

Table 1: Summary of MSIS versus MAFARF Address Coverage by Year

Year	Clients with Validated SSNs	Clients in MAFARF	Clients with MAFARF State Agreeing with MSIS State	Pctg. Clients with Matching MAFARF State	Clients with Valid MSIS County and in MAFARF	Clients with MAFARF County Agreeing with MSIS County	Pctg. Clients with Matching MAFARF County
2000	41,201,427	28,347,375	27,049,805	95.4%	28,199,081	23,680,866	84.0%
2001	44,039,911	31,193,690	29,687,560	95.2%	31,010,486	25,880,372	83.5%
2002	48,556,590	34,271,147	32,643,665	95.3%	33,039,460	27,709,283	83.9%

The EDB contains a negligible amount of duplicates, while MSIS has somewhat more (see Table 2 and Table 3 below).

Duplicate client records compose less than one-tenth percent of the EDB. About 2.2 percent of the MSIS uniquely identified individuals have records in multiple states simultaneously, suggesting possible duplication. However, since an individual can be enrolled legitimately in Medicaid in one state for part of the month and then move to and enroll in another state during the same month, we also tally the number of uniquely identified individuals with more eligible days than days in a given month. By this measure of possible duplicate enrollment, about 1.7 percent of the MSIS person records were duplicates.

Table 2: MEDB (Medicare) Duplicate Records by Year

Year	Total Records with Validated SSNs	Total Unique Validated SSNs	Validated SSNs with Only a Single Record	Validated SSNs with Duplicate Records	Validated SSNs with Two Records	Validated SSNs with Three or More Records
2000	40,934,532	40,912,357	40,890,210	22,147	22,119	28
2001	41,518,006	41,494,012	41,470,048	23,964	23,934	30
2002	42,857,486	42,832,722	42,807,987	24,735	24,706	29

Table 3: MSIS (Medicaid) Duplicate Records by Year

Year	Records with Validated SSNs*	Clients with Validated SSNs	Clients Sharing SSN in Excess of 1	Persons Not Eligible for Medicaid	Persons Eligible for Medicaid	Persons Eligible for More Than Number of Days Than in Period	Persons Eligible in Exactly One State	Persons Eligible in Exactly Two States	Persons Eligible in Exactly Three States	Persons Eligible in Four or More States
2000	411,192,207	41,201,427	1,289,926	408,804	39,502,697	704,790	38,572,022	897,953	30,830	1,892
2001	443,170,350	44,039,911	1,463,314	506,805	42,069,792	838,152	40,993,211	1,036,395	38,098	2,088
2002	484,683,087	48,556,590	2,087,188	573,942	45,895,460	932,745	44,725,710	1,126,381	40,969	2,400

* Each record represents a unique combination of MSIS Client ID and month.

Some discrepancy exists between the MSIS information about dual eligibility status and the information extracted from matching to the EDB (see Table 4 below).

Nationwide about 95 percent of the individuals identified by the MSIS indicator of dual eligibility were confirmed by EDB.

**Table 4: MSIS Versus EDB
Aggregate Count⁵ of Dual-Eligible Individuals by State in 2001**

State	MSIS indicates individual is dual eligible	EDB indicates individual is dual eligible	Both MSIS and EDB indicate individual is dual eligible	Percent of MSIS dual eligibles confirmed in EDB	Percent of EDB dual eligibles Confirmed in MSIS
Alabama	144,277	145,269	140,479	97.4	96.7
Alaska	8,507	8,887	8,429	99.1	94.8
Arizona	60,196	58,128	57,648	95.8	99.2
Arkansas	96,886	77,930	77,141	79.6	99.0
California	842,208	823,040	813,855	96.6	98.9
Colorado	59,649	58,139	57,690	96.7	99.2
Connecticut	73,566	71,864	71,698	97.5	99.8
Delaware	13,083	13,529	12,774	97.6	94.4
District of Columbia	14,459	14,888	14,020	97.0	94.2

⁵ The aggregate count is the mean value of the 12 monthly aggregate counts.

