

CHANGES to BOTH SUMDENOM and PEDSF

Entitlement and/or yearly variables are now available until 2017.

The way in which the entitlement variables are written out and their location has changed. The source data for the rural-urban codes has changed from ARF to SEER*Stat and the rural-urban recode variables were removed from the file and code was added to the input statements to create these variables.

CHANGES to MEDICARE CLAIMS FILES

Many variable names in the claims file for the 2018 SEER/Medicare Linkage have changed. Also the order of variables in these files has changed from previous linkages. This affects the DME, Home Health Agency (HHA), Hospice, Outpatient, MEDPAR and Carrier (NCH) claims files. These changes were made to align the SEER/Medicare data more closely to the file descriptions available from CMS. To see a list of variables that have new names, see the spreadsheet at https://healthcaredelivery.cancer.gov/seermedicare/medicare/Variable.Name.Changes.2018_linkage.xlsx

The spreadsheet includes separate pages for each claim type. These sheets list the New SAS variable name, Variable label description, Variable number from the CMS version K documentation, Old SAS variable name (SEER/Medicare previous linkages) and Output length of the variable. Variables with the same name in the 2018 linkage as used in previous linkages are not listed. Variables deleted and new variables added to the claims files are listed below by claim type.

CENSUS File changes

No Changes

CCFlag File

No Changes

See <https://healthcaredelivery.cancer.gov/seermedicare/medicare/claims.html#flags> for information about the Chronic Conditions Flags.

DME File Changes

Variable names and variable order were changed in 2018 Linkage. See https://healthcaredelivery.cancer.gov/seermedicare/medicare/Variable.Name.Changes.2018_linkage.xlsx for details of variable name changes.

Variables added to DME file:

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
85	CLAIM PRINCIPAL DIAGNOSIS VERSION CODE (52) (pdvrsncd)	1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
235	CLAIM DIAGNOSIS VERSION CODE (121) (dvrnsncd1- dvrnsncd12)	12*1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
617	LINE DIAGNOSIS VERSION CODE (170) (ldvrsncd)	1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10

HHA File Changes

Variable names and variable order were changed in 2018 Linkage. See https://healthcaresdelivery.cancer.gov/seermedicare/medicare/Variable.Name.Changes.2018_linkage.xlsx for details of variable name changes.

Variables added to the HHA file:

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
267	CLAIM DIAGNOSIS VERSION CODE (194) (dvrnsncd1-dvrnsncd25)	25*1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10

Hospice File Changes

Variable names and variable order were changed in 2018 Linkage. See https://healthcaresdelivery.cancer.gov/seermedicare/medicare/Variable.Name.Changes.2018_linkage.xlsx for details of variable name changes.

Variables added to the Hospice file:

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
254	CLAIM DIAGNOSIS VERSION CODE (193) (dvrnsncd1-dvrnsncd25)	25*1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10

MEDPAR File Changes

Variable names and variable order were changed in 2018 Linkage. See https://healthcaresdelivery.cancer.gov/seermedicare/medicare/Variable.Name.Changes.2018_linkage.xlsx for details of variable name changes.

Variables added to the MEDPAR file:

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
576	MEDPAR DIAGNOSIS VERSION CODE (dgns_vrsn_cd1- dgns_vrsn_cd25)	25*1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
781	MEDPAR SURGICAL PROCEDURE VERSION CODE (srgcl_prcdr_vrsn_cd1- srgcl_prcdr_vrsn_cd25)	25*1	ICD procedure version code: 9 = ICD-9 0 = ICD-10
1203	MEDPAR ADMITTING DIAGNOSIS VERSION CODE (admtg_dgns_vrsn_cd)	1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10

NCH File Changes

Variable names and variable order were changed in 2018 Linkage. See

<https://healthcaredelivery.cancer.gov/seermedicare/medicare/>

[Variable.Name.Changes.2018_linkage.xlsx](#) for details of variable name changes.

