at Polling Places*, and updated our *ADA Checklist for Polling Places*. We post many of our agreements and letters of findings on our website, www.ada.gov.

GAO's draft report recommends that the Department "study the implementation of federal accessibility requirements in the context of early in-person voting and, as necessary, make changes to existing guidance." The Department agrees generally with this recommendation. The Department will study the implementation of federal laws protecting the rights of voters with disabilities in the context of early in-person voting and make changes to that guidance where necessary.

Again, we appreciate the extensive time and resources that you and your staff have put into this report and the opportunity to work with GAO on these very important issues.

Sincerely,



John Gore
Acting Assistant Attorney General

cc: Richard Theis
Director, Audit Liaison Group

Appendix V: Comments from the Election Assistance Commission



U.S. ELECTION ASSISTANCE COMMISSION
1335 EAST-WEST HIGHWAY, SUITE 4300
SILVER SPRING, MD 20910
BRIAN D. NEWBY, EXECUTIVE DIRECTOR

August 28, 2017

Ms. Barbra D. Bovbjerg
Managing Director, Education, Workforce and Income Security

Ms. Rebecca Gambler
Director, Homeland Security and Justice Issues

The U.S. General Accountability Office
441 G Street, NW
Washington, DC 20548

Dear Ms. Bovbjerg and Ms. Gambler:

The U.S. Election Assistance Commission (EAC) is grateful for the opportunity to review the General Accountability Office (GAO) draft report titled "Voters with Disabilities: Observations on Polling Place Accessibility and Related Federal Guidance" (100921).

The EAC appreciates the GAO's comprehensive research efforts related to election administration and voters with disabilities. Since the inception of the Help America Vote Act (HAVA) nearly 15-years ago, the GAO has provided invaluable research to advance voting accessibility across the United States. This report provides important contributions in the areas of polling place accessibility, the assessment of accessible early in-person voting, and actions states have taken to meet the HAVA requirements of providing private and independent election systems for people with disabilities.

Since the establishment of the EAC, the Commission has worked closely with election officials and others in the elections community to promote HAVA's accessibility requirements and to

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bnewby@eac.gov

Appendix V: Comments from the Election Assistance Commission

foster a climate of understanding throughout the country. The commission assists voters with disabilities by empowering and supporting accessibility advances with policy initiatives, voting system certification, outreach efforts, grants, and funding. The EAC provides the following resources for both election officials and voters with disabilities.

PROMOTING AWARENESS: The EAC works closely with election officials to promote HAVA's access requirements. In support of this effort, the commission also engages voters with disabilities, who provide vital feedback that informs election system and administration improvements. For example, leading up to the 2016 election, the EAC held a widely attended field hearing in Boston, Mass., where voters with disabilities provided testimony to help the EAC improve the election process. During its #BeReady16 campaign, the EAC also distributed more than 10,000 federal voting rights cards in Braille, large print, and plain language. These efforts continue today through forums to interact with voters with disabilities and through the distribution of EAC outreach materials to election officials, voters, and advocacy organizations across the U.S.

ELECTION SYSTEM CERTIFICATION: The EAC's Testing and Certification program is the most successful and most implemented voting machine testing and certification program in the nation. It works directly with expert stakeholders to ensure voters with disabilities have access to election systems that meet stringent national standards. The guidelines significantly increase overall requirements for voting systems and expand access, including opportunities to vote privately and independently, for individuals with disabilities. The next iteration of the Voluntary Voting System Guidelines (VVSg) contains expanded requirements covering security, reliability, quality, usability, accessibility, and testing. In order to ensure a development process informed by a cross-section of all American voters, the EAC recently established VVSg public working groups focused on a variety of election-related topics, including human factors and accessibility.

RESEARCH AND DEVELOPMENT: Through the Accessible Voting Technology Initiative (AVTI), a recently completed \$8 million EAC grant program to assist both election officials and voters with disabilities, the EAC and its grantees produced approximately 45 R&D technological and administrative solutions designed to ensure all citizens can vote privately and independently. Under this effort, the EAC also conducted research to help veterans with disabilities in the voting process. For further information and grant reports, please visit: <https://www.eac.gov/payments-and-grants/accessible-voting-technology-initiative/>

In the report's conclusion, GAO states, "our work examining the accessibility of polling places for voters with disabilities during the 2000, 2008, and 2016 general elections points to the need for additional progress to help voters with disabilities enter and move through polling places, access voting systems, and cast a private and independent vote." The GAO's report will be an invaluable resource to the EAC and election officials as we continue to develop, implement, and evaluate effective election administration practices that ensure voting accessibility.

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bnewby@eac.gov

Appendix V: Comments from the Election
Assistance Commission

The GAO's report makes clear that while some positive results have been achieved, much work remains to be done to meet the full promise of HAVA. Moving forward, the EAC will use this report and ongoing feedback from voters with disabilities, advocacy organizations, election officials, and others to seek progress. The elections community must ensure that voters with disabilities have access to a private and independent vote.

The EAC appreciates the opportunity to provide information for this report. Please do not hesitate to contact me if you need further information or have any questions regarding our activities on voting accessibility.

Sincerely,

A handwritten signature in blue ink, appearing to read "B. Newby".

