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# Dynamics of Race: Joining, Leaving, and Staying in the American Indian/Alaska Native Race Category between 2000 and 2010

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# Abstract

Each census for decades has seen the American Indian and Alaska Native population increase substantially more than expected. Changes in racial reporting seem to play an important role in the observed net increases, though research has been hampered by data limitations. We address previously unanswerable questions about race response change among American Indian and Alaska Natives (hereafter "American Indians") using uniquely-suited (but not nationally representative) linked data from the 2000 and 2010 decennial censuses (N = 3.1 million) and the 2006-2010 American Community Survey (N = 188,131). To what extent do people change responses to include or exclude American Indian? How are people who change responses similar to or different from those who do not? How are people who join a group similar to or different from those who leave it? We find considerable race response change by people in our data, especially by multiple-race and/or Hispanic American Indians. This turnover is hidden in crosssectional comparisons because people joining the group are similar in number and characteristics to those who leave the group. People in our data who changed their race response to add or drop American Indian differ from those who kept the same race response in 2000 and 2010 and from those who moved between a single-race and multiple-race American Indian response. Those who consistently reported American Indian (including those who added or dropped another race response) were relatively likely to report a tribe, live in an American Indian area, report American Indian ancestry, and live in the West. There are significant differences between those who joined and those who left a specific American Indian response group, but poor model fit indicates general similarity between joiners and leavers. Response changes should be considered when conceptualizing and operationalizing "the American Indian and Alaska Native population."

**Key words:** American Indian and Alaska Native, Census, Racial identification, Error of closure, Linked data

# Introduction

Most demographers expect a national population to increase only when births and immigrants outnumber deaths and emigrants. This straightforward balancing equation has been challenged by the American Indian<sup>1</sup> case which highlights another possibility – population growth through changing racial identification.<sup>2</sup> While the American Indian population grew at a relatively conventional pace from 1890 through 1950 (see Figure 1) a major shift occurred in 1960 when census respondents could first self-identify their race<sup>3</sup> and there was a 52 percent net increase in the American Indian population (Passel 1976; Thornton 1987). Since then, as Figure 1 shows, the number of American Indians has continued to grow remarkably; in each census since 1960, hundreds of thousands more American Indians were counted than demographers expected based on births and immigration (Passel 1976, 1997; Passel and Berman 1986; Eschbach 1993, 1995; Eschbach et al. 1998; Harris 1994; Liebler and Ortyl 2014). These demographers, as well as qualitative researchers investigating the phenomenon, conclude that people have been changing their race response to include American Indian.

The difference between the number of American Indians expected each year and the number enumerated – the "error of closure" – has been followed with interest since the 1970s, but researchers have had very limited data on which to base their studies. Because censuses are

<sup>&</sup>lt;sup>1</sup> We use "American Indian" to describe a person who reported "American Indian or Alaska Native" in the race question on the census form. Unless specified, we are referencing the entire group, whether or not other races were also reported and regardless of Hispanic origins.

 $<sup>^{2}</sup>$  We use "racial identification" and "race response" to mean the response given on the decennial census form. This is not necessarily the same as a person's racial identity, though they are probably related.

<sup>&</sup>lt;sup>3</sup> We apply the terms "race" and "Hispanic origin" in congruence with the federal statistical definitions and guidelines used to collect the data (Office of Management and Budget 1997). On each questionnaire used here, respondents were asked one question about Hispanic origin and a separate question about race.



Figure 1: American Indians and Alaska Natives (AIANs), by identification: 1890-2010

Sources: 1890: US Census Office, *Indians Taxed and Indians Not Taxed in the United States (except Alaska) at the Eleventh Census: 1890* (Washington, DC: GPO 1894) cited in Shoemaker (p.4); 1900-2000: Decennial censuses from the Integrated Public Use Microdata Series (ipums.org/usa); 2010: Humes et al. 2011. Note that multiple-race responses were possible only in 1900, 1910, 2000, and 2010. The ancestry question was asked in 1980-2000 only.

Reprinted with permission from Liebler (2010a) Figure 1.

cross-sectional, only net population changes could be assessed and compositional change could only be viewed in the aggregate (Liebler and Ortyl 2014; Perez and Hirschman 2009). "New American Indians" were deduced to include many former whites with relatively high education and/or from areas of the U.S. that are far from large American Indian populations (Eschbach et al. 1998; Liebler and Ortyl 2014).<sup>4</sup> Qualitative sociologists (e.g., Fitzgerald 2007; Liebler 2001; Nagel 1996; Sturm 2011) have talked with some former whites who began identifying American Indian as their race (or one of their races), but these researchers, too, have been faced with limited data – small-scale studies cannot give a sense of population prevalence.

Within this research tradition, we break new ground. We construct a longitudinal data set containing information on about 3.1 million people who were present in the censuses of 2000 and 2010 and reported (or were reported as)<sup>5</sup> American Indian in the race question in at least one of these censuses.<sup>6</sup> For those in our linked data who also participated in the American Community Survey (ACS) in 2006 through 2010 (N = 188,131), the data set includes substantial supplementary information. With linked, longitudinal data about individuals, we are able to move beyond the study of net change to explore the composition of countervailing flows of people into and out of the American Indian response category.

<sup>&</sup>lt;sup>4</sup> The characteristics of those who left the American Indian category have not been studied, probably because crosssectional data has not given evidence of this group.

<sup>&</sup>lt;sup>5</sup> Because of our case selection (described below), we are confident that these are mostly self-reports or reports by someone else in the household. However, we cannot know who in the household filled out the form (see Sweet 1994 for related estimates). Also, even though instructed otherwise, some enumerators may have influenced race and Hispanic origin reporting in some circumstances. To simplify the prose, we write as though these are self-reports.

<sup>&</sup>lt;sup>6</sup> This is many but not all American Indians in these censuses; there were 4.1 million American Indians counted in Census 2000 (Grieco and Cassidy 2001) and there were 5.2 million in the 2010 Census (Humes et al. 2011). Note that our linked data is not nationally representative (for reasons described later).

Our research questions are threefold. First, to what extent do people change responses to include or exclude American Indian? The answer to this question will help us discern whether race responses are stable over time, as is usually assumed in research and in daily life. Second, how are people who change race responses similar to or different from those who do not? People who keep the same response over the decade may be different from response changers in terms of identities and race-related experiences. Third, to what extent are those who join an American Indian subgroup similar to or different from those who leave it? If they are similar, then programs intended to serve the point-in-time American Indian population can do so, whether or not there is changing racial self-identification over time. Also, if joiners and leavers<sup>7</sup> are similar, it might indicate that people whose responses change have related dynamic identity experiences. Differences between joiners and leavers can inform the search for reasons that people change responses.

This research is important for both practical and theoretical reasons. We aid analysts, policy makers, and community members who need to know empirical information about American Indians in 2000 and 2010 (see Lujan 2014). Our descriptive statistics disaggregate joiners, stayers, leavers, Hispanics, non-Hispanics, single-race responses, and multiple-race responses. This is the first time it has been possible to observe this information using large-scale longitudinal data. Our multivariate analyses comparing changers to stayers and comparing joiners to leavers provide new evidence about sets of characteristics accompanying a consistent American Indian response. This evidence can help sociologists and theorists (e.g., Cornell and Hartmann 2007; Root 1996) discern distinct identity types or experiences.

<sup>&</sup>lt;sup>7</sup> We use the terms joiners, leavers, and stayers throughout the paper to simplify the prose, but we acknowledge that these terms mask the complexity of people's identities, identification, experiences, and group histories.

### **American Indians: Exception or Forerunner?**

In research on identity change and response change, part-American Indians have been shown to shift responses more often than people with black, Asian, white, and/or Hispanic heritage (c.f. Campbell and Troyer 2007; Doyle and Kao 2007; Dusch and Meier 2012; Harris and Sim 2002; Hitlin et al. 2006; Singer and Ennis 2003; U.S. Census Bureau 1993). Are American Indians fundamentally different? In agreement with Snipp (1997), we think not. Instead, we see American Indians as representing the vanguard; other groups may well follow in their path. For example, Asian- and Hispanic-Americans have recently been experiencing high levels of interracial unions (Wang 2012) and both groups are moving in the direction of having highly mixed populations (Jones and Bullock 2012) like American Indians. Questions of identity, socially-defined group boundaries, and measurement are likely to expand for many race/ethnic groups in coming years (c.f., Lee and Bean 2004; Perez and Hirschman 2009; Snipp 1997). Pacific Islanders and multiple-race respondents from all race groups already show a high level of race response change across the 2000 to 2010 period (Liebler et al. 2014).

At the same time, American Indians are not the same as other race/ethnic groups in the U.S. What it means to be American Indian is complicated by the existence of tribal governments, indigenous homelands, tribal enrollment blood quantum requirements, and political relationships to the federal government. A person deciding whether to mark American Indian as his or her race has extra dimensions to consider – "American Indian" includes sometimes complex political and/or legal statuses (and related contested identities) that are not at issue in non-indigenous groups (c.f. Robertson 2013; U.S. Census Bureau 2008:v).

In this complex milieu, millions of people with acknowledged American Indian heritage report this heritage to the Census Bureau in an open-ended ancestry question but not in the race

question (see Figure 1). In the early and mid-twentieth century, federal and informal policies and practices strongly urged assimilation by American Indians, fostering an atmosphere of stigma that may still affect some. Also, as the experiences of Senator Elizabeth Warren illustrate, part-whites who claim an American Indian heritage can be heavily criticized for seemingly trying to benefit from minority status (c.f. Seelye 2012). For part-black American Indians, there are twin pressures discouraging an American Indian response: remnants of the "one drop rule" defining part-blacks as "just" black (c.f. Davis 2005; Khanna and Johnson 2010) and the inverse pattern for American Indians, in which "full blood" American Indians are seen as truly American Indian while others are more often considered suspect (c.f., Snipp 1989, 2003).

Our focus here is on people who reported American Indian as their race in Census 2000 and/or the 2010 Census, without the assumption that they always have and always will report American Indian in race questions. We recognize that this semantically defines some people as non-American Indian who would be in the group if we used a different inclusion criterion.<sup>8</sup>

#### **Prior Research**

#### To what extent do people change responses to include or exclude American Indian?

Do people change their racial identification to/from American Indian? How common is this? Prior researchers were confined to studying net changes in the American Indian population because they did not have longitudinal linked data. Evaluating the net change in the American Indian population between 1960 and 1970, Passel (1976) estimated the expected net growth in the population to be 202,000, but the 1970 Census count of American Indians was 67,000 higher

<sup>&</sup>lt;sup>8</sup> For instance, someone who reported white in 2000 and American Indian in 2010 is called non-American Indian in 2000 in this paper, despite the fact that they were probably, even then, a person with American Indian heritage and/or identity.

than this. Passel attributed part of this error of closure to changes in racial identification, suggesting that some who were counted as white in the 1960 Census were counted as American Indian in 1970. Large errors of closure continued to appear in subsequent decades. The error of closure was 366,000 between 1970 and 1980 (Passel and Berman 1986, Passel 1997), 181,000 between 1980 and 1990 (Harris 1994) and just over one million between 1990 and 2000 (Liebler and Ortyl 2014). Each of these studies point to changes in racial classification as a primary factor in differences between the expected and actual counts of the American Indian population.

Previous research using smaller longitudinal data sets shows substantial response change among people who ever report American Indian as their race. Post-Census reinterviews (evaluating decennial census data quality) have repeatedly found that American Indians have lower rates of race response consistency than do whites, blacks, and Asians (Dusch and Meier 2012; Singer and Ennis 2003; U.S. Census Bureau 1993). For example, about 40 percent of American Indians reinterviewed after the 1990 Census reported a different race in the reinterview (U.S. Census Bureau 1993). Another Census Bureau study using linked data (del Pinal and Schmidley 2005) found that 27 percent of non-Hispanic American Indians and 76 percent of Hispanic American Indians in Census 2000 gave a different race/Hispanic response in the Current Population Survey that same year. American Indian youth show relatively fluid race responses compared to whites, blacks and Asians: 33 percent of single-race American Indian adolescents in Wave I of the National Longitudinal Study of Adolescent Health (in 1994 or 1995) reported a different race 6 to 8 years later (Doyle and Kao 2007).

#### How are people who change responses similar to or different from those who do not?

What are the characteristics of people who change their race response to/from American Indian? Are they different from those who are consistent in identification? How? Prior

quantitative researchers (e.g., Eschbach et al. 1998) and qualitative researchers (e.g., Sturm 2011) have provided a few answers to these questions.

**Consistent race/Hispanic identification:** Though known to be mutable, racial identity is generally thought to be central to self-conception. A consistent race and Hispanic origin response (whatever the details)<sup>9</sup> may indicate a relatively strong attachment to the group. A person who gives the same race and Hispanic responses in 2000 and 2010 – a "stayer" in our study – may have a relatively strong sense of American Indian identity, and may experience the social world accordingly. Based on research about indigenous connections to traditional or legal homelands (c.f., Liebler 2010b; Memmott and Long 2002) and on the nature of "thick ties" to race groups (Cornell and Hartmann 2007), we may find that stayers are more likely to report a tribal affiliation, live in an American Indian area, and report American Indian ancestry in the ACS.

**Changing race/Hispanic responses:** People who change their race response may have experienced more (or different) changes in identity-related personal circumstances than people who do not change responses. They may have language or cultural barriers to understanding census terminology or answering the questionnaire. Or they might be relatively unfamiliar to the person filling out the census form. We elaborate on these possibilities below.

Given the impact of local area characteristics on racial identity and identification (Eschbach 1993; Kana'iaupuni and Liebler 2005; Liebler 2010b; Xie and Goyette 1997), we anticipate that people who change race responses are different from stayers in terms of whether they have changed residential locations, especially if those locations have different racial compositions or culturally-relevant meanings (as do many reservations; see Liebler 2010b).

<sup>&</sup>lt;sup>9</sup> The decision of whether to give a single-race response or to report multiple races is based on heritage and also on other factors such as political/legal considerations and community connections (c.f., Liebler 2001; Robertson 2013).

People who were older children in 2000 might change their race responses if they moved out of their parents' homes (by 2010) and are reporting their own race for the first time. Other life changes could also potentially affect race responses (e.g., marriage, divorce, discrimination experiences, or new information about family heritage).

Some people may be particularly burdened by the task of filling out the census form. The American system of race assignment is not always clear to people from other countries. Noncitizens<sup>10</sup> and new immigrants may be unsure of the social meaning of each race group, with shifting understandings as they spend more time in the U.S. People who do not read English well or who are less educated may have difficulties navigating the race and Hispanic origin questions, potentially resulting in response change from one census to the other. These issues may be intertwined for some people like indigenous Central and South Americans (federally defined as American Indians) who have recently immigrated to the United States.

Some response changes may result from limited communication between the person filling out the census form and the person being described. They could also reflect a difference in opinion about what race(s) best describe a person (see Song 2003). We limit our sample to people in households (not group quarters) to limit the impact of these issues, though household dynamics will still be in effect. As household composition and communication change over the decade, so might the responses on census forms.

#### How are joiners similar to or different from leavers?

Our third research task is to understand similarities and differences between those who join and those who leave American Indian groups. We might expect people who join a particular

<sup>&</sup>lt;sup>10</sup> Foreign-born individuals who have gone through the citizenship process have had considerable experience with the U.S. system and may have substantial understanding of U.S. social practices.

American Indian subgroup to be distinct from those who leave the same subgroup. For example, people who reported Hispanic single-race American Indian in 2010 but not 2000 might have newly heightened American Indian identity because they recently moved to a densely American Indian area or recently married an American Indian (c.f. Eschbach 1993; Kana'iaupuni and Liebler 2005; Lieberson and Waters 1993; Loveman and Muniz 2007). A different change in local or family context could increase the chances of leaving an American Indian race response.

On the other hand, perhaps there are certain types of people who are particularly likely to change race responses, in which case joiners and leavers would be similar. People who might be especially likely to change race responses may be experiencing identity flexibility as a product of white privilege, might have a mismatch between their self-conception and the wording or definitions on the questionnaires, or could have multiple salient heritages and fluid identities.

**Identity flexibility and white privilege:** Many whites in the United States experience their European ethnicities as relatively symbolic or optional,<sup>11</sup> causing cross-time fluctuations in the number reporting each European ancestry group (Gans 1979; Hout and Goldstein 1994; Lieberson and Waters 1993; Waters 1990). After centuries of mixing, many people who identify and live as white have American Indian ancestors (c.f., Liebler 2010a; Snipp 1989; Waters 1990). If some of these people turn a symbolic or optional ethnicity lens to their non-European ancestors they may decide to report American Indian as their race or as one of their races, at least for a time. Eschbach et al. (1998) and Liebler and Ortyl (2014) found that the "new" American Indians in previous censuses have an education profile similar to that of whites.

<sup>&</sup>lt;sup>11</sup> Relatedly, socioeconomic privilege could make a race response change from white to minority seem especially costless because the person is buffered from the harshest costs of color.

Self-conception mismatched with questionnaire: Translating complex identities into answers to fixed-choice questions can be a challenge. If a person changes her opinion about the best way to convey her identities on a census form, this could cause response change. The federal definition of the American Indian race category was revised in 1997 to include people with indigenous origins and community connections to tribes in Central and South America, as well as North America (Office of Management and Budget 1997). Though explicitly included in the American Indian race category, Central and South American indigenous people may get mixed messages; U.S. cultural conceptions of "American Indian" do not usually include these groups. As they navigate these mixed messages they might join or leave the American Indian response group. A Hispanic with a mestizo identity (see Miller 2004) might mark Hispanic, American Indian, and white (and perhaps black) in an effort to convey this identity on the census form.

**Multiple salient heritages:** Prior research about people with more than one salient racial heritage shows that many have dynamic racial identities and relatively non-stable patterns of race response (c.f., Harris and Sim 2002; Rockquemore and Brunsma 2008; Root 1996). Consistent with patterns found in these studies, we expect some people to have fluid race reports reflecting fluid identities. This may be especially true of people whose parents are of different races if they have relatively extensive experience with the race groups represented by their parents.

#### Data, Case Selection, Methods, and Measures

#### Data

The U.S. Census Bureau's Center for Administrative Records Research and Applications (CARRA) has linked individuals' 2000 and 2010 census records into a longitudinal data set to enable research on response variability. In a highly secure environment, CARRA uses probabilistic record linkage methods and personal information such as name, date of birth, and

address (see Wagner and Layne 2014) to assign a unique identifier (a "Protected Identification Key" or PIK) to each record, enabling individuals to be linked across data sources. Some people are not in our data set because they did not receive a PIK. This happens, for example, if they do not have a Social Security Number or their personal information on the census form was missing or incomplete.<sup>12</sup> The data are anonymized and can only be used for Census Bureau statistical purposes including approved research such as this study. The source data has undergone limited editing and processing,<sup>13</sup> allowing us to better identify race and Hispanic response changes.

Linking individuals in Census 2000 to their own responses in the 2010 Census gives a longitudinal data set with about 200 million people. Individuals could have been counted in 2000 but not be linked to 2010 because they had died or left the country. Likewise, linked data does not include those who were counted in 2010 but had not yet been born or did not live in the country in 2000. Those who were present but not enumerated (due to coverage issues in either census; see Lujan 2014; Mule 2012; U.S. Census Bureau 2003) are also excluded from our study.

# Case selection

To select cases for this study from the linked decennial census data, we began with individuals who marked American Indian as their race (alone or in combination with other races) in Census 2000 and/or the 2010 Census – 4,140,582 people. To reduce the chances of false links<sup>14</sup> or response changes due to enumeration issues, we excluded cases<sup>15</sup> in which: (a) data

<sup>&</sup>lt;sup>12</sup> An evaluation of the PIK assignment process has found that PIK assignment rates are higher for non-Hispanic whites compared to other groups (Bond et al. 2014).