Table 4: MSIS Versus EDB
Aggregate Count of Dual-Eligible Individuals by State in 2001 (cont'd.)

State	MSIS indicates individual is dual eligible	EDB indicates individual is dual eligible	Both MSIS and EDB indicate individual is dual eligible	Percent of MSIS dual eligibles confirmed in EDB	Percent of EDB dual eligibles Confirmed in MSIS
Florida	356,356	365,332	348,915	97.9	95.5
Georgia	160,010	164,106	156,970	98.1	95.7
Hawaii	20,267	20,204	19,511	96.3	96.6
Idaho	11,296	17,424	11,131	98.5	63.9
Illinois	165,470	161,652	158,608	95.9	98.1
Indiana	104,655	103,874	102,625	98.1	98.8
Iowa	56,393	55,960	55,339	98.1	98.9
Kansas	41,739	42,519	40,736	97.6	95.8
Kentucky	151,762	123,284	119,537	78.8	97.0
Louisiana	123,638	125,673	121,329	98.1	96.5
Maine	61,930	65,725	61,061	98.6	92.9
Maryland	76,198	73,437	72,559	95.2	98.8
Massachusetts	191,091	186,055	185,153	96.9	99.5
Michigan	182,038	179,849	177,010	97.2	98.4
Minnesota	92,646	92,294	90,506	97.7	98.1
Mississippi	123,524	123,022	121,290	98.2	98.6
Missouri	130,926	131,757	128,889	98.4	97.8
Montana	13,255	14,733	12,903	97.3	87.6
More Than One	33,214	29,968	29,717	89.5	99.2
Nebraska	30,661	30,239	30,149	98.3	99.7
Nevada	23,012	21,714	21,149	91.9	97.4
New Hampshire	16,126	16,337	15,856	98.3	97.1
New Jersey	157,315	157,495	151,202	96.1	96.0
New Mexico	34,703	35,165	33,807	97.4	96.1
New York	517,009	502,336	494,377	95.6	98.4
North Carolina	241,979	235,584	233,974	96.7	99.3
North Dakota	12,133	12,028	11,953	98.5	99.4
Ohio	176,779	181,849	173,951	98.4	95.7

Table 4: MSIS Versus EDB
Aggregate Count of Dual-Eligible Individuals by State in 2001 (cont'd.)

State	MSIS indicates individual is dual eligible	EDB indicates individual is dual eligible	Both MSIS and EDB indicate individual is dual eligible	Percent of MSIS dual eligibles confirmed in EDB	Percent of EDB dual eligibles Confirmed in MSIS
Oklahoma	79,161	77,435	76,875	97.1	99.3
Oregon	66,854	59,544	59,033	88.3	99.1
Pennsylvania	266,502	260,386	257,471	96.6	98.9
Rhode Island	28,634	28,956	27,854	97.3	96.2
South Carolina	107,104	108,694	104,633	97.7	96.3
South Dakota	14,918	14,949	14,701	98.5	98.3
Tennessee	267,297	226,433	222,757	83.3	98.4
Texas	438,740	425,438	420,923	95.9	98.9
Utah	14,917	16,289	14,612	98.0	89.7
Vermont	24,775	25,360	24,374	98.4	96.1
Virginia	124,426	120,437	119,709	96.2	99.4
Washington	94,845	94,767	92,404	97.4	97.5
West Virginia	44,082	46,804	43,297	98.2	92.5
Wisconsin	104,382	103,158	102,255	98.0	99.1
Wyoming	7,029	6,981	6,925	98.5	99.2
Total U.S.	2,839,710	2,756,425	2,702,943	95.2	98.1