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Appendix VI: GAO Contacts and Staff Acknowledgments

GAO Contacts

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Rebecca Gambler, (202) 512-8777 or GamblerR@gao.gov

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In addition to the contacts above, the following staff members made significant contributions to this report: Brett Fallavollita (Assistant Director), James Whitcomb (Analyst in Charge), Daniel Bertoni, Anna Duncan, Rebecca Kuhlmann Taylor, Shelia Thorpe, and John Vocino.

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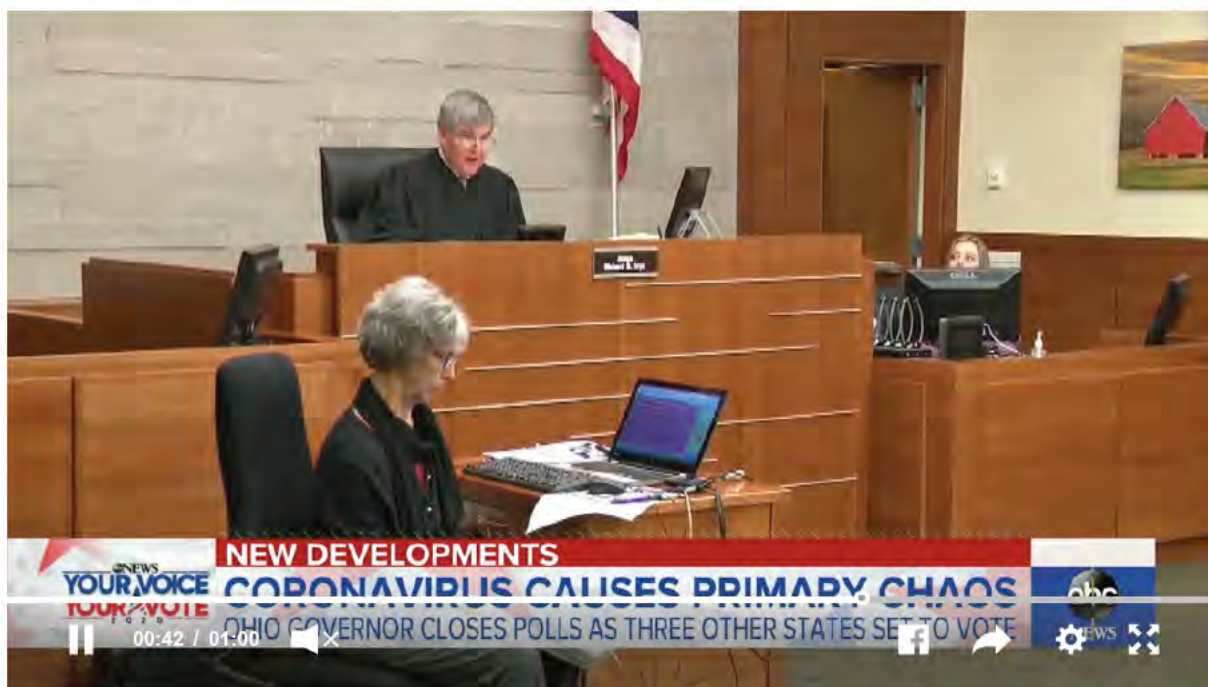
EXHIBIT 44

The Note: Voting in age of coronavirus gets uncertain test runs

Life should return to normal, but voting is likely to never look the same.

By **Rick Klein** and **MaryAlice Parks**

March 31, 2020, 6:02 AM • 7 min read



Primaries and voting chaos amid coronavirus

The outbreak is affecting millions set to go to polls to vote in presidential primaries.

The TAKE with [Rick Klein](#)

Life will presumably return to normal someday. Voting, though, is likely to never look the same.

Amid broad concerns about voting access, and in a year that saw a caucus debacle in Iowa, the way Americans vote was already shifting. Then the national emergency surrounding [coronavirus](#) blew up the [Democratic primaries](#) as we knew them.

How the pieces fit back together is uncertain, given the patchwork of voting laws and conflicting political urgencies that make shifting dates and voting methods near-impossible on a moment's notice.

A smattering of local runoffs in Arkansas on Tuesday will bring the first significant in-person voting since the nation essentially went on lockdown. Amid legal challenges and conflicting messaging from state and local authorities, it's expected to be an almost-normal election day, albeit one with low turnout expected.

Next week's primary voting in Wisconsin will be a bigger -- and more controversial -- lift. It has drawn five lawsuits and counting, as Democrats look to expand registration and absentee voting, and local officials seek to minimize voters' risk of exposure.



 A voter fills out a ballot during the primary election in Ottawa, Ill., March 17, 2020. The polling station was relocated from a nearby nursing... [more](#)

Daniel Acker/Reuters

As for taking such efforts national by November, President Donald Trump on Monday was unusually blunt in explaining why he opposed vote-by-mail and absentee-voting expansions as part of the latest relief package.

"The things they had in there were crazy," the president told Fox News about Democrats' funding requests. "They had things, levels of voting, that if you ever agreed to it, you'd never have a Republican elected in this country again."

The novel [coronavirus](#) does not respect political boundaries, though they are sometimes being accentuated in red-versus-blue talk of the moment. But even discussing changes to the voting process is exposing political divides that won't heal when the country is well again.

Tune into ABC at 1 p.m. ET and ABC News Live at 4 p.m. ET every weekday for special coverage of the novel coronavirus with the full ABC News team, including the latest news, context and analysis.

