**Draft Protocol for**

**Standardized Data Exchange**

**Using CaST, Data File Mapper Plus, Link Plus, and NAACCR Combiner**

**to support DP703 required data linkages between**

**National Breast and Cervical Cancer Screening Program (NBCCEDP) and**

**National Program of Cancer Registries (NPCR)**

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Centers for Disease Control and Prevention

National Center for Chronic Disease Prevention and Health Promotion

Division of Cancer Prevention and Control

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# INTRODUCTION

## Background

Effective January 2009, NBCCEDP grantees are required to link breast and cervical cancers cases diagnosed since 2004 with their corresponding Central Cancer Registry, and report to CDC a set of registry standardized data items. The linkage is important to confirm diagnostic outcomes, complete case records, and provide critical information on cancer stage at diagnosis to evaluate screening program outcomes.

Effective January 2010, NPCR grantees are required to collect and report to CDC a “Linkage Status Field” to help monitor the linkages, follow-up on unreported cases, and flag the cases diagnosed through the NBCCEDP to support special analyses of diagnostic and treatment outcomes of this population.

In August 2008, the CDC distributed the Guidance Document on Performing Data Linkages to provide a framework for conducting linkages. NBCCEDP and NPCR grantees were instructed to work cooperatively and develop their own linkage methods within CDC guidelines. Due to the variation in practices across grantees, no specific specifications or restrictions were made on how this should be accomplished, but preliminary planning began to develop a standardized approach and software tools that grantees could optionally use to assist in linkages.

## Standardized Data Exchange

This document describes a proposed standardized data exchange and software tools available to grantees.

## Approach

* Jointly supported by NBCCEDP/NPCR to facilitate CDC linkage requirements of both programs
* Develop optional-use standardized, but configurable, tools for data exchange
* Incorporate within existing CDC supported software (CaST, Link Plus, Data File Mapper Plus);
* Compatible with registry systems and NAACCR format
* Methods could potentially be adopted by non-CaST systems

## Implementation

* Develop specifications and software routines
* Conduct pilot tests with NBCCEDP/NPCR grantees in states using CaST; particularly those with a large volume of cancer cases
* Adjust and expand tools as needed
* Disseminate information and promote use

## Maintenance

* CDC will provide software updates as needed to conform to NAACCR record version changes

# TECHNICAL SPECIFICATIONS

## Data Flow Diagram

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#### NOTE: See *Using Registry Plus Tools to Conduct Linkage with Breast and Cervical Early Detection Program Data* document for detailed instructions on software configuration and use for Steps 2, 4, 5, and 6.

## Data Flow Description

#### Step 1: NBCCEDP Program uses CaST to export cancer cases

* User options to (1) select a date range of cases to export, and (2) export either previously unmatched cases or all cancer cases.
* Standard fixed width NBCCEDP data file is exported from CaST (See Table E1)
* Records include flag field to indicate type of cancer (breast, cervical, colorectal)
* Records include CaST record identifiers
* Standardized file-naming convention for the CaST export file is **registry\_export\_YYYYMMDD.txt** (e.g., registry\_export\_20111220.txt),dated the day of the export of the file from CaST)

#### Step 2: Central Cancer Registry (CCR) uses standard mapping configuration in Data File Mapper Plus (DF Mapper Plus) to convert the standard CaST export file to NAACCR format and codes

* Central cancer registry uses standard DF Mapper Plus mapping configuration to convert the standard CaST export file (registry\_export\_YYYYMMDD.txt ) to the NAACCR file format and codes, in order to properly link with central cancer registry data in NAACCR registry format (see Table E2 for data fields and positions))
	+ Modifiable, **standard NBCCEDP file mapping configuration** that was generated specifically for the mapping of CaST export files to the NAACCR file format and codes included in DF Mapper Plus, named **BCCEDP** **CaST export file to NAACCR v12.x** (xequals the version of NAACCR v12 that is currently in use in the CCR, see Tables E3-E8 for conversion specifications used in standardized mapping configuration)
	+ Maps fields that are common to both files (e.g., Last Name) to standard positions in the NAACCR layout and maps CaST-specific fields that need to be returned to the NBCCEDP (e.g. Patient\_Id, Cycle Id, cancer type) to specified positions in the State/Requestor area of the NAACCR layout
		- Any state-specific BCCEDP fields (outside of CaST) will need to be included in the State/Requestor area of the NAACCR layout, positioned after the standard CaST-specific fields that need to be returned to the BCCEDP
	+ Standardized file-naming convention for the converted file is **converted\_registry\_export\_YYYYMMDD.txt** (e.g., converted\_registry\_export\_20111220.txt dated the same date as the exported data file rom CaST)