<sup>&</sup>lt;sup>13</sup> We use decennial data that has not been through data perturbation. We use disclosure review to ensure disclosure avoidance. The ACS data has undergone data perturbation; this may cause some response mismatch between the decennial and ACS data points.

<sup>&</sup>lt;sup>14</sup> CARRA researchers have concluded that about 1 percent of links were to the wrong person (Layne et al. 2014).

was gathered from a neighbor or other census proxy respondent (131,789 cases excluded); (b) the person lived in group quarters (156,825); (c) race or Hispanic origin information was edited or imputed (614,376); (d) the age difference between censuses was less than 8 years or more than 12 years (135,616) or all age information in a year was imputed (94,286); (e) reported sex in 2010 did not match 2000 (36,944) or all sex information in a year was imputed (98,111); (f) the Census 2000 response was Some Other Race and another race(s) (related processing errors might affect our results; U.S. Census Bureau 2007) (115,795); or (g) the 2010 data were collected with an alternative questionnaire (see Compton et al. 2012) (7,749). After case selection, our data include 3,059,818 people who reported American Indian as their race in Census 2000 and/or the 2010 Census. This is all people in the linked data who fit the case selection criteria and is not a weighted estimate. Data linkages are not equally possible for all people and our selection criteria affect some groups more than others, so statistics in this paper are not nationally representative.<sup>16</sup>

For these 3.1 million people, we have full-count short form decennial census responses for 2000 and 2010. Only a few questions were on these censuses, however, so we supplement our information using ACS data for those in the ACS between 2006 and 2010.<sup>17</sup> After applying exclusions (b) through (e) above to the ACS data, we have additional information for 188,131 of the 3.1 million people (about 6.1 percent). We do not use weights to account for such things as ACS survey non-response; again, our results are not nationally representative. We use the unweighted ACS-decennial linked data in Tables 2 through 7 and in related appendix tables.

<sup>&</sup>lt;sup>15</sup> Cases could be excluded for multiple reasons so the sum of excluded cases is larger than the difference between the full set of linked American Indian records and the number included in our study.

<sup>&</sup>lt;sup>16</sup> For example, Hispanics have a relatively high non-response rate to the race question and so were disproportionately excluded from our study.

<sup>&</sup>lt;sup>17</sup> We use the 2006-2010 five-year ACS data.

In the analyses below, we divide our data into four subgroups to improve knowledge and to coincide with common methods of operationalizing "American Indian." Subgroups<sup>18</sup> are: (S1) non-Hispanic single-race American Indian, (S2) Hispanic single-race American Indian, (S3) non-Hispanic multiple-race American Indian, and (S4) Hispanic multiple-race American Indian. Even with the substantial case selection rules listed above, we have between 1,000 and 51,000 cases in each of the subgroup-specific joiner, leaver, and stayer groups.

Prior researchers studying American Indian race response change could not study multiple-race responses and did not disaggregate by Hispanic origin (Eschbach et al. 1998; Harris 1994; Passel 1976, 1997; Passel and Berman 1986). Liebler and Ortyl (2014) are the exception. Using cross-sections of the 1990 and 2000 censuses, they showed that many new Hispanic American Indians were relatively young. They also showed that some 1990 single-race American Indians must have reported multiple races in 2000.

#### Methods

We use logistic and multinomial logistic regression analyses. Dependent variables for all models reflect race and Hispanic responses in the censuses of 2000 and 2010 only (not the ACS). We explain the dependent variable for each model when introducing the results of the model. So that we can include measures of education, marital status, and labor force participation, we include only people ages 25 and older in the multivariate models.<sup>19</sup> Descriptive statistics include people of all ages (except for education, marital status, and labor force participation variables).

<sup>&</sup>lt;sup>18</sup> Note that a person could be in two subgroups, for example by leaving S1 and joining S3.

<sup>&</sup>lt;sup>19</sup> Alternate versions of all multivariate models with fewer independent variables but including people of all ages are available on request. Also, descriptive statistics for only people ages 25 and older are available on request.

#### Measures

Independent variables are based on data from the ACS unless noted.

**Gender and age.** Our sample selection criteria require that gender match across all three data sources. There are more women than men in all subgroups in our data, probably due to gender differences in item non-response rates (c.f., Rastogi et al. 2014).<sup>20</sup> Age is drawn from the ACS. The youngest people are age 4 in the ACS data; they were newborns in 2000, in the 2006 ACS, and had the maximum age discrepancy (two years).

**Citizenship and English language ability.** The ACS asked "Is this person a citizen of the United States?" We coded this into (a) U.S. citizens by birth or naturalization and (b) non-U.S. citizens. Persons aged 5 and older who spoke a non-English language at home were asked about their English ability. We coded this dichotomously as (a) speaks English only, speaks it "very well," or is age 4, or (b) speaks English "well" "not well" or "not at all."

**Income relative to poverty.** The Census Bureau calculates family income in relation to the poverty line, giving a number from 0 (no income) to 999 (income is 999% of the poverty line). A few children in uncommon family structures were not assigned a value by the Census Bureau; we assigned each their age-specific mean value for the descriptive tables.

**Education.** We divided people ages 25 and older into five education categories: less than high school; high school or equivalent degree; some college or associates degree; Bachelor's degree; graduate or professional degree.

 $<sup>^{20}</sup>$  A slightly greater tendency to respond to censuses and surveys is magnified in linked data in which non-responses are excluded. If the response rate of men is 99% that of women and all respondents are equally likely to be linked, then the male population would be 97% of the female population in a three-way linked data set such as ours (99% x 99% x 99% = 97%). The assignment of unique identifiers which facilitate the record linkage may also contribute to the gender distribution in our dataset – previous research has found males are less likely to be assigned unique identifiers relative to females (Rastogi and O'Hara 2012).

**Labor force participation.** We categorized people ages 25 and older as: employed in the labor force; in the labor force but not employed; or not in the labor force.

**Marital status.** We grouped adults ages 25 and older into three marital status categories: currently married; widowed, separated, or divorced; or never married.

**Race/Hispanic response in the ACS.** For the ACS race/Hispanic response, we report statistics to coincide with the subgroup of focus. When describing the S1 group, for instance, we show whether or not the person reported non-Hispanic single-race American Indian in the ACS.

American Indian ancestry. The ACS ancestry question was: "What is this person's ancestry or ethnic origin?" Our variable indicates whether or not the person gave any kind of American Indian/Alaska Native response to this open-ended question.

**Tribe response.** The race questions on the censuses and ACS have a fill-in-the-blank space for the person's "enrolled or principal tribe." We used the responses in 2000 and 2010 to create two measures: (1) whether they wrote anything at all in this fill-in-the-blank area (which we generally call "tribal response"; see Liebler and Zacher 2012), and (2) whether only Central or South American tribes were named. When comparing joiners to leavers within subgroups (Table 7), we measure tribe responses given in the year the individual was in the focal subgroup.

**Residence.** We have three measures of residential location. First, we define an "American Indian area" as a place which is either a census-defined American Indian or Alaska Native Area (see U.S. Census Bureau 1994) or a census block with at least 20 percent American Indian population that year.<sup>21</sup> We coded American Indian area residence as: in 2000, in 2010, in

<sup>&</sup>lt;sup>21</sup> In 2000, about one-fifth of people living in census-defined American Indian and Alaska Native Areas were American Indian (21.7 percent). In 2010, the median rose to 26.7 percent.

both, or in neither.<sup>22</sup> Second, we categorized a person as a residential migrant if (a) they reported on the ACS that they lived in a different residence one year ago, or (b) their state of residence varies across the three data sources. Third, we indicate region of residence in the ACS year.<sup>23</sup>

# Results

#### To what extent do people change responses to include or exclude American Indian?

We begin by showing (in Table 1) the 2000 and 2010 race and Hispanic responses of 3.1 million people who marked American Indian as their race in at least one census. This table shows that race responses are not necessarily stable across a person's lifetime – a high proportion of people in our data changed their racial identification to/from American Indian over the 2000 to 2010 period, as seen by the presence of cases in the off-diagonal cells. Less than one-third of ever-American Indian people in our decennial linked data had the same race/Hispanic response in 2000 and 2010. The remainder changed their race and/or Hispanic response across the decade.

Four response change patterns in Table 1 stand out. First, people often moved between a single-race response and a multiple-race response; 45 percent of people in Table 1 changed responses in this way. This type of response move is consistent with prior research on multiracial people (c.f. Harris and Sim 2002; Rockquemore and Brunsma 2008; Root 1996).

Second, some people changed their response from one single-race response to another; 20 percent of people in Table 1 made a single-race-to-single-race response change. This was particularly common among Hispanic American Indians; of the people in the lower right quadrant of Table 1 (those who consistently identified as Hispanic), 52 percent changed their

<sup>&</sup>lt;sup>22</sup> In Table 7, we coded American Indian area residence in the year the person was in the focal subgroup.

<sup>&</sup>lt;sup>23</sup> In Table 7, we code region of residence in the census in which the person was in the focal subgroup.

		Race and ethnicity in 2010												
				Non-His	panic					Hisp	anic			
	Total		Singl	e-race		Multipl	le-race		Sing	le-race		Multip	le-race	Else
Race and ethnicity in		1 .	11 1		Any	white &	Other	1.4	11 1		GOD	white &	Other	
2000		white	Бласк	AIAN	other	AIAN	AIAN+	white	DIACK	AIAN	SOR	AIAN	AIAN+	
Total	3,059,818	523,708	87,428	1,042,724	27,160	650,450	234,836	81,899	4,879	168,481	57,462	71,546	71,786	37,459
Non-Hispanic														
Single-race														
white	622,316			173,415		404,209	19,997			6,917		13,248	4,530	
black	139,108			22,793		1,910	107,491			852		147	5,915	
AIAN	1,045,627	158,178	16,307	723,326	5,413	99,910	12,042	4,800	265	14,324	3,068	2,651	2,336	3,007
Any other	24,864			5,094		1,276	16,672			458		155	1,209	
Multiple-race														
white & AIAN	575,680	339,481	1,074	87,809	1,035	134,523	3,081	2,511	21	1,120	478	1,970	411	2,166
Other AIAN+	179,635	10,446	67,267	7,166	19,262	1,821	50,460	219	583	184	194	60	1,705	20,268
Hispanic														
Single-race														
white	83,101			4,449		2,400	626			41,046		21,529	13,051	
black	6,146			225		39	597			1,674		141	3,470	
AIAN	163,775	5,557	615	11,221	460	1,094	398	49,825	1,696	32,531	44,747	6,260	4,885	4,486
SOR	104,586			3,971		679	539			63,136		14,944	21,317	
Multiple-race												·		
white & AIAN	59,341	8,914	65	1,769	114	1,555	132	21,525	87	4,837	6,448	9,923	1,691	2,281
Other AIAN+	26,594	1,132	2,100	365	876	83	1,404	3,019	2,227	772	2,527	271	6,567	5,251
Else	29,045			1,121		951	21,397			630		247	4,699	

Table 1: Race/ethnicity responses in 2000 and 2010 among American Indians in the decennial sample of linked data from Census 2000 and the 2010 Census

Sources: Census 2000 and 2010 Census.

Notes: AIAN = American Indian/Alaska Native; SOR = Some Other Race; Other AIAN + = another multiple-race response that includes AIAN. Else = any other race/Hispanic origin response. Boxed cells highlight the stayers in each of the four subgroups.

race response between American Indian and either white or Some Other Race. Note that most people in our decennial linked data retained their Hispanic origin response even when changing race responses – 94 percent of the cases in Table 1 are in the top left or bottom right quadrants.

Third, the number of people moving into and out of each subgroup is similar in size. For example, about 1,046,000 people in our data reported non-Hispanic single-race American Indian in 2000. Of these, about 158,000 left the American Indian category to report as non-Hispanic white in 2010. In 2010, about 173,000 people who were previously non-Hispanic single-race white joined the group. Without the benefit of longitudinal data, the 15,000-person difference would be the only evidence of these large, countervailing flows.

Finally, the proportion joining or leaving each American Indian subgroup is very high. Of people in our data who ever report non-Hispanic single-race American Indian, 47 percent joined or left this group between Census 2000 and the 2010 Census.<sup>24</sup> Among Hispanic and/or multiple-race American Indians in our data, over 85 percent joined or left over the period.<sup>25</sup> If this pattern is true in other data, the total number of people reported as American Indian at one point in time reflects only a fraction of the number of people ever reported as American Indian.

The extent to which people in our data left or joined American Indian subgroups is visually evident in Figure 2 which shows each subgroup's age and sex distribution in the form of a population pyramid. The numbers underlying these pyramids are shown in Appendix Table A. People of all age groups and both sexes changed their race and/or Hispanic responses to join and

 $<sup>^{24}</sup>$  A total of 1,365,025 people in our decennial linked data reported non-Hispanic single-race American Indian in 2000 or 2010 (=1,045,627 + 1,042,724 – 723,326). Of these 723,326 gave the same report both times. Thus, 723,326/1,365,025 = 53% of people in S1 were stayers.

<sup>&</sup>lt;sup>25</sup> Of people in S2, 11% were stayers. Of people in S3, 13% were stayers. Of people in S4, 9% were stayers.

Figure 2: Four American Indian subgroups as seen in 2000 and 2010 decennial linked data







S2: Hispanic single-race AIAN









Sources: Census 2000 and 2010 Census.

Notes: AIAN = American Indian/Alaska Native. These population pyramids show age and gender in 2000. Age is in ten year categories with ages 0-9 at the bottom and 70+ years at the top. Men are in darker brown on the left. Women are in lighter brown on the right. Note that pyramids for groups S2 and S4 are on a different scale than pyramids for groups S1 and S3.

leave American Indian subgroups, as evidenced in the population pyramids. The age and sex distributions of leavers and joiners generally parallel those of stayers in each subgroup.

In Table 2 and Appendix Table B we provide extended information about the extent of race response change by incorporating the race responses given in the ACS. There was substantial race response change even among people we call stayers (using census responses) elsewhere in this paper.<sup>26</sup> For example, all people in rows 1, 4, and 21 (53,495 people) reported single-race American Indian in both censuses, but only those in row 1 (45,869 people) also reported this in the ACS.<sup>27</sup> All those in rows 2, 7, and 22 (14,063 people) reported multiple-race American Indian in both censuses, but only those in row 2 (8,308 people) also did so in the ACS. For each of the 24 possible 2000-ACS-2010 race response patterns in our data, we show a few characteristics to lay groundwork for future research and theorizing about response change.

Besides showing the extent of response change, the population pyramids in Figure 2 and results in Table 2 also illustrate variation across American Indian subgroups. Hispanic multiplerace American Indians are a young group and many children moved into or out of this category before their teenage years. Maybe this multifaceted race/Hispanic response reflects an early stage of identity development (c.f., Erickson 1968). Hispanic American Indians predominate among those who changed from a single-race American Indian response to a non-American Indian response (rows 9 and 10 in Table 2) or vice versa (rows 15 and 16). Consistently reporting

<sup>&</sup>lt;sup>26</sup> We use the ACS-decennial linked data in Tables 2 through 8. Throughout the paper we define joiners, stayers, and leavers using only race/Hispanic information from the decennial censuses of 2000 and 2010. ACS race responses are explored in Table 2 and included as an independent variable in multivariate analyses.

<sup>&</sup>lt;sup>27</sup> The ACS data was subject to perturbation as a disclosure avoidance practice; some ACS race responses may be artifacts of this perturbation and not from the respondent.





= American Indian/Alaska Native alone

= American Indian/Alaska Native in combination with another race(s)

= Any other race(s)

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = American Indian/Alaska Native. Data include people who responded to the 2000 and 2010 censuses and ACS in 2006-2010. Hispanic responses and response changes are not taken into account in this table.

American Indian (including moving between single-race and multiple-race responses (rows 1-8)) is associated with living in an American Indian area and reporting a tribe.<sup>28</sup>

#### How are people who change responses similar to or different from those who do not?

Our second research question asks about people who gave the same race and Hispanic reports in both censuses, and how they compare to people who joined or left American Indian subgroups. We use Table 3 to show characteristics of leavers, stayers, and joiners in each subgroup of American Indians within the ACS-decennial linked data (also see Appendix Table C). This summary of characteristics shows that the four subgroups hold different types of people. For example, people who reported multiple-races including American Indian (S3 and S4) tended to have more education than those who ever reported single-race American Indian (S1 and S2).

Based on the previous research described above, we expect to see some differences between those who changed responses and those who did not. Table 3 gives descriptive evidence related to these expectations. The idea that young people will be more likely to change responses is not supported by Table 3; there is little age distinction between leavers, stayers, and joiners in each subgroup. Residential migration was slightly more common among leavers and joiners than stayers in each subgroup. The pattern of residential migration into and out of an American Indian area is consistent with prior research relating homelands to indigenous identities (c.f., Eschbach 1995; Kana'iaupuni and Liebler 2005; Liebler 2010b; Memmott and Long 2002) – there is a tendency for those who left a subgroup to also have left an American Indian area, and those who joined a subgroup to have started living in an American Indian area.

 $<sup>^{28}</sup>$  The questionnaire and post-enumeration processing are designed such that it is impossible to have a tribe response in the data without having American Indian race response. Thus, people in rows 1-8 and 21-24 can have a recorded "enrolled or principal tribe" in 2000 and/or in 2010, while those in rows 9-20 can have a recorded tribe in only the one census in which they report American Indian. Note that we code *any* response as a "tribe report."

