

Despite many decades of data collection, SSA has problems presenting data on the race and ethnicity of program beneficiaries. By using several statistical techniques, however, it is possible to make better use of the data at hand.

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Identifying the Race or Ethnicity of SSI Recipients

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Summary

The Social Security Administration (SSA) has, from its beginnings, recorded the race and ethnicity provided by those who apply for a Social Security card. Although some of these data are eventually used in published tabulations when persons file for benefits, problems with the data prevent a larger selection of published tables. These problems stem from:

- incomplete internal SSA computer processing;
- changes in the racial coding schemes over time; and
- missing codes for younger cohorts of applicants.

In spite of these problems, more data can be shared with the public. This article shows how matching administrative files and using statistical techniques make it possible to associate a race/ethnicity code with the great majority of persons receiving a payment under the Supplemental Security Income (SSI) program, a means-tested program for persons who are aged or disabled. The article follows a 1-percent sample of SSI recipients through several steps in an attempt to develop a race code.

This approach can provide data for the next several years on the race of all SSI recipients, as well as data on race and ethnicity for recipients under age 40. Beyond the next few years, these

techniques will become less useful, and other methods will be needed. SSA is in the process of revising its standards for classification of federal data on race and ethnicity. The census for year 2000 will include coding changes. Other federal agencies will be given as long as January 2003 to comply with the new guidelines.

Introduction

The Social Security Administration produces data to help the public, the Congress, and the research community, assess the impacts of its programs on people. Important demographic variables include the age, race, and sex of beneficiaries. Frequently, persons want to know how the beneficiaries of SSA's programs are represented among various demographic groups.

Through the years, the agency has published a wide range of data on recipients of SSI to answer many demographic questions. SSA has not published extensive data on the race of recipients, however, in spite of the fact that the agency has collected information on race since the 1930s. This article:

- describes the process for collecting data on the race and ethnicity of SSI recipients;
- explains the problems that limit the publication of consistent data on race;

- suggests ways that the data collection process can be improved; and
- presents data on the race or ethnicity of SSI recipients.

We illustrate the discussion using data for a sample of SSI recipients in November 1998.

How SSA Collects Data on Race

Since the 1930s, SSA has collected data on race or ethnicity from those applying for Social Security numbers (SSNs). The form SS-5 (the application for an SSN) is the source for data on race and ethnicity and contains questions about the applicant's name, date and place of birth, mother's maiden name, father's name, and race/ethnic description. Prior to 1980, the choices given on the race/ethnic question were "White," "Negro," or "Other." In the early years, the typical application was filed in order to secure an account number that, in turn, permitted the person to work. The employer then reported wages under that account number, and information from the SS-5 was used many years later to verify Social Security benefit eligibility. SS-5 application forms were stored at the SSA headquarters in Baltimore until a person filed for benefits; files were then returned to the 1,300 field offices across the country to assist in determinations of program eligibility.

In addition to the original application for an account number, SS-5 applications were filed whenever there was a change to any of the information previously submitted. A typical correction was a change in middle name or surname when women married. But by far, the most common occurrence for an additional application was a request for a replacement card.¹

Computerizing the SS-5 File

Over time several important changes occurred to both the race/ethnicity codes and the process for reporting them. The first occurred in the mid-1970s, when the SS-5 file, housed in the Baltimore headquarters, was converted to a computer file called the Numident (*number identification*). At that time, all existing SS-5s were placed on the new Numident file. Today, that file contains over 700 million records for 400 million account number holders. The Numident was incomplete with respect to race, however, because when the SS-5s were returned to the field after an application for SSA program benefits was filed, a special form was put in its place. This new form contained most of the original SS-5 information, but lacked the race code. Therefore, race data was missing for many persons who were receiving benefits when the Numident was created. That shortcoming was never corrected, and the Numident still does not have data on race/ethnicity for many persons receiving benefits on or before 1979.

All was not lost, however, because SSA had also developed a computer file for the purpose of recording earnings data. This

computer file is now called the Master Earnings File (MEF). Records are created on the MEF when an account number is issued and updated with earnings data. The original MEF record includes the race code taken from each SS-5 when it is filed. Therefore, the original race codes were split between two files—the Numident file, which contained the codes for persons who had not yet filed for benefits and all new SS-5s; and the MEF file, which contained codes for all persons. The MEF, however, had certain limitations of its own with respect to race/ethnicity. While the Numident contains all SS-5 entries, their dates and corresponding race codes, the MEF contains only a single entry for race, does not update that code, and does not associate a date with the race code. The lack of date for the code would become an important obstacle in the event the code is changed, and it was in late 1980.

Changing the Race Code

In late 1980, the Office of Management and Budget (OMB) required a change in the code and suggested several options. One was to separate racial and ethnic topics into separate questions. SSA decided to continue with a single question by combining the ethnic and racial topics, with permitted responses of "White," "Black," "Hispanic," "Asian or Pacific Islander," or "American Indian or Alaskan Native." This decision was effective in keeping the size of the SS-5 application to a minimum, but it also muddied the waters with respect to racial and ethnic distinctions. And, worse, the new code was apparently not compatible with the old one. Account number applicants opting for the Hispanic designation after 1980, might well have answered as white, negro, or other under the pre-1980 coding scheme. It was also not clear how Asians or Native Americans (formerly referred to on the SS-5 as "American Indians") would have responded under the older scheme.