#### Step 3: Central Cancer Registry generates extract of CCR data for linkage with mapped NBCCEDP data file

* Central cancer registry generates extract file in NAACCR file format from their central cancer registry database; this is the file that will be linked with the mapped BCCEDP data file from Data File Mapper Plus (See Table E9). The suggested standard file-naming convention for the CCR extract file is **CCR\_data\_YYYYMMDD.txt**
* Considerations:
	+ What primary sites include in linkage file, e.g., all females cases or breast and cervical cases only
	+ What diagnosis years to include in linkage file
	+ Include cases not previously matched and previously matched cases with incomplete registry data

#### Step 4: Central Cancer Registry conducts linkage and manual review of true and uncertain matches using Link Plus

* Central cancer registry conducts linkage using Link Plus
	+ Special BCCEDP NAACCR record layout, **BCCEDP\_NAACCR12DEFAULT.txt**, is included in Link Plus that has CaST-specific fields that need to be returned to the BCCEDP specified in the State/Requestor area
		- Record layout is modifiable to accommodate BCCEDP state-specific fields
	+ Standard BCCEDP/cancer registry linkage configuration, **CCR\_BCCEDP\_Link.cfg,** is included in Link Plus to be used by the central cancer registry to conduct the linkage
		- Linkage configuration is modifiable to accommodate NBCCEDP state-specific fields
	+ Central cancer registry conducts linkage between the 2 NAACCR-formatted files using BCCEDP/cancer registry linkage configuration
	+ Central cancer registry conducts manual review, and assigns match statuses to all comparison pairs

#### Step 5: Central cancer registry exports linkage results from Link Plus

* Central registry exports the linkage results for their BCCEDP program, exporting cancer registry data in standard NAACCR fields and exporting CaST-specific fields (e.g., Patient\_Id) that need to be returned to the NBCCEDP in the State/Requestor Area
	+ CCR exports true matches in NBCCEDP NAACCR file format (See Table E10); standardized file-naming convention for the file of true matches is BCCEDP\_Matches\_YYYYMMDD.txt (e.g., BCCEDP\_Matches\_20111220.txt)
	+ CCR exports all non-matches in NBCCEDP NAACCR file format (See Table E10, cancer registry fields obtained via the data linkage will be blank); ; standardized file-naming convention for the file of non-matches is BCCEDP\_Non\_Matches\_YYYYMMDD.txt (e.g., BCCEDP\_Non\_Matches\_20111220.txt)
		- Non-match file will be appended to true match file and returned to the BCCEDP
		- CCR can perform follow-up on tumors included in the non-match file to obtain unreported tumors (optional)

#### Step 6: Central cancer registry combines 2 export files into a single file for return to the BCCEDP

* CCR combines true and false match export files into a single data file using NAACCR Combiner program

#### Step 7: CaST imports NBCCEDP NAACCR-formatted file

* CaST import process will compare incoming central registry data with associated existing CaST data and allow for review of differences on same fields (e.g., Date of Birth)
* CaST import process will evaluate NAACCR data items of Derived Summary Stage 2000 [3020], SEER Summary Stage 2000 [759], and SEER Summary Stage 1977 [760] and will fill the Registry Summary Stage field in CaST based on the Registry Date of Diagnosis
* CaST import process will evaluate NAACCR data items of Date of Initial RX—SEER [1260], Date of 1st Crs RX---CoC [1270], and RX Summ--Treatment Status [1285] and will fill Date of Treatment (or no treatment) field in CaST depending on what the central registry captures.
* CaST import process will fill the CaST fields of Linkage Status and Linkage Status Date upon import

