

Documentation for the Patient Entitlement and Diagnosis Summary File (PEDSF)
June 11, 2019

FILENAME 1: pedsf.cancer.txt

LRECL 1: 6,240

SEER Cases diagnosed 1973-2015

PEDSF File created on May 22, 2019

SEER data extracted from November, 2018 SEER Submission

ABSTRACT: The PEDSF file contains one record per person for individuals in the SEER Program data base who have been matched with Medicare enrollment records. Of persons who were reported by the SEER Registries to have been diagnosed with cancer at age 65 or older, 94 percent were matched with Medicare enrollment records. For persons appearing in the PEDSF file, basic SEER Program diagnostic information is available for up to 10 diagnosed cancer occurrences. Data also include Medicare entitlement and utilization data from 1991-2017.

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NOTE1: With Linkage 2014 PEDSF no longer includes SEER cases from Los Angeles and San Jose from 1988 thru 1991. LA and SJ now include data from 1992 on.

NOTE2: For all non-custom requests, patients have been selected if the cancer(s) requested appeared in the site array (siterwho1-10) and the associated year of diagnosis (yrdx1-10) fell in the year of diagnosis window requested.

NOTE3: If you are using old data received prior to Linkage 2010 and link-up the data for **Louisiana** patients using the "oshufcase" it's important to note that some old IDs are repeated as current IDs for different patients. It is suggested that after patients are matched on "oshufcase" they should use the current shufcase so duplicate IDs won't lead to different patients.

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NOTE4: The SEER program removed Cervix InSitu patients diagnosed between 1973-1995 from the November 2017 SEER Submission. These patients are no longer included in the PEDSF as well.

NOTE5: With the 2018 Linkage the PEDSF layout has many changes including census tracts, state, county, rural code, tract certainty variables and poverty indicator are now in the SEER repeating section. Entitlement variables have moved and are written out together instead of yearly, this includes Part D data.

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
1	Patient ID (patient_id)	10	Master File	
1	SEER Cases - Registry	2	SEER	First two digits in the patient ID. 02 = Connecticut (1973+) 20 = Detroit (1973+) 21 = Hawaii (1973+) 22 = Iowa (1973+) 23 = New Mexico (1973+) 25 = Seattle (1974+) 26 = Utah (1973+) 42 = Kentucky (2000+) 43 = Louisiana (2000+) 44 = New Jersey (2000+) 87 = Georgia 88 = California NOTE: Specific California and Georgia registries will be differentiated in the repeated registry codes (starting in column 2390, variables reg1-reg10)
3	Case Number	8	Assigned by IMS	Encrypted SEER Case Number
11	Five Percent Indicator (fivepct)	1	Master File	Indicates inclusion in the 5% Medicare sample. Y = Included N = Not included
12	Match Type (mat_type)	1	Match File	CMSs matching algorithm is available at IMS. A = Alphabetic Match B = SSN Match
13	Match Flag 1 (yobflg1)	1	Match File	Year of Birth flag for SSN and Alpha Match. Y = Agreement between SEER and Medicare N = Did not agree 0 (Zero) = Cases matched on SSN U = Unknown, Missing data
14	Match Flag 2 (dobflg2)	1	Match File	Day of Birth Match for SSN and Alpha Match (See Match Flag 1 for code definition)

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15	Match Flag 3 (yodflg3)	1	Match File	Month and Year of Death for Alpha Match. (See Match Flag 1 for code definition)
17	Match Flag 5 (lstflg5)	1	Match File	Last Name Flag for SSN Match. (See Match Flag 1 for code definition)
18	Match Flag 6 (fstflg6)	1	Match File	First Name Flag for SSN Match. (See Match Flag 1 for code definition)
19	Match Flag 7 (mobflg7)	1	Match File	Month of Birth Flag for SSN Match. (See Match Flag 1 for code definition)
20	Match Flag 8 (midflg8)	1	Match File	Middle Initial Flag for Alpha Match. (See Match Flag 1 for code definition)
21	Number of digits in SSN that matched (numdigit)	1	Match File	Alpha search only. 0-8 9 = SSN match U = Unknown; data missing A = digits transposed and matched
22	Linkage Flag (linkflag)	1	Created at IMS	Indicates the linkage the patient is first associated with. 1 = 2005 linkage, earliest claim year is 1991 2 = 2008 linkage, earliest claim year is 1998 3 = 2010 linkage, earliest claim year is 2000 4 = 2012 linkage, earliest claim year is 2002 5 = 2014 linkage, earliest claim year is 2004 6 = 2016 linkage, earliest claim year is 2006 7 = 2018 linkage, earliest claim year is 2008
23	Medicare Month of Birth (birthm)	2	EDB	MM, zeroes for invalid
27	Medicare Year of Birth (birthyr)	4	EDB	YYYY, zeroes for invalid
31	Medicare Date of Death (med_dodm, med_dodd, med_dody)	8	EDB	MMDDYYYY or blanks for not dead. Reported to CMS by SSA – not date of last contact. Date complete through 12/31/17

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
39	Valid Date of Death (vrfydtth)	1	EDB	N = No Y = Yes
40	Date of Birth Flag (dob_flg)	1	Created at IMS	Shows the level of agreement between SEER and MEDICARE on the patient's month of birth. 0 = Both files agree on birth date. 1 = Birth date off by 1-3 months. 2 = Birth date off by 4-6 months. 3 = Birth date off by 7-11 months. 4 = Birth date off by one year 5 = Birth date off by 13-23 months 6 = Birth date off by 2 years 7 = Birth date off by 25-35 months 8 = Birth date off by 3 years 9 = Birth date off by 37+ months Blank = Birth date is missing
41	Date of Death Flag (dod_flg)	1	Created at IMS	Shows the level of agreement between SEER and MEDICARE on the patient's month of death. Dates of death after 12/16 were treated as not dead for comparison purposes. 0 = Not dead by 12/16. 1 = Dead, both files agree. 2 = Dead, off by 1-3 months. 3 = Dead, off by 4-6 months. 4 = Dead in MEDICARE only, 5 = Dead in SEER only. 6 = Dead but number of months could not be calculated due to the fact that month was missing for either SEER or MEDICARE.
42	Medicare Sex (m_sex)	1	EDB	1 = Male 2 = Female
43	Medicare Race (race)	1	EDB	1 = White 2 = Black 3 = Other 4 = Asian 5 = Hispanic 6 = N. Am. Native 0 = Unknown

Demographic Information

The SEER information was extracted from the last available record for the patient.