Table 3: Characteristics of four subgroups of American Indians, by response stability

	S1:	Non-Hispan	ic	S2: Hispanic			
Column %	sing	gle-race AIA	N	sing	gle-race AIA	N	
	Leavers	Stayers	Joiners	Leavers	Stayers	Joiners	
Gender and age							
Woman	52%	53%	51%	52%	54%	52%	
Man	48%	47%	49%	48%	46%	48%	
Age 0-9	3%	3%	4%	4%	5%	4%	
Age 10-24	26%	26%	28%	32%	32%	33%	
Age 25-39	23%	20%	19%	22%	23%	24%	
Age 40-64	38%	40%	39%	36%	36%	33%	
Age 65 or older	10%	11%	10%	6%	5%	6%	
Citizenship and English language ability							
U.S. born and/or citizen of the U.S.	99%	100%	100%	88%	96%	88%	
Foreign-born non-citizen	1%	0%	0%	12%	4%	12%	
Speaks English 'very well' or only	99%	94%	99%	78%	91%	78%	
Speaks English less than 'very well'	1%	6%	1%	22%	9%	22%	
Poverty (range 0-999)							
Mean income as a percent of poverty line	326%	274%	333%	273%	310%	281%	
Education (ages $25 + only$ )							
Less than high school	14%	19%	14%	33%	19%	30%	
High school or GED	30%	33%	31%	27%	27%	29%	
Some college	36%	35%	36%	28%	38%	28%	
Bachelor's degree	12%	9%	13%	7%	10%	8%	
Graduate or professional degree	7%	4%	6%	4%	5%	4%	
Labor force (ages $25 + only$ )							
In the labor force, employed	60%	57%	61%	64%	63%	66%	
In the labor force, not employed	5%	7%	5%	7%	6%	7%	
Not in the labor force	35%	36%	34%	30%	30%	27%	
Marital status (ages $25 + only$ )							
Currently married	62%	57%	63%	60%	59%	61%	
Widowed, separated or divorced	24%	23%	24%	22%	21%	21%	
Never married	14%	20%	13%	18%	20%	19%	
Race/Hispanic response in ACS							
Same as stayers in this sub-group	23%	86%	39%	10%	51%	19%	
Different from stayers in sub-group	77%	14%	61%	90%	49%	81%	
AIAN ancestry							
AIAN ancestry reported at all	60%	92%	69%	22%	61%	26%	
No AIAN ancestry reported	40%	8%	31%	78%	39%	74%	
Connection to AIAN communities							
Reported a tribe in at least one census	81%	99%	81%	54%	87%	55%	
Did not report a tribe in 2000 or 2010	19%	1%	19%	46%	13%	45%	
S./Central Amer. tribe in 2000 or 2010	1%	0%	0%	21%	16%	21%	
Lived in American Indian area both censuses	20%	63%	23%	7%	15%	7%	
In American Indian area in 2000 but not 2010	9%	6%	4%	5%	6%	2%	
In Amer. Indian area in 2010 but not 2000	4%	7%	10%	2%	7%	6%	
Not in American Indian area in 2000 or 2010	66%	24%	63%	86%	72%	85%	
Residence	00/0	2170	0070	0070		0070	
Residential migrant	18%	9%	16%	13%	13%	15%	
No indication of residential migration	82%	91%	84%	87%	87%	85%	
In Northeast	8%	3%	7%	9%	5%	11%	
In Midwest	23%	19%	22%	10%	11%	11%	
In South	39%	29%	46%	26%	18%	25%	
In West	2.9%	49%	26%	55%	66%	53%	
	2270	1270	2070	5570	5070	5570	
Total N	19.922	50,345	19,220	6.255	1,680	6.373	
Total ages 25+	14,034	35,538	13,022	4,036	1,068	4,016	

Continued

#### Table 3, continued

	S3:	Non-Hispan	ic	S4 : Hispanic			
Column %	mult	iple-race AIA	AN	multi	iple-race AIA	AN	
	Leavers	Stayers	Joiners	Leavers	Stayers	Joiners	
Gender and age							
Woman	53%	56%	53%	54%	55%	54%	
Man	47%	44%	47%	46%	45%	46%	
Age 0-9	3%	4%	4%	6%	9%	5%	
Age 10-24	23%	26%	27%	36%	43%	37%	
Age 25-39	19%	16%	20%	22%	18%	23%	
Age 40-64	42%	41%	39%	30%	25%	30%	
Age 65 or older	13%	13%	11%	6%	4%	5%	
Citizenship and English language ability							
U.S. born and/or citizen of the U.S.	99%	100%	100%	94%	98%	92%	
Foreign-born non-citizen	1%	0%	0%	6%	2%	8%	
Speaks English 'very well' or only	98%	99%	99%	89%	95%	86%	
Speaks English less than 'very well'	2%	1%	1%	11%	5%	14%	
Poverty (range 0-999)							
Mean income as a percent of poverty line	347%	349%	332%	344%	350%	316%	
Education (ages 25+ only)							
Less than high school	12%	9%	13%	17%	8%	20%	
High school or GED	29%	26%	28%	23%	19%	24%	
Some college	37%	39%	37%	35%	40%	34%	
Bachelor's degree	14%	15%	14%	15%	18%	14%	
Graduate or professional degree	8%	11%	8%	10%	15%	8%	
Labor force (ages $25 + only$ )							
In the labor force, employed	59%	57%	59%	68%	71%	66%	
In the labor force, not employed	5%	5%	5%	5%	5%	7%	
Not in the labor force	36%	37%	36%	27%	24%	27%	
Marital status (ages 25+ only)				,.		_ , , ,	
Currently married	61%	59%	58%	58%	58%	57%	
Widowed, separated or divorced	24%	27%	2.7%	20%	22%	22%	
Never married	14%	15%	15%	21%	2.0%	21%	
Race/Hispanic response in ACS	11/0	10,0	10,0	2170	2070	21/0	
Same as stayers in this sub-group	17%	60%	30%	12%	48%	16%	
Different from stayers in sub-group	83%	40%	70%	88%	52%	84%	
AIAN ancestry	0570	4070	7070	0070	5270	0470	
AIAN ancestry reported at all	42%	63%	49%	21%	38%	25%	
No AIAN ancestry reported	58%	37%	51%	79%	5070 62%	2570 75%	
Connection to AIAN communities	5670	5770	5170	1970	0270	1370	
Reported a tribe in at least one census	70%	00%	68%	60%	87%	57%	
Did not report a tribe in 2000 or 2010	20%	9070 1094	2204	40%	1804	1204	
S /Central Amer. tribe in 2000 or 2010	104	10%	0%	4070	13%	4370	
Lived in American Indian area both consusas	1 70	160/	110/	20/	13%	1 / 70	
In American Indian area in 2000 but not 2010	1170 70/	50/	20/	5%	J 70	470	
In Amer. Indian area in 2010 but not 2010	7%	J%	3% 80/	3% 2%	4% 60/	2% 50/	
Not in American Indian area in 2000 or 2010	3% 80%	0% 720/	8%	2%	0%	5% 800/	
Not III American mutan area in 2000 of 2010	80%	/3%	/8%	90%	80%	89%	
Residence Decidential microart	1.00/	1.40/	170/	1.00/	1.40/	170/	
Residential migrant	16%	14%	1/%	16%	14%	1/%	
No indication of residential migration	84%	86%	83%	84%	86%	83%	
	12%	9%	12%	11%	11%	14%	
	26%	25%	25%	13%	15%	12%	
In South	36%	31%	37%	22%	15%	23%	
In West	26%	34%	26%	53%	59%	51%	
Total N	36,145	12,690	41,764	3,523	997	5,880	
Total ages 25+	26,701	8,986	29,074	2,044	473	3,390	

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = American Indian/Alaska Native. Leavers are in the subgroup in 2000 but not 2010 while joiners are in the subgroup in 2010 but not 2000. Stayers are in the subgroup in both censuses. ACS race/ethnicity response is not taken into account in this classification but is shown in Table 2.

English language proficiency, education level, and citizenship status show different patterns among Hispanic American Indians than among non-Hispanic American Indians. Among Hispanic American Indians, low English proficiency is associated with response change, but the few non-Hispanic American Indians who are not proficient in English are concentrated in the S1 stayers group. Similarly, adult S1 stayers more often have low education than do S1 joiners or leavers, but in the Hispanic subgroups (S2 and S4) low education is associated with response change. Foreign-born non-citizens more often joined and left Hispanic American Indian groups (S2 and S4) but no pattern is evident among the few non-Hispanic non-citizens in our data.

Like those shown in Figure 2 and Table 2, statistics in Table 3 usefully describe characteristics of stayers –people who analysts are often trying to understand. When stayers differ from joiners and leavers, cross-sectional numbers give inaccurate estimates of stayer characteristics. For example, the linked data show that relatively few adults who stayed in S1 were married and more were never married (compared to S1 joiners and leavers). If this pattern is also present in nationally representative data, cross-sectional data would show a higher marriage rate for non-Hispanic single-race American Indians than was true of S1 stayers. To learn whether differences between stayers and changers are statistically significant, we apply multivariate models in two ways. First, we use multinomial logistic regression models<sup>29</sup> (shown in Table 4) to predict joining or leaving each subgroup, relative to staying in that group. Second, we compare stayers to people making various common response moves. In Table 5 we compare the characteristics of non-Hispanic American Indians who stayed in S1 or S3 to those who made

<sup>&</sup>lt;sup>29</sup> Relative risks  $(\exp(\beta))$  that are below 1.0 show a negative relationship. For example, in Table 4 those who were never married were significantly less likely to leave S1 than they were to stay in this subgroup  $(\exp(\beta)=0.75)$ . Relative risks above 1.0 show the opposite; people who did not report a tribe in either census were more than five times as likely  $(\exp(\beta)=5.63)$  to be S1 leavers than to be S1 stayers.

Table 4: Four multinomial logistic regression models predicting membership in the leaver or joiner group, as opposed to the stayer group Ages 25 and older

	S1: Non-Hispanic		S2: His	S2: Hispanic		Hispanic	S4: Hispanic	
	single-rac	e AIAN	single-rac	e AIAN	multiple-ra	ace AIAN	multiple-ra	ace AIAN
	Leaver	Joiner	Leaver	Joiner	Leaver	Joiner	Leaver	Joiner
	<u>exp(β)</u>	<u>exp(β)</u>	<u>exp(β)</u>	<u>exp(β)</u>	<u>exp(β)</u>	<u>exp(β)</u>	<u>exp(β)</u>	<u>exp(β)</u>
Intercept	0.06 ***	0.06 ***	0.47 ***	1.07	0.56 ***	1.20 **	0.59	2.25 *
Woman	0.93 **	0.93 **	0.96	0.93	0.89 ***	0.85 ***	0.70 **	0.69 ***
Age 40-64	0.73 ***	0.89 ***	1.03	0.83 *	0.88 ***	0.76 ***	0.90	0.82
Age 65 or older	0.67 ***	0.83 ***	1.03	0.94	0.81 ***	0.61 ***	0.89	0.65 *
Foreign-born non-citizen	0.56 ***	0.56 ***	1.09	1.31	0.89	0.69	0.82	1.00
Speaks English less than 'very well'	0.36 ***	0.38 ***	1.30 *	1.42 **	1.23	0.94	1.24	1.64 *
Income 0-100% of poverty line	0.84 ***	0.90 *	1.14	0.97	0.94	0.99	0.90	0.97
Income 101-200% of poverty line	0.92 *	0.99	0.91	0.93	1.02	1.06	1.00	0.99
Income 301% of poverty line or higher	0.98	1.04	1.00	1.01	1.04	0.97	0.96	0.80
Less than high school	1.01	0.93	1.08	0.96	1.14 **	1.25 ***	1.50	1.45
Some college	1.04	1.00	0.93	0.86	0.94	0.98	0.86	0.87
Bachelor's degree or higher	1.09 *	1.02	0.87	0.87	0.82 ***	0.87 ***	0.74	0.70 *
Widowed, separated or divorced	1.03	0.96	1.19	1.14	0.89 ***	1.05	1.06	1.13
Never married	0.75 ***	0.75 ***	1.05	1.01	0.87 ***	0.92 *	1.09	1.03
In the labor force, not employed	0.98	0.93	1.09	1.12	0.87 *	0.90	1.07	1.33
Not in the labor force	1.11 **	1.03	0.93	0.87	0.96	0.97	1.10	1.12
ACS race/Hisp = different from stayers	10.88 ***	5.05 ***	6.13 ***	2.61 ***	6.23 ***	2.82 ***	6.62 ***	3.79 ***
No AIAN ancestry reported	1.89 ***	1.51 ***	2.09 ***	1.81 ***	1.35 ***	1.14 ***	1.16	0.81
Did not report a tribe in either census	5.63 ***	6.86 ***	3.29 ***	3.54 ***	2.82 ***	3.48 ***	2.61 ***	3.55 ***
S./Central Amer. tribe in 2000 or 2010			1.36 **	1.40 **			1.20	1.58 **
Not in Amer. Indian area in 2000 or 2010	3.59 ***	4.04 ***	0.80	0.90	1.36 ***	1.37 ***	1.50	1.28
In Amer. Indian area in 2000 but not 2010	3.07 ***	1.51 ***	1.17	0.41 ***	1.82 ***	0.74 ***	2.33	0.59
In Amer. Indian area in 2010 but not 2000	1.40 ***	3.18 ***	0.26 ***	0.91	0.57 ***	1.70 ***	0.84	1.66
Residential migrant	1.19 ***	1.07	1.08	1.12	1.14 ***	1.10 **	1.19	1.11
In Northeast	1.34 ***	1.59 ***	1.22	1.58 **	1.18 ***	1.25 ***	0.97	1.10
In Midwest	1.19 ***	1.32 ***	1.00	1.25	1.16 ***	1.14 ***	1.07	0.98
In South	1.65 ***	2.41 ***	1.27 *	1.35 **	1.45 ***	1.54 ***	1.30	1.45 *
N in dependent variable category R-squared	14,034 0.39	13,022 031	4,036 0.16	4,016	26,701 0.13	29,074 356	2,044 0.10	3,390 025

\* p <=0.05; \*\* p<=0.01; \*\*\* p<=0.001

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = American Indian/Alaska Native. Numbers represent relative risk of being a leaver or joiner, as opposed to being a stayer in that subgroup. In all models, the comparison groups are: man, age 25-39, U.S. citizen, speaks English very well or only, income 201-300% of poverty level, married, high school or equivalent education, employed in the labor force, ACS race/Hisp same as stayers, AIAN ancestry reported, reported a tribe in 2000 and/or 2010, never reported a Central or South American tribe, in an American Indian area, did not move residences, and in the West region.

one of three response moves: (a) between single-race and multiple-race American Indian, (b) between single-race American Indian and single-race white, and (c) between multiple-race American Indian and single-race white. We present a similar model about Hispanic American Indians in Table 6, comparing S2 and S4 stayers to those who changed (a) between single-race or multiple-race American Indian and single-race white, and (b) between single-race or multiplerace American Indian and single-race Some Other Race.

In Tables 4, 5, and 6, we see substantial and significant differences between those who kept the same race/Hispanic response and those who changed responses across the decade. Measures related to nativity and group connections (non-citizen, English skills, American Indian race and ancestry reports in the ACS, tribe reported, and living in an American Indian area) are quite effective at distinguishing stayers from leavers and joiners. These results give nuance to the finding in Table 2 that even "stayers" have fluid responses, drawing focus instead to differences between those who changed their census response and those who did not. In Tables 4, 5, and 6, other characteristics (gender, age, income, education, marital status, labor force participation, and region) are less strongly associated with changing or keeping a race/Hispanic response.

Our models are particularly effective at parsing non-Hispanic American Indians who changed their response from those who did not, as shown by the relatively high values of  $r^2$  (0.39 for S1 in Table 4, and 0.45 in Table 5). Most of the variables in Table 5 are associated with one type of response pattern more than another. People who switched between multiple-race and single-race American Indian race responses were relatively likely to report a tribe, report American Indian ancestry, and/or live in an American Indian area as compared to people who left or the American Indian group entirely and also as compared to those who consistently

Race response in one census (non-Hisp.)	S3 Stayer	AIAN	AIAN	AIAN +
Race response in other census (non-Hisp.)	(AIAN+)	AIAN +	W	W
i	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$
Intercept	0.03 ***	0.10 ***	0.04 ***	0.03 ***
Woman	1.11 ***	0.98	0.82 ***	0.90 ***
Age 40-64	1.13 ***	0.78 ***	0.82 ***	0.93 **
Age 65 or older	1.38 ***	0.80 ***	0.68 ***	0.97
Foreign-born non-citizen	0.32 ***	0.63 *	0.25 ***	0.11 ***
Speaks English less than 'very well'	0.26 ***	0.24 ***	0.20 ***	0.19 ***
Income 0-100% of poverty line	0.82 ***	0.79 ***	0.88 **	0.78 ***
Income 101-200% of poverty line	0.92	0.92 *	0.98	0.96
Income more than 300% of poverty line	1.04	1.05	1.12 ***	1.03
Less than high school	0.69 ***	0.79 ***	0.99	0.89 ***
Some college	1.21 ***	1.06	0.95	1.05
Bachelor's degree or higher	1.64 ***	1.23 ***	0.95	1.11 ***
Widowed, separated or divorced	1.11 **	0.97	0.94 *	1.00
Never married	0.94	0.75 ***	0.54 ***	0.67 ***
In the labor force, not employed	1.14 *	0.86 *	1.00	1.00
Not in the labor force	1.22 ***	1.14 ***	1.11 ***	1.16 ***
No AIAN ancestry reported	4.75 ***	2.05 ***	5.91 ***	10.24 ***
Did not report a tribe in 2000 or 2010	4.33 ***	1.81 ***	12.85 ***	16.41 ***
Not in American Indian area	9.15 ***	3.92 ***	10.57 ***	20.97 ***
In American Indian area in 2000 OR 2010	3.08 ***	2.13 ***	4.02 ***	5.65 ***
Residential migrant	0.91 *	1.03	1.23 ***	1.02
In Northeast	2.09 ***	1.71 ***	2.07 ***	2.48 ***
In Midwest	1.28 ***	1.43 ***	1.67 ***	1.64 ***
In South	1.95 ***	2.32 ***	4.12 ***	3.40 ***
N in dependent variable category R-squared	8,986	9,080 0.4	14,948 470	37,745

Table 5: Predictors of five patterns of race response by non-Hispanics (comparison category is S1 stayer) Ages 25 and older

\* p <=0.05; \*\* p<=0.01; \*\*\* p<=0.001

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data. Notes: AIAN = single-race American Indian/Alaska Native. AIAN+ = multiple-race American Indian/Alaska Native. W = single-race white. Numbers represent the relative risk of being having this response pattern, as opposed to being an S1 Stayer (non-Hispanic single-race American Indian in both censuses; N=35,868). In all models, the comparison groups are: man, age 25-39, U.S. citizen, speaks English very well or only, income 201-300% of poverty level, married, high school or equivalent education, employed in the labor force, ACS race/Hisp same as stayers, AIAN ancestry reported, reported a tribe in 2000 and/or 2010, in an American Indian area, did not move residences, and in the West region. Table 6: Predictors of four patterns of race response among Hispanics (comparison category is S2 Stayer) Ages 25 and older

Race response in one census (Hispanic)	S4 Stayer	AIAN or	AIAN or
	(AIAN+)	AIAN+	AIAN+
<i>Kace response in other census (Hispanic)</i>	$avn(\beta)$	$\frac{W}{(\beta)}$	$\frac{SOR}{2}$
	<u>exp(p)</u>	exp(p)	<u>exp(p)</u>
Intercept	0.06 ***	0.08 ***	0.17 ***
Woman	1.31 *	0.91	0.82 *
Age 40-64	0.93	1.00	0.74 ***
Age 65 or older	1.49	1.53 **	0.72 *
Foreign-born non-citizen	1.01	1.15	1.41 *
Speaks English less than 'very well'	0.67	1.17	1.70 ***
Income 0-100% of poverty line	1.07	1.02	0.96
Income 101-200% of poverty line	0.86	0.83	0.85
Income more than 300% of poverty line	1.32	1.19	1.01
Less than high school	0.53 **	0.93	1.01
Some college	1.41 *	0.94	0.90
Bachelor's degree or higher	2.39 ***	1.10	0.89
Widowed, separated or divorced	1.28	1.30 *	1.24 *
Never married	1.06	0.97	0.87
In the labor force, not employed	0.97	1.05	0.88
Not in the labor force	0.86	0.91	0.81 *
No AIAN ancestry reported	3.23 ***	6.18 ***	6.23 ***
Did not report a tribe in 2000 or 2010	1.06	5.22 ***	6.96 ***
South/Central Amer. tribe in 2000 or 2010	0.70 *	1.52 ***	2.71 ***
Not in American Indian area	2.25 **	7.83 ***	3.77 ***
In American Indian area in 2000 OR 2010	1.31	3.72 ***	1.86 **
Residential migrant	0.99	1.14	1.01
In Northeast	2.01 **	1.29	1.64 **
In Midwest	1.30	1.23	1.03
In South	1.12	2.01 ***	1.27 *
N in dependent variable category R-squared	473	4,790 0.2341	4,581

\* p <=0.05; \*\* p<=0.01; \*\*\* p<=0.001

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = single-race American Indian/Alaska Native. AIAN+ = multiple-race American Indian/Alaska Native. W = single-race white. SOR = single-race Some Other Race. Numbers represent the relative risk of being having this response pattern, as opposed to being an S2 Stayer (Hispanic single-race American Indian in both censuses; N=1,080). In all models, the comparison groups are: man, age 25-39, U.S. citizen, speaks English very well or only, income 201-300% of poverty level, married, high school or equivalent education, employed in the labor force, ACS race/Hisp same as stayers, AIAN ancestry reported, reported a tribe in 2000 and/or 2010, never reported a Central or South American tribe, in an American Indian area, did not move residences, and in the West region.

reported multiple-race American Indian. Our measures of connection to land and tribe are powerfully predictive of race response patterns among non-Hispanic American Indians.