Enumeration At Birth

In past decades, persons typically applied for an SSN when they sought their first employment. In recent years an SSN is needed well before they seek a job. Because the SSN is now used for tax purposes, and it has become the de facto national identifier, many persons need the number at birth. In response to this need, beginning in 1989 SSA entered into agreements with all 50 states to provide "enumeration at birth." When an infant is born, the hospital representative asks the parent if he/she would like the birth certificate data transmitted to SSA so that an account number can be issued. The data are forwarded to the state's vital statistics office, and from there to the SSA, where a card is issued and a record created on both the Numident and MEF files. The problem with this procedure is that race/ethnicity information is not included because it is shown on the birth certificate under "Information for Medical and Health Use Only." This means that SSA gets no race/ethnic data at the point of birth, and receipt of these data is limited to additional applications filed in the ensuing years.

Associating the Race Codes With SSI Recipients

To provide data on the racial/ethnic distribution of SSA beneficiary populations, it is necessary to take the codes from the Numident and MEF source files and place them on the appropriate beneficiary files. Those beneficiary files are the Master Beneficiary Record (MBR) for persons receiving Social Security disability or retirement benefits and the Supplemental Security Record (SSR) for persons receiving means-tested benefits under the SSI program. This article focuses on the SSI population, since SSI recipients are more evenly spread among all age groups than are recipients with the other two programs and, therefore, are particularly useful in illustrating a discussion on race coding.

SSI is a federal income assistance program for low-income persons who are aged, blind, or disabled. In November 1998, there were about 6.5 million recipients of all ages. These eligible persons may apply for benefits at any of the SSA field offices across the country. Once they are found eligible for payments, a record is created on the SSR, the main computer file used in administering the program. At that time, the newly created records are matched to the Numident file to secure the latest information on race/ethnicity. A single code is brought across to the SSR, and no date is attached to it. No further association is made with the Numident, even if subsequent SS-5s are received in the Numident and even if there was no code available at the point of award.² This system, established at the beginning of the SSI program in 1974, makes two assumptions: (1) there would be only one coding scheme; and (2) there would be a race/ethnic code for almost everyone at the point of award for benefits.

As it happens, neither of these assumptions proved to be correct, since, as explained earlier, (1) the coding scheme was changed in 1980, and (2) neither the lack of race information taken through the enumeration-at-birth program, nor the increasing numbers of persons declining to complete the race

question on their latest SS-5s, has added to what is known about the racial identity of applicants. Nevertheless, this system has never been changed and, unfortunately, results in one of the principal stumbling blocks to presenting better data on race/ethnicity.

Race Coding on the SSR

To explore the system of race/ethnic coding for SSI recipients, we selected a 1-percent sample of recipients from the 6,589,000 recipients in November 1998 from the SSR. Until the very end, this report shows data for these 65,890 sample recipients without adjusting the figures to represent the entire universe of SSI recipients. Table 1 shows the age distribution of the current race/ethnicity coding on the SSR.

By arraying the data by age groups, many of the inadequacies of the SSR code become apparent. The first problem is that the overall percentage of those with some sort of legitimate code is less than 85 percent, and that 85 percent figure masks larger problems at either end of the age spectrum. Among recipients under the age of 9, the completion rate is a dismal 41.8 percent, no doubt the result of the enumeration-at-birth policy. The problems with the oldest group of recipients are likely the result of the inability to capture race data for persons receiving benefits in 1979, as described earlier. It is not immediately clear whether the 15 percent of missing codes represents persons who did not answer the question on race/ethnicity, or if the record exists but has not found its way to the SSR.

The other big problem with the SSR is that it mixes the two age/ethnicity coding schemes and provides no application dates so that they can be separated. The old *White, Black, and Other* codes issued before 1980 are thrown together with the newer *White, Black, Hispanic, Asian or Pacific Islander, and American Indian or Alaskan Native* codes obtained since that time.³

The newer scheme may not easily collapse into the older

Table 1.—Race codes for SSI recipients on the SSR, by age group, November 1998

Race code	Total in sample	Age group							
		Under 9	9-17	18-29	30-39	40-49	50-64	65-74	75 or older
Total.....	65,890	3,454	5,521	7,153	7,744	8,589	12,912	10,776	9,741
Total with codes.....	55,466	1,443	4,952	6,657	7,095	7,389	10,800	9,170	7,960
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	53.1	33.3	41.4	58.2	58.9	56.9	56.9	47.9	52.2
Black.....	29.5	41.8	44.6	30.4	30.1	31.7	27.7	23.3	24.1
Hispanic.....	8.4	21.3	11.1	6.5	6.3	5.5	8.0	12.5	6.6
Asian.....	4.0	2.1	1.2	1.8	1.8	2.6	3.6	11.1	8.4
Other.....	3.5	(1)	.4	2.4	2.2	2.3	3.0	4.5	8.5
American Indian.....	.7	1.5	1.2	.6	.8	.9	.8	.7	.2
Total percent coded.....	84.2	41.8	89.7	93.1	91.6	86.0	83.6	85.1	81.7

¹Not applicable.

Note: Totals may not add to 100 due to rounding.

scheme. Presumably persons who consider themselves to be white or black would choose these categories for either coding scheme, but even that assumption can be challenged as their perceptions of their race/ethnicity change over time. SSA has occasionally published race/ethnic data in the past based on collapsing these two coding schemes. Typically, Hispanic, Asian, and American Indian codes have been converted to "Other" in the older scheme. But little empirical work has been done to establish this connection, and even after making that leap of faith, the policymaker is still left with the old scheme and its lack of detail.

Making Better Use of Existing Codes: the Numident and the MEF

This article explores the possibility that sufficient codes might exist already in the SSA computer system to support better descriptive statistics for either of the two coding schemes. Since the two sources for original codes are the Numident and Master Earnings files, these are the logical places to begin the search.