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
44	SEER Sex (s_sex)	1	SEER	1 = Male 2 = Female
47	Race Recode Y (rac_recy)	1	SEER	1 = White 2 = Black 3 = American Indian/Alaska Native 4 = Asian or Pacific Islander 9 = Unknown
48	Race Recode A (rac_reca)	1	SEER	1 = White 2 = Black 3 = Other(American Indian/AK Native, Asian/Pacific Islander) 9 = Unknown
49	SEER Race/Ethnicity (srace)	2	SEER	01 = White 02 = Black 03 = American Indian/Alaska Native 04 = Chinese 05 = Japanese 06 = Filipino 07 = Hawaiian 08 = Korean (1988+) 10 = Vietnamese (1988+) 11 = Laotian (1988+) 12 = Hmong (1988+) 13 = Kampuchean (1988+) 14 = Thai (1994+) 15 = Asian Indian or Pakistani, NOS (1988+) 16 = Asian Indian (2010+) 17 = Pakistani (2010+) 20 = Micronesian, NOS (1991+) 21 = Chamorran (1991+) 22 = Guamanian, NOS (1991+) 25 = Polynesian, NOS (1991+) 26 = Tahitian (1991+) 27 = Samoan (1991+) 28 = Tongan (1991+) 30 = Melanesian, NOS (1991+) 31 = Fiji Islander (1991+) 32 = New Guinean (1991+) 96 = Other Asian (1991+) 97 = Pacific Islander, NOS (1991+) 98 = Other 88 = No further race documented

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
				99 = Unknown
53	Origin recode NHIA (Hispanic, Non-Hisp) (origrecb)	1	SEER	0 = Non-Spanish-Hispanic-Latino 1 = Spanish-Hispanic-Latino
54	NHIA Derived Hispanic Origin (nhiade)	1	SEER	0 = Non-Spanish-Hispanic-Latino 1 = Mexican 2 = Puerto Rican 3 = Cuban 4 = South or Central American excluding Brazil 5 = Other specified Spanish/Hispanic origin including Europe 6 = Spanish/Hispanic/Latino, NOS 7 = NHIA surname match only 8 = Dominican Republic
55	Vital Status Recode (Study cutoff used) (stat_rec)	1	SEER	1 = Alive 4 = Dead
58	Year of Birth (yr_brth)	4	SEER	1800-2017
62	Date of Birth Flag (dbrflag)	2	SEER	12 = A proper value is applicable but not known
64	SEER Month of Death (ser_dodm)	2	SEER	00 = Alive 01-12 = Valid Month 99 or Missing = Unknown Date complete through 12/31/2016
66	SEER Year of Death (ser_dody)	4	SEER	0000 = Alive 1991-2015 = Valid Year 9999 of Missing = Unknown Date complete through 12/31/2016
70	Date of Death Flag (deathflag)	2	SEER	0 = Alive 12 = A proper value is applicable but not known
72	ICD Code – Cause of Death (icd_code)	1	SEER	0 = Patient is alive at last follow-up 1 = Tenth ICD revision 8 = Eighth ICD Revision 9 = Ninth ICD revision
73	Cause of Death ICD-8 or 9 (cod89v)	4	SEER	0000 = Alive at last contact 7777 = State Death Certificate not

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				available. 7797 = Death Certificate available, no COD listed.
77	Cause of Death ICD-10 (cod10v)	4	SEER	A020-Y891 0000 = Alive at last contact 7777 = State Death Certificate not available. 7797 = Death Certificate available, no COD listed.
81	Cause of Death to site recode KM (codkm)	5	SEER	This is a recode based on underlying cause of death to designate cause of death into groups similar to the incidence site recode with KS and mesothelioma. Study cutoff date has been applied, i.e. coded as alive if death occurred after study cutoff. Go to the end of this document for a listing of codes and their definition.
86	Cause of Death to site recode (codpub)	5	SEER	This recode was introduced to account for several newly valid ICD-10 codes and includes both cancer and non-cancer causes of death. Go to the end of this document for a listing of codes and their definition.
91	Number of SEER records (count)	2	Created at IMS	Number of eligible SEER records. SEER records prior to 1992 for Rural Georgia, LA, San Jose and records prior to 2000 for Greater California, New Jersey, Kentucky, and Louisiana were not included in PEDSF.
93	Old Encrypted Casenum (oshufcase)	8	IMS	The encrypted case number for Louisiana and Seattle in the 2008 linkage.
101	Filler	9		
110	Original Reason for Entitlement (rsncd1)	1	EDB	0 = OASI (age) 1 = DIB (disability) 2 = ESRD 3 = DIB/ESRD This is the first entitlement reason located on EDB
111	End Stage Renal	1	EDB	N = No ESRD

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	Disease Ever (esrd_ever)			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)	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.

Geographic Information

EDB program data are from the EDB record corresponding to the last location for that entitlement year. If patient was not entitled in that year then the variable will be missing.

246	Zip Code (zip5_1991-zip5_2017)	27*5	EDB	Encrypted Zip code, 5 digits. * Special permission required for unencrypted zip code.
381	Zip Code (zip4_1991-zip4_2017)	27*4	EDB	Last four digits of zip code. Blanked out when Encrypted Zip code is given. * Special permission required for unencrypted zip code.
489	State (state1991-state2017)	27*2	EDB	FIPS State Code from EDB
543	County (cnty1991-	27*3	EDB	FIPS County Code from EDB

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	cnty2017)			
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.
	Rural-Urban recode (urbrur1991-urbrur2017)	27*1	SEER	Rural-Urban Code (no longer on the file but is created in the input statement using the urban codes) 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)
678	Registry Code (registry1991-registry2017)	27*2	EDB	01 = San Francisco 02 = Connecticut 20 = Detroit 21 = Hawaii 22 = Iowa 23 = New Mexico 25 = Seattle 26 = Utah 27 = Atlanta 31 = San Jose 35 = Los Angeles 37 = Rural Georgia 41 = Greater California 42 = Kentucky 43 = Louisiana 44 = New Jersey 47 = Greater Georgia NA = Has not lived in a registry yet NOTE: First registry found is retained until patient moved into a new registry.