Measured characteristics are somewhat less effective at distinguishing Hispanic American Indians who changed responses from those who kept the same response (Table 6 and also models about S2 and S4 in Table 4). Like non-Hispanic American Indians, Hispanic American Indians with ties to tribe and homeland areas more often gave consistent responses. Hispanic American Indian stayers (S2 and S4 in Table 6) were much more likely to report American Indian ancestry, report a tribe, or live in an American Indian area than those who changed responses to/from Hispanic single-race white or Hispanic single-race Some Other Race.

In sum, we found that people in our data who changed their race response between 2000 and 2010 were significantly and substantively different than those who did not, and this is particularly true for people who gave a non-American Indian response in 2000 or 2010. People who reported single-race white or Some Other Race in one of these censuses and single- or multiple-race American Indian in the other are distinct from those who consistently reported American Indian (either as stayers or moving between single- and multiple-race responses).

#### How are joiners similar to or different from leavers?

People who joined or left a particular subgroup have appeared (in Tables 3 and 4) to be very similar to each other. This pattern continues at another level when we disaggregate each group of response changers (e.g., separating those moving between S3 and S1 from those in S3 who changed to/from non-Hispanic white); see Appendix Tables D through G for descriptive statistics. To test whether similarities between leavers and joiners are statistically and substantively significant, we turn to the 12 logistic regression models shown in Table 7. In these models, the dependent variable predicts joining a subgroup (rather than leaving it).

In the models in Table 7 there are many significant variables. Joiners were significantly different from leavers in some ways in all groups (with cross-group variation). The results show that people who changed between multiple-race and single-race American Indian (e.g., from S1 to S3) are different from those people who changed their response to/from non-Hispanic white (e.g., S1 to/from non-Hispanic white). Like S1 stayers and S3 stayers (but to a lesser extent), people who moved between multiple-race and single-race American Indian were more likely to report a tribe, live in an American Indian area, and report American Indian ancestry than were people who changed to/from non-Hispanic white. Those who consistently reported American Indian (though sometimes report another race) seem to have "thicker ties" to American Indians (Cornell and Hartman 2007) than those who left the American Indian group entirely.

At the same time, we see very poor model fit for all 12 models in Table 7;  $r^2$  ranges from 0.02 to 0.07. This means that within a particular response pattern, those who move in one direction (e.g., from S2 to Hispanic single-race white) are very similar to those who move in the opposite direction (e.g., from Hispanic single-race white to S2), at least with respect to the characteristics measured here. This model fit is especially poor in comparison to our other analyses using these same variables to distinguish between other types of response change.

Similarities between joiners and leavers could indicate that the census snapshots caught them at different points in a generally dynamic experience. Prior research outlined above suggests that joiners and leavers who otherwise report non-Hispanic white would be similar to one another. Qualitative researchers have found people with fluid identities who give multiplerace responses sometimes and single-race responses at other times (c.f., Rockquemore and Brunsma 2008; Root 1996). Based on our models' inability to distinguish joiners from leavers, we conclude that these scenarios are plausible and bear further study.

Table 7: Odds of *joining* an American Indian subgroup (versus *leaving* the same subgroup), by the race/Hispanic response given in the non-AIAN year Ages 25 and older

AIAN subgroup	S1 sir	: Non-Hispan Igle-race AIA	nic AN	sir	S2: Hispanic Igle-race AIA	N	S3 mul	: Non-Hispaı tiple-race AI	nic AN	S4: Hispanic multiple-race AIAN		
Race and Hispanic response when not in	AIAN+	W	else	SOR,H	W,H	else	AIAN	W	else	SOR,H	W,H	else
that AIAN subgroup	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$	$exp(\beta)$
Intercept	0.83 *	2.23 ***	0.77	4.54 ***	2.02 **	2.25 ***	2.28 ***	2.48 ***	2.40 ***	11.22 ***	2.59 **	3.34 ***
Woman	0.96	1.02	1.00	0.96	0.97	1.05	1.04	0.92 ***	0.96	1.07	1.03	0.96
Age 40-64	1.45 ***	1.14 **	1.25 *	0.86	0.89	0.79 *	0.70 ***	0.92 **	0.87 **	0.98	0.83	1.14
Age 65 or older	1.57 ***	1.08	1.34 *	1.03	1.05	0.96	0.64 ***	0.80 ***	0.75 ***	0.75	0.63 *	1.07
Foreign-born non-citizen	1.32	1.03	0.83	1.04	1.33 *	1.22	0.89	1.20	0.74 *	0.87	1.06	1.64
Speaks English less than 'very well'	0.94	1.51	0.85	1.01	1.12	0.88	1.14	1.11	0.66 ***	1.12	1.37 *	0.88
Income 0-100% of poverty line	1.04	1.08	1.19	1.01	0.67 **	0.94	0.96	1.11 *	0.96	0.89	1.17	1.06
Income 101-200% of poverty line	0.97	1.11	1.22	1.12	0.98	0.87	1.03	1.04	1.03	0.68	0.99	1.13
Income more than 300% of poverty line	1.08	1.00	1.14	1.20	0.91	0.97	0.94	0.93 *	0.97	0.63 *	0.88	0.93
Less than high school	0.78 ***	0.94	1.14	0.82 *	0.97	0.86	1.29 ***	1.06	1.06	0.95	0.83	0.96
Some college	0.91	0.99	0.99	1.06	0.91	0.79 *	1.09	1.03	0.98	1.06	0.91	1.00
Bachelor's degree or higher	0.87 *	1.02	0.91	1.36 *	1.02	0.78	1.14 *	1.09 **	0.88	1.12	0.75 *	1.03
In the labor force, not employed	1.04	0.96	0.83	1.18	1.13	0.94	0.97	1.01	1.10	1.08	1.12	1.59 *
Not in the labor force	0.98	0.92 *	1.03	0.94	1.01	0.91	1.02	0.99	1.08	1.13	1.14	1.01
Widowed, separated or divorced	0.85 **	0.94	1.25 *	1.01	0.89	1.05	1.18 **	1.18 ***	1.13 *	1.19	0.92	1.16
Never married	1.03	0.95	1.32 **	0.95	1.25 *	0.80	0.98	1.01	1.14 *	0.72	1.13	1.02
ACS race/Hisp = different from stayers	0.55 ***	0.36 ***	0.50 ***	0.42 ***	0.41 ***	0.44 ***	0.57 ***	0.44 ***	0.37 ***	0.64	0.60 **	0.46 ***
No AIAN ancestry reported	0.90	0.69 ***	0.89	0.58 ***	0.76 *	0.84	1.38 ***	0.80 ***	0.80 ***	0.62	0.64 **	0.69 ***
Not in Am. Ind. area in AIAN year	1.04	0.92	1.16	1.24	0.94	1.10	0.87 **	0.86 ***	1.16	1.06	0.94	0.88
Did not report a tribe in AIAN year	0.99	1.03	1.42 ***	0.83	1.01	0.93	1.06	1.27 ***	1.17 ***	1.21	1.29 *	1.05
S./Central Amer. tribe in AIAN year				0.88	0.81	0.70 *				1.05	0.99	1.16
Residential migrant	0.99	0.87 **	1.00	1.24	1.14	0.81	1.04	0.99	0.95	1.14	0.88	0.94
In South in AIAN year	1.46 ***	1.32 ***	1.53 ***	1.35 **	1.32 **	1.31 *	0.75 ***	1.14 ***	1.50 ***	1.30	1.51 ***	1.06
In Northeast in AIAN year	1.01	1.12	1.07	1.25	1.38 *	1.39	1.02	1.14 ***	0.92	0.96	1.34	1.00
In Midwest in AIAN year	1.17 **	1.02	1.26	1.26	1.81 ***	1.18	0.88 *	1.00	1.08	0.79	1.13	0.96
N in model	9,080	14,948	3,028	3,144	2,902	2,006	9,080	37,745	8,950	1,437	1,888	2,109
R-squared	0.038	0.070	0.042	0.044	0.040	0.048	0.033	0.039	0.063	0.018	0.038	0.035

\* p <=0.05; \*\* p<=0.01; \*\*\* p<=0.001

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN + = multiple-race American Indian/Alaska Native. AIAN = single-race American Indian/Alaska Native. W = non-Hispanic single-race White. W,H = Hispanic single-race White. Numbers represent relative risk of being a joiner as opposed to being a leaver from that subgroup. In all models, the comparison groups are: stayed in the same AIAN subgroup, man, age 25-39, U.S. citizen, speaks English very well or only, income 201-300% of poverty level, married, high school or equivalent education, in the labor force, ACS race/Hisp same as stayers, AIAN ancestry reported a tribe in 2000 and/or 2010, never reported a Central or South American tribe, in an American Indian area, did not move residences, and in the West region.

## **Discussion and Conclusion**

For decades, researchers have known that the American Indian population grows not only through births, deaths, and migration, but also through changes in racial identification on the census form. Previous research has shown large net increases in the American Indian population in each census since 1960 (c.f., Passel 1997; Liebler and Ortyl 2014) but researchers have not had access to satisfactory data for studying individuals who changed race responses.

We use linked data from Census 2000 and the 2010 Census to understand race and Hispanic response changes among a large number of people who reported American Indian in one or both censuses. We address three questions. To what extent do people join or leave subgroups of American Indians? How are joiners and leavers similar to or different from stayers? And how are joiners similar to or different from leavers? Along the way, we have provided substantial supplementary information about characteristics of Hispanic, non-Hispanic, singlerace, and multiple-race American Indians in our data.

# *To what extent do people change responses to include or exclude American Indian?* Although race is usually assumed to be stable over a person's lifetime, we find a large amount of race response change by people in our data. Joiners and leavers vastly outnumbered stayers among Hispanic and multiple-race American Indians in our data. Almost half of the non-Hispanic single-race American Indians in our Census 2000 data left and were replaced by 2010, and a much higher fraction of Hispanic and multiple-race American Indians left and were replaced. Similarly high levels of response change have been found among other multiple-race groups and among Native Hawaiians and other Pacific Islanders (Liebler et al. 2014).

*How are people who change responses similar to or different from those who do not?* People in our data who changed race responses had different characteristics than those who kept

the same response across two measures a decade apart. Although specific results vary by subgroup, stayers were generally distinct from response changers in terms of measured connection to other American Indians, such as tribe response, ancestry response, and living in an American Indian area. This suggests that people who were consistent with their race response have had different race-related life experiences than those who changed responses.

By further disaggregating joiners and leavers into subgroups, we reveal multiple dynamic processes involving racial fluidity. For example, those who changed between a single-race white response and an American Indian response had a different demographic profile than those who moved between multiple-race and single-race American Indian responses. Our results support the decision by prior researchers to separate investigations of formerly-white American Indians (as done by Fitzgerald (2007) and Sturm (2011)) from studies of people who consistently report American Indian but sometimes report another race or races (as done by Liebler 2001).

*How are joiners similar to or different from leavers?* Our analyses show substantial similarities in the number and characteristics of people who made a particular response move (e.g., from Hispanic single-race American Indian to Hispanic single-race white) and other people who made the inverse move. Multivariate models aimed at distinguishing characteristics of joiners from those of leavers have very poor model fit – characteristics measured in the ACS (though sometimes statistically significant) do not distinguish leavers from joiners very well.

The similarity of joiners and leavers has implications. Joiners and leavers may be engaged in similar identity processes and simply are captured in our data at different points in the process. This complicates the search for reasons that people change race responses; social movements like Red Power (Nagel 1996), for example, are thought to cause mostly unidirectional response change (i.e., joining) and so cannot give a complete explanation of these

findings. Meanwhile, programs serving point-in-time American Indian populations may be fairly unaffected by large-scale churning of individuals into and out of the populations they serve.

Our research has a number of caveats and limitations. Though we applied case selection to limit issues, it is possible that some of the race and Hispanic origin response changes presented were a result of false links or differences in post-enumeration processing across Census 2000 and the 2010 Census. Some race response changes may also be a result of a different person within the household filling out the form, individuals making a mistake when filling out their form, or individuals purposely misreporting their race. Although our linked census data include about two-thirds of all people who reported American Indian in 2000, they are not nationally representative of all American Indians, nor are the 188,000 people who also responded to and were linked to the ACS. Our results are also limited in that we focus on only two measures of a person's race over an entire decade (in 2000 and in 2010); for example, some of our "stayers" gave different responses in the ACS but we do not include these response moves in most of our study. Also, we do not study people who have an American Indian identity but did not report it in the census race question.

Nevertheless, our study makes significant practical contributions. Race response changes impact estimates of population characteristics. Without longitudinal linked data, researchers have not been able to distinguish changing characteristics of individuals (such as improved educational attainment) from data changes caused by differences between those who join and leave the group. We are the first to give empirical information disaggregating American Indians into joiners, stayers, and leavers, across non-Hispanic, Hispanic, single race, and multiple-race groups. Our results also describe characteristics of stayers. On the whole, this study can help

community members better understand their fellows and help researchers and policy makers more effectively interpret 2000 and 2010 census data about American Indians.

Our research also makes important contributions to conceptual understandings of racial identity and racial fluidity. Social definitions of race groups are known to be socially constructed and malleable through historical circumstances and processes (c.f. Cornell and Hartmann 2007; Omi and Winant 1994).We show that race responses of individuals change too, and we give empirical information helpful to theorists working to understand response change. Our data show multiple patterns and suggest that response changes are probably happening for many reasons. For example, joiners and leavers may be undergoing the same type of identity process yet captured in the data at different points in the process. Also, people who change between single-race and multiple-race American Indian responses are similar to those who keep the same response over the decade, suggesting that these groups may also share common identity experiences. Further research and theorizing can fruitfully build on these suggestive findings.

Our research shows that race responses change for a number of people. Analysts from all fields would benefit from conceptualizing and operationalizing a person's race as having a past, present, and future (as is the case for other characteristics such as place of residence), rather than acting as if it is an unchanging trait. The dynamics of race exposed in this research lend an unfamiliar dimension of complexity to the study of groups such as American Indians, but this should not deter researchers from engaging the issue (see Espey et al. 2014). Rather, with new knowledge about the extent of these dynamics we can employ repurposed strategies and theories to gain more realistic insights into our complex social world.

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Census 2000 Gender and Age	S1: Non-Hispanic single-race AIAN			S2 singl	S2: Hispanic single-race AIAN			S3: Non-Hispanic multiple-race AIAN			S4: Hispanic multiple-race AIAN		
-	Leavers	Stayers	Joiners	Leavers	Stayers	Joiners	Leavers	Stayers	Joiners	Leavers	Stayers	Joiners	
Males	154,524	333,183	155,609	63,927	15,187	66,326	267,793	83,219	325,280	31,787	8,332	58,039	
0-9	29,323	68,562	35,044	15,316	4,119	16,845	47,099	20,690	72,408	9,809	3,613	18,161	
10-19	30,530	59,243	26,978	12,276	2,699	12,335	49,325	12,620	56,065	7,238	1,546	11,330	
20-29	24,262	48,027	20,991	9,976	2,058	10,648	36,313	8,872	45,407	4,454	868	8,854	
30-39	24,386	54,731	25,862	11,287	2,478	11,750	41,259	11,916	53,267	4,178	943	8,682	
40-49	23,383	51,089	24,556	8,748	2,260	8,534	44,188	13,615	50,031	3,312	761	6,382	
50-59	14,986	32,997	14,479	4,188	1,118	4,118	30,955	9,739	30,235	1,821	440	3,110	
60-69	5,835	14,335	5,802	1,589	355	1,513	13,739	4,346	12,689	725	121	1,096	
70 +	1,819	4,199	1,897	547	100	583	4,915	1,421	5,178	250	40	424	
Females	167,777	390,143	163,789	67,317	17,344	69,624	297,637	106,666	370,121	35,696	10,120	66,841	
0-9	29,264	67,179	33,126	15,354	4,037	16,925	45,705	20,604	72,327	9,731	3,529	18,258	
10-19	33,748	65,668	27,834	13,617	3,140	13,457	54,194	14,657	63,203	8,217	1,838	14,019	
20-29	25,983	60,252	23,583	10,603	2,820	11,721	39,748	13,571	56,459	5,502	1,464	11,184	
30-39	26,416	68,515	29,007	11,350	3,133	11,827	46,091	17,040	62,932	4,824	1,358	10,098	
40-49	26,884	64,607	26,692	9,122	2,558	8,750	52,487	18,967	57,492	4,006	1,108	7,592	
50-59	16,397	39,315	14,326	4,490	1,133	4,096	36,246	13,555	33,565	2,205	576	3,500	
60-69	6,419	17,895	6,139	1,871	373	1,889	15,844	5,869	15,603	842	196	1,502	
70 +	2,666	6,712	3,082	910	150	959	7,322	2,403	8,540	369	51	688	

Appendix Table A: Four American Indian subgroups by Census 2000 gender and age

Sources: Census 2000 and 2010 Census.

Note: AIAN = American Indian/Alaska Native.

Appendix Table B	: Race responses in	Census 2000,	the ACS, and	the 2010 Census
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	Rac	e		Characteristics in Census 2000 and/or 2010 Census												
	respons	se in		His	panic ori	gin		Amer	ican Indian	area		Tribe	report		Age in	2000
	2000 ACS	2010	N	yes	one census	ou		yes	one census	ou		at least once	no		0-17	18+
Consis	stent res	spons	ses													
1)			45,869	1,045	1,175	43,649		29,836	5,855	10,178		45,319	550	1	4,477	31,392
2)	+ +	+	8,308	507	213	7,588		1,221	938	6,149		7,505	803		2,720	5,588
AIAN	and AIA	N+	responses only													
3)		+	3,177	195	142	2,840		1,236	558	1,383		3,079	98		1,219	1,958
4)	+		4,239	177	136	3,926		1,863	579	1,797		4,151	88		1,545	2,694
5)	+		3,488	148	85	3,255		1,306	534	1,648		3,399	89		1,234	2,254
6)	+	+	3,358	159	82	3,117		935	495	1,928		3,225	133		1,195	2,163
7)	+	+	1,513	112	46	1,355		463	219	831		1,447	66		579	934
8)	+ +		2,034	89	40	1,905		646	261	1,127		1,939	95		765	1,269
Left er	numerat	ed A	IAN population													
9)			1,860	316	116	1,428		353	287	1,220		1,446	414		528	1,332
10)			13,191	4,224	551	8,416		778	1,257	11,156		7,589	5,602		4,003	9,188
11)	+ +		4,377	240	116	4,021		358	359	3,660		3,143	1,234		1,280	3,097
12)	+ //		27,506	1,876	845	24,785		1,257	2,170	24,079		16,806	10,700		7,638	19,868
13)	+		1,486	100	57	1,329		267	189	1,030		1,184	302		458	1,028
14)	+		762	65	29	668		121	107	534		587	175		252	510
Joinea	l enume	ratec	l AIAN population	n												
15)	Ø.	_	4,757	741	274	3,742		979	750	3,028		3,809	948		1,592	3,165
16)			10,332	3,820	467	6,045		618	928	8,786		5,562	4,770		3,496	6,836
17)	<u> </u>	+	10,238	478	358	9,402		740	978	8,520		7,337	2,901		3,427	6,811
18)		+	27,179	2,904	1,018	23,257		1,235	2,376	23,568		15,137	12,042		8,879	18,300
19)		+	1,681	238	76	1,367		301	203	1,177		1,277	404		586	1,095
20)	// +		2,387	200	88	2,099		461	293	1,633		1,913	474		835	1,552
Non-A	IAN rad	ce rej	ported in ACS on	ly												
21)			3,387	458	159	2,770		835	462	2,090		3,091	296		1,032	2,355
22)	+	+	4,242	378	117	3,747		419	385	3,438		3,603	639		1,330	2,912
23)		+	1,635	227	65	1,343		287	213	1,135		1,486	149		554	1,081
24)	+ //		1,125	85	32	1,008		213	149	763		1,041	84		376	749

= American Indian/Alaska Native alone

+ = American Indian/Alaska Native in combination with another race(s)

= Any other race(s)

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = American Indian/Alaska Native. Data include people who responded to the 2000 and 2010 censuses and an ACS in 2006-2010. Hispanic responses and response changes are not taken into account in this table.

