

# Cancer



## PROGRAMS

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AMERICAN COLLEGE OF SURGEONS



**Quick Start Guide to PUF Data Structure**  
**2022 National Cancer Database Participant User File**  
**(NCDB PUF)**

The data included in the zipped file provided in the PUF download, are provided in a flat text file format, and should be read with software such as SAS, SPSS (PASW), STATA, or any other statistical software of your choosing. Also included in the zipped files is a script that will allow you to read the data in SAS (NCDB\_PUF\_SAS\_Labels\_2022.sas). You must have SAS software installed on your computer to be able to use this file. This script includes 1) input statements that will read the provided flat text input file and assign variable names 2) variable labels and 3) format statements. If you are using other software, such as STATA, you can use the file layout below to read in the PUF data.

The table appearing on the following pages provides a list of each of the item made available in PUF. In addition, “standard” or “analytic” variable names are provided, the diagnosis years for which individual items are available, and finally the item length and column location of each item is specified. The item and variable names in this table are the same as those documented in the online 2022 PUF Data Dictionary. The data dictionary includes the item names, descriptions and value definitions of the variables included in your PUF file. Please refer to this data dictionary before beginning your analysis to ensure your familiarity with the provided data. Note that the items included, and diagnosis year availability are only applicable to the 2022 PUF, which includes cases diagnosed in 2004-2022.

Please note per the Data Use Agreement that any abstracts or publications using these data should include the following acknowledgement in all presentations/publications:

“The data used in the study are derived from a de-identified NCDB file. The American College of Surgeons and the Commission on Cancer have not verified and are not responsible for the analytic or statistical methodology employed, or the conclusions drawn from these data by the investigator.”

The abstracts and publications also need to indicate:

“The NCDB is a joint project of the Commission on Cancer of the American College of Surgeons and the American Cancer Society.”

If you have any questions regarding these files, e-mail your questions to [NCDB\\_PUF@facs.org](mailto:NCDB_PUF@facs.org).