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732	Registry Code #2 (reg2cd1991- reg2cd2017)	27*2	EDB	01 = San Francisco 02 = Connecticut 20 = Detroit 21 = Hawaii 22 = Iowa 23 = New Mexico 25 = Seattle 26 = Utah 27 = Atlanta 31 = San Jose 35 = Los Angeles 37 = Rural Georgia 41 = Greater California 42 = Kentucky 43 = Louisiana 44 = New Jersey 47 = Greater Georgia NA = Other

NOTE:

Registry is based off the state and county, which is the last residence the patient lived at for that year.

EDB Entitlement Information

EDB program data is used to create monthly indicators for Part A, B and HMO entitlement based on Start and End dates provided in the EDB.

790	Entitlement Indicators (mon1-mon324)	324*1	EDB	One indicator for each month in the year. 0 = Not entitled 1 = Part A only 2 = Part B only 3 = Part A and B Note: mon1 = 1/1991, mon2 = 2/1991, mon3 = 3/1991mon324 = 12/2017
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1114	HMO Indicators (gho1-gho324)	324*1	EDB	One indicator for each month in the year. 0 = Not a member of HMO 1 = Non-Lock-in, CMS to process provider claims 2 = Non-Lock-in, GHO to process in-plan Part A & in-area Part B claims 4 = Chronic care disease management organizations-FFS plan A = Lock-in, CMS to process provider claims B = Lock-in, GHO to process in-plan Part A & in-area Part B claims C = Lock-in, GHO to process all Part A and Part B claims Note: gho1 = 1/1991, gho2 = 2/1991, gho3 = 3/1991... gho324 = 12/2017
1438	State Buy-in Monthly Indicators (allflag1-allflag324)	324*1	EDB	One indicator for each month in the year. 0 = Not entitled 1 = Part A only 2 = Part B only 3 = Part A and B Note: allflag1 = 1/1991, allflag2 = 2/1991, allflag3 = 3/1991allflag324 = 12/2017
1762	Part A Months (ptacnt1991-ptacnt2017)	27*2	EDB	Number of months covered for Part A in each year from 1991-2017. 00 = No coverage that year 01-12 = Number of months of coverage
1816	Part B Months (ptbcnt1991-ptbcnt2017)	27*2	EDB	Number of months covered for Part B in each year from 1991-2017. 00 = No coverage that year 01-12 = Number of months of coverage
1870	HMO Months (hmocnt1991-hmocnt2017)	27*2	EDB	Number of months as an HMO Member in each year from 1991-2017. 00 = No coverage that year 01-12 = Number of months of coverage
1924	State Buy-in Months (stbuyin1991-stbuyin2017)	27*2	EDB	Number of months with state buy-in coverage In each year from 1991-2017. 00 = No coverage that year 01-12 = Number of months of coverage

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Repeated Part D Denominator Information

Entitlement information from the Part D Denominator file are provided from 2007 to 2016.
Blank values indicate the patient had no Part D record for that year.

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)
2098	State Reported Dual Eligible Status Code (Jan. – Dec.) (dual07_01-dual07_12) (dual08_01-dual08_12) ... (dual15_01-dual15_12) (dual16_01-dual16_12) Or read them in all together like other entitlement variables. (dualmon193- dualmon312)	120*2	Part D Denom	12 monthly 2-byte indicators Indicates for each month of the Denominator reference year (2007-2016), the dual eligibility status, if any, for the beneficiary. Blank = No Part D record 00 = Not Medicare enrolled for the month ** = Enrolled in Medicare A and/or B, but no MIIR record for the month NA = Non-Medicaid 01 = QMB only 02 = QMB and Medicaid coverage including RX 03 = SLMB only 04 = SLMB and Medicaid coverage including RX 05 = QDWI 06 = Qualifying Individuals

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				08 = Other Dual Eligibles (Non-QMB, SLMB, QWDI, or QI) w/Medicaid coverage including RX 09 = Other Dual Eligibles but without Medicaid coverage 99 = Unknown
2338	Plan Coverage Months (ptd07-ptd16)	10*2	Part D Denom	Contains the total number of months of Part D plan coverage for the beneficiary. The value in this field will be within the valid range of values 00 through 12, inclusive, dependent on the number of occurrences when the Plan Indicators = H, R, S, E, or X.
2358	Medicaid Dual Eligible Months (dualcnt07-dualcnt16)	10*2	Part D Denom	Contains the total numbers of months of dual eligibility for the beneficiary. The value in this field will be within the valid range of values 00 through 12, inclusive, dependent on the number of occurrences when the Medicaid Dual Eligible Indicators not equal to 00, **, NA, or 99.

Repeated SEER Cancer Information

A patient can have up to 10 diagnoses in SEER, so the below variables are repeated for each cancer diagnosis the patient has in SEER. If the patient has more than 10 only the first 10 are retained for this file. **In parenthesis you will find the variable names. In italics you will find the SEER variable name. Please note that diagnoses are sorted on SEQUENCE NUMBER and not date of diagnosis. Meaning all malignant cancers (sequence # 00-59) are first then nonmalignant cancers (sequence 60+)**

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2390	SEER Registry Code at Diagnosis (reg1-reg10) (<i>reg</i>)	2	SEER	01 = San Francisco (1973+) 02 = Connecticut (1973+) 20 = Detroit (1973+) 21 = Hawaii (1973+) 22 = Iowa (1973+) 23 = New Mexico (1973+) 25 = Seattle (1974+) 26 = Utah (1973+) 27 = Atlanta (1975+) 31 = San Jose (1992+) 35 = Los Angeles (1992+) 37 = Rural Georgia (1992+) 41 = Greater California (2000+) 42 = Kentucky (2000+) 43 = Louisiana (2000+) 44 = New Jersey (2000+) 47 = Greater Georgia (2000+)
2392	Marital Status at Diagnosis (marst1-marst10) (<i>mar_stat</i>)	1	SEER	See Attachment A
2393	Filler	3		
2396	Age at Diagnosis (agedx1-agedx10) (<i>age_dx</i>)	3	SEER	See Attachment A
2399	Sequence Number (seq1-seq10) (<i>seq_num</i>)	2	SEER	See Attachment A
2401	Month of Diagnosis (modx1-modx10) (<i>date_mo</i>)	2	SEER	See Attachment A
2403	Year of Diagnosis (yrdx1-yrdx10) (<i>date_yr</i>)	4	SEER	See Attachment A
2407	Primary Site (site1-site10) (<i>site02v</i>)	4	SEER	See Attachment A