Appendix Table C: Characteristics of American Indians, by response stability, for four sub-populations

	S1	: Non-Hispanic		S2: Hispanic				
	sin	gle-race AIAN		sin	gle-race AIAN			
—	Leavers	Stayers	Joiners	Leavers	Stayers	Joiners		
Gender and age								
Woman	10,391	26,871	9,852	3,276	910	3,284		
Man	9,531	23,474	9,368	2,979	770	3,089		
Age 0-9	626	1,538	765	247	76	283		
Age 10-24	5,262	13,269	5,433	1,972	536	2,074		
Age 25-39	4,489	9,983	3,655	1,374	378	1,533		
Age 40-64	7,606	20,023	7,516	2,278	599	2,119		
Age 65 or older	1,939	5,532	1,851	384	91	364		
Citizenship and English language ability								
U.S. born and/or citizen of the U.S.	19,797	50,221	19,140	5,512	1,613	5,591		
Foreign-born non-citizen	125	124	80	743	67	782		
Speaks English 'very well' or only	19,693	47,414	19,001	4,864	1,531	4,969		
Speaks English less than 'very well'	229	2,931	219	1,391	149	1,404		
Poverty (range 0-999)								
Mean income as a percent of poverty line	326%	274%	333%	273%	310%	281%		
Education (ages 25+ only)								
Less than high school	2,021	6,591	1,829	1,325	205	1,220		
High school or GED	4,208	11,860	4,068	1,104	288	1,154		
Some college	5,061	12,381	4,667	1,137	409	1,137		
Bachelor's degree	1,749	3,115	1,675	301	108	340		
Graduate or professional degree	995	1,591	783	169	58	165		
Labor force (ages $25 + only$ )		,						
In the labor force, employed	8,409	20,290	7,899	2,574	678	2,653		
In the labor force, not employed	758	2.383	667	267	66	273		
Not in the labor force	4.867	12.865	4.456	1.195	324	1.090		
Marital status (ages $25 + only$ )	,	y	y	,		,		
Currently married	8.688	20.217	8.261	2.434	635	2,446		
Widowed, separated or divorced	3.419	8.333	3.094	883	219	825		
Never married	1.927	6.988	1.667	719	214	745		
Race/Hispanic response in ACS	<b>,</b> -		,					
Same as stayers in this sub-population	4.664	43.377	7,474	655	855	1.215		
Different from stayers in sub-population	15.258	6.968	11.746	5,600	825	5.158		
AIAN ancestry	-,		,	- ,		-,		
AIAN ancestry reported at all	11.929	46.208	13.321	1.363	1.032	1.661		
No AIAN ancestry reported	7.993	4.137	5.899	4.892	648	4.712		
Connection to AIAN communities	.,	.,	-,	.,		.,		
Reported a tribe in at least one census	16.063	49.681	15.544	3.357	1.469	3.530		
Did not report a tribe in 2000 or 2010	3.859	664	3.676	2.898	211	2.843		
S./Central Amer. tribe in 2000 or 2010	154	30	84	1.312	276	1.359		
Lived in American Indian area both census	4.029	31.676	4.395	433	252	434		
In Amer. Indian area in 2000 but not 2010	1.887	3.088	793	339	93	127		
In Amer Indian area in 2010 but not 2000	883	3 369	1 850	114	122	369		
Not in Amer. Indian area in 2000 or 2010	13 123	12 212	12 182	5 369	1 213	5 4 4 3		
Residence	13,125	12,212	12,102	5,507	1,215	5,145		
Residential migrant	3 502	4715	3 026	825	221	931		
No indication of residential migration	16.420	45 630	16 194	5 4 3 0	1 459	5 442		
In Northeast	1 636	1 372	1 378	571	1,-137 85	5,++2 697		
In Midwest	4 668	9 745	4 155	627	190	720		
In South	7 797	14 744	8 771	1 624	297	1 593		
In West	5 821	24 484	4 916	3 433	1 108	3 363		
III WOOL	5,021	27,404	7,710	5,755	1,100	5,505		
Total N	19,922	50,345	19,220	6,255	1,680	6,373		
Total ages 25+	14,034	35,538	13,022	4,036	1,068	4,016		

Continued

#### Appendix Table C, continued

	S3	: Non-Hispanic		S4: Hispanic				
Characteristic in the ACS (unless noted)	mul	tiple-race AIAN	I	mult	iple-race AIAN			
	Leavers	Stayers	Joiners	Leavers	Stayers	Joiners		
Gender and age								
Woman	19,177	7,134	21,995	1,915	553	3,146		
Man	16,968	5,556	19,769	1,608	444	2,734		
Age 0-9	1,033	465	1,470	203	93	320		
Age 10-24	8,411	3,239	11,220	1,276	431	2,170		
Age 25-39	6,895	2,071	8,347	782	177	1,344		
Age 40-64	15,172	5,255	16,227	1,052	254	1,754		
Age 65 or older	4,634	1,660	4,500	210	42	292		
Citizenship and English language ability								
U.S. born and/or citizen of the U.S.	35,909	12,651	41,596	3,328	977	5,438		
Foreign-born non-citizen	236	39	168	195	20	442		
Speaks English 'very well' or only	35,530	12,578	41,260	3,138	949	5,046		
Speaks English less than 'very well'	615	112	504	385	48	834		
Poverty (range 0-999)								
Mean income as a percent of poverty line	347%	349%	332%	344%	350%	316%		
Education (ages $25 + only$ )								
Less than high school	3,242	817	3,682	357	36	671		
High school or GED	7.683	2.352	8.032	461	90	801		
Some college	9.872	3,460	10.883	711	190	1.165		
Bachelor's degree	3.695	1.368	4.025	310	87	481		
Graduate or professional degree	2.209	989	2,452	205	70	272		
Labor force (ages $25 + only$ )	,		<b>y</b> -					
In the labor force, employed	15.765	5.148	17.144	1.381	334	2.247		
In the labor force, not employed	1.337	485	1.594	110	25	229		
Not in the labor force	9 599	3 353	10 336	553	114	914		
Marital status (ages $25 \pm only$ )	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,000	10,000	000		211		
Currently married	16 409	5 264	16 726	1 191	275	1 940		
Widowed separated or divorced	6 4 9 4	2 391	7 880	418	102	739		
Never married	3 798	1 331	4 468	435	96	711		
Race/Hispanic response in ACS	5,190	1,551	1,100	155	20	/11		
Same as stayers in this sub-population	5 973	7 565	12 535	420	476	925		
Different from stayers in sub-population	30 172	5 125	29 229	3 103	521	4 955		
AIAN ancestry	50,172	5,125	29,229	5,105	521	4,755		
AIAN ancestry reported at all	15 142	8 026	20 326	725	380	1 454		
No AIAN ancestry reported	21.003	4 664	21,438	2 798	617	4 4 2 6		
Connection to AIAN communities	21,005	4,004	21,450	2,790	017	4,420		
Reported a tribe in at least one census	25 134	11 422	28 519	2 101	813	3 342		
Did not report a tribe in 2000 or 2010	11 011	1 268	13 245	1 422	184	2 538		
S /Central Amer. tribe in 2000 or 2010	218	1,208	101	500	126	2,558		
Lived in American Indian area both consusas	3 820	2.026	101	113	120	220		
In Amer. Indian area in 2000 but not 2010	2,820	2,020	4,540	115	45	100		
In Amer. Indian area in 2010 but not 2010	2,388	055	1,179	181	50	222		
In Amer. Indian area in 2010 but not 2000	971	763	5,235	75 2 156	33 961	5 220		
Not III Amer. Indian area in 2000 of 2010	28,900	9,240	52,784	5,150	801	3,238		
Restaence	5 000	1 707	6.021	579	142	000		
Residential migrant	5,900	1,787	0,931	578	142	988		
INO INDICATION OF RESIDENTIAL MIGRATION	30,245	10,903	34,833	2,945	833	4,892		
In Northeast	4,208	1,202	4,928	403	106	830		
	9,310	3,212	10,438	470	153	699		
In South	13,074	3,913	15,435	785	146	1,357		
in west	9,553	4,363	10,963	1,865	592	2,994		
Total N	36.145	12.690	41.764	3.523	997	5.880		
Total ages 25+	26,701	8,986	29,074	2,044	473	3,390		

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data

Notes: AIAN = American Indian/Alaska Native. Leavers are in the subpopulation in 2000 but not 2010 while joiners are in the subpopulation in 2010 but not 2000. Stayers are in the subpopulation in both censuses. ACS race/ethnicity response is not taken into account in this classification but is shown in Table 2.

Appendix Table D: Characteristics of people who joined, left, and stayed in the non-Hispanic single-race AIAN (S1) group