| NCDB 2022 PUF Item List |  | Adult Only/All* | PUF Item Name           | Diagnosis Years Available** | File Layout |       |     |
|-------------------------|--|-----------------|-------------------------|-----------------------------|-------------|-------|-----|
|                         |  |                 |                         |                             | Characters  | Start | End |
| Case Key                | Case Key                                       | All             | PUF_CASE_ID             | All                         | 37          | 1     | 37  |
| Facility                | Facility Key                                   | All             | PUF_FACILITY_ID         | All                         | 10          | 38    | 47  |
|                         | Facility Type                                  | Adult*          | FACILITY_TYPE_CD        | All                         | 1           | 48    | 48  |
|                         | Facility Location                              | Adult*          | FACILITY_LOCATION_CD    | All                         | 1           | 49    | 49  |
| Patient Demographics    | Patient Age at Diagnosis                       | All             | AGE                     | All                         | 3           | 50    | 52  |
|                         | Sex  | All             | SEX                     | All                         | 1           | 53    | 53  |
|                         | Race   | All             | RACE                    | All                         | 2           | 54    | 55  |
|                         | Spanish Hispanic Origin                        | All             | SPANISH_HISPANIC_ORIGIN | All                         | 1           | 56    | 56  |
|                         | Primary Payor at Diagnosis                     | All             | INSURANCE_STATUS        | All                         | 2           | 57    | 58  |
|                         | Income 2000                                    | All             | MED_INC_QUAR_00         | All                         | 1           | 59    | 59  |
|                         | Education 2000                                 | All             | NO_HSD_QUAR_00          | All                         | 1           | 60    | 60  |
|                         | Urban/Rural 2003                               | All             | UR_CD_03                | All                         | 1           | 61    | 61  |
|                         | Income 2008-2012                               | All             | MED_INC_QUAR_12         | All                         | 1           | 62    | 62  |
|                         | Education 2008-2012                            | All             | NO_HSD_QUAR_12          | All                         | 1           | 63    | 63  |
|                         | Urban/Rural 2013                               | All             | UR_CD_13                | All                         | 1           | 64    | 64  |
|                         | Great Circle Distance                          | All             | CROWFLY                 | All                         | 8           | 65    | 72  |
|                         | Charlson-Deyo Score                            | All             | CDCC_TOTAL_BEST         | All                         | 2           | 73    | 74  |
| Cancer Identification   | Sequence Number                                | All             | SEQUENCE_NUMBER         | All                         | 2           | 75    | 76  |
|                         | Class of Case                                  | All             | CLASS_OF_CASE           | All                         | 2           | 77    | 78  |
|                         | Year of Diagnosis                              | All             | YEAR_OF_DIAGNOSIS       | All                         | 4           | 79    | 82  |
|                         | Primary Site                                   | All             | PRIMARY_SITE            | All                         | 4           | 83    | 86  |
|                         | Laterality                                     | All             | LATERALITY              | All                         | 1           | 87    | 87  |
|                         | Histology                                      | All             | HISTOLOGY               | All                         | 4           | 88    | 91  |
|                         | Behavior                                       | All             | BEHAVIOR                | All                         | 1           | 92    | 92  |
|                         | Grade  | All             | GRADE                   | 2004-2017                   | 1           | 93    | 93  |
|                         | Diagnostic Confirmation                        | All             | DIAGNOSTIC_CONFIRMATION | All                         | 1           | 94    | 94  |
|                         | Size of Tumor                                  | All             | TUMOR_SIZE              | 2004-2015                   | 3           | 95    | 97  |
|                         | Regional Lymph Nodes Positive                  | All             | REGIONAL_NODES_POSITIVE | All                         | 2           | 98    | 99  |
|                         | Regional Lymph Nodes Examined                  | All             | REGIONAL_NODES_EXAMINED | All                         | 2           | 100   | 101 |
| Stage of Disease        | Diagnostic and Staging Procedure, Days from Dx | All             | DX_STAGING_PROC_DAYS    | All                         | 8           | 102   | 109 |
|                         | Diagnostic and Staging Procedure               | All             | RX_SUMM_DXSTG_PROC      | All                         | 2           | 110   | 111 |
|                         | AJCC Clinical T                                | All             | TNM_CLIN_T              | 2004-2017                   | 5           | 112   | 116 |
|                         | AJCC Clinical N                                | All             | TNM_CLIN_N              | 2004-2017                   | 5           | 117   | 121 |
|                         | AJCC Clinical M                                | All             | TNM_CLIN_M              | 2004-2017                   | 5           | 122   | 126 |
|                         | AJCC Clinical Stage Group                      | All             | TNM_CLIN_STAGE_GROUP    | 2004-2017                   | 4           | 127   | 130 |
|                         | AJCC Pathologic T                              | All             | TNM_PATH_T              | 2004-2017                   | 5           | 131   | 135 |
|                         | AJCC Pathologic N                              | All             | TNM_PATH_N              | 2004-2017                   | 5           | 136   | 140 |
|                         | AJCC Pathologic M                              | All             | TNM_PATH_M              | 2004-2017                   | 5           | 141   | 145 |
|                         | AJCC Pathologic Stage Group                    | All             | TNM_PATH_STAGE_GROUP    | 2004-2017                   | 4           | 146   | 149 |
|                         | TNM Edition Number                             | All             | TNM_EDITION_NUMBER      | All                         | 2           | 150   | 151 |
|                         | NCDB Analytic Stage Group                      | All             | ANALYTIC_STAGE_GROUP    | All                         | 1           | 152   | 152 |