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2411	Laterality (lat1-lat10) <i>(lateral)</i>	1	SEER	See Attachment A
2412	Histology ICD-O-2 (1992-2000) (hist2_1-hist2_10) <i>(hist02v)</i>	4	SEER	See Attachment A
2416	Behavior code ICD-O-2 (1992-2000) (beh2_1-beh2_10) <i>(beh02v)</i>	1	SEER	See Attachment A
2417	Histology ICD-O-3 (hist1-hist10) <i>(hist03v)</i>	4	SEER	See Attachment A
2421	Behavior code ICD-O-3 (beh1-beh10) <i>(beh03v)</i>	1	SEER	See Attachment A
2422	Grade (grade1-grade10) <i>(grade)</i>	1	SEER	See Attachment A
2423	Diagnostic Confirmation (dxconf1-dxconf10) <i>(dx_conf)</i>	1	SEER	See Attachment A
2424	Type of Reporting Source (src1-src10) <i>(rept_src)</i>	1	SEER	See Attachment A
2425	EOD 10 - Tumor Size (1988-2003) (e10sz1-e10sz10) <i>(eod10_sz)</i>	3	SEER	See Attachment A
2428	EOD 10 – Tumor Extent (1988-2003) (e10ex1-e10ex10) <i>(eod10_ex)</i>	2	SEER	See Attachment A

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2430	EOD 10 – Prostate Pathology Extension (1995-2003) (e10pe1-e10pe10) (eod10_pe)	2	SEER	See Attachment A
2432	EOD 10 – Lymph Nodes (1988-2003) (e10nd1-e10nd10) (eod10_nd)	1	SEER	See Attachment A
2433	EOD 10 - # Regional Positive Nodes (1988+) (e10pn1-e10pn10) (eod10_pn)	2	SEER	See Attachment A
2435	EOD 10 - # Regional Nodes Examined (1988+) (e10ne1-e10ne10) (eod10_ne)	2	SEER	See Attachment A
2437	EOD – OLD 13 Digit (1973-1982) (eod13_1-eod13_10) (eod13)	13	SEER	See Attachment A
2450	EOD – OLD 2 Digit (1973-1982) (eod2_1-eod2_10) (eod2)	2	SEER	See Attachment A
2452	EOD 4 –size (1983-1987) (e4siz1-e4siz10) (eod4)	2	SEER	See Attachment A
2454	EOD 4 – extent (1983-1987) (e4ext1-e4ext10) (eod4)	1	SEER	See Attachment A
2455	EOD 4 – nodes (1983-1987) (e4nod1-e4nod10) (eod4)	1	SEER	See Attachment A

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2456	Coding system – extent of disease (1973-2003) (eod_cd1-eod_cd10) (eodcode)	1	SEER	See Attachment A
2457	Tumor Marker 1 (1990-2003) (tumor1_1-tumor1_10) (tumor_1v)	1	SEER	See Attachment A
2458	Tumor Marker 2 (1990-2003) (tumor2_1-tumor2_10) (tumor_2v)	1	SEER	(Prostate data has been removed from this field) See Attachment A
2459	Tumor Marker 3 (1998-2003) (tumor3_1-tumor3_10) (tumor_3v)	1	SEER	See Attachment A
2460	CS Tumor Size (2004+) (cstum1-cstum10) (cs_size)	3	SEER	See Attachment A
2463	CS Extension (2004+) (csex1-csex10) (cs_ext)	3	SEER	See Attachment A
2466	CS Lymph Nodes (2004+) (cslym1-cslym10) (cs_node)	3	SEER	See Attachment A
2469	CS Mets at Dx (2004+) (csmet1-csmet10) (cs_mets)	2	SEER	See Attachment A
2471	CS Site-Specific Factor 1 (2004+) (cs1st1-cs1st10) (cs_ssf1)	3	SEER	See Attachment A
2474	CS Site-Specific Factor 2 (2004+) (cs2st1-cs2st10) (cs_ssf2)	3	SEER	(Prostate data has been removed from this field) See Attachment A