Going Back to the Numident

Because the race code on the SSR is not updated with new Numident entries, it was likely that additional SS-5s on the Numident would contain codes where the SSR has none, and new codes where the SSR has old ones. Also, the dates for the race codes on the Numident could permit us to separate the old codes from the new codes. The SSI sample was matched to the

Numident to select the first old code and the first new code for each person.

We found that for the 65,890 sample recipients, there were 167,393 Numident entries or about 2.5 entries for each recipient. Women tend to have more entries than men because of surname changes due to marriage. Table 2 shows the result of that match.

Overall, nearly 92 percent of the 65,890 recipients had a new scheme or old scheme race/ethnicity code, an improvement over the 85 percent found on the SSR. In total, the percentage of cases with old and new codes was nearly identical—about 64 percent for each group had a legitimate code. By age group, however, the differences between old and new codes are considerable. For those with the new code, the percentage is low for the under-9 category and, because of enumeration-at-birth, peaks at 95 percent for the 9-17 year group, and declines steadily as recipients get older, reaching 39 percent in the age 75 or older group. There is nothing terribly surprising about this. Generally, you would expect younger persons to have the newer race code.

For the old codes, only half of the persons in the 18-29 year group have such a code, and, of course, none of those under age 18 have an old code, since they were born after the new code was implemented in 1980. The old code is strongest in the 40-49 age group and declines with age to 57 percent in the 75 or older group.

The results from the Numident also gave us a first look at the racial distributions for each code. If the old code is used, whites make up 63 percent of the recipient population, with blacks at 30.9 and other at 6.0. If the newer code is used, whites

Table 2.—Race codes for SSI recipients from the Numident, by code scheme and age group, November 1998

Race code	Total in sample	Age group							
		Under 9	9-17	18-29	30-39	40-49	50-64	65-74	75 or older
Total.....	65,890	3,454	5,521	7,153	7,744	8,589	12,912	10,776	9,741
Old scheme:									
Total with code.....	42,003	(1)	(1)	3,907	6,328	7,709	10,930	7,548	5,580
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	63.1	(1)	(1)	57.4	62.7	63.0	65.8	63.0	62.6
Black.....	30.9	100.0	(1)	36.7	32.4	32.8	29.8	29.4	27.2
Other.....	6.0	(1)	(1)	5.9	4.9	4.2	4.5	7.7	10.2
New scheme:									
Total with code.....	41,848	1,988	5,231	5,597	5,817	5,854	7,568	5,967	3,826
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	45.6	33.6	41.3	55.4	54.6	51.3	48.5	34.5	32.7
Black.....	31.9	43.1	44.8	32.7	32.6	34.9	30.1	22.3	20.6
Hispanic.....	14.2	20.1	11.4	8.7	9.1	8.9	14.4	23.8	23.3
Asian.....	7.1	1.8	1.3	2.5	2.5	3.6	5.5	18.1	22.5
American Indian.....	1.2	1.5	1.1	.8	1.2	1.3	1.5	1.4	.9
Percent with either code....	91.8	57.6	94.7	97.3	98.5	97.6	96.4	94.1	79.7
Percent with old code.....	63.7	.0	.0	54.6	81.7	89.8	84.6	70.0	57.3
Percent with new code.....	63.5	57.6	94.7	78.2	75.1	68.2	58.6	55.4	39.3

¹ Not applicable.

Note: Totals may not add to 100 due to rounding.

make up only 45.6 percent of the population, blacks have 31.9 percent, Hispanics have 14.2 percent, Asians have 7.1 percent and Native Americans are at 1.2 percent. These differences occur primarily because of the different age distributions of persons with new and old codes.

If statistics are to be published from the two coding schemes, it is important to obtain high completion percentages for each scheme. The 64 percent figures for the two coding schemes were less than exciting results, but were at least a start in the search for more accurate and complete data. The challenge was to fill in some of the missing pieces. Of course we realized the unlikelihood of finding new codes for many of the older recipients and the impossibility of getting old codes for the youngest recipients. But we hoped to increase our percentages for both young and old recipients, so that it might at least be possible to show some statistics for each group.

Problems With Codes for Young Recipients— Enumeration at Birth

As mentioned earlier, the policy of enumeration at birth creates a problem in obtaining codes for younger recipients. Since the policy has been in effect since 1989, we created a separate analytical category for this age group so that we could separate out its impact (table 2). As seen earlier, new race codes were obtained from the Numident for only 58 percent of those recipients age 9 or under. Percentages for older groups were much higher in the 9-17 age group and slightly higher in the 18-39 age groups.

Is this lack of codes long-lasting or temporary; that is, do children receive race codes from additional applications for account numbers filed within a few years of birth, or does the enumeration-at-birth policy permanently impair attempts to gather data on race/ethnicity? To address this question, we looked for the presence of new race codes for individual sample birth cohorts for the last 13 years (table 3).

Not surprisingly, the children born before the policy was implemented in 1989 showed much higher rates for new race codes. The pre-1989 birth cohorts began with well over half of the cases having new codes in the first year, and over 90 percent with codes by age 5. The year 1989 appears to have been a year of transition to the new method of enumeration. After 1989, only about one-third of the cases had a code in the first year. By age 5, a little more than half of the children had picked up a code. It is quite possible that even with the limitations imposed by the enumeration-at-birth policy, the majority of recipients would have code by age 18. Moreover, the need to show a Social Security card for working purposes, or name changes due to marriages, might produce an upsurge in rates of coding in the late teen years.

Looking for Better Old Race Codes on the MEF

The second stop in our search for codes was the MEF, which, as previously noted, contains additional race/ethnic information for some persons receiving benefits in or before 1979. Since the MEF promised to supply missing codes mostly for older persons, the search was limited to old codes. Because the MEF code does not have a date attached to it, some help was needed in identifying it as an old code. The code was considered to be old if the person had filed for SSI on or before 1980—the year the new coding scheme began, or had begun to work on or before 1980. As a result of the match to the MEF, we were able to capture a few more codes (table 4).