The RUNDOWN with [MaryAlice Parks](#)

The American people have gone to [war against the coronavirus](#), the question is, should there still be more of a unified offensive instead of hundreds of local battles.

The crisis has brought shared experiences, of course: layoffs, [furloughs](#) and kids at home. It's a new normal for people in all states.

There have been amazing examples of giving and charity across state lines: Supplies sent to hard-hit cities and medical professionals bravely leaving their home states to travel to the frontlines where their [expertise will save lives](#) as the number of cases and hospitalizations surge.

But as Trump continues to see politics everywhere, he makes it hard for a hurting nation to feel joined together.

On a phone call with governors, Montana Gov. Steve Bullock told the White House that they did not have the necessary tests to adequately trace infections and keep the spread at bay. The president replied that he had not heard there was a problem and praised the number of tests done in other places. Speaking later to reporters he relished in his impression that governors were "saying thank you."

Monday he also called House Speaker Nancy Pelosi a sick puppy and her district a "slum."



 New York governor Andrew Cuomo speaks as the USNS Comfort pulls into a berth in Manhattan during the outbreak of coronavirus disease... [more](#)

Carlo Allegri/Reuters

New York Gov. Andrew Cuomo urged the country to look past any political differences, "We are at war, there is no politics. There is no red and blue, it's red, white and blue," he said and hopefully more in Washington heard him.

THE TIP with Meg Cunningham

Voting is slated to take place in 12 Arkansas counties on Tuesday for primary runoff elections, despite heightened concerns over the coronavirus and its spread. It will be the first day of in-person voting since the March 17 elections and poll workers have taken precautions.

In Grant County, voters will have their temperatures taken before casting their ballots and will only be allowed into the polling site one at a time. In Jefferson County, the clerk is setting up drive-thru voting at her office so that voters can remain in their vehicles and the poll workers -- wearing gloves and a mask -- can collect the ballots.

"Runoff elections aren't heavily attended anyway," a Benton County employee told ABC News before adding that she doesn't expect a high turnout on Tuesday based on "the fact that we have had an incredibly large number of absentee ballot requests."



 An election worker moves boxes of vote-by-mail ballots for the presidential primary at King County Elections in... [more](#)

Jason Redmond/AFP via Getty Images, FILE

The day will be a test of how voting could look come November, as the coronavirus continues to [upend elections nationwide](#).

THE PLAYLIST

ABC News' "Start Here" podcast. Tuesday morning's episode features ABC News Chief Business and Economics correspondent Rebecca Jarvis, who lays out our new economic reality as we face at least 30 more days of restrictive recommendations from the federal government. And, ABC News Chief Medical correspondent Dr. Jennifer Ashton answers a common question: should we all be wearing masks? <http://apple.co/2HPocUL>

Five Thirty Eight Politics Podcast. In recent days, President Donald Trump's approval rating has hit its highest point since the early days of his presidency. The FiveThirtyEight Politics Podcast team discusses why and suggests it may not be a good longterm indicator for the president. They also discuss where exactly we are in the arc of the COVID-19 crisis and explain the political debate surrounding the Defense Production Act.

<https://53eig.ht/2Jb12X2>

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 Comments (5)



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EXHIBIT 45



ELECTIONS

Ohio offering curbside voting, extending absentee deadline for those in hospital in wake of coronavirus

Rick Rouan Columbus Dispatch

Published 11:03 a.m. ET Mar. 16, 2020 | Updated 11:07 a.m. ET Mar. 16, 2020

COLUMBUS, Ohio – Ohio will extend the deadline for requesting absentee ballots for voters who are “unforeseeably confined or hospitalized” and offer curbside voting for anyone concerned about entering their polling place as the state’s primary election rolls on during the global COVID-19 pandemic.

Ohio Secretary of State Frank LaRose issued a directive Saturday to local boards of election alerting them to the changes. A press conference about changes to voting on Tuesday was delayed from 10 a.m. to 2 p.m. to coincide with Gov. Mike DeWine’s daily press briefing

Under the directive, boards of elections must accept and process absentee ballot requests until 3 p.m. on Election Day for voters who are told by a health care professional to stay home or to isolate. The previous deadline was noon on Saturday.

Ballots must be returned to the board of elections office by the close of polls on Election Day.

More: Four states head to the polls Tuesday. Here's how coronavirus is changing Election Day.

Boards also must offer curbside voting at precinct polling locations for voters who are concerned about going inside the voting location if the person sends someone else in to inform them about their desire to vote.

A third part of the directive includes a recommendation from the Ohio Department of Health that voters in line be spaced apart at least 4 feet and to spread voting machines apart “as much as possible within the polling location.”

Confirmed cases of COVID-19 have been multiplying in Ohio as more people are tested. As of Sunday afternoon, Ohio has 37 confirmed cases of COVID-19, including three in Franklin County,

and another 361 are under investigation.

Gov. Mike DeWine has signed orders to ban gatherings of 100 or more people and on Sunday moved to close dine-in restaurants and bars, but the orders so far have not applied to voting on Election Day.

Voting rights groups have been urging LaRose's office to loosen restrictions on absentee voting and temporarily change other rules to make it easier for people to vote during the COVID-19 outbreak.

Louisiana and Georgia both have postponed their primary elections, but LaRose joined secretaries of state in Arizona, Florida and Illinois on Friday to say that their state's primaries would go on as scheduled Tuesday.