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2477	CS Site-Specific Factor 3 (2004+) (cs3st1-cs3st10) <i>(cs_ssf3)</i>	3	SEER	See Attachment A
2480	CS Site-Specific Factor 4 (2004+) (cs4st1-cs4st10) <i>(cs_ssf4)</i>	3	SEER	See Attachment A
2483	CS Site-Specific Factor 5 (2004+) (cs5st1-cs5st10) <i>(cs_ssf5)</i>	3	SEER	See Attachment A
2486	CS Site-Specific Factor 6 (2004+) (cs6st1-cs6st10) <i>(cs_ssf6)</i>	3	SEER	See Attachment A
2489	CS Site-Specific Factor 25 (2004+) (cs25st1-cs25st10) <i>(cs_ssf25)</i>	3	SEER	See Attachment A
2492	Derived AJCC T, 6 th edition (2004+) (dajcct1-dajcct10) <i>(d_ajcc_t)</i>	2	SEER	See Attachment A
2494	Derived AJCC N, 6 th edition (2004+) (dajccn1-dajccn10) <i>(d_ajcc_n)</i>	2	SEER	See Attachment A
2496	Derived AJCC M, 6 th edition (2004+) (dajccm1-dajccm10) <i>(d_ajcc_m)</i>	2	SEER	See Attachment A
2498	Derived AJCC Stage Group, 6 th edition (2004+) (dajccstg1- dajccstg10) <i>(d_ajcc_s)</i>	2	SEER	See Attachment A
2500	Derived SS1977 (2004+) (dss77s1-dss77s10) <i>(d_ssg77)</i>	1	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2501	Derived SS2000 (2004+) (dss00s1-dss00s10) (d_ssg00)	1	SEER	See Attachment A
2502	Derived AJCC-Flag (dajcflg1-dajcflg10) (d_ajcc_f)	1	SEER	See Attachment A
2503	CS Version Original (2004+) (csvf1-csvf10) (csv_org)	6	SEER	See Attachment A
2509	CS Version Latest (2004+) (csvl1-csvl10) (csv_der)	6	SEER	See Attachment A
2515	CS Version Input Current (2004+) (cscurrent1- cscurrent10) (csv_cur)	6	SEER	See Attachment A
2521	RX Summ – Surgery of Primary Site (1998+) (sxprif1-sxprif10) (surgprim)	2	SEER	See Attachment A
2523	RX –Summ Scope Reg LN Sur (2003+) (sxscof1-sxscof10) (scope)	1	SEER	See Attachment A
2524	RX Summ--Surg Oth Reg/Dis (2003+) (xsitf1-xsitf10) (surgoth)	1	SEER	See Attachment A
2525	Number of Regional Lymph Nodes Examined (1998-2002) (numnd1-numnd10) (surgnode)	2	SEER	See Attachment A
2527	Reason no cancer- directed surgery (nosrg1-nosrg10) (no_surg)	1	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2528	Site Specific Surgery (1983 – 1997) (ssurg1-ssurg10) (<i>ss_surg</i>)	2	SEER	See Attachment A
2530	Scope of regional lymph node surgery (1998-2002) (sxscop1-sxscop10) (<i>scope02</i>)	1	SEER	See Attachment A
2531	Surgery of other reg/dist sites (1998-2002) (sxsite1-sxsite10) (<i>srgoth02</i>)	1	SEER	See Attachment A
2532	Filler	2		
2534	Type of follow-up expected (typefu1-typefu10) (<i>typefup</i>)	1	SEER	See Attachment A
2535	Age at Diagnosis recode (ager1-ager10) (<i>age_rec</i>)	2	SEER	See Attachment A
2537	Site Recode ICD-O-3/ WHO 2008 (siterwho1- siterwho10) (<i>siterwho</i>)	5	SEER	See Attachment A *This variable is used to select patients for data requests.
2542	Recode ICD-O-2 to 9 (icdot09_1- icdot09_10) (<i>icdot09v</i>)	4	SEER	See Attachment A
2546	Recode ICD-O-2 to 10 (icdot10_1- icdot10_10) (<i>icdot10v</i>)	4	SEER	See Attachment A
2550	ICCC site recode ICD-O-3/WHO 2008 (ICCC3WHO1- ICCC3WHO10) (<i>ICCC3WHO</i>)	3	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2553	ICCC site recode extended ICD-O-3/ WHO 2008 (ICC3XWHO1- ICC3XWHO10) <i>(ICCC3XWHO)</i>	3	SEER	See Attachment A
2556	Behavior Recode for Analysis (behtrend1- behtrend10) <i>(behanal)</i>	1	SEER	See Attachment A
2557	Histology Recode - Broad Groupings (histrec1-histrec10) <i>(histrec)</i>	2	SEER	See Attachment A
2559	Histology Recode – Brain Groupings (hisrcb1-hisrcb10) <i>(brainrec)</i>	2	SEER	See Attachment A
2561	CS Schema – v 0204 (cs04sch1-cs04sch10) <i>(cs0204schema)</i>	3	SEER	See Attachment A
2564	Filler	3		
2567	SEER Historic Stage A (hstst1-hstst10) <i>(hst_stga)</i>	1	SEER	See Attachment A
2568	AJCC Stage 3 rd Edition (1988-2003) (ajccstg1-ajccstg10) <i>(ajcc_stg)</i>	2	SEER	See Attachment A
2570	SEER Modified AJCC Stage 3 rd edition (1988-2003) (aj3sr1-aj3sr10) <i>(aj_3seer)</i>	2	SEER	See Attachment A
2572	SEER Summary Stage 1977 (1995-2000) (sss77v1-sss77v10) <i>(ssg77)</i>	1	SEER	See Attachment A
2573	SEER Summary Stage 2000 (2001-2003) (sssm2Z1-sssm2Z10) <i>(ssg2000)</i>	1	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2574	First Malignant Primary Indicator (frstprm1-frstprm10) <i>(firstprm)</i>	1	SEER	See Attachment A
2575	FIPS State Code (statecd1-statecd10) <i>(stcounty)</i>	2	SEER	See Attachment A
2577	FIPS County Code (cnty1-cnty10) <i>(stcounty)</i>	3	SEER	See Attachment A
2580	IHS Link (ihscd1-ihscd10)	1	SEER	See Attachment A
2581	Summary Stage 2000 (1998+) (summ2k1-summ2k10) <i>(hist_ssg_2000)</i>	1	SEER	See Attachment A
2582	AYA site recode/WHO 2008 (ayawho1-ayawho10) <i>(aya_recode)</i>	2	SEER	See Attachment A
2584	Lymphoma subtype recode/WHO 2008 (lymwho1-lymwho10) <i>(lymphoma_recode)</i>	2	SEER	See Attachment A
2586	SEER cause-specific death classification (vsrtdx1-vsrtdx10) <i>(dth_class)</i>	1	SEER	See Attachment A
2587	SEER other cause of death classification (odthclass1-odthclass10) <i>(o_dth_class)</i>	1	SEER	See Attachment A
2588	CS Tumor Size/Ext Eval (2004+) (csts1-csts10) <i>(cstseval)</i>	1	SEER	See Attachment A
2589	CS Reg Lymph Nodes Eval (2004+) (csrg1-csrg10) <i>(csrgeval)</i>	1	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2590	CS Mets Eval (2004+) (csmt1-csmt10) <i>(csmteval)</i>	1	SEER	See Attachment A
2591	Primary by International Rules (intprim1-intprim10) <i>(intprim)</i>	1	SEER	See Attachment A
2592	ER Status Recode Breast Cancer (1990+) (erstat1-erstat10) <i>(erstatus)</i>	1	SEER	See Attachment A
2593	PR Status Recode Breast Cancer (1990+) (prstat1-prstat10) <i>(prstatus)</i>	1	SEER	See Attachment A
2594	CS Schema AJCC 6 th ed (cssch1-cssch10) <i>(csschema)</i>	2	SEER	See Attachment A
2596	CS Site-Specific Factor 8 (2004+) (cs8st1-cs8st10) <i>(cs_ss8)</i>	3	SEER	See Attachment A
2599	CS Site-Specific Factor 10 (2004+) (cs10st1-cs10st10) <i>(cs_ss10)</i>	3	SEER	See Attachment A
2602	CS Site-Specific Factor 11 (2004+) (cs11st1-cs11st10) <i>(cs_ss11)</i>	3	SEER	See Attachment A
2605	CS Site-Specific Factor 13 (2004+) (cs13st1-cs13st10) <i>(cs_ss13)</i>	3	SEER	See Attachment A
2608	CS Site-Specific Factor 15 (2004+) (cs15st1-cs15st10) <i>(cs_ss15)</i>	3	SEER	See Attachment A
2611	CS Site-Specific Factor 16 (2004+) (cs16st1-cs16st10) <i>(cs_ss16)</i>	3	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2614	Lymph-vascular Invasion (2004+) (vasinv1-vasinv10) (<i>vasinv</i>)	1	SEER	See Attachment A
2615	Survival Months (srvm1-srvm10) (<i>srv_time_mon</i>)	4	SEER	See Attachment A
2619	Survival Months Flag (srvmflag1- srvmflag10) (<i>srv_time_mon_flag</i>)	1	SEER	See Attachment A
2620	Filler	1		
2621	Insurance Recode (2007+) (insrecpb1- insrecpb10) (<i>insrec_pub</i>)	1	SEER	See Attachment A
2622	Derived AJCC T 7 th ed (dajcc7t1-dajcc7t10) (<i>dajcc7t</i>)	3	SEER	See Attachment A
2625	Derived AJCC N 7 th ed (dajcc7n1-dajcc7n10) (<i>dajcc7n</i>)	3	SEER	See Attachment A
2628	Derived AJCC M 7 th ed (dajcc7m1-dajcc7m10) (<i>dajcc7m</i>)	3	SEER	See Attachment A
2631	Derived AJCC 7 Stage Group (dajcc7_01-dajcc7_10) (<i>dajcc7stg</i>)	3	SEER	See Attachment A
2634	Breast Adjusted AJCC 6 th T (1988+) (adjajc6t1-adjajc6t10) (<i>adjtm_6value</i>)	2	SEER	See Attachment A
2636	Breast Adjusted AJCC 6 th N (1988+) (adjajc6n1-adjajc6n10) (<i>adjnm_6value</i>)	2	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2638	Breast Adjusted AJCC 6 th M (1988+) (adjajc6m1- adjajc6m10) (<i>adjm_6value</i>)	2	SEER	See Attachment A
2640	Breast Adjusted AJCC 6 th Stage (1988+) (adjajc6_01- adjajc6_10) (<i>adjajccstg</i>)	2	SEER	See Attachment A
2642	CS Site-Specific Factor 7 (cs7st1-cs7st10) (<i>cs7site</i>)	3	SEER	See Attachment A
2645	CS Site-Specific Factor 9 (cs9st1-cs9st10) (<i>cs9site</i>)	3	SEER	See Attachment A
2648	CS Site-Specific Factor 12 (cs12st1-cs12st10) (<i>cs12site</i>)	3	SEER	See Attachment A
2651	Derived HER2 Recode (2010+) (her2rec1-her2rec10) (<i>her2</i>)	1	SEER	See Attachment A
2652	Breast Subtype (2010+) (brstsub1-brstsub10) (<i>brst_sub</i>)	1	SEER	See Attachment A
2653	Lymphoma – Ann Arbor Stage (1983+) (annarbor1- annarbor10) (<i>annarbor</i>)	1	SEER	See Attachment A
2654	CS Mets at DX-Bone (2010+) (csmetsdx_bpub1- csmetsdx_bpub10) (<i>csmetsdx_bpub</i>)	1	SEER	See Attachment A
2655	CS Mets at DX-Brain (2010+) (csmetsdxbr_bpub1- csmetsdxbr_bpub10) (<i>csmetsdxbr_bpub</i>)	1	SEER	See Attachment A