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	S1: Non-Hispanic single-race AIAN	Left to			C.	Joined from		
$ \begin{array}{c} \hline Gender and age \\ \hline Gender and age \\ \hline Woman \\ \hline Woman \\ \hline Woman \\ \hline Source \\ \hline Woman \\ \hline Woman \\ \hline Source \\ \hline Source \\ \hline Source \\ \hline Woman \\ \hline Source \\ \hline So$	Race/Hisp in non-AIAN year	AIAN+	W	Else	Stayers	AIAN+	W	Else
Woman      3.975      5.028      1.388      26.871      3.276      5.226      1.350        Man      3.325      5.043      1.163      23.474      2.892      5.341      1.135        Age 0-9      224      2.07      1.35      1.538      2.54      3.83      1.28        Age 10-24      2.107      2.249      906      13.269      1.743      2.851      8.39        Age 65 or older      0.668      2.747      5.932      6.45      9.64      2.242        Criticenship and English language ability      U      US. born andor critizen of the U.S.      7.280      10.042      2.475      50.221      6.153      10.544      2.443        Speaks English very well' or only      7.240      10.021      2.432      47.414      6.111      10.492      2.398        Speaks English very well' or only      7.240      10.021      2.475      50.221      6.153      10.544      2.444        Speaks English very well' or only      50      119      2.31      57      7      87        Poverty (range 0-999)	Gender and age							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Woman	3.975	5.028	1.388	26.871	3.276	5.226	1.350
Age 0-9      224      207      155      1,538      224      383      128        Age 10-24      2,107      2,249      906      13,269      1,743      2,851      839        Age 25-39      1.668      2,274      547      9,983      1,124      2,060      471        Age 65 or older      680      1,072      187      5,532      645      944      242        Citizenship and English language ability      20      29      76      124      15      23      42      Speaks English very well' or only      7,240      10,021      2,475      50,221      6,153      10,544      2,443        Speaks English less than 'very well'      60      50      119      2,931      57      75      87        Mean income as a percent of poveny line      322%      340%      287%      274%      336%      344%      276%        Educatior of GDD      1,412      2,347      449      11,860      1,323      2,284      461        Sone college      1,865      2,687      509      1,231      1,565 <td>Man</td> <td>3.325</td> <td>5.043</td> <td>1.163</td> <td>23,474</td> <td>2.892</td> <td>5.341</td> <td>1.135</td>	Man	3.325	5.043	1.163	23,474	2.892	5.341	1.135
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Age 0-9	284	207	135	1.538	254	383	128
Age 25-391,6682,2745479,9831,1242,060471Age 65 or older2,5614,26977620,0232,4024,309805Age 65 or older6801,0721875,532645964242Citizenship and Engish language ability00.0422,47550,2216,15310,5442,443Speaks Engish Very well' or only7,24010,0212,43247,4146,11110,4922,398Speaks Engish Very well' or only7,24010,0212,43247,4146,11110,4922,398Speaks Engish Very well'60501192,931577587Povery (range 0-599)	Age 10-24	2.107	2.249	906	13,269	1.743	2.851	839
Age 40-64      2,561      4,269      776      20,023      2,402      4,309      805        Age 65 or older      680      1,072      187      5,532      645      964      242        Citzenship and English language ability      U.S., born and/or citizen of the U.S.      7,280      10,042      2,475      50,221      6,153      10,544      2,432        Speaks English Very well' or only      7,240      10,021      2,432      47,414      6,111      10,492      2,398        Speaks English Very well' or only      7,240      10,021      2,432      47,414      6,111      10,492      2,398        Mem income as a percent of poverty line      322%      340%      287%      274%      336%      344%      276%        Less than high school      \$82      1,153      286      6,591      1,323      2,284      461        Some college      1,865      2,687      592      1,515      558      955      152        Graduate op rofessional degree      659      923      167      3,115      558      965      152	Age 25-39	1.668	2.274	547	9,983	1,124	2.060	471
Age 65 or older      Bar	Age 40-64	2,561	4 269	776	20.023	2,402	4 309	805
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Age 65 or older	680	1,072	187	5 532	645	964	242
$ \begin{array}{c} Currently unit problem integration of the U.S. Transport of the U.S. born and/or citizen of the U.S. Transport of Transport of the U.S. Transport of Tran$	Citizenship and English language ability	000	1,072	107	5,552	015	201	212
Construction of the Construction on on-critized    120    120    124    15    2.3    2.4    2.4    3.0    2.4    3.0    3.4    2.3    3.4    2.3    3.4    2.3    3.4    2.3    3.4    2.3    3.4    2.3    3.4    2.3    3.4    2.3    3.5    7.5    87      Powerty (range 0-999)    30    3.4    60    1.3    3.6    3.44    2.74%    3.36%    3.44%    2.76%    3.6    6.591    4.35    1.061    3.3    1.6    1.3    1.6    1.33    1.1    1.665    2.615    487    3.15    5.58    9.65    1.52    2.615    487    3.15    5.58    9.65    1.52    2.616    487    3.15    5.58    9.65    1.52    2.64    4.13    1.21    2.381    1.565    2.615    4.87    1.66    2.699    4.92    1.2.865    1.447    2.451    558    1.66    1.64    1.676    2.699    4.92    1.2.865    1.447    2.451    558    1.66    1.66    1.676    2.699    4.92    <	US born and/or citizen of the US	7 280	10.042	2 475	50 221	6 1 5 3	10 544	2 4 4 3
Discogn to in trackin      2.0      1.0      2.1      2.4      1.1      1.1      1.2      2.2      3.2        Speaks English very well'      60      50      119      2.931      57      75      87        Mean income as a percent of poverty line      322%      340%      287%      274%      336%      344%      276%        Education (ages 25+ only)      Less than high school      582      1,153      286      6.591      435      1,061      333        High school or GED      1,412      2,347      449      11,860      1,323      2,284      461        Some college      1,865      2,687      709      1,2381      1,565      2,615      435      1,616      333        In the labor force, enployed      3,009      4,503      897      20,200      2,539      4,506      854        In the labor force, not employed      2,244      121      2,383      1,85      376      106        Not in the labor force, not employed      2,049      421      2,865      1,447      2,451      588	Foreign-born non-citizen	20	29	2,475	124	0,155	23	2,443 42
Speaks Engine (c) were (or of the construction (ages 25+ only)    582    1,153    286    6,591    435    1,061    333      High school or GED    1,412    2,347    449    11,860    1,323    2,244    461      Some college    1,865    2,687    509    12,381    1,565    2,615    487      Graduate or professional degree    6391    505    99    1,591    290    408    855      Labor force, ager 25+ only)    In the labor force, nor employed    3,009    4,503    897    20,290    2,539    4,506    854      In the labor force, nor employed    2,24    413    121    2,383    185    376    106      Never married    3,014    4,869    805    20,217    2,723    4,832    706      Widwoed, separated or divorced    1,178    1,874    367    333    905    1,470    449      Never married    717    872    338    6,988    543    761    363      Single-race AIAN, non-Hispanic <td>Speaks English 'very well' or only</td> <td>7 240</td> <td>10.021</td> <td>2 132</td> <td>124</td> <td>6 1 1 1</td> <td>10.492</td> <td>2 308</td>	Speaks English 'very well' or only	7 240	10.021	2 132	124	6 1 1 1	10.492	2 308
Speaks (highs) less (hall vely weith 100 100 100 100 100 100 100 100 100 10	Speaks English loss than 'yory well'	7,240	50	2,432	2 021	57	75	2,370
Diversity (Large 0597)      Addition (large 25+ only)      Solution (large 25+ only)        Less than high school      582      1,153      286      6,591      435      1,061      333        High school or GED      1,412      2,347      449      11,860      1,323      2,284      461        Some college      1,865      2,687      509      12,381      1,555      2,615      487        Bachelor's degree      659      923      167      3,115      558      965      152        Graduate or professional degree      391      505      99      1,591      290      408      85        Labor force, not employed      3,009      4,503      897      20,290      2,539      4,506      854        Marital status (ages 25+ only)      U      U      2,665      1,447      2,451      558        Gurently married      3,014      4,869      805      20,217      2,723      4,832      706        Widowed, segarated or divorced      1,178      1,874      367      8,333      905      1,740      449	Powerty (range 0,000)	00	50	119	2,951	57	15	07
International module application of porety line $122.0$ $124.0$ $24.0.0.0$ $24.0.0.0$ $24.0.0.0$ $24.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0$	Mean income as a percent of poverty line	377%	340%	287%	274%	336%	31106	276%
Late that for the set of th	Education (ages 25 - only)	32270	54070	20170	27470	55070	54470	27070
Less than their school or GED    1,412    2,347    449    11,865    2,687    509    12,381    1,565    2,615    447      Bachelor's degree    659    923    167    3,115    558    965    152      Graduate or professional degree    391    505    99    1,591    200    408    85      Labor force, employed    224    413    121    2,383    185    376    106      Not in the labor force, on employed    224    413    121    2,383    185    376    106      Not in the labor force    1,676    2,699    492    12,865    1,447    2,451    558      Marital status (ages 25+ only)    Currently married    3,014    4,869    805    20,217    2,723    4,832    706      Widowed, separated or divorced    1,178    1,874    367    8,333    905    1,740    449      Never married    717    872    338    6,988    543    761    363      Race/Hispanic response in ACS    Signal - 4,467    8,759    2,032    6,968	Lass then high school	592	1 1 5 2	286	6 501	125	1.061	222
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Less man nigh school	J02 1 412	1,155	200	11 860	433	2,001	355
Some contege      1,805      2,087      309      1,2,51      1,505      2,015      487        Bachelor's degree      659      923      167      3,115      558      965      152        Graduate or professional degree      391      505      99      1,591      290      408      85        Labor force (ages 25 + only)        11      12      2,383      185      376      106        Not in the labor force      1,676      2,699      492      12,865      1,447      2,451      558        Marital status (ages 25 + only)          761      8,333      905      1,740      449        Never married      717      872      338      6,988      543      761      363        Single-race AIAN, non-Hispanic      2,833      1,312      519      43,377      3,237      3,513      724        AlAN ancestry reported at all      5,828      4,886      1,215      46,208      5,145      6,899      1,277        No AIAN ancestry reported      1,472		1,412	2,547	449 500	11,000	1,525	2,204	401
Bachelor's degree      559      525      167      5,115      558      965      152        Graduate or professional degree      391      505      99      1,591      290      408      85        Labor force (ages 25+ only)      1      1      1,513      290      408      85        Marinal status (ages 25+ only)      224      413      121      2,383      185      376      106        Not in the labor force, one mployed      224      413      121      2,383      185      376      106        Widowed, separated or divorced      1,676      2,699      492      12,865      1,447      2,451      558        Marinel status (ages 25+ only)      200      48.869      805      20,217      2,723      4,832      706        Widowed, separated or divorced      1,178      1,874      367      8,333      905      1,740      449        Never married      717      872      338      6,988      543      761      363        Race/Hispanic response      4,467      8,759      2,032      6,	Some conege	1,805	2,087	309	12,381	1,303	2,015	487
Craduate or processional degree      351      305      39      1,391      290      408      85        Labor force (ages 25+ only)      In the labor force, not employed      224      413      121      2,383      185      376      106        Not in the labor force, not employed      224      413      121      2,383      185      376      106        Not in the labor force      1,676      2,699      492      12,865      1,447      2,451      558        Marital status (ages 25+ only)      Currently married      3,014      4,869      805      20,217      2,723      4,832      706        Never married      717      872      338      6,988      543      761      363        Race/Hispanic response in ACS      Single-race AIAN, non-Hispanic      2,833      1,312      519      43,377      3,237      3,513      724        AlAN ancestry      AlAN ancestry      AlAN ancestry      AlAN ancestry      1,472      5,185      1,336      4,137      1,023      3,668      1,208        Connectin to ALAN communities      Racore traibe in 2000 or	Bachelor's degree	659	923	10/	3,115	558 200	965	152
Labor force (ages 25+ only)In the labor force, employed $3,009$ $4,503$ $897$ $20,290$ $2,539$ $4,506$ $854$ In the labor force, not employed $224$ $413$ $121$ $2,383$ $185$ $376$ $106$ Not in the labor force $1,676$ $2,699$ $492$ $12,865$ $1,447$ $2,451$ $558$ Marital status (ages 25+ only)Currently married $3,014$ $4,869$ $805$ $20,217$ $2,723$ $4,832$ $706$ Widowed, separated or divorced $1,178$ $1,874$ $367$ $8,333$ $905$ $1,740$ $449$ Never married $717$ $872$ $338$ $6,988$ $543$ $761$ $363$ Race/Hispanic response in ACSSingle-race AIAN, non-Hispanic $2,833$ $1,312$ $519$ $43,377$ $3,237$ $3,513$ $724$ AlAN ancestryAIAN ancestry reported $1,472$ $5,185$ $1,215$ $46,208$ $5,145$ $6,899$ $1,277$ No AIAN ancestry reported $1,472$ $5,185$ $1,336$ $4,137$ $1,023$ $3,668$ $1,208$ Connection to AIAN communities $7,008$ $7,406$ $1,649$ $49,681$ $5,953$ $8,157$ $1,434$ Did not report a tribe in at least one census $7,008$ $7,406$ $1,649$ $49,681$ $5,953$ $8,157$ $1,434$ Did not report a tribe in $2000$ or $2010$ $292$ $2,665$ $902$ $664$ $215$ $2,410$ $1,051$ Lived in Am. Ind. area in $2000$ but	Graduate or professional degree	391	505	99	1,591	290	408	85
In the labor force, not employed    3,009    4,303    897    20,290    2,539    4,506    854      In the labor force, not employed    224    413    121    2,383    185    376    106      Not in the labor force, not employed    2,44    413    121    2,383    185    376    106      Marital status (ages 25+ only)         558      Currently married    3,014    4,869    805    20,217    2,723    4,832    706      Widowed, separated or divorced    1,178    1,874    367    8,333    905    1,740    449      Never married    717    872    338    6,988    543    761    363      Race/Hispanic response in ACS         3,704    1,761      AlAN ancestry         4,865    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported at all    5,828    4,886    1,215    46,208    5,145    6,891    1,765	Labor force (ages $25 + only$ )	2 000	1 502	007	20,200	2 520	1.506	054
In the labor force    1,24    413    121    2,383    185    3/6    106      Not in the labor force    1,676    2,699    492    12,865    1,447    2,451    558      Marital status (ages 25+ only)    0    0    0    147    2,723    4,832    706      Widowed, separated or divored    1,178    1,874    367    8,333    905    1,740    449      Never married    717    872    338    6,988    543    761    363      Race/Hispatic response in ACS    3    3    0,51    7,054    1,761      AlAN ancestry reported at all    5,828    4,866    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to ALAN communities    7008    7,006    1,649    49,681    5,953    8,157    1,434      Did no report a tribe in at least one census    7,006    1,472    5,185    3,069    492    3,02    99      In Am. Ind. area in 2000 but n	In the labor force, employed	3,009	4,503	897	20,290	2,539	4,506	854
Not in the labor force      1,6/6      2,699      492      12,865      1,447      2,451      558        Marital status (ages 25+ only)      Currently married      3,014      4,869      805      20,217      2,723      4,832      706        Widowed, separated or divorced      1,178      1,874      367      8,333      905      1,740      449        Never married      717      872      338      6,988      543      761      363        Race/Hispanic response in ACS      Single-race AIAN, non-Hispanic      2,833      1,312      519      43,377      3,237      3,513      724        Alav ancestry      And other response      4,467      8,759      2,032      6,968      2,931      7,054      1,761        AIAN ancestry reported at all      5,828      4,886      1,215      46,208      5,145      6,899      1,277        No AIAN ancestry reported      1,472      5,185      1,336      4,137      1,023      3,668      1,208        Connection to AIAV communities      Reported a tribe in a least one census      7,008      7,406      1,649	In the labor force, not employed	224	413	121	2,383	185	376	106
Marital status (ages 25+ only)      Currently married    3,014    4,869    805    20,217    2,723    4,832    706      Widowed, separated or divorced    1,178    1,874    367    8,333    905    1,740    449      Never married    717    872    338    6,988    543    761    363      Race/Hispanic response in ACS        3,513    724      Any other response    4,467    8,759    2,032    6,968    2,931    7,054    1,761      AIAN ancestry         4467    8,759    2,032    6,968    2,931    7,054    1,761      AIAN ancestry reported at all    5,828    4,886    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities    Reported a tribe in at least one census    7,008    7,406    1,649    49,681    5,953    8,157    1,434    Did not report a tribe in 2000 or 2010    2	Not in the labor force	1,676	2,699	492	12,865	1,447	2,451	558
Currently married    3,014    4,869    805    20,217    2,723    4,832    706      Widowed, separated or divorced    1,178    1,874    367    8,333    905    1,740    449      Never married    717    872    338    6,988    543    761    363      Race/Hispanic response in ACS    519    43,377    3,237    3,513    724      Any other response    4,467    8,759    2,032    6,968    2,931    7,054    1,761      AIAN ancestry      4,886    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities         4,886    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities        1,274    458    31,676 <td< td=""><td>Marital status (ages 25+ only)</td><td>• • • • •</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Marital status (ages 25+ only)	• • • • •						
Widowed, separated or divorced    1,178    1,874    367    8,333    905    1,740    449      Never married    717    872    338    6,988    543    761    363      Race/Hispanic response in ACS	Currently married	3,014	4,869	805	20,217	2,723	4,832	706
Never matried      717      872      338      6,988      543      761      363        Race/Hispanic response in ACS      Single-race AIAN, non-Hispanic      2,833      1,312      519      43,377      3,237      3,513      724        Any other response      4,467      8,759      2,032      6,968      2,931      7,054      1,761        AIAN ancestry      AIAN ancestry reported at all      5,828      4,886      1,215      46,208      5,145      6,899      1,277        No AIAN ancestry reported      1,472      5,185      1,336      4,137      1,023      3,668      1,208        Connection to AIAN communities      Reported a tribe in alleast one census      7,008      7,406      1,649      49,681      5,953      8,157      1,434        Did not report a tribe in 2000 or 2010      292      2,665      902      664      215      2,410      1,051        Lived in Am. Ind. area in 2000 but not 2010      567      1,118      202      3,088      392      302      99        In Am. Ind. area in 2000 or 2010      3,822      7,501      1,800	Widowed, separated or divorced	1,178	1,874	367	8,333	905	1,740	449
Race/Hispanic response in ACS      Single-race AIAN, non-Hispanic    2,833    1,312    519    43,377    3,237    3,513    724      Any other response    4,467    8,759    2,032    6,968    2,931    7,054    1,761      AIAN ancestry reported at all    5,828    4,886    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities    Reported a tribe in at least one census    7,008    7,406    1,649    49,681    5,953    8,157    1,434      Did not report a tribe in 2000 or 2010    292    2,665    902    664    215    2,410    1,051      Lived in Am. Ind. area both censuses    2,317    1,254    458    31,676    2,089    1,870    436      In Am. Ind. area in 2000 but not 2010    567    1,118    202    3,088    392    302    99      Not in Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195    7,235    1,752      R	Never married	717	872	338	6,988	543	761	363
Single-race AIAN, non-Hispanic    2,833    1,312    519    43,377    3,237    3,513    724      Any other response    4,467    8,759    2,032    6,968    2,931    7,054    1,761      AIAN ancestry      1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities         1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities         1,472    5,185    1,366    4,137    1,023    3,668    1,208      Lived in Am. Ind. area both censuses    2,317    1,254    458    31,676    2,089    1,870    436      In Am. Ind. area in 2000 but not 2010    567    1,118    202    3,088    392    302    99      In Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195	Race/Hispanic response in ACS							
Any other response    4,467    8,759    2,032    6,968    2,931    7,054    1,761      AIAN ancestry    AIAN ancestry reported at all    5,828    4,886    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities    Reported a tribe in at least one census    7,008    7,406    1,649    49,681    5,953    8,157    1,434      Did not report a tribe in 2000 or 2010    292    2,665    902    664    215    2,410    1,051      Lived in Am. Ind. area both censuses    2,317    1,254    458    31,676    2,089    1,870    436      In Am. Ind. area in 2000 but not 2010    567    1,118    202    3,088    392    302    99      In Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195    7,235    1,752      Residential migrati    1,075    1,984    443    4,715    866    1,753    407      No indication of residential migration	Single-race AIAN, non-Hispanic	2,833	1,312	519	43,377	3,237	3,513	724
AIAN ancestry      AIAN ancestry reported at all    5,828    4,886    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities	Any other response	4,467	8,759	2,032	6,968	2,931	7,054	1,761
AIAN ancestry reported at all    5,828    4,886    1,215    46,208    5,145    6,899    1,277      No AIAN ancestry reported    1,472    5,185    1,336    4,137    1,023    3,668    1,208      Connection to AIAN communities	AIAN ancestry							
No AIAN ancestry reported      1,472      5,185      1,336      4,137      1,023      3,668      1,208        Connection to AIAN communities      Reported a tribe in at least one census      7,008      7,406      1,649      49,681      5,953      8,157      1,434        Did not report a tribe in 2000 or 2010      292      2,665      902      664      215      2,410      1,051        Lived in Am. Ind. area both censuses      2,317      1,254      458      31,676      2,089      1,870      436        In Am. Ind. area in 2000 but not 2010      567      1,118      202      3,088      392      302      99        In Am. Ind. area in 2000 or 2010      3,822      7,501      1,800      12,212      3,195      7,235      1,752        Residential migrant      1,075      1,984      443      4,715      866      1,753      407        No indication of residential migration      6,225      8,087      2,108      45,630      5,302      8,814      2,078        In Northeast      408      838      390      1,372      313      709	AIAN ancestry reported at all	5,828	4,886	1,215	46,208	5,145	6,899	1,277
Connection to AIAN communities        Reported a tribe in at least one census      7,008      7,406      1,649      49,681      5,953      8,157      1,434        Did not report a tribe in 2000 or 2010      292      2,665      902      664      215      2,410      1,051        Lived in Am. Ind. area both censuses      2,317      1,254      458      31,676      2,089      1,870      436        In Am. Ind. area in 2000 but not 2010      567      1,118      202      3,088      392      302      99        In Am. Ind. area in 2000 or 2010      584      198      91      3,369      492      1,160      198        Not in Am. Ind. area in 2000 or 2010      3,822      7,501      1,800      12,212      3,195      7,235      1,752        Residence          443      4,715      866      1,753      407        No indication of residential migration      6,225      8,087      2,108      45,630      5,302      8,814      2,078        In Northeast      1,075      1,984      443      4,715      <	No AIAN ancestry reported	1,472	5,185	1,336	4,137	1,023	3,668	1,208
Reported a tribe in at least one census    7,008    7,406    1,649    49,681    5,953    8,157    1,434      Did not report a tribe in 2000 or 2010    292    2,665    902    664    215    2,410    1,051      Lived in Am. Ind. area both censuses    2,317    1,254    458    31,676    2,089    1,870    436      In Am. Ind. area in 2000 but not 2010    567    1,118    202    3,088    392    302    99      In Am. Ind. area in 2010 but not 2000    594    198    91    3,369    492    1,160    198      Not in Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195    7,235    1,752      Residentice    1,075    1,984    443    4,715    866    1,753    407      No indication of residential migration    6,225    8,087    2,108    45,630    5,302    8,814    2,078      In Northeast    408    838    390    1,372    313    709    356      In Midwest    1,728    2,628    312    9,745    1,414    2,417	Connection to AIAN communities							
Did not report a tribe in 2000 or 20102922,6659026642152,4101,051Lived in Am. Ind. area both censuses2,3171,25445831,6762,0891,870436In Am. Ind. area in 2000 but not 20105671,1182023,08839230299In Am. Ind. area in 2010 but not 2000594198913,3694921,160198Not in Am. Ind. area in 2000 or 20103,8227,5011,80012,2123,1957,2351,752Residential migrant1,0751,9844434,7158661,753407No indication of residential migration6,2258,0872,10845,6305,3028,8142,078In Northeast4088383901,372313709356In Midwest1,7282,6283129,7451,4142,417324In South2,7684,29373614,7442,6655,240866In West2,3962,3121,11324,4841,7762,201939Total N7,30010,0712,55150,3456,16810,5672,485Total ages 25+4,9097,6151,51035,5384,1717,3331,518	Reported a tribe in at least one census	7,008	7,406	1,649	49,681	5,953	8,157	1,434
Lived in Am. Ind. area both censuses    2,317    1,254    458    31,676    2,089    1,870    436      In Am. Ind. area in 2000 but not 2010    567    1,118    202    3,088    392    302    99      In Am. Ind. area in 2010 but not 2000    594    198    91    3,369    492    1,160    198      Not in Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195    7,235    1,752      Residence     7,501    1,984    443    4,715    866    1,753    407      No indication of residential migration    6,225    8,087    2,108    45,630    5,302    8,814    2,078      In Northeast    408    838    390    1,372    313    709    356      In Midwest    1,728    2,628    312    9,745    1,414    2,417    324      In South    2,768    4,293    736    14,744    2,665    5,240    866      In West    2,396    2,312    1,113    24,484    1,776    2,201    939 <t< td=""><td>Did not report a tribe in 2000 or 2010</td><td>292</td><td>2,665</td><td>902</td><td>664</td><td>215</td><td>2,410</td><td>1,051</td></t<>	Did not report a tribe in 2000 or 2010	292	2,665	902	664	215	2,410	1,051
In Am. Ind. area in 2000 but not 2010    567    1,118    202    3,088    392    302    99      In Am. Ind. area in 2010 but not 2000    594    198    91    3,369    492    1,160    198      Not in Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195    7,235    1,752      Residence     1,075    1,984    443    4,715    866    1,753    407      No indication of residential migration    6,225    8,087    2,108    45,630    5,302    8,814    2,078      In Northeast    408    838    390    1,372    313    709    356      In Midwest    1,728    2,628    312    9,745    1,414    2,417    324      In South    2,768    4,293    736    14,744    2,665    5,240    866      In West    2,396    2,312    1,113    24,484    1,776    2,201    939      Total N    7,300    10,071    2,551    50,345    6,168    10,567    2,485      Total ares 25+	Lived in Am. Ind. area both censuses	2,317	1,254	458	31,676	2,089	1,870	436
In Am. Ind. area in 2010 but not 2000    594    198    91    3,369    492    1,160    198      Not in Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195    7,235    1,752      Residence     1,075    1,984    443    4,715    866    1,753    407      No indication of residential migration    6,225    8,087    2,108    45,630    5,302    8,814    2,078      In Northeast    408    838    390    1,372    313    709    356      In Midwest    1,728    2,628    312    9,745    1,414    2,417    324      In South    2,768    4,293    736    14,744    2,665    5,240    866      In West    2,396    2,312    1,113    24,484    1,776    2,201    939      Total N    7,300    10,071    2,551    50,345    6,168    10,567    2,485      Total ares 25+    4,909    7,615    1,510    35,538    4,171    7,333    1,518	In Am. Ind. area in 2000 but not 2010	567	1,118	202	3,088	392	302	99
Not in Am. Ind. area in 2000 or 2010    3,822    7,501    1,800    12,212    3,195    7,235    1,752      Residence    Residential migrant    1,075    1,984    443    4,715    866    1,753    407      No indication of residential migration    6,225    8,087    2,108    45,630    5,302    8,814    2,078      In Northeast    408    838    390    1,372    313    709    356      In Midwest    1,728    2,628    312    9,745    1,414    2,417    324      In South    2,768    4,293    736    14,744    2,665    5,240    866      In West    2,396    2,312    1,113    24,484    1,776    2,201    939      Total N    7,300    10,071    2,551    50,345    6,168    10,567    2,485      Total ares 25+    4.909    7,615    1.510    35.538    4.171    7.333    1.518	In Am. Ind. area in 2010 but not 2000	594	198	91	3,369	492	1,160	198
Residence        Residential migrant      1,075      1,984      443      4,715      866      1,753      407        No indication of residential migration      6,225      8,087      2,108      45,630      5,302      8,814      2,078        In Northeast      408      838      390      1,372      313      709      356        In Midwest      1,728      2,628      312      9,745      1,414      2,417      324        In South      2,768      4,293      736      14,744      2,665      5,240      866        In West      2,396      2,312      1,113      24,484      1,776      2,201      939        Total N      7,300      10,071      2,551      50,345      6,168      10,567      2,485        Total ages 25+      4,909      7,615      1,510      35,538      4,171      7,333      1,518	Not in Am. Ind. area in 2000 or 2010	3,822	7,501	1,800	12,212	3,195	7,235	1,752
Residential migrant1,0751,9844434,7158661,753407No indication of residential migration6,2258,0872,10845,6305,3028,8142,078In Northeast4088383901,372313709356In Midwest1,7282,6283129,7451,4142,417324In South2,7684,29373614,7442,6655,240866In West2,3962,3121,11324,4841,7762,201939Total N7,30010,0712,55150,3456,16810,5672,485Total ages 25+4,9097,6151,51035,5384,1717,3331,518	Residence							
No indication of residential migration6,2258,0872,10845,6305,3028,8142,078In Northeast4088383901,372313709356In Midwest1,7282,6283129,7451,4142,417324In South2,7684,29373614,7442,6655,240866In West2,3962,3121,11324,4841,7762,201939Total N7,30010,0712,55150,3456,16810,5672,485Total ages 25+4,9097,6151,51035,5384,1717,3331,518	Residential migrant	1,075	1,984	443	4,715	866	1,753	407
In Northeast4088383901,372313709356In Midwest1,7282,6283129,7451,4142,417324In South2,7684,29373614,7442,6655,240866In West2,3962,3121,11324,4841,7762,201939Total N7,30010,0712,55150,3456,16810,5672,485Total ages 25+4,9097,6151,51035,5384,1717,3331,518	No indication of residential migration	6,225	8,087	2,108	45,630	5,302	8,814	2,078
In Midwest1,7282,6283129,7451,4142,417324In South2,7684,29373614,7442,6655,240866In West2,3962,3121,11324,4841,7762,201939Total N7,30010,0712,55150,3456,16810,5672,485Total ages 25+4,9097,6151,51035,5384,1717,3331,518	In Northeast	408	838	390	1,372	313	709	356
In South2,7684,29373614,7442,6655,240866In West2,3962,3121,11324,4841,7762,201939Total N7,30010,0712,55150,3456,16810,5672,485Total ages 25+4,9097,6151,51035,5384,1717,3331,518	In Midwest	1,728	2,628	312	9,745	1,414	2,417	324
In West2,3962,3121,11324,4841,7762,201939Total N7,30010,0712,55150,3456,16810,5672,485Total ages 25+4,9097,6151,51035,5384,1717,3331,518	In South	2,768	4,293	736	14,744	2,665	5,240	866
Total N    7,300    10,071    2,551    50,345    6,168    10,567    2,485      Total ages 25+    4.909    7.615    1.510    35.538    4.171    7.333    1.518	In West	2,396	2,312	1,113	24,484	1,776	2,201	939
Total ages 25+ 4.909 7.615 1.510 35 538 4.171 7.333 1.518	Total N	7 300	10.071	2 551	50 345	6 168	10 567	2 185
	Total ages 25+	4 909	7.615	1.510	35 538	4 171	7,333	1 518

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = American Indian/Alaska Native. AIAN + = non-Hispanic multiple-race AIAN. W = non-Hispanic single-race white. Else = any other race/Hispanic origin response. Stayers are in the subpopulation in both censuses. ACS race/ethnicity response is not taken into account in this classification but is shown in Table 2.