On Sunday, the League of Women Voters and two other groups wrote a letter asking LaRose to issue a temporary directive that would allow voters to designate an individual who can pick up and drop off absentee ballots, extend the postmark deadline for absentee ballots to election day instead of the day before polls open and permit voters or designees to drop off completed ballots at any polling location in the county.

Those groups also want the deadline to request an absentee ballot to be extended to 3 p.m. on Election Day for those who are "susceptible to COVID-19," those at higher risk of contracting the virus and those whose polling places were moved.

Last week, LaRose directed county boards of elections to move about 125 polling places out of senior living facilities and to notify voters who would be affected by the shift. Franklin County relocated 16 polling locations.

More: Biden, Sanders trade policy and historical jabs in Democratic debate filled with coronavirus questions

The latest request came after a coalition of voting rights organizations on Friday asked LaRose to extend hours for in-person early voting and to accept absentee ballots received more than 10 days after the election.

LaRose responded late Friday, saying that some of the coalition's requests already were in place while others would require a change in state law. The Ohio General Assembly would have to modify state law to extend the deadline to accept absentee ballot applications and to require mailing absentee ballots to all active voters who have not requested one, he wrote.

Voting machine manufacturers also have provided information about how to sanitize machines, and local boards of elections have received information from health officials about hand-washing, they wrote.

Voting machine manufacturers have instructed elections officials on how to sanitize their equipment, and LaRose's office has said it will reimburse local boards of elections for buying disinfecting wipes, disposable gloves and other sanitizing supplies.

Polls open Tuesday at 6:30 a.m. and close at 7:30 p.m. Voters in line at 7:30 p.m. will be allowed to cast a ballot.

EXHIBIT 46



3 Easy Steps:

1. **Click** Start Now
2. **Access** Streaming Sites
3. **Free** Access - No Sign Up!

Watch TV Now

Early voting: Where you can still cast a ballot in-person before the April 7 election in the Milwaukee area

Milwaukee Journal Sentinel Published 2:05 p.m. CT March 31, 2020 | Updated 7:50 a.m. CT April 2, 2020

Gov. Tony Evers, elected officials throughout Wisconsin and municipal clerks statewide are urging voters to seek a mail-in absentee ballot, which can be done at [www.myvote.wi.gov](https://myvote.wi.gov/en-us/) (<https://myvote.wi.gov/en-us/>). Nevertheless, in-person absentee voting is still available in communities throughout the Milwaukee area.

Here is [more information on how to vote absentee](https://www.jsonline.com/story/news/politics/2020/03/13/coronavirus-wisconsin-how-vote-absentee-amid-outbreak/5042700002/) ([/story/news/politics/2020/03/13/coronavirus-wisconsin-how-vote-absentee-amid-outbreak/5042700002/](https://www.jsonline.com/story/news/politics/2020/03/13/coronavirus-wisconsin-how-vote-absentee-amid-outbreak/5042700002/)).

For voters worried about getting a mail-in ballot in time and are willing to take precautions and vote in-person before Tuesday's election, here is a rundown of arrangements individual communities have taken:

RELATED: [How to get an absentee ballot in Wisconsin during the coronavirus outbreak](https://www.jsonline.com/story/news/politics/2020/03/13/coronavirus-wisconsin-how-vote-absentee-amid-outbreak/5042700002/) ([/story/news/politics/2020/03/13/coronavirus-wisconsin-how-vote-absentee-amid-outbreak/5042700002/](https://www.jsonline.com/story/news/politics/2020/03/13/coronavirus-wisconsin-how-vote-absentee-amid-outbreak/5042700002/)).

RELATED: [The April 7 election is still set to take place. Here's what we know so far](https://www.jsonline.com/story/news/politics/elections/2020/03/23/heres-what-we-know-voting-april-7-amidst-coronavirus-crisis/2877409001/) ([/story/news/politics/elections/2020/03/23/heres-what-we-know-voting-april-7-amidst-coronavirus-crisis/2877409001/](https://www.jsonline.com/story/news/politics/elections/2020/03/23/heres-what-we-know-voting-april-7-amidst-coronavirus-crisis/2877409001/)).

Milwaukee County

Several Milwaukee County communities, including all of the North Shore suburbs, are limiting in-person absentee voting by appointment only through 5 p.m. Friday. In those communities, contact your municipal clerk for information.

Elsewhere:

Cudahy: 7:30 a.m. to 4:30 p.m. through Thursday, 7:30 a.m. to 5 p.m. Friday at City Hall, 5050 S. Lake Drive.

Franklin: 9 a.m. to 3 p.m. Wednesday and Thursday, 8:30 a.m. to 5 p.m. Friday at City Hall, 9229 W. Loomis Road.

Greendale: 8 a.m. to 4 p.m. Friday, April 3, Village Hall, 6500 Northway.

Greenfield: 8 a.m. to 5 p.m. through Friday at City Hall, 7325 W. Forest Home Ave.

Hales Corners: 10 a.m. to 7 p.m. Monday through Thursday, 8 a.m. to noon Friday in the Village Hall board room, 5635 New Berlin Road, with a limit of five voters at a time.

Milwaukee: Drive-up absentee voting 8 a.m. to 5 p.m. through Friday, 10 a.m. to 3 p.m. Saturday and Sunday, at the Zeidler Municipal Building, 841 N. Broadway.