Variables added to the NCH file:

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
83	CLAIM PRINCIPAL DIAGNOSIS VERSION CODE (52) (pdvrsncd)	1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
251	CLAIM DIAGNOSIS VERSION CODE (128) (dvrsncd1- dvrsncd12)	12*1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
671	LINE DIAGNOSIS VERSION CODE (182) (ldvrsncd)	1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10

Outpatient File Changes

Variable names and variable order were changed in 2018 Linkage. See

<https://healthcaresdelivery.cancer.gov/seermedicare/medicare/>

[Variable.Name.Changes.2018_linkage.xlsx](#) for details of variable name changes.

Variables added to the Outpatient file:

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
205	CLAIM 1 ST DIAGNOSIS E VERSION CODE (100) (e1vrsncd)	1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
324	CLAIM DIAGNOSIS VERSION CODE (206) (dvrsncd1-dvrsncd25)	25*1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
524	CLAIM DIAGNOSIS VERSION E CODE (210) (evrsncd1-evrsncd6)	6*1	ICD diagnosis version code: 9 = ICD-9 0 = ICD-10
572	CLAIM PROCEDURE VERSION CODE (214) (pvrsncd1-pvrsncd13)	13*1	ICD procedure version code: 9 = ICD-9 0 = ICD-10

Part D Event File Changes

No Changes.

Part D Denominator File Changes

The Part D Denominator file organization changed to list years for each variable in repeating arrays. See the Part D Denominator File Description for additional information.

In the 2018 linkage the Part D enrollment data are available from 2007 to 2016.

PEDSF File Changes

The PART D information on the PEDSF file has enrollment variables from 2007 to 2016 and all other yearly variables are available until 2017. The way in which the entitlement variables are written out and their location has changed. The source data for the rural-urban codes has changed from ARF to SEER*Stat and the rural-urban recode variable (URBRUR) s were removed from the file and code was added to the input statements to create these variables. Variables derived at first cancer diagnosis at age 65+ have been removed including MED_STCD, STATE, COUNTY, ZIP5, ZIP4, URBRUR and URBAN. Most of these variables are available in the repeating SEER portion of the record at time of each cancer diagnosis, and/or in the Geographic section of the record by calendar year. The census tract information has moved from the fixed portion of PEDSF to the repeating SEER section. The Medicare Status code has been added to the yearly entitlement variables as well as to the SEER repeating section.

REMOVED from PEDSF:

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
44	Current Reason for Entitlement (cur_ent)	1	EDB	Blank = Not Enrolled 0 = OASI (age) 1 = DIB 2 = ESRD 3 = DIB/ESRD Variable is selected by the first diagnosis date at age 65 or older, or the last diagnosis if all are prior to turning age 65. If information not available at those times then the first available data is used.
45	Current Reason for Entitlement Year (cur_yr)	4	EDB	YYYY
49	Chronic Renal Disease (chr_esrd)	1	EDB	0 (zero) = No ESRD Y = Source of ESRD Variable is set to zero. If there is a start date before the diagnosis date at age 65 or older, or the last diagnosis if all are prior to turning age 65 then it is set to Y.

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
50	Chronic Renal Disease Year (chr_esrd_yr)	4	EDB	YYYY
54	First Chronic Renal Disease Year (first_esrd_yr)	4	EDB	First occurrence of Chronic Renal Disease regardless of age.
58	Medicare Status Code (med_stcd)	2	EDB	Blank = Not Enrolled 10 = Aged 11 = Aged with ESRD 20 = Disabled 21 = Disabled with ESRD 31 = ESRD only Variable is selected by the first diagnosis date at age 65 or older, or the last diagnosis if all are prior to turning age 65. If information not available at those times then the first available data is used.
60	Medicare Status Code Year (medst_yr)	4	EDB	YYYY
65	State (state)	2	SEER	FIPS State Code
67	County (county)	3	SEER	FIPS County Code
70	Zip Code (zip5)	5	EDB	Encrypted Zip code, 5 digits. * Special permission required for unencrypted zip code.
75	Zip Code (zip4)	4	EDB	Last four digits of zip code. Blanked out when Encrypted Zip code is given. * Special permission required for unencrypted zip code.
79	Census Tract Flag (code_sys)	1	SEER	Use in conjunction with Census Tract (tract) 0 = Not tracted 1 = 1970 Census tract definitions 2 = 1980 Census tract definitions 3 = 1990 Census tract definitions
80	Census Tract (tract1990)	6	SEER	1970/80/90 Encrypted census tract * Special permission required for unencrypted census tract.