Appendix Table E: Characteristics of people who joined, left, and stayed in the Hispanic single-race AIAN (S2) group

S2: Hispanic single-race AIAN	Left to			~	Joined from		
Race/Hisp in non-AIAN year	H, SOR	<i>H</i> , <i>W</i>	Else	Stayers	H, SOR	H,W	Else
Gender and age						,	
Woman	970	1,323	983	910	1,431	907	946
Man	929	1.161	889	770	1.451	860	778
Age 0-9	57	97	93	76	120	70	93
Age 10-24	595	681	696	536	865	501	708
Age 25-39	445	533	396	378	753	410	370
Age 40-64	711	979	588	599	1.008	645	466
Age 65 or older	91	194	99	91	136	141	87
Citizenship and English language ability							
U.S. born and/or citizen of the U.S.	1.515	2.188	1.809	1.613	2,400	1.516	1.675
Foreign-born non-citizen	384	296	63	67	482	251	49
Speaks English 'very well' or only	1.265	1.893	1.706	1.531	2.045	1.331	1.593
Speaks English less than 'very well'	634	591	166	149	837	436	131
Poverty (range ()-999)	001	0,11	100	1.12	007		101
Mean income as a percent of poverty line	249%	287%	280%	310%	274%	292%	282%
Education (ages 25+ only)	,,,,	20770	20070	010/0	_, .,.	_>_	202/0
Less than high school	534	557	234	205	643	394	183
High school or GED	333	466	305	288	528	334	292
Some college	286	475	376	409	504	317	316
Bachelor's degree	59	137	105	108	153	103	84
Graduate or professional degree	35	71	63	58	69	48	48
Labor force (ages $25 \pm only$ )	55	/1	05	50	0)	-10	40
In the labor force, employed	838	1.087	649	678	1 317	765	571
In the labor force, not employed	69	1,007	93	66	1,917	705	571 77
Not in the labor force	340	514	341	324	461	354	275
Marital status (ages 25+ only)	540	514	541	524	401	554	215
Currently married	803	1.057	574	635	1 213	737	496
Widowed separated or divorced	230	392	261	219	343	243	239
Never married	230	257	201	217	341	243	188
Race/Hispanic response in ACS	214	251	240	214	541	210	100
Single-race AIAN Hispanic	116	146	393	855	440	234	541
Any other response	1 783	2 338	1 479	825	2 442	1 533	1 183
AIAN ancestry	1,705	2,330	1,479	025	2,112	1,555	1,105
AIAN ancestry reported at all	108	224	1.031	1 032	357	238	1.066
No AIAN ancestry reported at an	1 791	2 2 60	841	648	2 525	1 529	658
Connection to AIAN communities	1,771	2,200	041	040	2,525	1,527	0.50
Reported a tribe in at least one census	802	1.065	1 490	1 469	1 373	755	1 402
Did not report a tribe in 2000 or 2010	1 097	1,005	382	211	1,575	1 012	322
S /Central Amer. tribe in 2000 or 2010	561	549	202	276	843	366	150
Lived in Am Ind. area both consuses	20	21	302	270	33	18	383
In Am Ind. area in 2000 but not 2010	98	129	112	03	24	10	03
In Am Ind. area in 2010 but not 2010	78 14	12)	80	122	156	102	111
Not in Am. Ind. area in 2000 or 2010	1 767	2 323	1 270	1 213	2 669	1 637	1 1 1 3 7
Residence	1,707	2,525	1,279	1,215	2,007	1,057	1,157
Residential migrant	223	335	267	221	410	206	225
No indication of residential migration	1 676	2 1 4 9	1 605	1 450	2 472	1 471	1 400
In Northeast	217	188	1,005	85	380	1,471	1,477
In Midwest	160	187	276	100	500 276	210	132 234
In South	109	852	270	207	270 676	552	254
In West	1 109	1 262	1.062	1 108	1 550	840	973
in trest	1,107	1,202	1,002	1,100	1,550	0+0	115
Total N	1,899	2,484	1,872	1,680	2,882	1,767	1,724
Total ages 25+	1,247	1,706	1,083	1,068	1,897	1,196	923

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = American Indian/Alaska Native. H, SOR = Hispanic single-race Some Other Race. H, W = Hispanic single-race white. Else = any other race/Hispanic origin response. Stayers are in the subpopulation in both censuses. ACS race/ethnicity response is not taken into account in this classification but is shown in Table 2.

Appendix Table F: Characteristics of people who joined, left, and stayed in the non-Hispanic multiple-race AIAN (S3) group