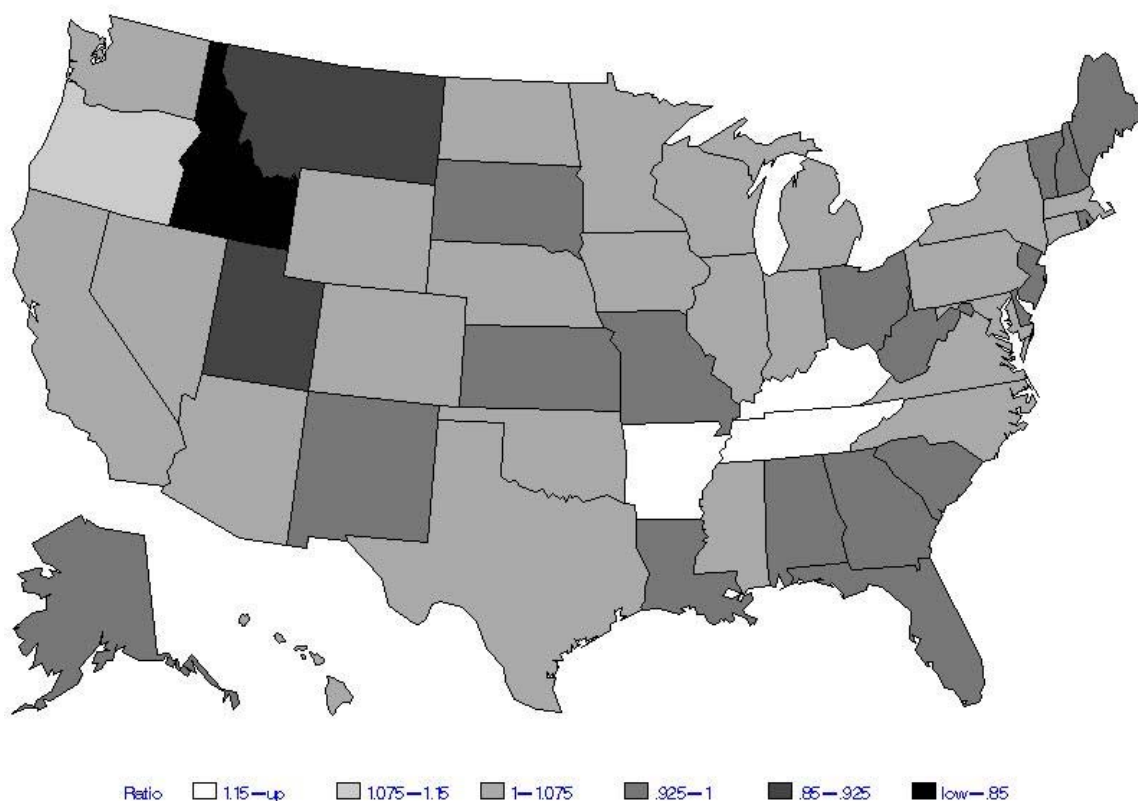


Figure 4: U.S. States by their Rate of MSIS-EDB Agreement about Dual-Eligibility Status in 2001

The demographic and programmatic characteristics of individuals in the database of health-insurance enrollment correspond to the characteristics of the broader U.S. population and eligibility rules for Medicaid and Medicare⁶.

Older white and black females comprise a disproportionate share of Medicare-only enrollees and dual-eligible enrollee persons, corresponding to women's disproportionate share of the broader older U.S. population. Younger white and black females comprise a disproportionate share of Medicaid-only enrollees. This corresponds to eligibility rules for Medicaid and Medicare. Tables 5, 6 and 7 show summary of the 2001 results by race and sex.

⁶ See Appendix VI, provided separately on CD and available upon request.