**TABLE E1. CaST Export File Layout**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Description** | **Length** | **Start**  | **End**  | **Format** |
| Patient ID | Unique patient identifier (CaST field to be returned)  | 15 | 1 | 15 | 000000000000000 |
| Cancer Type | Cancer Type; 'BR' = breast, 'CV' = cervical, 'CR' = Colorectal (CaST field to be returned)  | 2 | 16 | 17 | "BR", "CV" or "CR" |
| Cycle | Cycle number (CaST field to be returned)  | 8 | 18 | 25 | up to 8 numeric digits |
| Last Name | Patient last name | 20 | 26 | 45 | free text |
| First Name | Patient first name | 15 | 46 | 60 | free text |
| Middle Name | Patient middle name | 15 | 61 | 75 | free text |
| Maiden Name | Patient maiden name | 20 | 76 | 95 | free text |
| SSN | Patient social security number | 11 | 96 | 106 | 000-00-0000 |
| Date of Birth | Patient date of birth | 10 | 107 | 116 | mm/dd/yyyy |
| Race1 | Patient race 1 | 2 | 117 | 118 | CaST value; see race formats |
| Race2 | Patient race 2 | 2 | 119 | 120 | CaST value; see race formats |
| Race3 | Patient race 3 | 2 | 121 | 122 | CaST value; see race formats |
| Race4 | Patient race 4 | 2 | 123 | 124 | CaST value; see race formats |
| Race5 | Patient race 5 | 2 | 125 | 126 | CaST value; see race formats |
| Hispanic Origin | Patient Hispanic origin | 1 | 127 | 127 | CaST value; see Hispanic formats |
| Gender | Patient gender | 1 | 128 | 128 | CaST value = "2" for all breast and cervical records; see gender formats |
| Address (Street) | Patient street address | 45 | 129 | 173 | free text |
| Address (City) | City in which the patient resides | 20 | 174 | 193 | free text |
| Address (County) | County in which the patient resides | 3 | 194 | 196 | 3 digit FIPS Code |
| Address (State) | State in which the patient resides | 2 | 197 | 198 | 2 letter state abbreviation |
| Address (Zip) | Zip code in which the patient resides | 10 | 199 | 208 | 00000 or 00000-0000 |
| Final Dx | Final diagnosis of breast or cervical services provided | 1 | 209 | 209 | CaST value; see final\_dx formats  |
| Date of Final Dx | Date the final diagnosis was made | 10 | 210 | 219 | mm/dd/yyyy |
| Date of Treatment | Date treatment was initiated | 10 | 220 | 229 | mm/dd/yyyy |
| Provider Name | Name of the primary provider site where services were provided | 50 | 230 | 279 | free text |
| Provider Contact Person | Contact person at the site | 50 | 280 | 329 | free text |
| Provider Address (Street) | Street address of the site | 80 | 330 | 409 | free text |
| Provider Address (City) | City in which the site is located | 25 | 410 | 434 | free text |
| Provider Address (County) | County in which the site is located | 3 | 435 | 437 | 3 digit FIPS Code |
| Provider Address (State) | State in which the site is located | 2 | 438 | 439 | 2 letter state abbreviation |
| Provider Address (Zip) | Zip code in which the site is located | 10 | 440 | 449 | 00000 or 00000-0000 |
| Provider Phone Number | Phone number of the site | 20 | 450 | 469 | free text or (000)000-0000 |
| Provider Email Address | Email address for the site | 50 | 470 | 519 | free text |