Overall, the percentage with an old code rose slightly from 64 percent to 70 percent. More important, the oldest groups improved dramatically. The aged 75 or older group improved significantly from 39 percent to about 80 percent. All of the age groups 40 or older also showed significant improvement. Overall, the number of age 40 plus recipients with an old code increased from 78 percent to 85 percent. One of the reasons

Table 3.—Percentage of found race codes for SSI recipients born in 1985 or later, by year of birth and year of race code

Year of birth	Recipients in sample	Year of race code														
		1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	
1985.....	651	51.8	79.0	84.6	87.9	91.1	93.9	94.2	95.1	95.5	95.9	96.0	96.0	96.3	96.6	
1986.....	606		55.1	81.7	88.0	90.1	94.2	95.2	95.5	95.9	96.0	96.0	96.2	96.2		
1987.....	648			58.0	82.7	88.4	93.4	94.3	95.7	95.8	96.1	96.5	96.6	96.6		
1988.....	596				58.4	81.5	88.4	90.8	92.1	92.8	93.5	93.8	94.1	94.3		
1989.....	631					46.6	67.5	72.1	75.6	77.0	78.4	79.4	80.2	81.1		
1990.....	559						39.9	56.9	60.5	63.9	66.5	68.2	70.1	70.7		
1991.....	550							37.5	52.0	56.9	59.6	62.0	63.8	66.5		
1992.....	491								31.6	44.4	49.5	51.9	53.6	54.8		
1993.....	436									33.5	47.2	51.1	52.5	54.8		
1994.....	393										35.4	47.6	50.4	52.4		
1995.....	297											33.7	44.4	46.5		
1996.....	245												32.2	37.1		
1997.....	213													30.5		
1998.....	152															

why there are still 15 percent of recipients without a code, even after obtaining all the old codes, is that some SSI aged recipients are noncitizens and do not obtain an account number until they enter the country and file for SSI. Noncitizens filing for SSI after 1980 have only the new code on their Numident records, even if they are very old.

It is also useful to note that the percentages of each race were not changed significantly by the addition of the codes from the MEF. The percentage of whites (62.6) rose by one-half of a percent, and the percent of other recipients (6.6) fell by the same amount. The percent of blacks (30.9) stayed exactly the same.

Assigning Codes to SSI Recipients

The search of administrative records left us with several problems. The old code is limited in detail and reasonably complete only for persons over 30 years of age. The new code carries much better detail but is deficient in all groups except those recipients 9 to 17 years old. If anything is to be made of either code, some of the gaps must be filled by creating codes where none currently exist. Assigning race codes is a controversial process for several reasons. First, the race/ethnic classifications are not precise. Second, the applicants for account numbers could ignore the question, and may not care to have a response created for them. We look at two methods. Each of the methods were fairly easy to describe and implement, and each involved assignment of codes based on direct racial data gathered from the administrative records of the recipient or his family. The two methods were: (1) assigning codes to recipients based on the codes of their parents and (2) combining the old and new codes into a single code.

Assigning Codes Based on Race of Parents

Assigning codes to recipients based on their parents' codes fills the need to get better codes for young SSI recipients and is based on race information specific to that family. Because information about parents who live in the household with SSI

child recipients is often required for program purposes, it is possible to identify the account numbers of the parents from SSI administrative records.⁴ Those account numbers can then be matched to the Numident file to secure race codes.⁵ We divided the study sample into four groups:

- (1) those recipients who had a new code and whose mother or father had a new code (8,463);
- (2) those recipients who did not have a new code, but whose mother or father had a new code (2,202);
- (3) those recipients who had a new code, but whose mother and father did not (33,385); and
- (4) those recipients who did not have a new code, and whose mother and father also did not have a new code (21,840).

We then used the recipient and parental race information from the first group (8,463) to assign a code to recipients in the second group (2,202). The other groups were not affected, because the third group already had new codes, and the codes for the fourth group could not be improved because there was no information about the parents.

Table 5 shows the combination of parental codes for the first group. Each parent race combination includes three entries:

- (1) the number of cases with each parental combination;
 - (2) the most frequent recipient code for that combination; and
 - (3) the percentage of cases with the most frequent outcome.
- For example, of the 8,463 cases in group 1, there were 1,203 recipients with two white parents. Of that subgroup, 97 percent of the recipients were listed as white. The white code was then assigned to anyone in the second group (2,202) where both parents were shown as white. The process was then repeated for all combinations of parents from group 1.

For most parental combinations of any size, the recipient outcome was very clear cut. Ninety-seven percent of recipients with two white parents identified themselves as white. Ninety-nine percent of recipients with two black parents

Table 4.—Race codes for SSI recipients from the Numident using MEF codes, by old code scheme, and by age group, November 1998

Race code	Total in sample	Age group							
		Under 9	9-17	18-29	30-39	40-49	50-64	65-74	75 or older
Total.....	65,889	3,454	5,521	7,153	7,744	8,588	12,912	10,776	9,741
Old scheme:									
Total with codes.....	46,227	1	4	3,967	6,430	8,026	11,657	8,274	7,868
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	62.6	.0	25.0	56.5	62.8	62.7	65.4	62.1	61.4
Black.....	30.9	100.0	50.0	36.2	32.0	32.6	29.6	29.4	29.0
Other.....	6.6	.0	25.0	7.3	5.2	4.7	4.9	8.5	9.6
Percent with old code.....	70.2	.0	.1	55.5	83.0	93.5	90.3	76.8	80.8

identified themselves as black. The results were similar for Asians (98 percent) and Hispanics (97 percent).