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	S3: Non-Hispanic multiple-race AIAN	Left to			Ctorrege	Joined from		
	Race/Hisp in non-AIAN year	AIAN	W	Else	Stayers	AIAN	W	Else
Woman      3.276      12,441      3,460      7,134      3,975      13,869      4,151        Man      2,892      11,358      2,718      5,556      3,325      13,278      3,166        Age 0-9      254      549      230      465      284      880      306        Age 10-24      1,743      4,926      1,742      3,239      2,107      6,846      2,267        Age 25-39      1,124      4,659      1,202      2,071      1,668      5,114      1,588        Citizenship and English lenguage ability      US.      6,153      23,767      5,989      12,651      7,280      27,105      7,211        Foreign-bron non-citizen      15      32      189      39      20      42      106        Speaks English less than ivery well      57      151      407      112      60      178      266        Poverry (range 0-999)	Gender and age							
Man      2.892      11.358      2.718      5.556      3.228      3.166        Age 0-9      254      549      230      465      224      880      306        Age 10-24      1.743      4.926      1.742      3.239      2.107      6.686      2.267        Age 25-39      1.124      4.569      1.202      2.071      1.668      5.141      1.538        Age 40-64      2.402      1.0404      2.366      5.255      2.561      1.1098      2.568        Citizenship and English language ability      US.      6.13      2.3767      5.989      12.651      7.280      27.105      7.211        Foreign-Form onn-critizen      15      32      189      39      20      42      106        Speaks English 'very well' or only      6.111      23.648      5.771      12.578      7.240      2.606      7.051        Speaks English hess tham 'very well'      57      151      407      112      6.0      178      2.626      474        High school      435      2.470      437	Woman	3,276	12,441	3,460	7,134	3,975	13,869	4,151
Age 0-9      254      549      230      465      284      880      306        Age 10-24      1,743      4,926      1,742      3,239      2,107      6,846      2,267        Age 25-39      1,124      4,569      1,202      2,071      1,668      5,141      1,538        Age 65 or older      645      3,551      658      1,560      680      3,182      638        Critizenship and English language ability      U.S. born androor citizen of the U.S.      6,153      2,3767      5,989      12,651      7,280      27,105      7,211        Foreign-born non-citizen      15      32      189      39      20      42      106        Speaks English test min very well      57      151      407      112      60      178      266        Powerry (range 0-999)	Man	2,892	11,358	2,718	5,556	3,325	13,278	3,166
Age      10-24      1,743      4.926      1,742      3.239      2.107      6.846      2.267        Age      25-39      1,124      4.569      1.202      2.071      1.668      5,141      1.538        Age      60-64      2.402      10.0404      2.266      3.255      2.561      11.098      2.568        Age      63 of the Log tagge ability      11.028      2.568      5.71      12.578      7.240      27,105      7.211        Foreign-born non-citizen      15      32      189      39      20      42      106        Speaks English very well'      57      151      407      112      60      178      266        Coverty (range 0-999)	Age 0-9	254	549	230	465	284	880	306
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Age 10-24	1.743	4.926	1.742	3.239	2.107	6.846	2.267
Age 40-64      2,402      10,404      2,366      5,255      2,561      11,098      2,568        Age 65 or older      645      3,351      638      1,660      680      3,182      638        Citizenship and English language ability      U.S. born and/or citizen of the U.S.      6,153      23,767      5,989      12,651      7,280      27,105      7,211        Foreign-bron non-citizen      15      32      189      39      20      42      106        Speaks English less than very well'      57      151      407      112      60      178      266        Poverty (range 0-999)      366%      349%      347%      349%      322%      337%      324%        Education (age 0-990)      1323      5,483      877      2,352      1,412      5,631      98        Some college      1,565      6,700      1,607      3,460      1,865      7,073      1,945        Bachelor's degree      2,539      1,588      2,638      5,148      3,009      11,240      2,895        In the labor force, not employed	Age 25-39	1.124	4.569	1.202	2.071	1.668	5,141	1.538
Age 65 or older6453,3516381,6606803,182638Chizenship and English language abilityU.S. born andror citizen61,15323,7675,98912,6517,28027,1057,211Foreign-born non-citizen1532189392042106Speaks English less than 'very well' or only61,11123,6485,77112,5787,24026,9697,051Speaks English less than 'very well'5715140711260178266Poverty (range 0-999)Mean income as a percent of poverty line336%349%347%349%322%337%324%Mean income as a percent of poverty line1,5656,7001,6071,3686577,0731,945Less than high school4352,3704378175822,626474High school or GED1,3235,4838772,3521,4125,631989Some college1,5656,7001,6071,3686592,526840Graduate or professional degree2,53910,5882,6385,1483,00911,2402,895In the labor force, ent enployed1,858912,614352,3131,6767,1531,507Marital status (ages 25+ only)Currently married2,4231,15662,1205,2643,1047,3562,099Avo in the labor force, ent enployed1,858,7341,2638,0265	Age 40-64	2.402	10.404	2.366	5.255	2,561	11.098	2,568
The series    Total    Total <thtotal< th=""></thtotal<>	Age 65 or older	645	3 351	638	1 660	680	3 182	638
	Citizenshin and English language ability	0.10	0,001	000	1,000	000	0,102	000
Brack mean non-citizen      15      32      189      39      20      24      164        Speaks English very well' or only      6,111      23,648      5,771      12,578      7,240      26,969      7,051        Speaks English very well'      57      151      407      112      60      178      266        Powerty (range 0-999)      36%      349%      347%      349%      322%      337%      324%        Education (ages 25+ only)      26.66      474      High school or GED      1,323      5,483      877      2,322      1,412      5,631      989        Some college      1,565      6,700      1,607      3,460      1,865      7,073      1,945        Bachelor's degree      258      2,340      797      1,368      659      2,526      840        Graduate or professional degree      290      1,431      488      9391      1,565      496        Labor force (ages 25+ only)      1      1      10,588      8,148      3,009      1,1240      2,828        In the labor force, employed	U.S. born and/or citizen of the U.S.	6 1 5 3	23 767	5 989	12 651	7 280	27 105	7 211
Noting torm lands      1      23.54      5.71      12.578      7.240      26.969      7.051        Speaks English less than 'very well'      57      151      407      112      60      178      266        Poverty (range 0-999)      Mean income as a percent of poverty line      336%      349%      347%      349%      342%      337%      324%        Education (age 25+ only)      Less than high school      435      2.370      437      817      582      2.626      474        High school or GED      1,323      5,483      877      2.352      1,412      5,631      989        Some college      1,565      6,700      1,607      3,466      1,865      7,073      1,945        Bachelor's degree      290      1,431      488      989      391      1,565      496        Labor force, not employed      1,85      891      261      485      224      1,028      342        Not in the labor force, engloyed      2,723      11,566      2,120      5,264      3,014      1,1576      2,136        W	Foreign-horn non-citizen	15	32	189	39	20	42	106
Decision Lingth 1    1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Speaks English 'very well' or only	6 1 1 1	23 648	5 771	12 578	7 240	26.969	7 051
Departs Largian Less unit Coy went    1.51    1.51    1.60    1.12    0.60    1.15    1.60      Mean income as a percent of poverty line    336%    349%    347%    349%    322%    337%    324%      Education (ages 25+ only)    1.323    5.483    877    2.352    1.412    5.631    989      Some college    1.565    6.700    1.607    3.460    1.865    7.073    1.945      Bachelor's degree    558    2.340    797    1.368    659    2.526    840      Graduate or professional degree    290    1.431    488    989    391    1.565    496      Labor force (ages 25+ only)    In the labor force, on employed    1.85    891    261    485    2.24    1.028    342      Not in the labor force    1.447    6.845    1.307    3.533    1.676    7.153    1.507      Marital status (ages 25+ only)    Currently married    2.723    11.566    2.120    5.264    3.014    1.176    5.230    1.382      Never married    543    2.313    942	Speaks English less than 'very well'	57	151	407	112,570	7,240 60	178	266
Mean income as a percent of poverty line      336%      349%      347%      349%      322%      337%      324%        Education (ages 25+ only)      Less than high school      435      2,370      437      817      582      2,626      474        High school or GED      1,323      5,483      877      2,552      1,412      5,631      989        Some college      1,565      6,700      1,607      3,460      1,865      7,073      1,945        Bachelor's degree      558      2,340      797      1,368      659      2,526      840        Graduate or professional degree      290      1,431      488      989      391      1,565      496        Labor force, employed      185      891      261      485      224      1,028      342        No in the labor force      1,447      6,845      1,307      3,353      1,676      7,153      1,507        Maritistatus (ages 25+ only)      Currently married      2,723      11,566      2,120      5,264      3,014      11,576      2,136        Wid	Powerty (range 0-000)	57	151	407	112	00	170	200
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Mean income as a percent of poverty line	336%	3/0%	3/7%	3/0%	377%	337%	32/1%
Lass than high school (435 2,370 437 817 582 2,626 474 High school or GED 1,323 5,483 877 2,352 1,412 5,631 899 Some college 1,565 6,700 1,607 3,460 1,865 7,073 1,945 Bachelor's degree 558 2,340 797 1,368 659 2,526 840 Graduate or professional degree 290 1,431 488 989 391 1,565 496 Labor force (age 25+ only) In the labor force, employed 2,539 10,588 2,638 5,148 3,009 11,240 2,895 In the labor force, not employed 185 891 261 485 224 1,028 342 Not in the labor force employed 185 891 261 485 224 1,028 342 Not in the labor force on temployed 185 891 261 485 224 1,028 342 Not in the labor force on temployed 185 891 261 485 224 1,028 342 Not in the labor force on temployed 543 2,313 942 1,331 717 2,525 1,226 Race/Hispanic response in ACS Multiple-race ALAN, non-Hispanic 1,892 3,271 810 7,356 3,100 7,336 2,099 Any other response in ACS Multiple-race ALAN, non-Hispanic 1,892 3,271 810 7,565 3,100 7,336 2,099 Any other response in ACS Multiple-race ALAN, non-Hispanic 1,892 3,271 810 7,565 3,100 7,336 2,099 Any other response in ACS Multiple-race ALAN, non-Hispanic 1,892 3,271 810 7,565 3,100 7,336 2,099 Any other response in ACS Multiple-race ALAN non-Hispanic 1,892 3,271 810 7,565 3,100 7,336 2,099 ALAN ancestry reported at all 5,145 8,734 1,263 8,026 5,828 12,295 2,203 No ALAN ancestry reported at all 5,145 8,734 1,263 8,026 5,828 12,295 2,203 Did not report at ribe in a least one census 5,953 16,308 2,873 11,422 7,008 18,018 3,493 Did not report a tribe in a 2000 or 2010 2115 7,491 3,305 1,268 292 9,129 3,824 Lived in Am. Ind. area in 2000 but not 2010 392 1,783 213 633 567 513 99 In Am. Ind. area in 2000 but not 2010 392 1,783 213 633 567 513 99 In Am. Ind. area in 2000 but not 2010 392 1,783 213 633 567 513 99 In Am. Ind. area in 2000 but not 2010 392 1,783 213 633 567 513 99 In Am. Ind. area in 2000 but not 2010 392 1,783 213 633 567 513 99 In Am. Ind. area in 2000 but not 2010 392 1,783 213 633 567 513 99 In Am. Ind. area in 2000 but not 2010 392 1,562 169 2,026 2,317 2,008 221 In	Education (ages $25\pm$ only)	55070	54770	54770	54770	32270	33170	52470
Less taining school or GED    1,323    5,483    877    2,352    1,412    5,631    989      Some college    1,565    6,700    1,607    3,460    1,865    7,073    1,945      Bachelor's degree    558    2,340    797    1,368    659    2,526    840      Graduate or professional degree    290    1,431    488    989    391    1,565    496      Labor force, employed    2,539    10,588    2,618    485    224    1,028    342      Not in the labor force, ont employed    185    891    261    485    224    1,028    342      Currently married    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Widtwed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Alzon costry reported at all    5,145    8,734    1,263    8,026    5,828    1,2295    2,203      No ALAN	Less than high school	135	2 370	137	817	582	2 626	171
Ingla school of GLD    1,223    5,483    6,70    1,612    5,001    1,501    500      Some college    1,555    6,700    1,607    3,460    1,865    7,073    1,942      Bachelor's degree    290    1,431    488    989    391    1,565    440      Labor force (age 25+ only)    In the labor force, mot employed    1,85    891    261    485    224    1,028    342      Not in the labor force, not employed    1,85    891    261    485    224    1,028    342      Marital status (ages 25+ only)    U    U    U    1,178    5,320    1,382      Currently married    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Widowed, separated or divorced    905    4,445    1,444    2,391    1,178    5,320    1,382      Never married    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Multiple-race AIAN, non-Hispanic    1,892    3,271    810    7,565    3,100    7,336    2,099	High school or GED	1 3 2 3	5 483	437 877	2 352	1 412	2,020	4/4
Bachelor's degree    1,303    0,703    1,303    1,003 <td>Some college</td> <td>1,525</td> <td>6 700</td> <td>1 607</td> <td>2,352</td> <td>1,412</td> <td>7.073</td> <td>1 0 4 5</td>	Some college	1,525	6 700	1 607	2,352	1,412	7.073	1 0 4 5
Dathen subject    338    2,340    797    1,308    0.39    2,210    640      Graduate or professional degree    290    1,431    488    989    391    1,565    446      Labor force (ages 25+ only)    1    1    1    1    889    261    485    224    1,028    342      Not in the labor force, ont employed    185    891    2.61    485    224    1,028    342      Marital status (ages 25+ only)    Currently matried    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Widowed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Multiple-race ALAN, non-Hispanic    1,892    3,271    810    7,565    3,100    7,336    2,099      AAy ancestry    ALAN ancestry    AIAN ancestry    AIAN ancestry    1,023    15,065    4,917    1,485    5,114      Connectin to ALAN communities    Reported a tribe in at leas	Bachalor's dagraa	1,505	2 2 4 0	707	1,400	1,805	2,526	1,945
Chaduate of professional degree    250    1,331    488    369    351    1,303    490      Labor force (ages 25+ only)    In the labor force, employed    185    891    261    485    224    1,028    342      Not in the labor force, not employed    185    891    261    485    224    1,028    342      Not in the labor force    1,447    6,845    1,307    3,353    1,676    7,153    1,507      Marial status (ages 25+ only)    Currently married    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Widowed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Multiple-race AIAN, non-Hispanic    1,892    3,271    810    7,565    3,100    7,336    2,099      AlAN ancestry      4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry reported    1,023    15,065	Graduate or professional degree	200	2,540	191	1,508	201	2,520	040 406
Labor force (lages 25+ only)In the labor force, employed2,53910,5882,6385,1483,00911,2402,895In the labor force1,4476,8451,3073,3531,6767,1531,507Marital status (ages 25+ only)3,2531,6767,1531,507Marital status (ages 25+ only) <td>Labor fores (goes 25 - orb.)</td> <td>290</td> <td>1,451</td> <td>400</td> <td>989</td> <td>591</td> <td>1,505</td> <td>490</td>	Labor fores (goes 25 - orb.)	290	1,451	400	989	591	1,505	490
In the labor force, employed    2,339    10,388    2,038    5,143    5,009    11,240    2,439      In the labor force, not employed    185    891    261    485    224    1,028    342      Not in the labor force    1,447    6,845    1,307    3,353    1,676    7,153    1,507      Marital status (ages 25+ only)    Currently married    2,723    11,566    2,120    5,264    3,014    11,576    2,132      Never married    543    2,313    942    1,331    717    2,525    1,226      Race/Hispanic response in ACS         3,100    7,336    2,099      Any other response    4,276    20,528    5,368    5,125    4,200    19,811    5,118      AIAN ancestry reported at all    5,145    8,734    1,263    8,026    5,828    12,295    2,203      No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities      7,491    3,305    1,268	Labor force (ages 25+ only)	2 5 2 0	10 599	2 629	<b>5</b> 140	2 000	11 240	2 205
In the labor force, not employed    185    891    261    485    224    1,028    342      Not in the labor force    1,447    6,845    1,307    3,353    1,676    7,153    1,507      Marital status (ages 25+ only)    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Widowed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Race/Hispanic response in ACS    1,892    3,271    810    7,565    3,100    7,336    2,099      AIAN ancestry    AIAN ancestry reported at all    5,145    8,734    1,263    8,026    5,828    12,295    2,203      No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities    8    2    1,6308    2,873    11,422    7,008    18,018    3,493      Did not report a tribe in at least one census    5,953    16,308    2,873	In the labor force, employed	2,339	10,588	2,038	5,148	3,009	11,240	2,895
Not in the labor force    1,447    6,845    1,307    5,353    1,676    7,153    1,307      Marital status (ages 25+ only)    Currently married    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Widowed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Race/Hispanic response in ACS    Multiple-race AIAN, non-Hispanic    1,892    3,271    810    7,565    3,100    7,336    2,099      Any other response    4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry     7    7,008    18,018    3,493      Did not reported at all    5,145    8,734    1,263    8,026    5,828    12,295    2,203      No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities    Reported a tribe in at least one census    5,953    16,308    2,	In the labor force, not employed	185	891	201	485	224	1,028	342 1 507
Marital status (ages 25 + only)      Currently married    2,723    11,566    2,120    5,264    3,014    11,576    2,136      Widowed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Race/Hispanic response in ACS    1,892    3,271    810    7,565    3,100    7,336    2,099      Any other response    4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry      1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities          3,005    1,268    292    9,129    3,824      Lived in Am. Ind. area both censuses    2,089    1,562    169    2,026    2,317    2,008    221    99    1    nAm. Ind. area in 2000 or 2010    3,195    20,045    5,726    9,246    3,822    22,209    6,753      R	Not in the labor force	1,447	6,845	1,307	3,353	1,076	7,155	1,507
Currently married    2,723    11,566    2,120    5,264    3,014    11,576    2,130      Widowed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Race/Hispanic response in ACS    1,892    3,271    810    7,565    3,100    7,336    2,099      Any other response    4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry      1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities         3,305    1,268    292    9,129    3,824      Lived in Am. Ind. area both censuses    2,089    1,562    169    2,026    2,317    2,008    221      In Am. Ind. area in 2000 but not 2010    392    1,783    213    633    567    513    99      In Am. Ind. area in 2000 but not 2000    492    409    70 <t< td=""><td>Marital status (ages <math>25 + only)</math></td><td>2 7 2 2</td><td>11.566</td><td>0 100</td><td>5.064</td><td>2 0 1 4</td><td>11 576</td><td>0.100</td></t<>	Marital status (ages $25 + only)$	2 7 2 2	11.566	0 100	5.064	2 0 1 4	11 576	0.100
Widowed, separated or divorced    905    4,445    1,144    2,391    1,178    5,320    1,382      Never married    543    2,313    942    1,331    717    2,525    1,226      Race/Hispanic response in ACS	Currently married	2,723	11,566	2,120	5,264	3,014	11,576	2,136
Never married    543    2,313    942    1,331    717    2,525    1,226      Race/Hispanic response in ACS    Multiple-race AIAN, non-Hispanic    1,892    3,271    810    7,565    3,100    7,336    2,099      Any other response    4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry    AIAN ancestry reported at all    5,145    8,734    1,263    8,026    5,828    12,295    2,203      No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities    Reported a tribe in at least one census    5,953    16,308    2,873    11,422    7,008    18,018    3,493      Did not report a tribe in 2000 or 2010    215    7,491    3,305    1,268    292    9,129    3,824      Lived in Am. Ind. area both censuses    2,089    1,562    169    2,026    2,317    2,008    221      In Am. Ind. area in 2000 but not 2010    3,92    1,783    213    633    567    513    99      In Am. Ind	Widowed, separated or divorced	905	4,445	1,144	2,391	1,178	5,320	1,382
Race/Hispanic response in ACS      Multiple-race AIAN, non-Hispanic    1,892    3,271    810    7,565    3,100    7,336    2,099      Any other response    4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry        4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry        4,200    19,811    5,218      AIAN ancestry reported at all    5,145    8,734    1,263    8,026    5,828    12,295    2,203      No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities        9    3,305    1,268    292    9,129    3,824      Lived in Am. Ind. area both censuses    2,089    1,562    169    2,026    2,317    2,008    221      In Am. Ind. area in 2000 but not 2010    392    1,783    213    633    567    513    99      In Am. Ind	Never married	543	2,313	942	1,331	717	2,525	1,226
Multiple-race AIAN, non-Hispanic    1,892    3,271    810    7,565    3,100    7,336    2,099      Any other response    4,276    20,528    5,368    5,125    4,200    19,811    5,218      AIAN ancestry    AIAN ancestry reported at all    5,145    8,734    1,263    8,026    5,828    12,295    2,203      No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities    Reported a tribe in at least one census    5,953    16,308    2,873    11,422    7,008    18,018    3,493      Did not report a tribe in 2000 or 2010    215    7,491    3,305    1,268    292    9,129    3,824      Lived in Am. Ind. area both censuses    2,089    1,562    169    2,026    2,317    2,008    221      In Am. Ind. area in 2000 but not 2010    392    1,783    213    633    567    513    99      In Am. Ind. area in 2000 or 2010    3,195    20,045    5,726    9,246    3,822    22,209    6,753      Residential migrant	Race/Hispanic response in ACS	1 000	2 251	010		2 1 0 0	= 22.5	• • • • •
Any other response4,27620,5285,3685,1254,20019,8115,218AIAN ancestryAIAN ancestryAIAN ancestry reported at all5,1458,7341,2638,0265,82812,2952,203No AIAN ancestry reported1,02315,0654,9154,6641,47214,8525,114Connection to AIAN communitiesReported a tribe in at least one census5,95316,3082,87311,4227,00818,0183,493Did not report a tribe in 2000 or 20102157,4913,3051,2682929,1293,824Lived in Am. Ind. area both censuses2,0891,5621692,0262,3172,008221In Am. Ind. area in 2000 but not 20103921,78321363356751399In Am. Ind. area in 2000 or 20103,19520,0455,7269,2463,82222,2096,753Residence3132,6601,2351,2024083,2231,297In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	Multiple-race AIAN, non-Hispanic	1,892	3,271	810	7,565	3,100	7,336	2,099
AIAN ancestry      AIAN ancestry reported at all    5,145    8,734    1,263    8,026    5,828    12,295    2,203      No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities	Any other response	4,276	20,528	5,368	5,125	4,200	19,811	5,218
AIAN ancestry reported at all5,1458,7341,2638,0265,82812,2952,203No AIAN ancestry reported1,02315,0654,9154,6641,47214,8525,114Connection to AIAN communitiesReported a tribe in at least one census5,95316,3082,87311,4227,00818,0183,493Did not report a tribe in 2000 or 20102157,4913,3051,2682929,1293,824Lived in Am. Ind. area both censuses2,0891,5621692,0262,3172,008221In Am. Ind. area in 2000 but not 20103921,78321363356751399In Am. Ind. area in 2010 but not 2000492409707855942,417244Not in Am. Ind. area in 2000 or 20103,19520,0455,7269,2463,82222,2096,753Residence1,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	AIAN ancestry							
No AIAN ancestry reported    1,023    15,065    4,915    4,664    1,472    14,852    5,114      Connection to AIAN communities    Reported a tribe in at least one census    5,953    16,308    2,873    11,422    7,008    18,018    3,493      Did not report a tribe in 2000 or 2010    215    7,491    3,305    1,268    292    9,129    3,824      Lived in Am. Ind. area both censuses    2,089    1,562    169    2,026    2,317    2,008    221      In Am. Ind. area in 2000 but not 2010    392    1,783    213    633    567    513    99      In Am. Ind. area in 2010 but not 2000    492    409    70    785    594    2,417    244      Not in Am. Ind. area in 2000 or 2010    3,195    20,045    5,726    9,246    3,822    22,209    6,753      Residence    In Northeast    313    2,660    1,235    1,003    6,225    2,625    5,983      In Northeast    313    2,660    1,235    1,202    408    3,223    1,297      In Midwest    1,414    6,702 <td< td=""><td>AIAN ancestry reported at all</td><td>5,145</td><td>8,734</td><td>1,263</td><td>8,026</td><td>5,828</td><td>12,295</td><td>2,203</td></td<>	AIAN ancestry reported at all	5,145	8,734	1,263	8,026	5,828	12,295	2,203
Connection to AIAN communities        Reported a tribe in at least one census      5,953      16,308      2,873      11,422      7,008      18,018      3,493        Did not report a tribe in 2000 or 2010      215      7,491      3,305      1,268      292      9,129      3,824        Lived in Am. Ind. area both censuses      2,089      1,562      169      2,026      2,317      2,008      221        In Am. Ind. area in 2000 but not 2010      392      1,783      213      633      567      513      99        In Am. Ind. area in 2010 but not 2000      492      409      70      785      594      2,417      244        Not in Am. Ind. area in 2000 or 2010      3,195      20,045      5,726      9,246      3,822      22,209      6,753        Residential migrant      866      3,974      1,060      1,787      1,075      4,522      1,334        No indication of residential migration      5,302      19,825      5,118      10,903      6,225      22,625      5,983        In Northeast      313      2,660      1,235      1,202	No AIAN ancestry reported	1,023	15,065	4,915	4,664	1,472	14,852	5,114
Reported a tribe in at least one census5,95316,3082,87311,4227,00818,0183,493Did not report a tribe in 2000 or 20102157,4913,3051,2682929,1293,824Lived in Am. Ind. area both censuses2,0891,5621692,0262,3172,008221In Am. Ind. area in 2000 but not 20103921,78321363356751399In Am. Ind. area in 2010 but not 2000492409707855942,417244Not in Am. Ind. area in 2000 or 20103,19520,0455,7269,2463,82222,2096,753Residence8663,9741,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	Connection to AIAN communities							
Did not report a tribe in 2000 or 20102157,4913,3051,2682929,1293,824Lived in Am. Ind. area both censuses2,0891,5621692,0262,3172,008221In Am. Ind. area in 2000 but not 20103921,78321363356751399In Am. Ind. area in 2010 but not 2000492409707855942,417244Not in Am. Ind. area in 2000 or 20103,19520,0455,7269,2463,82222,2096,753ResidenceResidenceResidential migrant8663,9741,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	Reported a tribe in at least one census	5,953	16,308	2,873	11,422	7,008	18,018	3,493
Lived in Am. Ind. area both censuses2,0891,5621692,0262,3172,008221In Am. Ind. area in 2000 but not 20103921,78321363356751399In Am. Ind. area in 2010 but not 2000492409707855942,417244Not in Am. Ind. area in 2000 or 20103,19520,0455,7269,2463,82222,2096,753Residence8663,9741,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	Did not report a tribe in 2000 or 2010	215	7,491	3,305	1,268	292	9,129	3,824
In Am. Ind. area in 2000 but not 2010    392    1,783    213    633    567    513    99      In Am. Ind. area in 2010 but not 2000    492    409    70    785    594    2,417    244      Not in Am. Ind. area in 2000 or 2010    3,195    20,045    5,726    9,246    3,822    22,209    6,753      Residence      866    3,974    1,060    1,787    1,075    4,522    1,334      No indication of residential migration    5,302    19,825    5,118    10,903    6,225    22,625    5,983      In Northeast    313    2,660    1,235    1,202    408    3,223    1,297      In Midwest    1,414    6,702    1,194    3,212    1,728    7,225    1,485      In South    2,665    8,456    1,953    3,913    2,768    10,095    2,572      In West    1,776    5,981    1,796    4,363    2,396    6,604    1,963	Lived in Am. Ind. area both censuses	2,089	1,562	169	2,026	2,317	2,008	221
In Am. Ind. area in 2010 but not 2000492409707855942,417244Not in Am. Ind. area in 2000 or 20103,19520,0455,7269,2463,82222,2096,753Residence1,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	In Am. Ind. area in 2000 but not 2010	392	1,783	213	633	567	513	99
Not in Am. Ind. area in 2000 or 20103,19520,0455,7269,2463,82222,2096,753ResidenceResidential migrant8663,9741,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	In Am. Ind. area in 2010 but not 2000	492	409	70	785	594	2,417	244
ResidenceResidential migrant8663,9741,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	Not in Am. Ind. area in 2000 or 2010	3,195	20,045	5,726	9,246	3,822	22,209	6,753
Residential migrant8663,9741,0601,7871,0754,5221,334No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	Residence							
No indication of residential migration5,30219,8255,11810,9036,22522,6255,983In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	Residential migrant	866	3,974	1,060	1,787	1,075	4,522	1,334
In Northeast3132,6601,2351,2024083,2231,297In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	No indication of residential migration	5,302	19,825	5,118	10,903	6,225	22,625	5,983
In Midwest1,4146,7021,1943,2121,7287,2251,485In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	In Northeast	313	2,660	1,235	1,202	408	3,223	1,297
In South2,6658,4561,9533,9132,76810,0952,572In West1,7765,9811,7964,3632,3966,6041,963	In Midwest	1,414	6,702	1,194	3,212	1,728	7,225	1,485
In West 1,776 5,981 1,796 4,363 2,396 6,604 1,963	In South	2,665	8,456	1,953	3,913	2,768	10,095	2,572
	In West	1,776	5,981	1,796	4,363	2,396	6,604	1,963
Total N 6 168 23 799 6 178 12 690 7 300 27 147 7 317	Total N	6 168	23 799	6 178	12,690	7 300	27 147	7 317
Total ages $25+$ 4.171 18.324 4.206 8.986 4.909 19.421 4.744	Total ages 25+	4.171	18,324	4,206	8,986	4,909	19,421	4.744

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: AIAN = American Indian/Alaska Native. AIAN = non-Hispanic single-race AIAN. W = non-Hispanic single-race white. Else = any other race/Hispanic response. Stayers are in the subpopulation in both censuses. ACS race/ethnicity response is not taken into account in this classification but is shown in Table 2.

Appendix Table G: Characteristics of people who joined, left, and stayed in the Hispanic multiple-race AIAN (S4) group

S4: Hispanic multiple-race AIAN	Left to				Joined from		
Race/Hisp in non-AIAN year	H. SOR	H. W	Else	Stayers	H. SOR	H. W	Else
Gender and age							
Woman	212	748	955	553	869	884	1.393
Man	213	623	772	444	803	755	1,176
Age 0-9	23	53	127	93	59	85	176
Age 10-24	137	419	720	431	441	565	1.164
Age 25-39	109	281	392	177	467	356	521
Age 40-64	136	505	411	254	621	534	599
Age 65 or older	20	113	77	42	84	99	109
Citizenshin and English language ability	20	115		72	04	,,	107
U.S. born and/or citizen of the U.S.	353	1 276	1 699	977	1 4 1 0	1 510	2 518
Foreign-born non-citizen	72	95	28	20	262	1,510	2,510
Speaks English 'very well' or only	314	1 191	1 633	949	1 219	1 382	2 4 4 5
Speaks English less than 'very well'	111	1,191	94	48	453	257	12,443
Powerty (range 0-000)	111	100	74	40	-55	257	124
Mean income as a percent of poverty line	330%	377%	377%	350%	311%	336%	306%
Education (ages 25 + only)	55070	51170	32270	55070	51170	55070	50070
Lass than high school	74	177	106	36	310	201	151
High school or CED	74	177	227	30	252	201	210
	30	170	249	90	232	230	519 100
Bashalar's dagraa	70	207	546 120	190	547 149	550 150	400
Craduate an unifersional de area	32	149	129	87 70	148	130	105
Graduate or professional degree	27	108	70	70	106	/8	88
Labor force (ages 25+ only)	100	(15	5(0)	224	922	(50	757
In the labor force, employed	198	615	508	334	832	658	107
In the labor force, not employed	13	47	50	25	63	59	107
Not in the labor force	54	237	262	114	211	272	365
Marital status (ages 25+ only)	1.62	5.47	401	075	72.4	500	(2)
Currently married	163	547	481	275	724	582	634
Widowed, separated or divorced	42	190	186	102	240	194	305
Never married	60	162	213	96	208	213	290
Race/Hispanic response in ACS		101			1.60		
Multiple-race AIAN, Hispanic	26	134	260	476	162	230	533
Any other response	399	1,237	1,467	521	1,510	1,409	2,036
AIAN ancestry							
AIAN ancestry reported at all	32	176	517	380	187	287	980
No AIAN ancestry reported	393	1,195	1,210	617	1,485	1,352	1,589
Connection to AIAN communities							
Reported a tribe in at least one census	201	781	1,119	813	765	831	1,746
Did not report a tribe in 2000 or 2010	224	590	608	184	907	808	823
S./Central Amer. tribe in 2000 or 2010	122	316	161	126	464	319	241
Lived in Am. Ind. area both censuses	-	7	103	45	18	23	179
In Am. Ind. area in 2000 but not 2010	16	70	95	36	9	15	76
In Am. Ind. area in 2010 but not 2000	-	11	57	55	67	79	176
Not in Am. Ind. area in 2000 or 2010	401	1,283	1,472	861	1,578	1,522	2,138
Residence							
Residential migrant	59	224	295	142	270	287	431
No indication of residential migration	366	1,147	1,432	855	1,402	1,352	2,138
In Northeast	78	140	185	106	314	195	321
In Midwest	39	182	249	153	152	188	359
In South	71	329	385	146	368	423	566
In West	237	720	908	592	838	833	1,323
Total N	425	1 371	1 727	997	1 672	1 639	2 569
Total ages 25+	265	899	880	473	1.172	989	1.229

Sources: Census 2000, 2010 Census, and 2006-2010 5-year American Community Survey data.

Notes: A dash "-" indicates that the cell is suppressed for disclosure avoidance purposes. AIAN = American Indian/Alaska Native. H, SOR = Hispanic single-race Some Other Race. H, W = Hispanic single-race white. Else = any other race/Hispanic origin response. Stayers are in the subpopulation in both censuses. ACS race/ethnicity response is not taken into account in this classification but is shown in Table 2.