**TABLE E2.** **CaST Export to NAACCR (V12.0 or v12.1) Conversion -- Data Mapping Guide**

For conversion criteria, see Table1 above and Appendix C of Guidance Document

| **CaST** | **CaST length** | **NAACCR Item No** | **NAACCR Name** | **NAACCR****Length** | **NAACCR Position (v12)** |
| --- | --- | --- | --- | --- | --- |
| Patient Id | 15 | 9500 | n/a – CaST id | 15 | 2340-2354 |
| Cancer Type | 2 | 400, 9501 | Primary Siten/a – CaST id | 4  | 540-5432355-2356 |
| Cycle | 8 | 9502 | n/a – CaST id | 8 | 2357-2364 |
| n/a | n/a | 50 | NAACCR Record Version | 3 | 17-19 |
| Last Name | 20 | 2230 | Name—Last | 40 | 3340-3379 |
| First Name | 15 | 2240 | Name—First | 40 | 3380-3419 |
| Middle Name | 15 | 2250 | Name—Middle | 40 | 3420-3459 |
| Maiden Name | 20 | 2390 | Name—Maiden | 40 | 3506-3545 |
| SSN | 11 | 2320 | Social Security Nbr | 9 | 3619-3627 |
| Date of Birth | 10 | 240 | Date of Birth | 8 | 196-203 |
| Race 1 | 2 | 160 | Race1 | 2 | 177-178 |
| Race 2 | 2 | 161 | Race2 | 2 | 179-180 |
| Race 3 | 2 | 162 | Race3 | 2 | 181-182 |
| Race 4 | 2 | 163 | Race4 | 2 | 183-184 |
| Race 5 | 2 | 164 | Race5 | 2 | 185-186 |
| Hispanic Origin | 1 | 190 | Spanish/Hispanic Origin | 1 | 189-189 |
| Gender | 1 | 220 | Sex | 1 | 192-192 |
| Address (Street) | 45 | 2330 | Addr at DX—No & Street | 60 | 3628-3687 |
| Address (City) | 20 | 70 | Addr at DX—City | 50 | 95-144 |
| Address (County)  | 3 | 90 | County at DX | 3 | 156-158 |
| Address (State) | 2 | 80 | Addr at DX—State | 2 | 145-146 |
| Address (Zip) | 10 | 100 | Addr at DX—Postal code | 9 | 147-155 |
| Final Dx | 1 | 522523 | Histologic Type ICD-O-3Behavior code ICD-O-3 | 41 | 550-553554-554 |
| Date of Final Dx | 10 | 390 | Date of Diagnosis | 8 | 530-537 |
| Date of Treatment | 10 | 12601270 | Date of Initial RX—SEERDate of 1st Crs RX--CoC | 88 | 1436-14431446-1453 |
| Provider Name | 50 | 9503 | n/a | 50 | 2365-2414 |
| Provider Contact Person | 50 | 9504 | n/a | 50 | 2415-2464 |
| Provider Address (Street) | 80 | 9505  | n/a | 80 | 2465-2544 |
| Provider Address (City) | 25 | 9506  | n/a | 25 | 2545-2569 |
| Provider Address (County) | 3 | 9507  | n/a | 3 | 2570-2572 |
| Provider Address (State) | 2 | 9508 | n/a | 2 | 2573-2574 |
| Provider Address (Zip) | 10 | 9509  | n/a | 10 | 2575-2584 |
| Provider Phone Number | 20 | 9510  | n/a | 20 | 2585-2604 |
| Provider Email Address | 50 | 9511 | n/a | 50 | 2605-2654 |