In many situations, only a mother was listed on SSI records as living in the household. In this situation, 92 percent of recipients with a white mother identified themselves as white, 98 percent of those recipients with a black mother identified themselves as black, and 87 percent of those with Hispanic mothers identified themselves as Hispanic. Some situations were inconclusive, such as black and white parental combinations, but the sizes of those categories were very small. Overall, selecting the category of the recipient based on the most frequent parental race combination would have yielded the right result 94 percent of the time.

The process was repeated for recipients who had old codes, and whose parents had old codes. Since SSA captures the parents' numbers only for SSI recipients under age 18, and since the program is only 25 years old, it would be unlikely that we would find parents for anyone much older than 40. Therefore, like the previous exercise, this exercise was also concentrated on persons in the younger age groups. Unlike the

previous exercise we realized that since recipients under age 18 could not have an old code, assignment would have to be based on the experience of recipients aged 18 or older. The same four groups were organized:

- (1) recipients who had an old code and whose mother or father had an old code (3,258);
- (2) recipients who did not have an old code, but whose mother or father had an old code (8,349);
- (3) recipients who had an old code, but whose mother and father did not (38,745);
- (4) recipients who did not have an old code, and whose mother and father also did not have an old code (15,538).

Again, the procedure was to use the recipient and parental information from the first group (3,258) to assign a code to recipients in the second group (8,349). A difference, however, was that the smaller group was now being used to assign codes to a much larger group (table 6).

As with the new codes, old parent code combinations produced fairly clear-cut results. In most cases, where both parents were of the same race or only the mother was in the home, the recipient was overwhelmingly of the same race. Again, racial combinations produced mixed results, but overall, selecting the category of the recipient based on the most frequent parental race combination would have yielded the correct result 94 percent of the time. The results of assigning parent codes to recipients is contained in table 7.

The impact of assigning new codes is readily apparent. The youngest group of recipients jumped from a 58-percent completion rate to a 94-percent completion rate. All groups under age 40 showed some improvement. Overall, the completion rate for the under age 40 group rose from 78 percent to 87 percent.

As a result of the assignments of new codes, it appears that little was done to the racial/ethnic distribution. Percentages by racial group were very similar to those produced from using the Numident alone.

The results of assigning old codes were just as dramatic. There was a substantial increase in codes for the three youngest age categories. Overall, the percentage of those with old codes

Table 5.—New race code combinations of parents, by most frequent race code of recipient, number of recipients with the parent/race combination, and percent of recipients with the most frequent outcome

Mother's race	Father's race					
	White	Black	Hispanic	Asian	American Indian	Unknown
White:						
Recipient outcome code.....	W	B	H	W	I	W
Number with combination.....	1,203	38	58	4	12	2,022
Percent with outcome.....	97	58	53	50	75	92
Black:						
Recipient outcome code.....	B	B	B	B	B	B
Number with combination.....	11	578	6	3	1	2,825
Percent with outcome.....	64	99	67	67	100	98
Hispanic:						
Recipient outcome code.....	W	B	H	W	I	H
Number with combination.....	37	9	299	1	2	594
Percent with outcome.....	54	67	97	100	100	87
Asian:						
Recipient outcome code.....	W	B	A	A	U	A
Number with combination.....	9	5	1	51	0	54
Percent with outcome.....	56	60	100	98	0	69
American Indian.....						
Recipient outcome code.....	W	B	H	U	I	I
Number with combination.....	10	1	2	0	25	40
Percent with outcome.....	70	100	100	0	100	78
Unknown:						
Recipient outcome code.....	W	B	H	A	I	U
Number with combination.....	300	151	92	9	9	0
Percent with outcome.....	94	95	85	67	67	0

Table 6.—old race code combinations of parents, by most frequent race code of recipient, number of recipients with the parent race combination, and percent of recipients with the most frequent outcome

Mother's race	Father's race			
	White	Black	Other	Unknown
White:				
Recipient outcome code.....	W	B	W	W
Number with combination.....	980	9	20	809
Percent with outcome.....	97	44	70	92
Black:				
Recipient outcome code.....	W	B	U	B
Number with combination.....	8	268	0	930
Percent with outcome.....	38	99	0	97
Other:				
Recipient outcome code.....	W	O	O	O
Number with combination.....	33	1	40	56
Percent with outcome.....	64	100	78	59
Unknown:				
Recipient outcome code.....	W	B	O	U
Number with combination.....	80	20	4	0
Percent with outcome.....	95	95	100	0

rose from 44 percent for recipients under age 40 to 78 percent. This result was much improved from that obtained just from the recipient, but was still well short of the results for the new code.

As a result of the assignments of old codes, it again appears that little was done to the racial/ethnic distribution as compared with the results from the Numident and the MEF. The percentage of blacks rose by slightly more than 1 percent, and that of whites fell by the same amount.