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
86	Census Tract 2000 (tract2000)	6	SEER	2000 encrypted census tract * Special permission required for unencrypted census tract.
92	Census Tract 2010 (tract2010)	6	SEER	2010 encrypted census tract * Special permission required for unencrypted census tract.
98	HSA (hsa)	3	ARF	Health Service Area. Taken from the 2004 Area Resource File (ARF).
101	Urban/Rural recode (urbrur)	1	ARF	Urban/Rural Code 1 = Big Metro (Urban = 00 or 01) 2 = Metro (Urban = 02 or 03) 3 = Urban (Urban = 04 or 05) 4 = Less Urban (Urban = 06 or 07) 5 = Rural (Urban = 08 or 09) 9 = Unknown (Urban = 99)
143	Census Tract Certainty (cen_cert)	1	SEER	Associated with 1970/80/90 Census data 1 = Census tract based on complete and valid street address of residence 2 = Census tract based on residence ZIP+4 3 = Census tract based on residence ZIP+2 4 = Census tract based on residence ZIP code only 5 = Census tract based on ZIP code of post office box 6 = Census tract/BNA based on residence city where city has only one census tract, or based on residence ZIP code where ZIP code has only one census tract 9 = Unable to assign census tract based on available information

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
144	Census Tract Certainty 2000 (ctcer2k)	1	SEER	Associated with 2000 Census data 1 = Census tract based on complete and valid street address of residence 2 = Census tract based on residence ZIP+4 3 = Census tract based on residence ZIP+2 4 = Census tract based on residence ZIP code only 5 = Census tract based on ZIP code of post office box 6 = Census tract/BNA based on residence city where city has only one census tract, or based on residence ZIP code where ZIP code has only one census tract 9 = Unable to assign census tract based on available information
145	Census Tract Certainty 2010 (ctcer2010)	1	SEER	Associated with 2010 Census data 1 = Census tract based on complete and valid street address of residence 2 = Census tract based on residence ZIP+4 3 = Census tract based on residence ZIP+2 4 = Census tract based on residence ZIP code only 5 = Census tract based on ZIP code of post office box 6 = Census tract based on residence city where city has only one census tract, or based on residence ZIP code where ZIP code has only one census tract 9 = Unable to assign census tract based on available information
146	Census Tract Poverty Indicator (census_pov_ind)	1	SEER	1 = 0%-<5% poverty 2 = 5% to <10% poverty 3 = 10% to <20% poverty 4 = 20% to 100% poverty 9 = Unknown

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
157	Diagnosis indicator (resnrec)	1	Created at IMS	0 = Last Dx; Patient always less than 65. 1 = First Dx at age 65 or later.

VARIABLE DEFINITIONS CHANGED IN PEDSF

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
624	Rural-Urban code (urban1991-urban2017)	27*2	SEER	1993, 2003 and 2013 Rural-Urban continuum codes were extracted from SEER*stat. 1993 continuum codes were used for years 1991-1998, 2003 continuum codes were used for years 1999-2008 and 2013 continuum codes were used from 2009-2017. 00-09, 99 see documentation for Rural-Urban continuum codes starting on page 31 of this document.
1978	Plan-Value Indicators (Jan. – Dec.) (plan07_01-plan07_12) (plan08_01-plan08_12) ... (plan15_01-plan15_12) (plan16_01-plan16_12) Or read them in all together like other entitlement variables. (planmon193- planmon312)	120*1	Part D Denom	12 monthly 1-byte indicators for each year from 2007-2016. Indicates for each month of the Denominator reference year, the Part D enrollment, which is based on the 1 st digit or the Part D contract number. Recodes only indicating type of plan; no 5-digit plan numbers. Blank = No Part D record 0 = Not Medicare enrolled for the month * = Enrolled in Medicare A and/or B, but no MIIR record for the month H = Managed Care Organizations other than Regional PPO R = Regional PPO S = PDP N = Not Part D Enrolled E = Employer-sponsored (starting in Jan. 2007) X = Limited Income Newly Eligible Transition plan (LINET, starting July 2009)