**TABLE E3.** **Race Formats and Conversation Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CaST**  |  | **NAACCR**  |  | **Conversion**  |
| **Code** | **Label** |  | **Code** | **Label** |  | **CaST** | **NAACCR**  |
| 1 | White |  | 01 | White |  | 1 | 01 |
| 2 | Black or African American |  | 02 | Black |  | 2 | 02 |
| 3 | Asian |  | 03 | Aleutian, Eskimo, American Indian |  | 3 | 96 |
| 4 | Native Hawaiian or Other Pacific Islander |  | 04 | Chinese |  | 4 | 97 |
| 5 | American Indian or Alaska Native |  | 05 | Japanese |  | 5 | 03 |
| 7 | Unknown |  | 06 | Filipino |  | 7 | 99 |
| 8 | Asian/Pacific Islander (MDE v4.1 only) |  | 07 | Hawaiian |  | 8 | 98 |
|  |  |  | 08 | Lorean |  |  |  |
|  |  |  | 09 | Asian Indian, Pakistani |  |  |  |
|  |  |  | 10 | Vietnamese |  |  |  |
|  |  |  | 11 | Laotian |  |  |  |
|  |  |  | 12 | Hmong |  |  |  |
|  |  |  | 13 | Kampuchean |  |  |  |
|  |  |  | 14 | Thai |  |  |  |
|  |  |  | 20 | Micronesian, NOS |  |  |  |
|  |  |  | 21 | Chamorran |  |  |  |
|  |  |  | 22 | Guamanian, NOS |  |  |  |
|  |  |  | 25 | Polynesian, NOS |  |  |  |
|  |  |  | 26 | Tahitian |  |  |  |
|  |  |  | 27 | Samoan |  |  |  |
|  |  |  | 28 | Tongan |  |  |  |
|  |  |  | 30 | Melanesian, NOS |  |  |  |
|  |  |  | 31 | Fiji Islander |  |  |  |
|  |  |  | 32 | New Guinean |  |  |  |
|  |  |  | 96 | Other Asian, Incl. Asian, NOS and Oriental, NOS |  |  |  |
|  |  |  | 97 | Pacific Islander, NOS |  |  |  |
|  |  |  | 98 | Other |  |  |  |
|  |  |  | 99 | Unknown |  |  |  |

**TABLE E4.** **Hispanic Origin Formats and Conversion Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CaST** |  | **NAACCR**  |  | **Conversion**  |
| **Code** | **Label** |  | **Code** | **Label** |  | **CaST**  | **NAACCR**  |
| 1 | Yes, Hispanic |  | 0 | Non-Spanish; non-Hispanic |  | 1 | 6 |
| 2 | No, Not Hispanic |  | 1 | Mexican (includes Chicano) |  | 2 | 0 |
| 3 | Unknown |  | 2 | Puerto Rican |  | 3 | 9 |
|  |  |  | 3 | Cuban |  |   |   |
|  |  |  | 4 | South or Central American (except Brazil) |  |   |   |
|  |  |  | 5 | Other specified Spanish/Hispanic origin (includes European; excludes Dominican Republic) |  |   |   |
|  |  |  | 6 | Spanish, NOS; Hispanic, NOS; Latino, NOS |  |   |   |
|  |  |  | 7 | Spanish surname only |  |  |  |
|  |  |  | 8 | Dominican Republic |  |  |  |
|  |  |  | 9 | Unknown whether Spanish or not |  |  |  |

**TABLE E5.** **Gender Formats and Conversion Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CaST**  |  | **NAACCR**  |  | **Conversion**  |
| **Code** | **Label** |  | **Code** | **Label** |  | **CaST** | **NAACCR** |
| 1 | Male |  | 1 | Male |  | 1 | 1 |
| 2 | Female |  | 2 | Female |  | 2 | 2 |
| 9 | Other / Unknown |  | 3 | Other / Hermaphrodite |  | 9 | 9 |
|  |  |  | 4 | Transsexual |  |  |  |
|  |  |  | 9 | Not Stated / Unknown |  |  |  |