Assigning Codes by Combining the Old and New Codes Into a Single Code

Another approach is to combine the two codes into one. Although this approach has some pitfalls, it still relies on information about race supplied by the recipient's household. To combine the two codes, it is necessary to somehow squeeze the new white, black, Hispanic, American Indian, and Indian

Table 7.—Race codes for SSI recipients from the Numident using parent and earnings file codes, by code scheme and age group, November 1998

Race code	Total	Age group							
		Under 9	9-17	18-29	30-39	40-49	50-64	65-74	75 or older
Total.....	65,890	33,454	5,521	7,153	7,744	8,589	12,912	10,776	9,741
Old scheme:									
Total with code.....	54,363	2,267	4,356	5,375	6,537	8,029	11,657	8,274	7,868
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	61.5	53.7	53.0	59.3	62.9	62.7	65.4	62.1	61.4
Black.....	32.2	40.5	42.7	34.4	31.9	32.6	29.6	29.4	29.0
Other.....	6.3	5.7	4.3	6.3	5.2	4.7	4.9	8.5	9.6
New scheme:									
Total with code.....	44,050	3,231	5,452	6,105	6,026	5,875	7,568	5,967	3,826
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	45.8	40.2	41.6	54.7	54.6	51.3	48.5	34.5	32.7
Black.....	32.0	40.2	44.0	32.6	32.5	34.9	30.1	22.3	20.6
Hispanic.....	14.1	16.3	11.8	9.5	9.3	8.9	14.4	23.8	23.3
Asian.....	6.8	1.8	1.4	2.5	2.5	3.6	5.5	18.1	22.5
American Indian.....	1.2	1.4	1.1	0.8	1.2	1.3	1.5	1.4	0.9
Percent with either code.....	98.6	97.0	99.5	99.0	99.2	98.9	98.8	98.1	97.8
Percent with old code.....	82.5	65.6	78.9	75.1	84.4	93.5	90.3	76.8	80.8
Percent with new code.....	66.9	93.5	98.8	85.3	77.8	68.4	58.6	55.4	39.3

Note: Totals may not add to 100 due to rounding.

code values into the old white, black, other code values. To assist in this process, we identified four groups:

- (1) recipients who had both old and new codes resulting from all previous steps in the analysis (33,455);
- (2) recipients who had only a new code (10,595);
- (3) recipients who had only an old code (20,908); and
- (4) 932 recipients who had neither code.

The process then was to assign codes to the second group using the code combinations from the first group. This first group represented over half of the original sample (65,890) and provided a substantial base for making these assignments. The intersection of the old and new codes are shown for the persons in the first group in table 8.

Unsurprisingly, the great majority (98 percent) of persons claiming to be white or black in the new coding scheme, had previously chosen the same category in the old. Most Hispanics, however, had previously listed themselves as white

Table 8.—Number of new race codes converted to old race codes

Old race code	Total	New race code				
		White	Black	Hispanic	Asian	American Indian
Total.....	33,455	16,068	12,277	4,116	518	476
White.....	19,314	15,836	141	3,103	108	126
Black.....	12,323	98	12,001	166	29	29
Other.....	1,818	134	135	847	381	321

Note: Figures in bold represent category assigned.

(75 percent), most Asians had listed themselves as other (74 percent), and most Native Americans had previously chosen other (67 percent). If these old codes are assigned based on the most frequent code category, the result would be correct 95 percent of the time. The biggest flaws were that a substantial minority of Hispanics (21 percent) chose "Other," and substantial minorities of Asians (21 percent) and Native Americans (26 percent) chose "White."

These old codes were then assigned to recipients who had only a new code and added to the old code results from previous steps. The results are shown in table 9.

Overall, combining the codes improved the completion rate from 83 percent to 99 percent. These codes produced a result that is not too different from that obtained entirely by using only old codes. The percentage of whites remained the same, while the percentage of blacks dropped by over two percentage points and the percentage of others increased by the same amount. The increase in the percentage of others can largely be attributed to a large number of elderly noncitizens who come from Asian countries and who have only the new code on their Numident records. In fact, combining the codes probably produces a result that is more accurate because it includes this group.

SSI Distributions by Racial or Ethnic Status

The foregoing analysis provides two ways of classifying SSI recipients by race and ethnicity: (1) race/ethnic distributions for SSI recipients under age 40 based on the new code, and (2) racial distributions for all SSI recipients based on the old code.

Table 10 provides a set of distributions for SSI recipients under age 40 using the new SSA codes. Counts have been inflated to the universe of recipients.

Table 9.—Combining old scheme race codes with new coding schemes, by age group

Old scheme race code	Total	Age group							
		Under 9	9-17	18-29	30-39	40-49	50-64	65-74	75 or older
Total.....	65,890	3,454	5,521	7,153	7,744	8,589	12,912	10,776	9,741
Not combined:									
Total with codes.....	54,363	2,267	4,356	5,375	6,537	8,029	11,657	8,274	7,868
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	61.5	53.7	53.0	59.3	62.9	62.7	65.4	62.1	61.4
Black.....	32.2	40.5	42.7	34.4	31.9	32.6	29.6	29.4	29.0
Other.....	6.3	5.7	4.3	6.3	5.2	4.7	4.9	8.5	9.6
Combined:									
Total with codes.....	64,958	3,351	5,492	7,081	7,679	8,497	12,760	10,573	9,525
Total percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White.....	61.1	54.9	52.0	63.2	63.9	62.1	65.0	60.2	59.7
Black.....	29.7	40.0	43.4	30.4	30.3	31.6	27.7	23.9	24.7
Other.....	9.1	5.0	4.6	6.4	5.8	6.3	7.3	15.8	15.6

Note: Totals may not add to 100 due to rounding.

Some interesting patterns emerge. Hispanics and blacks are concentrated in the younger recipient groups, and whites are a majority of recipients between the ages of 18 and 40. Black males and Hispanic females are particularly apparent among child recipients. Asians are concentrated in the age 18-40 age groups, and Native Americans are represented evenly and sparsely throughout the under-40 age range.

In looking at SSA geographic regions, blacks are the largest racial/ethnic group in the Atlanta and Dallas regions.⁶ Whites are the largest group in all other regions. Hispanics are well represented in the San Francisco and New York regions, Asians in the San Francisco region, and Native Americans in the Denver region.