NEW VARIABLES ADDED TO PEDSF

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
51	Race and Origin Recode (rac_origin_rec)	1	SEER	1 = Non-Hispanic White 2 = Non-Hispanic Black 3 = Non-Hispanic American Indian/Alaska Native 4 = Non-Hispanic Asian or Pacific Islander 5 = Hispanic (All Races) 9 = Non-Hispanic Unknown Race
111	End Stage Renal Disease Ever (esrd_ever)	1	EDB	N = No ESRD Y = ESRD If an ESRD start date is found on the EDB file then this variable is set to Y.
112	End Stage Renal Disease start date (ersstm1,ersstd1, erssty1) (ersstm5,ersstd5, erssty5)	5*8	EDB	MMDDYYYY Start dates for Renal Disease.
152	End Stage Renal Disease end date (erstrm1, erstrd1,erstry1) (erstrm5,erstrd5, erstry5)	5*8	EDB	MMDDYYYY End dates for Renal Disease.
192	Medicare Status Code (medcd1991- medcd2017) Replaces med_stcd	27*2	EDB	Blank = Not Enrolled 10 = Aged 11 = Aged with ESRD 20 = Disabled 21 = Disabled with ESRD 31 = ESRD only 99 = Enrolled but Medicare Status is Unknown Variable is selected based on dates. The last status code for the year is kept.
2664	Total number of in situ/malignant tumors (maligcnt1- maligcnt10) <i>(maligcount)</i>	2	SEER	See Attachment A

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2666	Total number of benign/ borderline tumors (benbdcnt1- benbdcnt10) <i>(benbordcount)</i>	2	SEER	See Attachment A
2668	Census Tract (centrt1990_1- centrt1990_10)	6	SEER	1970/80/90 Encrypted census tract * Special permission required for unencrypted census tract.
2674	Census Tract 2000 (centrt2000_1- centrt2000_10)	6	SEER	2000 encrypted census tract * Special permission required for unencrypted census tract.
2680	Census Tract 2010 (centrt2010_1- centrt2010_10)	6	SEER	2010 encrypted census tract * Special permission required for unencrypted census tract.
2686	Census Track Flag (trtcode1-trtcode10)	1	SEER	Use in conjunction with Census Tract (centrt1990_1-centrt1990_10) 0 = No Census Tract 1 = 1970 Census tract definitions 2 = 1980 Census tract definitions 3 = 1990 Census tract definitions
2687	Census Tract Certainty (trtcert1990_1- trtcert1990_10)	1	SEER	Associated with 1970/80/90 Census data 1 = Census tract based on complete and valid street address of residence 2 = Census tract based on residence ZIP+4 3 = Census tract based on residence ZIP+2 4 = Census tract based on residence ZIP code only 5 = Census tract based on ZIP code of post office box 6 = Census tract/BNA based on residence city where city has only one census tract, or based on residence ZIP code where ZIP code has only one census tract 9 = Unable to assign census tract based on available information

2018 Linkage File Changes

11/01/2018

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2688	Census Tract Certainty 2000 (trtcert2000_1- trtcert2000_10)	1	SEER	Associated with 2000 Census data 1 = Census tract based on complete and valid street address of residence 2 = Census tract based on residence ZIP+4 3 = Census tract based on residence ZIP+2 4 = Census tract based on residence ZIP code only 5 = Census tract based on ZIP code of post office box 6 = Census tract/BNA based on residence city where city has only one census tract, or based on residence ZIP code where ZIP code has only one census tract 9 = Unable to assign census tract based on available information
2689	Census Tract Certainty 2010 (trtcert2010_1- trtcert2010_10)	1	SEER	Associated with 2010 Census data 1 = Census tract based on complete and valid street address of residence 2 = Census tract based on residence ZIP+4 3 = Census tract based on residence ZIP+2 4 = Census tract based on residence ZIP code only 5 = Census tract based on ZIP code of post office box 6 = Census tract based on residence city where city has only one census tract, or based on residence ZIP code where ZIP code has only one census tract 9 = Unable to assign census tract based on available information
2690	Census Tract Poverty Indicator (cenpvind1- cenpvind10)	1	SEER	1 = 0%-<5% poverty 2 = 5% to <10% poverty 3 = 10% to <20% poverty 4 = 20% to 100% poverty 9 = Unknown