St. Create a **FREE** account to stay connected and informed about your local community. ward Ave.

South Milwaukee: 7:30 a.m. to 4 p.m. through Thursday, 7:30 a.m. to 5 p.m. Friday at City Hall, 2424 15th Ave.

Wauwatosa: 8 a.m. to 4:30 p.m. Wednesday and Friday; 8 a.m. to 6 p.m. Tuesday and Thursday at City Hall, 7725 North Ave. Please stay six feet apart while in line.

West Allis: Drive-through only, 9 a.m. to 3 p.m. through Thursday 8 a.m. 5 p.m. Friday at City Hall, 7525 W. Greenfield Ave. Voters are encouraged to bring their own black ballpoint pen.

West Milwaukee: 8 a.m. to 4:30 p.m. through Wednesday, April 1; 8 a.m. to 5 p.m. Thursday and Friday at Village Hall, 4755 W. Beloit Road.

The Milwaukee Journal Sentinel and USA TODAY NETWORK-Wisconsin are providing this story for free. For more coronavirus coverage, sign up for our [daily newsletter \(http://bit.ly/JScoronaviruswatch\)](http://bit.ly/JScoronaviruswatch). To support local journalism, consider [subscribing to one of our publications. \(https://offers.usatodaynetwork.com/network-regional-wisconsin\)](https://offers.usatodaynetwork.com/network-regional-wisconsin).

Live Updates: [The latest on coronavirus in Wisconsin \(https://www.jsonline.com/story/news/2020/04/02/coronavirus-wisconsin-latest-updates-cases-cancellations/5110491002/\)](https://www.jsonline.com/story/news/2020/04/02/coronavirus-wisconsin-latest-updates-cases-cancellations/5110491002/)

Daily Digest: [What you need to know about coronavirus in Wisconsin \(https://www.jsonline.com/story/news/2020/03/09/coronavirus-wisconsin-current-numbers-and-latest-news/4997376002/\)](https://www.jsonline.com/story/news/2020/03/09/coronavirus-wisconsin-current-numbers-and-latest-news/4997376002/)

Ozaukee County

Belgium: Drive-up voting is available at Village Hall 1 to 4 p.m. Wednesday and Thursday.

Cedarburg: 8 a.m. to noon Tuesday, March 31; 3 p.m. to 5 p.m. Thursday, April 2; and 3 p.m. to 5 p.m. Friday, April 3 at City Hall, W63 N645 Washington Avenue.

Town of Cedarburg: 8 a.m. to 4:30 p.m. through April 2, and from 8 a.m. to 5 p.m. on April 3 at Town Hall, 1293 Washington Ave.

Fredonia: During business hours in the village clerk's office, 242 Fredonia Ave.

Grafton: 8 a.m. to noon March 31; noon to 4 p.m. April 1 at Village Hall, 860 Badger Circle. Voters should enter through the northeast door. Only two voters will be allowed in the room at a time. Those in line to vote will be asked to stand at least 6 feet apart. Voters should also bring their own black pen.

Town of Grafton: 8:30 a.m. to 4:30 p.m. through April 3. Voters should bring their own blue or black pen.

Mequon: 8 a.m. to 4:30 p.m. through April 2; 8 a.m. to 5 p.m. April 3 in the council chambers at City Hall, 11333 N. Cedarburg Road.

Port Washington: 8 a.m. to 4 p.m. through April 3 at Port Washington City Hall, 100 W. Grand Ave. Voters should bring their own blue or black pen.

Saukville: Village Hall, 639 E. Green Bay Ave., remains open for in-person absentee voting and voter registration. Regular office hours are 8 a.m. to 5 p.m. through Friday. Village Hall is closed to all other business.

Thiensville: 8 a.m. to 4:30 p.m. through Friday; 8 a.m. to 5 p.m. on April 2. Three booths are available and no more than three people are permitted to vote at any given time.

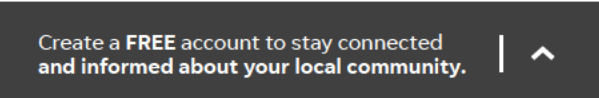
Washington County

Erin: 8 a.m. to noon, 1 to 4 p.m. through Thursday, noon to 5 p.m. Friday at 1846 State Highway 83. Please stand six feet apart.

Germantown: 7:30 a.m. to 6 p.m. Wednesday and Thursday; 8 a.m. to 4:30 p.m. Friday.

Hartford: 7:30 a.m. to 4:15 p.m. through Friday at City Hall Council Chambers, 109 N. Main St.

Jackson: 8 to 4:30 p.m. through Friday at Village Hall, W194-N16660 Eagle Drive.

Ke  St.

Richfield: Drive-through voting 8 a.m. to 4 p.m. through Thursday, 8 a.m. to 5 p.m. Friday at Village Hall, 4128 Hubertus Road.

Slinger: 8:15 a.m. to 4:30 p.m. through Friday at Village Hall, 300 Slinger Road.

West Bend: 8 a.m. to 4:30 p.m. through Thursday, 8:30 a.m. to 5 p.m. Friday at City Hall, 1115 S. Main St.

Waukesha County

Big Bend: 8 a.m. to 4 p.m. through Thursday; 8 a.m. to 5 p.m. Friday, April 3 at Big Bend Village Hall, W230 S9185 Nevins St.