**Table 5: Race and Sex of Individuals
Enrolled in Medicaid and Not Enrolled in Medicare in 2001**

Race ⁷	Sex	Count in MSIS	Percent of Total MSIS Count	Percent of Total U.S. Population ⁸
Asian or Pacific Islander	Female	603,977	2.2	2.1
Asian or Pacific Islander	Male	594,159	2.2	2.0
Black	Female	4,647,562	16.9	6.7
Black	Male	3,592,524	13.1	6.0
American Indian or Alaskan Native	Female	300,056	1.1	0.5
American Indian or Alaskan Native	Male	243,593	0.9	0.5
White	Female	9,827,593	35.8	40.9
White	Male	7,674,665	27.9	39.9
Total		27,484,129	100.0	98.6

**Table 6: Race and Sex of Individuals
Enrolled in Medicare and Enrolled in Medicaid in 2001**

Race	Sex	Count in EDB	Percent of Total EDB Count	Percent of Total U.S. Population
Asian or Pacific Islander	Female	318,695	0.9	2.1
Asian or Pacific Islander	Male	274,983	0.8	2.0
Black	Female	1,451,684	4.3	6.7
Black	Male	1,220,843	3.6	6.0
American Indian or Alaskan Native	Female	81,118	0.2	0.5
American Indian or Alaskan Native	Male	69,438	0.2	0.5
White	Female	16,932,826	49.8	40.9
White	Male	13,672,846	40.2	39.9
Total		34,022,433	100.0	98.6⁹

⁷ Racial categories exclude individuals reported as having a multi-racial heritage.

⁸ Census Bureau estimates of the U.S. resident population for July 1, 2001. For more information on the methodology used to produce these estimates see <http://www.census.gov/popest/national/asrh/>.

⁹ See footnote 2 for explanation of why this column does not sum to 100.

**Table 7: Race and Sex of Individuals
Enrolled in both Medicare and Medicaid in 2001**

Race	Sex	Count in both MSIS and EDB	Percent of Total Dual-Eligible Count	Percent of Total U.S. Population
Asian or Pacific Islander	Female	177,226	2.9	2.1
Asian or Pacific Islander.	Male	156,478	2.6	2.0
Black	Female	806,427	13.3	6.7
Black	Male	439,548	7.2	6.0
American Indian or Alaskan Native	Female	35,632	0.6	0.5
American Indian or Alaskan Native	Male	22,855	0.4	0.5
White	Female	2,822,574	46.4	40.9
White	Male	1,622,251	26.7	39.9
Total		6,082,991	100.0	98.6

One interesting finding is that Hispanics are disproportionately overrepresented in Medicaid and underrepresented in Medicare. Appendix VI shows that while about 12 percent of Medicaid enrollees are Hispanic females only 2.9 percent of Medicare enrollees are Hispanic females. This is consistent with the age distribution of Hispanic females in the general population—that is, the population of Hispanic females is younger than the non-Hispanic population so Hispanic females are less likely to be in Medicare.

An overview of the 2001 results by Ethnicity and sex are shown in Tables 8, 9 and 10.

**Table 8: Medicaid Enrollees who are
Not in Medicare by Ethnicity and Sex in 2001**

Ethnicity	Sex	Frequency Count	Percent of Total Frequency	Percent of Total Medicaid Population
Hispanic	Female	3,266,926	11.9	6.3
Hispanic	Male	2,674,072	9.7	6.7
Non-Hispanic	Female	12,112,262	44.1	44.6
Non-Hispanic	Male	9,430,869	34.3	42.4
Total		27,484,129	100.0	100.0

Table 9: Medicare Enrollees who are Not in Medicaid by Ethnicity and Sex in 2001

Ethnicity	Sex	Frequency Count	Percent of Total Frequency	Percent of Total Medicare Population
Hispanic	Female	994,099	2.9	6.3
Hispanic	Male	938,219	2.8	6.7
Non-Hispanic	Female	17,790,224	52.3	44.6
Non-Hispanic	Male	14,299,891	42.0	42.4
Total		34,022,433	100.0	100.0

Table 10: Dual-Eligible Enrollees in Medicare and Medicaid by Ethnicity and Sex in 2001

Ethnicity	Sex	Frequency Count	Percent of Total Frequency	Percent of Total Dual-Eligible Population
Hispanic	Female	469,437	7.7	6.3
Hispanic	Male	308,077	5.1	6.7
Non-Hispanic	Female	3,372,422	55.4	44.6
Non-Hispanic	Male	1,933,055	31.8	42.4
Total		6,082,991	100.0	100.0