2018 Linkage File Changes

11/01/2018

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2691	Rural Urban Commuting Area Codes 2000 (RUCA 00) (US only) (ruca00c1- ruca00c10)	2	SEER	1 = Urban commuting area-Secondary code1.0,1.1,2.0,2.1,3.0,4.1,5.1,7.1,8.1, or 10.1 2 = Not an urban commuting area – all other RUCA codes except 99 9 = Primary RUCA code is 99 (valid unknown) 96=Invalid state abbreviation, county code, or census tract 97=Insufficient population data for county to determine RUCA code 98=Valid state/county/tract combination but RUCA code not found 99=Missing or unknown state, county or census tract
2693	Rural Urban Commuting Area Codes 2010 (RUCA 10) (US Only) (ruca10c1- ruca10c10)	2	SEER	1 = Urban commuting area-Secondary code1.0,1.1,2.0,2.1,3.0,4.1,5.1,7.1,8.1, or 10.1 2 = Not an urban commuting area – all other RUCA codes except 99 9 = Primary RUCA code is 99 (valid unknown) 96=Invalid state abbreviation, county code, or census tract 97=Insufficient population data for county to determine RUCA code 98=Valid state/county/tract combination but RUCA code not found 99=Missing or unknown state, county or census tract
2695	Urban Rural Indicator Codes 2000 (URIC 00) (US Only) (ruic00c1- ruic00c10)	2	SEER	1= All urban – the % of the pop in an urban area is 100% 2 = Mostly urban – the % of the pop in an urban are is between >=50% and <100% 3 = Mostly rural - the % of the pop in an urban area is between >0% and <50% 4 = All rural – the % of the pop in an urban area is 0% 9 = The % of the pop in an urban or rural area is unknown (valid unknown) 96=Invalid state, county code or census tract 97=Insufficient pop data for county to determine census indicator 98=Valid state/county/tract combination but census indicator not found 99=Missing or unknown state, county or census tract

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2697	Urban Rural Indicator Codes 2010 (URIC 10) (US Only) (ruic10c1-ruic10c10)	2	SEER	<p>1= All urban – the % of the pop in an urban area is 100%</p> <p>2 = Mostly urban – the % of the pop in an urban are is between >=50% and <100%</p> <p>3 = Mostly rural - the % of the pop in an urban area is between >0% and <50%</p> <p>4 = All rural – the % of the pop in an urban area is 0%</p> <p>9 = The % of the pop in an urban or rural area is unknown (valid unknown)</p> <p>96=Invalid state, county code or census tract</p> <p>97=Insufficient pop data for county to determine census indicator</p> <p>98=Valid state/county/tract combination but census indicator not found</p> <p>99=Missing or unknown state, county or census tract</p>
2699	Rural-Urban Continuum code 1993 (rucd93ss1-rucd93ss10)	2	SEER* Stat	<p>00=Central counties of metro areas of 1 million population or more</p> <p>01=Fringe counties of metro areas of 1 million population or more</p> <p>02=Counties in metro areas of 250,000 to 1 million population</p> <p>03=Counties in metro areas of fewer than 250,000 population</p> <p>04=Urban population of 20,000 or more, adjacent to a metro area</p> <p>05=Urban population of 20,000 or more, not adjacent to a metro area</p> <p>06=Urban population of 2,500 to 19,999, adjacent to a metro area</p> <p>07=Urban population of 2,500 to 19,999, not adjacent to a metro area</p> <p>08=Completely rural or less than 2,500 urban population, adjacent to a metro area</p> <p>09=Completely rural or less than 2,500 urban population, not adjacent to a metro area</p> <p>88=Unknown-Alaska/Hawaii State/not official USDA Rural-Urban Continuum code</p> <p>99=Unknown/not official USDA Rural-Urban Continuum code</p> <p>More information can be found here: Rural-Urban</p>