Brookfield: 8 a.m. to 5 p.m., through Friday. Staff will be mandating social distancing while in line, limiting the number of voters in line within the building. They might ask residents to wait outside the building.

Town of Brookfield: 8 a.m. to 4:30 p.m. through Friday.

Butler: 8 to 4 p.m. through Thursday; 8 a.m. to 5 p.m. Friday. In-person voters are asked to stand a proper distance from each other to help protect our elderly and high-risk populations from the potential spread of COVID-19. Hours are subject to change, and the village officials will post updates on its [Facebook page](https://www.facebook.com/villagebutler/) (<https://www.facebook.com/villagebutler/>), www.facebook.com/villagebutler (<https://www.facebook.com/villagebutler/>), and [website](https://www.butlerwi.gov/), (https://www.butlerwi.gov) www.butlerwi.gov (<https://www.butlerwi.gov/>).

Eagle: 8 a.m. to 4 p.m. Tuesday and Thursday; 8 a.m. to 6 p.m. Wednesday; 8 a.m. to 1 p.m. Friday, at Eagle Municipal Building, 820 E. Main St.

Town of Eagle: 9 a.m. to 4 p.m. through Thursday; 9 a.m. to noon Friday at Eagle Municipal Building, 820 E. Main St.

Elm Grove: 8 a.m. to 4:30 p.m. through Friday April 3 at Village Hall. Only one person at a time will be able to come to the counter. Staff will be cleaning the counter and voting booths every hour and will have sanitizing wipes and gels available.

Lac La Belle: The village is not doing any in-person absentee voting (and never does, according to clerk Lori Boyer). Residents should email their application for an absentee ballot, with a picture of a valid photo ID, to Boyer at ljbvllb@yahoo.com.

Lannon: 8 a.m. to 4 p.m. through Thursday, and 8 a.m. to noon on Friday. People can bring their own pen.

Town of Lisbon: 8:30 a.m. to 5 p.m. April 2 and 3 at Town Hall, W234 N8676 Woodside Road

Merton: Village Hall conference room will be open from 9 a.m. to 5 p.m. for absentee voting. The village will remain on this schedule unless advised by the state of any changes made to the timing of the upcoming election. Residents should limit their time in the building to in-person absentee voting only and practice social distancing and proper sanitation.

Town of Merton: Town Hall, W314-N7624 Highway 83, will be open 9 a.m. to 1 p.m. through Friday for in-person absentee voting.

Menomonee Falls: 8 a.m. to 7 p.m. Tuesday; 8 a.m. to 5 p.m. Wednesday through Friday. To provide social distancing, a police aide will be at the door to Village Hall and will provide correct spacing to vote and monitoring the number of people voting.

Town of Mukwonago: 8:30 a.m. to 1:30 p.m. through Friday at Town Hall, W320-S8315 Beulah Road. (Note, due to the coronavirus threat, in-person absentee ballot voters will be required to stay in their cars, which will be attended to by an election inspector who will provide voting instructions.)

Mukwonago: 8 a.m. to 5 p.m. through Thursday; 8 a.m. to noon Friday at Village Hall, 440 River Crest Court.

Muskego: 8 a.m. to 4:30 p.m. Wednesday, and 8 a.m. to 5 p.m. Thursday and Friday at City Hall, W182-S8200 Racine Ave.

New Berlin: 8 a.m. to 4:30 p.m. through Wednesday; 8 a.m. to 5 p.m. Thursday and Friday, City Hall, 3805 S. Casper Drive.

North Prairie: 9 a.m. to 5 p.m. through Friday at Village Hall, 130 N. Harrison St.

Oconomowoc Lake: 8 a.m. to 2 p.m. Tuesday and Wednesday; 8 a.m. to 5 p.m. Thursday and Friday at Village Hall, 35328 West Pabst Road, Oconomowoc.

Ottawa: 8 a.m. to 4 p.m. through Friday, Town Hall, W360-S3337 State Road 67, Dousman.

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Pewaukee: 8 a.m. to 3 p.m. through Friday at City Hall, W240-N3065 Peaukee Road. The number of voters will be limited to four at any given time and each voter will be given a pen to take with them or throw away after voting.

Village of Pewaukee: 8 a.m. to 4:30 p.m. through Thursday; 8 a.m. to 5 p.m. Friday. Absentee voting in residential care facilities has been canceled. Wards 1-5 vote at Gethsemane United Methodist Church at 642 Main St., Pewaukee. Wards 6-10 vote at Pewaukee Village Hall, 235 Hickory St., Pewaukee.

Summit: 8 a.m. to 4 p.m. through Friday at Village Hall, 37100 Delafield Rd.

Sussex: 8 a.m. to 5 p.m. through Friday. To avoid crowds, village officials re encouraging residents to avoid coming during lunch hour. People can bring their own pen.

Vernon: 8 a.m. to 4 p.m. through Thursday, until 5 p.m. on Friday. Staff is asking that residents seal their envelope using a glue stick, or by lightly moistening the flap with tap water. They're asking that residents refrain from licking the envelope.