Noncitizens show a much different racial/ethnic makeup than citizens. Nearly 38 percent of noncitizens are Hispanic, and 35

percent are Asians. This compares with only 10 percent of citizens who are Hispanic and 1 percent who are Asians.

Distribution by year of application shows that all members of racial or ethnic groups who remain on the rolls in 1998 have come onto the rolls at about the same rate throughout the program's history.

Table 11 includes the same statistics using the combined codes. It contains data for the entire SSI age range but is limited to the old code.

One immediately striking pattern is the large number of other races among recipients aged 65 or older. Nearly 16 percent of all recipients in that age range are shown as other, no doubt the result of the steady influx of noncitizens from Asia and Latin America. Among male recipients aged 75 or older, the percentage is 23.9. Percentages of black recipients gradually decrease with age.

Table 10.—SSI recipients under age 40 using new race codes, by sex, age group, citizenship status, region, and year of application, November 1998

Characteristic	Total	With codes	Total percent	New race codes				
				White	Black	Hispanic	Asian	Native American
All recipients.....	2,387,100	2,081,300	100.0	49.0	36.8	11.1	2.1	1.1
Under age 9.....	345,400	323,100	100.0	40.2	40.2	16.3	1.8	1.4
9-17.....	552,100	545,200	100.0	41.6	44.0	11.8	1.4	1.1
18-29.....	715,300	610,500	100.0	54.7	32.6	9.5	2.5	.8
30-39.....	774,300	602,500	100.0	54.6	32.5	9.3	2.5	1.2
Male:								
Under age 9.....	214,900	201,600	100.0	40.1	40.6	16.0	1.8	1.5
9-17.....	355,800	351,500	100.0	41.9	43.9	11.6	1.4	1.2
18-29.....	387,900	326,800	100.0	54.3	32.2	10.3	2.4	.9
30-39.....	377,500	279,000	100.0	53.5	32.4	10.4	2.4	1.3
Female:								
Under age 9.....	130,500	121,500	100.0	40.4	39.7	16.8	1.8	1.3
9-17.....	196,300	193,700	100.0	41.2	44.2	12.2	1.4	1.0
18-29.....	327,400	283,700	100.0	55.1	33.0	8.6	2.6	.7
30-39.....	396,800	323,500	100.0	55.5	32.6	8.3	2.5	1.0
Region:								
Boston.....	103,000	85,300	100.0	63.4	14.4	19.1	2.7	.4
New York.....	243,600	206,200	100.0	39.0	33.7	24.7	1.9	.7
Philadelphia.....	234,800	200,600	100.0	55.1	38.5	5.0	1.2	.1
Atlanta.....	558,000	499,300	100.0	46.2	49.0	3.9	.5	.4
Chicago.....	451,000	395,200	100.0	51.0	42.5	4.1	1.4	1.0
Dallas.....	289,800	258,500	100.0	39.1	41.2	17.7	.8	1.2
Kansas City.....	96,200	81,500	100.0	68.0	28.0	2.6	.7	.7
Denver.....	51,700	45,300	100.0	70.0	5.7	15.0	1.3	7.9
San Francisco.....	293,400	252,600	100.0	43.0	22.6	23.7	8.5	2.3
Seattle.....	65,700	56,900	100.0	79.4	7.9	6.2	3.5	3.0
Citizenship status:								
Citizen.....	50,600	42,400	100.0	16.5	10.6	37.5	35.4	...
Noncitizen.....	2,336,600	2,039,000	100.0	49.7	37.3	10.6	1.4	1.1
Year of application:								
1974-79.....	135,100	82,600	100.0	46.2	39.0	12.7	.7	1.3
1980-84.....	190,400	149,500	100.0	55.0	32.8	9.2	2.1	.9
1985-89.....	349,800	298,500	100.0	52.7	33.4	10.2	2.4	1.3
1990-94.....	993,800	902,600	100.0	46.6	39.4	11.0	2.1	1.0
1995-98.....	718,100	648,200	100.0	49.7	35.3	11.9	2.1	1.0

Table 11.—SSI recipients, by race (using old codes), sex, age group, citizenship status, region, and year of application, November 1, 1998