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2701	Rural-Urban Continuum code 2003 (rucd03ss1-rucd03ss10)	2	SEER* Stat	01=Counties of metro areas of 1 million population or more 02=Counties in metro areas of 250,000 to 1 million population 03=Counties in metro areas of fewer than 250,000 population 04=Urban population of 20,000 or more, adjacent to a metro area 05=Urban population of 20,000 or more, not adjacent to a metro area 06=Urban population of 2,500 to 19,999, adjacent to a metro area 07=Urban population of 2,500 to 19,999, not adjacent to a metro area 08=Completely rural or less than 2,500 urban population, adjacent to a metro area 09=Completely rural or less than 2,500 urban population, not adjacent to a metro area 88=Unknown-Alaska/Hawaii State/not official USDA Rural-Urban Continuum code 99=Unknown/not official USDA Rural-Urban Continuum code More information can be found here: Rural-Urban

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2703	Rural-Urban Continuum code 2013 (rucd13ss1-rucd13ss10)	2	SEER* Stat	01=Counties of metro areas of 1 million population or more 02=Counties in metro areas of 250,000 to 1 million population 03=Counties in metro areas of fewer than 250,000 population 04=Urban population of 20,000 or more, adjacent to a metro area 05=Urban population of 20,000 or more, not adjacent to a metro area 06=Urban population of 2,500 to 19,999, adjacent to a metro area 07=Urban population of 2,500 to 19,999, not adjacent to a metro area 08=Completely rural or less than 2,500 urban population, adjacent to a metro area 09=Completely rural or less than 2,500 urban population, not adjacent to a metro area 88=Unknown-Alaska/Hawaii State/not official USDA Rural-Urban Continuum code 99=Unknown/not official USDA Rural-Urban Continuum code More information can be found here: Rural-Urban
2705	Health Service Area (hsa_ss1-hsa_ss10)	4	SEER* Stat	This variable was derived from the original Health Service Area definitions and is Described in more detail on this website: SEER*Stat
2709	Health Service Area (NCI Modified) (hsanci_ss1-hsanci_ss10)	4	SEER* Stat	This variable was derived from the original Health Service Area definitions, but has been modified and is described in more detail on this website: SEER*Stat
2713	County at DX geocode 1990 (cnty90dx1-cnty90dx10)	3	SEER	County codes can be found here: SPM AppendixA.pdf
2716	County at DX geocode 2000 (cnty00dx1-cnty00dx10)	3	SEER	County codes can be found here: SPM AppendixA.pdf
2719	County at DX geocode 2010 (cnty10dx1-cnty10dx10)	3	SEER	County codes can be found here: SPM AppendixA.pdf

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2722	Medicare Status Code (med_stcd1- med_stcd10)	2	EDB	10 = Aged 11 = Aged with ESRD 20 = Disabled 21 = Disabled with ESRD 31 = ESRD only Variable is selected based on dates. The last status code prior to diagnosis is kept.
2759	HPV recode (2013+) (hprvrec1-hprvrec10)	1	SEER	0 = HPV Negative 1 = HPV Positive 8 = Unknown/NA 9 = Not 2013+ or selected schema *Special permission required to receive this variable
2760	Watchful waiting recode (2010+) (wwrec1-wwrec10)	1	SEER	0 = No/unknown watchful waiting 1 = Yes watchful waiting 9 = Not 2010+ or selected cancer type *Special permission required to receive this variable

SUMDENOM File Changes

The PART D information on the SUMDENOM file has enrollment variables from 2007 to 2016 and all other yearly variables are available until 2017.