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2656	CS Mets at DX-Liver (2010+) (csmetsdxliv_pub1- csmetsdxliv_pub10) (<i>csmetsdxliv_pub</i>)	1	SEER	See Attachment A
2657	CS Mets at DX-Lung (2010+) (csmetsdxlung_pub1- csmetsdxlung_pub10) (<i>csmetsdxlung_pub</i>)	1	SEER	See Attachment A
2658	T value-based on AJCC 3 rd (1988-2003) (t_value1-t_value10) (<i>t_value</i>)	2	SEER	See Attachment A
2660	N value-based on AJCC 3 rd (1988-2003) (n_value1-n_value10) (<i>n_value</i>)	2	SEER	See Attachment A
2662	M value-based on AJCC 3 rd (1988-2003) (m_value1-m_value10) (<i>m_value</i>)	2	SEER	See Attachment A
2664	Total number of in situ/malignant tumors (maligcnt1- maligcnt10) (<i>maligcount</i>)	2	SEER	See Attachment A
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.

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2686	Census Tract 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
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

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
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
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

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
				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
2697	Urban Rural Indicator Codes 2010 (URIC 10) (US Only) (ruic10c1-ruic10c10)	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
2699	Rural-Urban Continuum code 1993 (rucd93ss1-rucd93ss10)	2	SEER* Stat	00=Central counties of metro areas of 1 million population or more 01=Fringe counties of metro areas of 1 million population or more

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
				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
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:

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
				Rural-Urban
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

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2719	County at DX geocode 2010 (cnty10dx1-cnty10dx10)	3	SEER	County codes can be found here: SPM_AppendixA.pdf
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.
2724	Derived SS1977 - Flag (dss77f1-dss77f10) (<i>d_ssg77f</i>)	1	SEER	1 = SS1977 derived from Collaborative Staging Manual and Coding Instructions, Version 1.0 2 = SS1977 derived from EOD (prior to 2004)
2725	Derived SS2000 – Flag (dss00f1-dss00f10) (<i>d_ssg00f</i>)	1	SEER	1 = SS2000 derived from Collaborative Staging Manual and Coding Instructions, Version 1.0 2 = SS2000 derived from EOD (prior to 2004)
2726	First course of reconstruction (1998-2002) (recstr1-recstr10) (<i>reconst</i>)	1	SEER	0 = No reconstruction/restoration 1 = Reconstruction, NOS (unknown if flap) 2 = Implant; reconstruction WITHOUT flap 3 = Reconstruction WITH flap, NOS 4 = Latissimus dorsi flap 5 = Abdominus recti flap 6 = Flap, NOS plus implant 7 = Latissimus dorsi flap plus implant 8 = Abdominus recti plus implant 9 = Unknown; not stated; death certificate only
2727	Radiation (rad1-rad10) (<i>radiatn</i>)	1	SEER	0 = None 1 = Beam radiation 2 = Radioactive implants 3 = Radioisotopes 4 = Combination of beams with implants or isotopes 5 = Radiation, NOS method or source not specified 6 = Other radiation (1973-1987 cases only) 7 = Refused 8 = Recommended, unknown if administered 9 = Unknown