## Final Diagnosis Formats

|  |  |  |  |
| --- | --- | --- | --- |
|  | **TABLE E6. CaST Breast Cancer Final Diagnosis** |   | **NAACCR Item Conversion** |
| **Code** | **Label** |  | **Histology ICDO3** | **Behavior ICDO3** | **Primary Site** |
| 1 | Carcinoma In Situ, Other (Should not be used after 10/01/1999) |  | 8010 | 2 | C509 |
| 2 | Invasive Breast Cancer |  | 8000 | 3 | C509 |
| 3 | Breast Cancer not diagnosed |  | Blank | Blank | Blank |
| 4 | Lobular Carcinoma In Situ (LCIS) - Stage 0 |  | 8520 | 2 | C509 |
| 5 | Ductal Carcinoma In Situ (DCIS) - Stage 0 |  | 8500 | 2 | C509 |
|  |  |  |  |
|   | **TABLE E7. CaST Cervical Cancer Final Diagnosis** |  | **NAACCR Item Conversion** |
| **Code** | **Label** |  | **Histology ICDO3** | **Behavior ICDO3** | **Primary Site** |
| 1 | Normal/Benign reaction/inflammation |  | Blank | Blank | Blank |
| 2 | HPV/Condylomata/Atypia |  | Blank | Blank | Blank |
| 3 | CINI/Mild dysplasia (biopsy diagnosis) |  | Blank | Blank | Blank |
| 4 | CINII/Moderate dysplasia (biopsy diagnosis) |  | Blank | Blank | Blank |
| 5 | CINIII/Severe dysplasia/CIS (Stage 0) or Adenocarcinoma In Situ of the cervix (AIS) (biopsy diagnosis) |   | 8077 | 2 | C539 |
| 6 | Invasive Cervical Carcinoma (biopsy diagnosis) |  | 8000 | 3 | C539 |
| 7 | Other |  | Blank | Blank | Blank |
| 8 | Low Grade SIL (biopsy diagnosis) |  | Blank | Blank | Blank |
| 9 | High Grade SIL (biopsy diagnosis) |  | Blank | Blank | Blank |

**TABLE E8. CaST Colorectal Cancer Final Diagnosis** **NAACCR Item Conversion**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Code** | **Label** |  | **Histology ICDO3** | **Behavior ICDO3** | **Primary Site** |
| 1 | Normal/Negative |  | Blank | Blank | Blank |
| 2 | Hyperplastic polyps |  | Blank | Blank | Blank |
| 3 | Adenomatous polyps, no high-grade dysplasia |  | Blank | Blank | Blank |
| 4 | Adenomatous polyp with high-grade dysplasia |  | Blank | Blank | Blank |
| 5 | Cancer  |   | 8140 | 3 | C189 |

**TABLE E9. Minimum Data Items to be Included in Central Cancer Registry Extract File**

**(Formatted in NAACCR record version 12.0 or 12.1)**

|  |  |  |  |
| --- | --- | --- | --- |
| **NAACCR Item No** | **Field** | **Length** | **NAACCR Layout v12.0 or 12.1** |
| 50 | NAACCR Record Version | 3 | 17-19 |
| 2230 | Last Name | 40 | 3340-3379 |
| 2240 | First Name | 40 | 3380-3419 |
| 2250 | Middle Name | 40 | 3420-3459 |
| 2390 | Maiden Name | 40 | 3506-3545 |
| 2320 | SSN | 9 | 3619-3627 |
| 240 | Date of Birth | 8 | 196-203 |
| 160 | Race1 | 2 | 177-178 |
| 161 | Race2 | 2 | 179-180 |
| 190 | Hispanic Origin | 1 | 189-189 |
| 220 | Sex | 1 | 192-192 |
| 2330 | Address (Street) | 60 | 3628-3687 |
| 70 | Address (City) | 50 | 95-144 |
| 80 | Address (State) | 2 | 145-146 |
| 100 | Address (Zip) | 9 | 147-155 |
| 90 | Address (County) | 3 | 156-158 |
| 390 | Date of Diagnosis | 8 | 530-537 |
| 522 | Histologic Type ICD-O-3 | 4 | 550-553 |
| 523 | Behavior Code | 1 | 554-554 |
| 759 | SEER Summary Stage 2000 | 1 | 904-904 |
| 760 | SEER Summary Stage 1977 | 1 | 905-905 |
| 3020 | Derived Summary Stage 2000 | 1 | 1156-1156 |
| 3000 | Derived AJCC-6 Stage Group | 2 | 1112-1113 |
| 3430 | Derived AJCC-7 Stage Group | 3 | 1126-1128 |
| 2800 | CS Tumor Size | 3 | 985-987 |
| 2810 | CS Extension | 3 | 988-990 |
| 2830 | CS Lymph Nodes | 3 | 992-994 |
| 2850 | CS Mets at Dx | 2 | 996-997 |
| 400 | Primary Site | 4 | 540-543 |
| 1260 | Date of Initial RX--SEER | 8 | 1436-1443 |
| 1270 | Date of Initial RX--CoC | 8 | 1446-1453 |
| 1285 | RX Summ--Treatment Status | 1 | 1566-1566 |