| NCDB 2022 PUF Item List    | Adult Only/All*                             | PUF Item Name             | Diagnosis Years Available** | File Layout |       |     |
|----------------------------|---|---------------------------|-----------------------------|-------------|-------|-----|
|                            |   |                           |                             | Characters  | Start | End |
| CS Mets at DX              | All   | CS_METS_AT_DX             | 2004-2015                   | 2           | 153   | 154 |
|                            | All   | CS_METS_EVAL              | 2004-2015                   | 1           | 155   | 155 |
|                            | All   | CS_EXTENSION              | 2004-2015                   | 3           | 156   | 158 |
| CS Tumor Size/Ext Eval     | All   | CS_TUMOR_SIZEEXT_EVAL     | 2004-2015                   | 1           | 159   | 159 |
|                            | All   | CS_METS_DX_BONE           | 2010-2015                   | 1           | 160   | 160 |
| CS Mets at Dx-Brain        | All   | CS_METS_DX BRAIN          | 2010-2015                   | 1           | 161   | 161 |
| CS Mets at Dx-Liver        | All   | CS_METS_DX_LIVER          | 2010-2015                   | 1           | 162   | 162 |
| CS Mets at Dx-Lung         | All   | CS_METS_DX_LUNG           | 2010-2015                   | 1           | 163   | 163 |
| Lymph Vascular Invasion    | All   | LYMPH_VASCULAR_INVASION   | 2010+                       | 1           | 164   | 164 |
| CS Site Specific Factor 1  | All   | CS_SITESPECIFIC_FACTOR_1  | ***                         | 3           | 165   | 167 |
| CS Site Specific Factor 2  | All   | CS_SITESPECIFIC_FACTOR_2  | ***                         | 3           | 168   | 170 |
| CS Site Specific Factor 3  | All   | CS_SITESPECIFIC_FACTOR_3  | ***                         | 3           | 171   | 173 |
| CS Site Specific Factor 4  | All   | CS_SITESPECIFIC_FACTOR_4  | ***                         | 3           | 174   | 176 |
| CS Site Specific Factor 5  | All   | CS_SITESPECIFIC_FACTOR_5  | ***                         | 3           | 177   | 179 |
| CS Site Specific Factor 6  | All   | CS_SITESPECIFIC_FACTOR_6  | ***                         | 3           | 180   | 182 |
| CS Site Specific Factor 7  | All   | CS_SITESPECIFIC_FACTOR_7  | ***                         | 3           | 183   | 185 |
| CS Site Specific Factor 8  | All   | CS_SITESPECIFIC_FACTOR_8  | ***                         | 3           | 186   | 188 |
| CS Site Specific Factor 9  | All   | CS_SITESPECIFIC_FACTOR_9  | ***                         | 3           | 189   | 191 |
| CS Site Specific Factor 10 | All   | CS_SITESPECIFIC_FACTOR_10 | ***                         | 3           | 192   | 194 |
| CS Site Specific Factor 11 | All   | CS_SITESPECIFIC_FACTOR_11 | ***                         | 3           | 195   | 197 |