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2728	Radiation to Brain and /or CNS (radbrn1-radbrn10) (rad_brn)	1	SEER	0 = None 1 = Radiation 7 = Refused 8 = Recommended, unknown if administered 9 = Unknown
2729	Radiation sequence with surgery (radsurg1-radsurg10) (rad_surg)	1	SEER	0 = No radiation and/or cancer-directed surgery 2 = Radiation prior to surgery 3 = Radiation after surgery 4 = Radiation before and after surgery 5 = Intraoperative radiation 6 = Intraoperative rad with other rad before/ after surgery 7 = Surgery both before and after radiation 9 = Sequence unknown, but both were given
2730	Age-site edit override (ositage1-ositage10) (o_sitage)	1	SEER	1 = Reviewed and confirmed that age/site/histology combination is correct as coded 2 = Reviewed and confirmed that case was diagnosed in utero 3 = Reviewed and confirmed that conditions 1 and 2 apply
2731	Sequence number-dx conf override (oseqcon1-oseqcon10) (o_seqcon)	1	SEER	1 = Reviewed: Multiple primaries of special sites in which at least one diagnosis has not been microscopically confirmed have been reviewed.
2732	Site-type-lat-seq override (oseqlat1-oseqlat10) (o_seqlat)	1	SEER	1 = Reviewed: Multiple primaries of the same histology (3 digit) in the same primary site group have been reviewed.
2733	Surgery-diagnostic conf override (osurcon1-osurcon10) (o_surcon)	1	SEER	1 = Reviewed: A patient who had (cancer directed) surgery, but the tissue removed was not sufficient for microscopic confirmation.
2734	Site-type edit override (osittyp1-osittyp10) (o_sittyp)	1	SEER	1 = Reviewed: The coding of an unusual combination of primary site and histologic type has been reviewed.
2735	Histology edit override (hbenign1-hbenign10) (h_benign)	1	SEER	1 = Unusual Histology behavior combination reviewed. 2 = Unusual Diagnostic Confirmation/Behavior combination reviewed. 3 = Both scenarios above reviewed

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2736	Report source sequence override (orptsrc1-orptsrc10) (o_rptsrc)	1	SEER	1 = Reviewed: A second or subsequent primary with a reporting source of death certificate only has been reviewed and is indeed an independent primary.
2737	Seq-ill-defined site override (odfsite1-odfsite10) (o_dfsite)	1	SEER	1 = Reviewed: A second or subsequent primary reported with an ill-defined primary site (C76.0 C76.8, C80.9) has been reviewed and is an independent primary.
2738	Leuk-Lymph dx confirmation override (oleukdx1-oleukdx10) (o_leukdx)	1	SEER	1 = Reviewed: A patient was diagnosed with leukemia or lymphoma and the diagnosis was not microscopically confirmed.
2739	Site-behavior override (ositbeh1-ositbeh10) (o_sitbeh)	1	SEER	1 = Reviewed: A patient has an in situ cancer of a nonspecific site and no further information about the primary site is available. Note: The IF39 edit does not allow in situ cases of nonspecific sites, such as gastrointestinal tract, NOS; uterus, NOS; female genital tract, NOS; male genital organs, NOS; and others. This over-ride indicates that the conflict has been reviewed.
2740	Site-EOD-dx date override (oeoddt1-oeoddt10) (o_eoddt)	1	SEER	1 = Reviewed: A patient had "localized" disease with a non-specific site and no further information about the primary site is available. Note: The IF40 edit does not allow "localized" disease with non-specific sites, such as mouth, NOS; colon, NOS (except histology 8220); bone, NOS; female genital system, NOS; male genital organs, NOS; and others. This over-ride indicates that the conflict has been reviewed.
2741	Site-laterality-EOD override (ositeod1-ositeod10) (o_siteod)	1	SEER	1 = Reviewed: A patient had laterality coded non-specifically and EOD coded specifically. Note: The IF41 edit for paired organs does not allow EOD to be specified as in situ, localized, or regional by direct extension if laterality is coded as "bilateral, side unknown" or "laterality unknown." This over-ride indicates that the conflict has been reviewed.

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2742	Site-laterality-morph override (ositmor1-ositmor10) (o_sitmor)	1	SEER	1 = Reviewed: A patient had behavior code of "in situ" and laterality is not stated as right: origin of primary; left: origin of primary; or only one side involved, right or left origin not specified. Note: The IF42 edit does not allow behavior code of "in situ" with non-specific laterality codes. This over-ride indicates that the conflict has been reviewed.
2743	Diagnosis Date Flag (ddxflag1-ddxflag10)	2	SEER	12 = Date is unknown Missing = A valid date is provided, or the date was not expected to have been transmitted
2745	Therapy Date Flag (dthflag1-dthflag10)	2	SEER	10 = Unknown if therapy was administered 11 = Therapy was not administered 12 = Therapy was administered, but the date is unknown Missing = A valid date is provided, or was not expected to have been transmitted
2747	Month Therapy Started (monrx1-monrx10) (monthrx)	2	SEER	Month of Therapy 00 = No Therapy 01-12 = Valid month blank = Unknown
2749	Year Therapy Started (yearrx1-yearrx10) (year_rx)	4	SEER	Year of Therapy. If year is blank, refer to Therapy Date Flag (dthflag) for more information.
2753	Other Therapy (other_tx1-other_tx10) (othr_rx)	1	SEER	0 = No other cancer-directed therapy 1 = Other cancer-directed therapy 2 = Other experimental cancer-directed therapy 3 = Double blind study, code not yet broken 6 = Unproven therapy (including Laetrile, Krebiozen, etc) 7 = Refused therapy 1-3 above 8 = Recommended, unknown if administered 9 = Unknown
2754	ICD-O Coding Scheme (icdo1-icdo10) (icdover)	1	SEER	2 = Originally coded in ICD-O-2, (1973-2000) 3 = Originally coded in ICD-O-3, (2001+)

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2755	NAPIIA Derived API Race (napiia1-napiia10) <i>(napiia)</i>	2	SEER	The NAACCR Asian Pacific Islander Identification Algorithm version 1 (NAPIIA v1) uses a combination of NAACCR variables to classify cases directly or indirectly as Asian Pacific Islander for analytic purposes. This version of the algorithm is focused on coding cases with a race code of Asian NOS (race code 96) to a more specific Asian race category, using the birthplace and name fields (first, last, and maiden names). Birthplace can be used to indirectly assign a specific race to one of eight Asian race groups (Chinese, Japanese, Vietnamese, Korean, Asian Indian, Filipino, Thai, and Cambodian). Names can be used to indirectly assign a specific race to one of seven Asian groups (Chinese, Japanese, Vietnamese, Korean, Asian Indian, Filipino, and Hmong). Future versions of NAPIIA will incorporate Pacific Islanders and will potentially incorporate name lists for Thai, Cambodian, and Laotians.