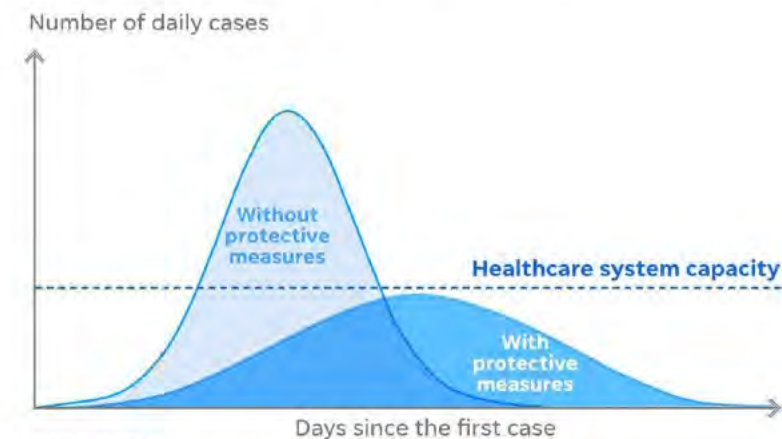
Waukesha: By appointment only. Call (262) 524-3550.

Town of Waukesha: 8 a.m. to 4 p.m. through Friday. Staff will make sure residents stay six feet apart from each other if there is a line.

Compiled by Now News Group, Milwaukee Journal Sentinel staff.

What it means to 'flatten the curve'

If left unchecked, infections can generate a large number of cases at the start of an epidemic. This huge spike presents a problem. It means there are many people with the potential to infect many more people. A health care system dealing with this type of threat can easily become overwhelmed. One strategy to counter fast-moving viruses is known as "flattening the curve." In short, limit social interaction and you'll limit viral transmission. With nowhere to go, the virus will spread more slowly, making it easier to manage resources.



SOURCE: CDC

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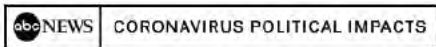




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EXHIBIT 47

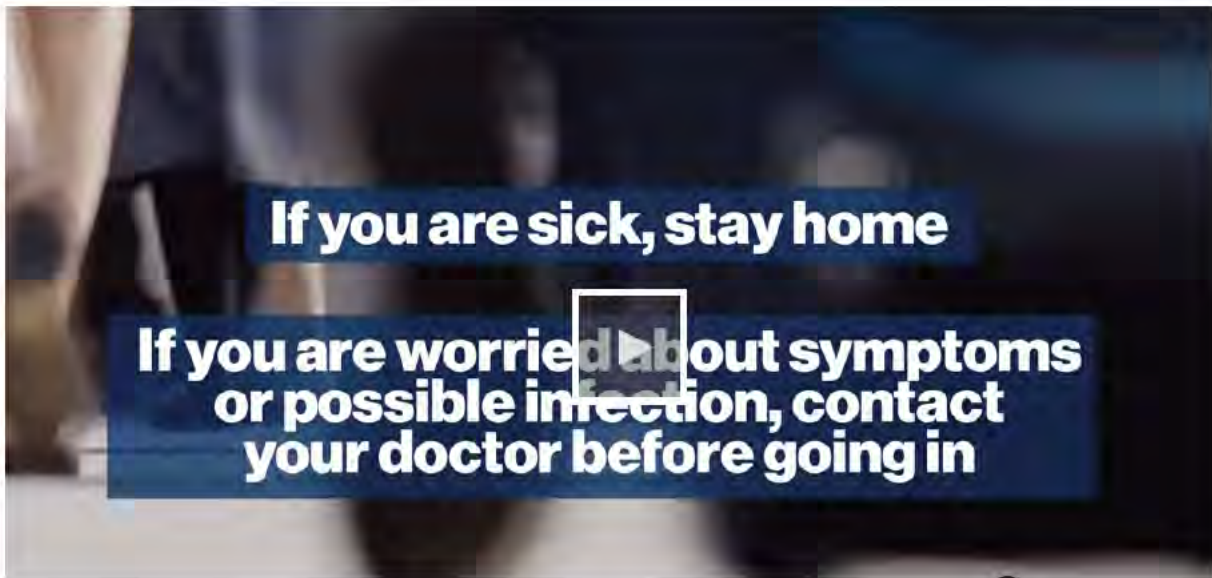


States focus on alternatives to in-person voting as they move forward with primaries amid coronavirus pandemic

"It just so happened we were prepared for a pandemic," Wyoming Democrats said.

By **Quinn Scanlan**

March 20, 2020, 4:12 AM • 14 min read



Coronavirus daily update: March 19, 2020

Early cases of COVID-19 are believed to be linked to a live-animal market in Wuhan, China.

While six states have postponed their upcoming presidential primaries amid the [coronavirus pandemic](#), several others have yet to pull the trigger, either continuing to weigh making the change to an [election](#) that's been on the books for months or promoting alternative options voters have that can keep them from the polls on Election Day.

Louisiana, Georgia, Kentucky, Ohio, Maryland and Connecticut have all opted to reschedule their elections, and in Puerto Rico, legislation to

change the date has passed in the territory's Senate and House of Representatives and is now awaiting the governor's signature, which the chairman of the Democratic Party of Puerto Rico anticipates will happen by mid-day Friday.

+ MORE: Coronavirus cases on Capitol Hill renew lawmakers' push for remote voting

After Ohio postponed its primary in the 11th hour, Democratic National Committee Chairman Tom Perez urged states to encourage other voting options, rather than cancel primaries.