| CS Site Specific Factor 12 | All   | CS_SITESPECIFIC_FACTOR_12 | ***                         | 3           | 198   | 200 |
| CS Site Specific Factor 13 | All   | CS_SITESPECIFIC_FACTOR_13 | ***                         | 3           | 201   | 203 |
| CS Site Specific Factor 14 | All   | CS_SITESPECIFIC_FACTOR_14 | ***                         | 3           | 204   | 206 |
| CS Site Specific Factor 15 | All   | CS_SITESPECIFIC_FACTOR_15 | ***                         | 3           | 207   | 209 |
| CS Site Specific Factor 16 | All   | CS_SITESPECIFIC_FACTOR_16 | ***                         | 3           | 210   | 212 |
| CS Site Specific Factor 17 | All   | CS_SITESPECIFIC_FACTOR_17 | ***                         | 3           | 213   | 215 |
| CS Site Specific Factor 18 | All   | CS_SITESPECIFIC_FACTOR_18 | ***                         | 3           | 216   | 218 |
| CS Site Specific Factor 19 | All   | CS_SITESPECIFIC_FACTOR_19 | ***                         | 3           | 219   | 221 |
| CS Site Specific Factor 20 | All   | CS_SITESPECIFIC_FACTOR_20 | ***                         | 3           | 222   | 224 |
| CS Site Specific Factor 21 | All   | CS_SITESPECIFIC_FACTOR_21 | ***                         | 3           | 225   | 227 |
| CS Site Specific Factor 22 | All   | CS_SITESPECIFIC_FACTOR_22 | ***                         | 3           | 228   | 230 |
| CS Site Specific Factor 23 | All   | CS_SITESPECIFIC_FACTOR_23 | ***                         | 3           | 231   | 233 |
| CS Site Specific Factor 24 | All   | CS_SITESPECIFIC_FACTOR_24 | ***                         | 3           | 234   | 236 |
| CS Site Specific Factor 25 | All   | CS_SITESPECIFIC_FACTOR_25 | ***                         | 3           | 237   | 239 |
| CS Version Number          | All   | CS_VERSION_LATEST         | 2010-2015                   | 6           | 240   | 245 |
| Treatment                  | Treatment Started, Days from Dx             | DX_RX_STARTED_DAYS        | All                         | 8           | 246   | 253 |
|                            | First Surgical Procedure, Days from Dx      | DX_SURG_STARTED_DAYS      | All                         | 8           | 254   | 261 |
|                            | Definitive Surgical Procedure, Days from Dx | DX_DEFSURG_STARTED_DAYS   | All                         | 8           | 262   | 269 |
|                            | Surgical Procedure of the Primary Site      | RX_SUMM_SURG_PRIM_SITE    | All                         | 2           | 270   | 271 |
|                            | Surgical Approach                           | RX_HOSP_SURG_APPR_2010    | 2010+                       | 1           | 272   | 272 |
|                            | Surgical Margins                            | RX_SUMM_SURGICAL_MARGINS  | All                         | 1           | 273   | 273 |