**TABLE E10. Data Items to be Exported from Link Plus After Linkage and Manual Review**

**(Formatted in NAACCR Record Version 12.x)**

| **NAACCR Item No** | **Field** | **Length** | **NAACCR Layout v12** | **Data set from which to export field** | **CaST import uses field for:** |
| --- | --- | --- | --- | --- | --- |
| 9500 | BCCEDP Patient Id | 15 | 2340-2354 | BCCEDP | ID field |
| 9502 | BCCEDP Cycle  | 8 | 2357-2364 | BCCEDP | ID field |
| 9501 | BCCEDP Cancer Type  | 2 | 2355-2356 | BCCEDP | ID field |
| 50 | NAACCR Record Version | 3 | 17-19 | CCR | Version control ID  |
| 2230 | Last Name | 40 | 3340-3379 | CCR | Manual review |
| 2240 | First Name | 40 | 3380-3419 | CCR | Manual review |
| 2250 | Middle Name | 40 | 3420-3459 | CCR | Manual review |
| 2390 | Maiden Name | 40 | 3506-3545 | CCR | Manual review |
| 2320 | SSN | 9 | 3619-3627 | CCR | Manual review |
| 240 | Date of Birth | 8 | 196-203 | CCR | Manual review |
| 160 | Race1 | 2 | 177-178 | CCR | Manual review |
| 161 | Race2 | 2 | 179-180 | CCR | Manual review |
| 190 | Hispanic Origin | 1 | 189-189 | CCR | Manual review |
| 220 | Sex | 1 | 192-192 | CCR | Manual review |
| 2330 | Address (Street) | 60 | 3628-3687 | CCR | Manual review |
| 70 | Address (City) | 50 | 95-144 | CCR | Manual review |
| 80 | Address (State) | 2 | 145-146 | CCR | Manual review |
| 100 | Address (Zip) | 9 | 147-155 | CCR | Manual review |
| 90 | Address (County) | 3 | 156-158 | CCR | Manual review |
| 390 | Date of Diagnosis | 8 | 530-537 | CCR | Update 14.02, 15.02 |
| 522 | Histologic Type ICD-0-3 | 4 | 550-553 | CCR | Update 14.03, 15.03 |
| 523 | Behavior Code | 1 | 554-554 | CCR | Update 14.04, 15.04 |
| 759 | SEER Summary Stage 2000 | 1 | 904-904 | CCR | Update 14.05, 15.05 DateDx=2001-2003 |
| 760 | SEER Summary Stage 1977 | 1 | 905-905 | CCR | Update 14.05, 15.05 DateDx<2001  |
| 3020 | Derived Summary Stage 2000 | 1 | 1156-1156 | CCR | Update 14.05, 15.05 DateDx=2004+ |
| 3000 | Derived AJCC-6 Stage Group | 2 | 1112-1113 | CCR | Update 14.06, 15.06 DateDx=2004+ |
| 3430 | Derived AJCC-7 Stage Group | 3 | 1126-1128 | CCR | Update 14.06, 15.06; DateDX = 2010+ (use first 2 digits) |
| 2800 | CS Tumor Size | 3 | 985-987 | CCR | Update 14.07, 15.07 DateDx=2004+ |
| 2810 | CS Extension | 3 | 988-990 | CCR | Update 14.08, 15.08 DateDx=2004+ |
| 2830 | CS Lymph Nodes | 3 | 992-994 | CCR | Update 14.09, 15.09 DateDx=2004+ |
| 2850 | CS Mets at Dx | 2 | 996-997 | CCR | Update 14.10, 15.10 DateDx=2004+ |
| 400 | Primary Site | 4 | 540-543 | CCR | Update 14.11, 15.11 |
| 1260 | Date of Initial RX--SEER | 8 | 1436-1443 | CCR | Manual update only |
| 1270 | Date of Initial RX--CoC | 8 | 1446-1453 | CCR | Manual update only |
| 1285 | RX Summ--Treatment Status | 1 | 1566-1566 | CCR | Manual update only |