"Eligible voters deserve certainty, safety, and accessibility," Perez said in a statement. "That's why states that have not yet held primary elections should focus on implementing the aforementioned measures to make it easier and safer for voters to exercise their constitutional right to vote, instead of moving primaries to later in the cycle when timing around the virus remains unpredictable."



 Tom Perez, Chair of the Democratic National party, is interviewed as he checks out caucusing at the Bellagio Hotel in Las Vegas, Feb. 22, 2020.

Frederic J. Brown/AFP via Getty Images

For Alaska, Hawaii and Wyoming, the next three contests on the calendar for Democrats, all three already had options in addition to in person voting available before the virus outbreak.

"We're really pretty proud of ourselves for how well this has come together. It just so happened we were prepared for a pandemic," said Nina Hebert, communications director for the Wyoming Democratic Party, which canceled its in-person caucus set for April 4, but has two other methods still moving forward: vote-by-mail and ballot drop off.

Ballots have already gone out to every Democrat who registered to vote-by-mail. While originally, these had to be postmarked by Friday and received by March 28, the state party has asked the DNC if it can accept ballots postmarked later, as long as they are received by April 2, in an effort to accommodate more people.

Voters can fill out and drop off the rank-choice ballots on March 28 and April 4 at locations in all 23 counties in Wyoming. Due to the pandemic, drop off locations in some counties, including those in Laramie County, the most populous county and home to the state capital, Cheyenne, will now be "drive-through" style – assuming there's not a blizzard – to limit person to person contact, especially since many volunteers are older, and therefore more at risk of the virus.

But even if voters do have to enter the drop off locations, the number of people inside at one time will be limited, and will have to stand six feet apart. All volunteers checking people in and handling ballots will wear gloves, and voters will be asked to bring their own pens, and if they don't, they'll wind up with a free one from the party.

+ MORE: Government response updates: Trump says FEMA now coordinating, touts possible drug treatments

"People are going to be safer coming to vote at our office than they are going to the grocery store," said Hebert, adding that the party has been working with the state's Department of Health and hasn't been advised to cancel.

In two former caucus states, Alaska and Hawaii, all voters registered with the Democratic Party by a certain date were sent rank-choice ballots in the mail, without having to specifically request them. In Alaska, these ballots must be in the mail by Tuesday, and in Hawaii, these ballots must be received by 3 p.m. local time on Election Day in order to be counted.

As of now, neither state has announced changes to its April 4 in-person voting, which in Hawaii, will happen at 21 polling locations across the island state, and in Alaska, will take place at 44 sites. Both plans also include in-person voter registration on Election Day.



 Wearing gloves, a King County Election worker collect ballots from a drop box in the Washington State primary, March 10, 2020, in Seattle.

John Froschauer/AP

The Hawaii Democratic Party did not return multiple requests for comment regarding the status of its party-run primary. The Alaska Democratic Party told ABC News Thursday that it's reviewing its plan now, and while nothing has been finalized, the party hopes to do so soon.

"In light of the coronavirus spread, we are trying to make it easier and more accessible for Alaskans who wish to cast votes," communications director Jeanne Devon said.

Wisconsin, which votes on April 7, is already "retooling" to prepare for an election amid the outbreak, as one Milwaukee election official told ABC News Wednesday.

While state election officials are "strongly encouraging" voters cast their ballots absentee by mail, in-person voting is still set to be an option on April 7.

+ MORE: Democrats sue to expand voter access amid spread of coronavirus

In Milwaukee, precautions are already underway, including equipping poll workers with gloves and masks, supplying polling sites with cleaning supplies and disinfecting wipes, and complying with CDC guidelines in terms of social distancing, by spacing out voters in line and limiting the number of people inside a polling site.

Rhode Island and Pennsylvania are also still planning to hold elections on April 28, but not without pressure to reschedule, like Connecticut and Maryland – two states that were originally holding their presidential primaries on the same day – did until June 2.

In Pennsylvania, second only to New York for most delegates up for grabs on April 28, it's not just the presidential primary being held, but all down-ballot primary races, like for U.S. Congress and state-level legislators.

County-level elections officials have expressed concern about the logistics of putting on an election, including the ability to count ballots received in the mail.

Lisa Deeley, chair of the City Commissioners in Philadelphia, urged Gov. Tom Wolf to delay the election until at least late May, saying that holding the election "will be exceedingly difficult" due to poll worker training being canceled, and Wolf's announcing many statewide restrictions, including the closing of all bars and restaurants dine-in services.



Gov. Tom Wolf speaks, as he is joined by a group of lawmakers to call for a collective support on the efforts to reduce gun violence, at an... [more](#)

Bastiaan Slabbers/NurPhoto via Getty Images, FILE

And on Thursday, Wolf escalated restrictions in the state, announcing that all non-life-sustaining businesses in the state must close. But while Wolf's taken decisive action in many areas in the state, his "silence" on the primary has been "alarming to counties," said Forrest Lehman, director of Elections and Registration for Lycoming County.

"We need to know yesterday if there was going to be a primary on April 28 or not so that we can start making contingency plans... because we are we are paralyzed right now watching things on the calendar just slip away," Lehman told ABC News. "I've never seen a primary in greater peril – or any election in greater peril – if the governor does not make a decision about this one way or the other as soon as possible."

Wolf's office did not return a request for comment on the status of the primary, or Lehman's criticism.

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