Removed from SUMDENOM

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
32	Current Reason for Entitlement (CREC) (cur_ent)	1	Reason for Entitlement at age 65 0 = OSAI 1 = DIB 2 = ESRD 3 = DIB/ESRD
33	Year of Current Reason for Entitlement (cur_yr)	4	YYYY
37	End Stage Renal Disease Indicator (ESRD) (chr_esrd)	1	Indicates if patient had ESRD at age 65 0 = No ESRD Y = Bene. Has ESRD
38	Year of End Stage Renal Disease (chr_esrd_yr)	4	YYYY
42	First ESRD Year (first_esrd_yr)	4	First ESRD year on the EDB record. YYYY

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
46	Medicare Status Code (med_stcd)	2	Medicare Status at age 65 10 = Aged 11 = Aged with ESRD 20 = Disabled 21 = Disabled with ESRD 31 = ESRD Only
48	Year of Medicare Status Code (medst_yr)	4	YYYY
476*	Urban/Rural Recode (urbrec1991-urbrec2015)	1	1 = Big Metro 2 = Metro 3 = Urban 4 = Less Urban 5 = Rural

Added to SUMDENOM

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
35	End Stage Renal Disease Ever (ESRD) (esrd_ever)	1	Indicates if patient ever had ESRD N = No ESRD Y = Bene. Has ESRD
36	End Stage Renal Disease start date (ersstm1,ersstd1,erssty1) (ersstm5,ersstd5,erssty5)	5*8	MMDDYYYY
76	End Stage Renal Disease end date (erstrm1,erstrd1,erstry1) (erstrm5,erstrd5,erstry5)	5*8	MMDDYYYY

Enrollment Variables

* The following repeating variables are blank in the years prior to start of enrollment in Medicare.

116	Medicare Status Code* (medcd1991-medcd2017)	27*2	Medicare Status for each entitlement year 1991-2017 10 = Aged 11 = Aged with ESRD 20 = Disabled 21 = Disabled with ESRD 31 = ESRD Only
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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
548	Rural-Urban Code* (urban1991-urban2017)	27*2	00 -09, 88, 99 Years 1991-1998 used the 1993 continuum code Years 1999-2008 used the 2003 continuum code Years 2009-2017 used the 2013 continuum code Definitions for the 1993 continuum code: 00=Central counties of metro areas of 1 million population or more 01=Fringe counties of metro areas of 1 million population or more 02=Counties in metro areas of 250,000 to 1 million population 03=Counties in metro areas of fewer than 250,000 population 04=Urban population of 20,000 or more, adjacent to a metro area 05=Urban population of 20,000 or more, not adjacent to a metro area 06=Urban population of 2,500 to 19,999, adjacent to a metro area 07=Urban population of 2,500 to 19,999, not adjacent to a metro area 08=Completely rural or less than 2,500 urban population, adjacent to a metro area 09=Completely rural or less than 2,500 urban population, not adjacent to a metro area 88=Unknown-Alaska/Hawaii State/not official USDA Rural-Urban Continuum code 99=Unknown/not official USDA Rural-Urban Continuum code

<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>NOTES</u>
	Rural-Urban Continued		<p>Definitions for the 2003 and 2013 continuum codes:</p> <p>01=Counties of metro areas of 1 million population or more</p> <p>02=Counties in metro areas of 250,000 to 1 million population</p> <p>03=Counties in metro areas of fewer than 250,000 population</p> <p>04=Urban population of 20,000 or more, adjacent to a metro area</p> <p>05=Urban population of 20,000 or more, not adjacent to a metro area</p> <p>06=Urban population of 2,500 to 19,999, adjacent to a metro area</p> <p>07=Urban population of 2,500 to 19,999, not adjacent to a metro area</p> <p>08=Completely rural or less than 2,500 urban population, adjacent to a metro area</p> <p>09=Completely rural or less than 2,500 urban population, not adjacent to a metro area</p> <p>88=Unknown-Alaska/Hawaii State/not official USDA Rural-Urban Continuum code</p> <p>99=Unknown/not official USDA Rural-Urban Continuum code</p> <p>More information can be found here: Rural-Urban</p>
	Rural-Urban Recode* (urbrur1991-urbrur2017)	27*1	<p>Rural-Urban Code (no longer on the file but is created in the input statement using the urban codes)</p> <p>1 = Big Metro (Urban = 00 or 01)</p> <p>2 = Metro (Urban = 02 or 03)</p> <p>3 = Urban (Urban = 04 or 05)</p> <p>4 = Less Urban (Urban = 06 or 07)</p> <p>5 = Rural (Urban = 08 or 09)</p> <p>9 = Unknown (Urban = 99)</p>