Characteristic	Total	With codes	Total percent	White	Black	Other
All recipients.....	6,589,000	6,495,800	100.0	61.1	29.7	9.1
Under age 9.....	345,400	335,100	100.0	54.9	40.0	5.0
9-17.....	552,100	549,200	100.0	52.0	43.4	4.6
18-29.....	715,300	708,100	100.0	63.2	30.4	6.4
30-39.....	774,400	767,900	100.0	63.9	30.3	5.8
40-49.....	858,900	849,700	100.0	62.1	31.6	6.3
50-64.....	1,291,200	1,276,000	100.0	65.0	27.7	7.3
65-74.....	1,077,600	1,057,300	100.0	60.2	23.9	15.8
75 or older.....	974,100	952,500	100.0	59.7	24.7	15.6
Male:						
Under age 9.....	214,900	208,800	100.0	54.3	40.2	5.5
9-17.....	355,800	353,800	100.0	51.8	43.5	4.7
18-29.....	388,000	383,800	100.0	63.2	30.3	6.5
30-39.....	377,600	373,900	100.0	65.6	28.7	5.7
40-49.....	362,500	358,500	100.0	62.5	31.2	6.2
50-64.....	461,000	454,300	100.0	64.3	27.8	7.9
65-74.....	341,100	333,800	100.0	62.4	19.8	17.9
75 or older.....	220,000	214,000	100.0	57.0	19.2	23.9
Female:						
Under age 9.....	130,500	126,300	100.0	56.0	39.7	4.4
9-17.....	196,300	195,400	100.0	52.4	43.3	4.3
18-29.....	327,300	324,300	100.0	63.2	30.5	6.3
30-39.....	396,800	394,000	100.0	62.4	31.8	5.8
40-49.....	496,400	491,200	100.0	61.7	31.9	6.4
50-64.....	830,200	821,700	100.0	65.4	27.7	6.9
65-74.....	736,500	723,500	100.0	59.3	25.9	14.9
75 or older.....	754,100	738,500	100.0	60.5	26.4	13.2
Region:						
Boston.....	293,600	287,100	100.0	78.2	12.5	9.3
New York.....	744,300	722,800	100.0	60.0	28.1	11.8
Philadelphia.....	601,700	595,400	100.0	61.3	34.4	4.3
Atlanta.....	1,511,900	1,499,700	100.0	54.6	43.5	2.0
Chicago.....	977,900	967,600	100.0	59.8	35.4	4.8
Dallas.....	808,400	802,000	100.0	60.9	33.6	5.5
Kansas City.....	210,500	208,200	100.0	74.9	21.7	3.4
Denver.....	121,000	119,600	100.0	80.9	4.7	14.5
San Francisco.....	1,150,000	1,127,300	100.0	59.9	14.6	25.5
Seattle.....	169,700	166,100	100.0	80.6	5.2	14.2
Citizenship status:						
Noncitizen.....	660,000	625,300	100.0	58.9	5.5	35.6
Citizen.....	5,929,000	5,870,500	100.0	61.4	32.3	6.3
Year of application:						
1974-79.....	847,600	836,100	100.0	62.2	32.7	5.1
1980-84.....	563,200	556,700	100.0	60.8	30.6	8.6
1985-89.....	1,118,900	1,108,400	100.0	60.7	28.4	10.9
1990-94.....	2,448,900	2,416,100	100.0	60.1	30.0	9.9
1995-98.....	1,610,400	1,578,500	100.0	62.5	28.4	9.1

When all recipients are counted, whites have a majority of SSI recipients in all regions of the country. Blacks have substantial minorities in Atlanta (43.5 percent), Chicago (35.6 percent), Philadelphia (34.3 percent), and Dallas (33.0 percent). San Francisco had the largest percentage of other races.

A substantial number of SSI recipients were noncitizens. They showed a much different racial makeup than citizens. Noncitizens were listed as other (35.6) and white (58.9), while citizens were less likely to be other (6.0) and equally likely to be white (61.6). Noncitizens were much less likely to be black (5.5) than were citizens (32.4).

Conclusions: The Future of Race Coding for SSI Recipients

SSA would like to provide comprehensive data on racial or ethnic status for persons who use its programs. In this article, we have discussed several barriers to producing better statistics on race or ethnicity for SSI recipients.

- First, SSA needs to improve the methods it uses for capturing and sharing these codes among the various administrative files.
- Second, the policy of enumeration at birth deprives the agency of race or ethnic data for a period of time. As discussed, this may be a temporary problem, and assignment of the parents' codes may be a useful way to make up for this lack of data for young SSI recipients.
- Finally, and most important, changes to the coding scheme itself are the biggest barriers to producing consistent race/ethnic data. Administrative data on race currently utilize two different coding schemes. This article describes how the two codes can be collapsed into one.

The techniques described in this article can be used to provide better data on the race or ethnicity of SSI recipients. Where race data are needed for the entire caseload, it is possible to find and create enough codes to support tables based on the old coding scheme—black, white, and other. If the area of analytic interest is confined to younger recipients, it is possible to find and create enough codes to support tables based on the new coding scheme—black, white, Hispanic, Asian, and Native American.

Over the years, however, there will be fewer and fewer old codes to support the process of combining old and new codes. Therefore the errors introduced by both techniques will increase, and at some point it will make sense to discontinue any distribution employing the old codes. For the new code, the future promises an increase in the age range covered, but that will be decades away.

In October 1997, the Office of Management and Budget announced that revisions would be made to the standards for classification of federal data on race and ethnicity. The new race code calls for five categories—American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White. There will be a separate question for ethnicity with two categories—Hispanic or Latino, and Not Hispanic or Latino. There will also be an opportunity for persons to choose more than one category. The census for year 2000 will include these changes in coding. Other federal agencies will be given as long as January 2003 to comply with the new guidelines.

Until that time, SSA should be able to cope with its statistical problems by improving its internal processing and applying some fairly conservative techniques for inferring race or ethnicity.

Notes

¹ SSA has always screened these subsequent applications to ensure that multiple account number issuance was kept to a minimum.

² There are very few instances where there is no Numident record, but a race code would not be available if the SS-5 applicant did not answer the question about race/ethnicity.

³ The actual race code designations on the SSR, MEF, and Numident vary from alpha to numeric. The codes are referred to as alpha throughout the report for the sake of consistency.

⁴ The main purpose for this information is to permit income to be “deemed” from the parents to the child. The result is a lower SSI payment to the child where the parents have income. Since some children are in institutions and not households, parent data, including account number may not exist.

⁵ Beginning in 1998, the account numbers of parents have been collected by SSA using the SS-5 form. Although the data are not currently included on the Numident, it may be possible to use this source in the future, rather than resorting to the SSI administrative records.

⁶ The Boston region includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. The New York region includes New Jersey and New York. The Philadelphia region includes Delaware, the District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia. The Atlanta region includes Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, and Tennessee. The Chicago region includes Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin. The Dallas region includes Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. The Denver region includes Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming. The San Francisco region includes Arizona, California, Hawaii, Nevada, and the Northern Mariana Islands. The Seattle region includes Alaska, Idaho, Oregon, and Washington.