Codes are the same as for Race/Ethnicity.
Blanks in field mean the algorithm was not run.

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2757	Primary Payer at DX (payer_dx1- payer_dx10) (payerdx)	2	SEER	<p>Primary Payer at Diagnosis identifies the patients primary insurance carrier or method of payment at the time of initial diagnosis and/or treatment.</p> <p>01 = Not insured 02 = Not insured, self pay 10 = Insurance, NOS 20 = Private Insurance: Managed care, HMO, or PPO 21 = Private Insurance: Fee-for-Service 31 = Medicaid 35 = Medicaid - Administered through a Managed Care plan 60 = Medicare/Medicare, NOS 61 = Medicare with supplement, NOS 62 = Medicare - Administered through a Managed Care plan 63 = Medicare with private supplement 64 = Medicare with Medicaid eligibility 65 = TRICARE 66 = Military 67 = Veterans Affairs 68 = Indian/Public Health Service 99 = Insurance status unknown</p>
2761	OncoType DX recurrence score (onco_score1- onco_score10) (oncotype_score)	3	SEER	<p>000-100 *Special permission required to receive this variable</p>
2764	OncoType DX risk group (onco_rg1-onco_rg10) (oncotype_rg)	1	SEER	<p>1 = Low 2 = Intermediate 3 = High *Special permission required to receive this variable</p>
2765	OncoType DX reason no score (onco_rns1- onco_rns10) (oncotype_rns)	1	SEER	<p>1 = Cancelled Test – Cancelled by physician or patients before result was returned 2 = Failed Test – Inadequate tissue sample 3 = Outside Analysis Criteria 4 = Non-Unique – Patient had multiple tumors *Special permission required to receive this variable</p>

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<u>COL</u>	<u>FIELD</u>	<u>LENGTH</u>	<u>SOURCE</u>	<u>NOTES</u>
2766	OncoType DX delivered year (onco_year1-onco_year10) (<i>oncotype_year</i>)	4	SEER	2004-2015 *Special permission required to receive this variable
2770	OncoType DX delivered month (onco_month1-onco_month10) (<i>oncotype_month</i>)	2	SEER	01-12 *Special permission required to receive this variable
2772	OncoType DX months since diagnosis (onco_time1-onco_time10) (<i>oncotype_time</i>)	3	SEER	000-996 = Valid months 997 = Unknown 998 = Test before DX Unknown occurs when month of diagnosis is unknown and year of diagnosis is not greater than test year. *Special permission required to receive this variable

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Codes for the variables:

- Cause of Death to site recode KM (codkm)
- Cause of Death to site recode (codpub)

00000 = Alive
20010 = Lip
20020 = Tongue
20030 = Salivary Gland
20040 = Floor of Mouth
20050 = Gum and Other Mouth
20060 = Nasopharynx
20070 = Tonsil
20080 = Oropharynx
20090 = Hypopharynx
20100 = Other Oral Cavity and Pharynx
21010 = Esophagus
21020 = Stomach
21030 = Small Intestine
21040 = Colon excluding Rectum
21050 = Rectum and Rectosigmoid Junction
21060 = Anus, Anal Canal and Anorectum
21071 = Liver
21072 = Intrahepatic Bile Duct
21080 = Gallbladder
21090 = Other Biliary
21100 = Pancreas
21110 = Retroperitoneum
21120 = Peritoneum, Omentum and Mesentery
21130 = Other Digestive Organs
22010 = Nose, Nasal Cavity and Middle Ear
22020 = Larynx
22030 = Lung and Bronchus
22050 = Pleura
22060 = Trachea, Mediastinum and Other Respiratory Organs
23000 = Bones and Joints
24000 = Soft Tissue including Heart
25010 = Melanoma of the Skin
25020 = Other Non-Epithelial Skin
26000 = Breast
27010 = Cervix Uteri
27020 = Corpus Uteri
27030 = Uterus, NOS
27040 = Ovary
27050 = Vagina
27060 = Vulva
27070 = Other Female Genital Organs

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28010 = Prostate
28020 = Testis
28030 = Penis
28040 = Other Male Genital Organs
29010 = Urinary Bladder
29020 = Kidney and Renal Pelvis
29030 = Ureter
29040 = Other Urinary Organs
30000 = Eye and Orbit
31010 = Brain and Other Nervous System
32010 = Thyroid
32020 = Other Endocrine including Thymus
33010 = Hodgkin Lymphoma
33040 = Non-Hodgkin Lymphoma
34000 = Myeloma
35011 = Acute Lymphocytic Leukemia
35012 = Chronic Lymphocytic Leukemia
35013 = Other Lymphocytic Leukemia
35021 = Acute Myeloid Leukemia
35031 = Acute Monocytic Leukemia
35022 = Chronic Myeloid Leukemia
35023 = Other Myeloid/Monocytic Leukemia
35041 = Other Acute Leukemia
35043 = Aleukemic, Subleukemic and NOS
36010 = Mesothelioma (ICD-10 only) (not in CODPUB)
36020 = Kaposi Sarcoma (ICD-10 only) (not in CODPUB)
37000 = Miscellaneous Malignant Cancer
38000 = In situ, benign or unknown behavior neoplasm
50000 = Tuberculosis
50010 = Syphilis
50030 = Septicemia
50040 = Other Infectious and Parasitic Diseases including HIV
50050 = Diabetes Mellitus
50051 = Alzheimers (ICD-9 and 10 only)
50060 = Diseases of Heart
50070 = Hypertension without Heart Disease
50080 = Cerebrovascular Diseases
50090 = Atherosclerosis
50100 = Aortic Aneurysm and Dissection
50110 = Other Diseases of Arteries, Arterioles, Capillaries
50120 = Pneumonia and Influenza
50130 = Chronic Obstructive Pulmonary Disease and Allied Cond
50140 = Stomach and Duodenal Ulcers
50150 = Chronic Liver Disease and Cirrhosis
50160 = Nephritis, Nephrotic Syndrome and Nephrosis
50170 = Complications of Pregnancy, Childbirth, Puerperium

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50180 = Congenital Anomalies
50190 = Certain Conditions Originating in Perinatal Period
50200 = Symptoms, Signs and Ill-Defined Conditions
50210 = Accidents and Adverse Effects
50220 = Suicide and Self-Inflicted Injury
50230 = Homicide and Legal Intervention
50300 = Other Cause of Death
41000 = State DC not available or state DC available but no COD
99999 = Unknown/missing/invalid COD