| NCDB 2022 PUF Item List                                     | Adult Only/All*                                   | PUF Item Name | Diagnosis Years Available** | File Layout |       |         |
|---|---|---------------|-----------------------------|-------------|-------|---------|
|   |   |               |                             | Characters  | Start | End     |
| Treatment Items   | Scope of Regional LN Surgery                      | All           | RX_SUMM_SCOPE_REG_LN_SUR    | All         | 1     | 274 274 |
|   | Surgery Other Site                                | All           | RX_SUMM_SURG_OTH_REGDIS     | All         | 1     | 275 275 |
|   | Surgical Inpatient Stay, Days from Surgery        | All           | SURG_DISCHARGE_DAYS         | All         | 8     | 276 283 |
|   | Readmission Within 30 Days of Surgical Discharge  | All           | READM_HOSP_30_DAYS          | All         | 1     | 284 284 |
|   | Reason for No Surgery                             | All           | REASON_FOR_NO_SURGERY       | All         | 1     | 285 285 |
|   | Radiation, Days from Dx                           | All           | DX_RAD_STARTED_DAYS         | All         | 8     | 286 293 |
|   | Location of Radiation Therapy                     | All           | RAD_LOCATION_OF_RX          | All         | 1     | 294 294 |
|   | Radiation Surgery Sequence                        | All           | RX_SUMM_SURGRAD_SEQ         | All         | 1     | 295 295 |
|   | Radiation Ended, Days from Start of Radiation     | All           | RAD_ELAPSED_RX_DAYS         | All         | 3     | 296 298 |
|   | Reason for No Radiation                           | All           | REASON_FOR_NO_RADIATION     | All         | 1     | 299 299 |
|   | Systemic, Days from Dx                            | All           | DX_SYSTEMIC_STARTED_DAYS    | All         | 8     | 300 307 |
|   | Chemotherapy, Days from Dx                        | All           | DX_CHEMO_STARTED_DAYS       | All         | 8     | 308 315 |
|   | Chemotherapy                                      | All           | RX_SUMM_CHEMO               | All         | 2     | 316 317 |
|   | Hormone Therapy, Days from Dx                     | All           | DX_HORMONE_STARTED_DAYS     | All         | 8     | 318 325 |
|   | Hormone Therapy                                   | All           | RX_SUMM_HORMONE             | All         | 2     | 326 327 |
|   | Immunotherapy, Days from Dx                       | All           | DX_IMMUNO_STARTED_DAYS      | All         | 8     | 328 335 |
|   | Immunotherapy                                     | All           | RX_SUMM_IMMUNOTHERAPY       | All         | 2     | 336 337 |
|   | Hematologic Transplant and Endocrine Procedures   | All           | RX_SUMM_TRNSPLNT_ENDO       | All         | 2     | 338 339 |
|   | Systemic Surgery Sequence                         | All           | RX_SUMM_SYSTEMIC_SUR_SEQ    | 2006+       | 1     | 340 340 |
|   | Other Treatment, Days from Dx                     | All           | DX_OTHER_STARTED_DAYS       | All         | 8     | 341 348 |
|   | Other Treatment                                   | All           | RX_SUMM_OTHER               | All         | 1     | 349 349 |
|   | Palliative Care                                   | All           | PALLIATIVE_CARE             | All         | 1     | 350 350 |
|   | RX Summ-Treatment Status                          | All           | RX_SUMM_TREATMENT_STATUS    | 2010+       | 1     | 351 351 |
| Outcomes and Additional Treatment, Case, and Facility Items | Thirty Day Mortality                              | All           | PUF_30_DAY_MORT_CD          | 2004-2020   | 1     | 352 352 |
|   | Ninety Day Mortality                              | All           | PUF_90_DAY_MORT_CD          | 2004-2020   | 1     | 353 353 |
|   | Last Contact or Death, Months from Dx             | All           | DX_LASTCONTACT_DEATH_MONTHS | 2004-2020   | 8     | 354 361 |
|   | PUF Vital Status                                  | All           | PUF_VITAL_STATUS            | 2004-2020   | 1     | 362 362 |
|   | Surgery at This Facility                          | All           | RX_HOSP_SURG_PRIM_SITE      | All         | 2     | 363 364 |
|   | Chemotherapy at This Facility                     | All           | RX_HOSP_CHEMO               | All         | 2     | 365 366 |
|   | Immunotherapy at This Facility                    | All           | RX_HOSP_IMMUNOTHERAPY       | All         | 2     | 367 368 |
|   | Hormone Therapy at This Facility                  | All           | RX_HOSP_HORMONE             | All         | 2     | 369 370 |
|   | Other Treatment at This Facility                  | All           | RX_HOSP_OTHER               | All         | 2     | 371 372 |
|   | PUF Multiple Source                               | All           | PUF_MULT_SOURCE             | All         | 1     | 373 373 |
|   | Reference Date Flag                               | All           | PUF_REFERENCE_DATE_FLAG     | All         | 1     | 374 374 |
|   | Scope of Regional LN Surgery, Dx Years 2012+      | All           | RX_SUMM_SCOPE_REG_LN_2012   | 2012+       | 1     | 375 375 |
|   | Diagnostic and Staging Procedure at This Facility | All           | RX_HOSP_DXSTG_PROC          | All         | 2     | 376 377 |
|   | Palliative Care at This Facility                  | All           | PALLIATIVE_CARE_HOSP        | All         | 1     | 378 378 |
|   | Tumor Size Summary 2016                           | All           | TUMOR_SIZE_SUMMARY_2016     | 2016+       | 3     | 379 381 |
|   | Mets at Diagnosis Other                           | All           | METS_AT_DX_OTHER            | 2016+       | 1     | 382 382 |
|   | Mets at Diagnosis Distant Lymph Nodes             | All           | METS_AT_DX_DISTANT_LN       | 2016+       | 1     | 383 383 |
|   | Mets at Diagnosis Bone                            | All           | METS_AT_DX_BONE             | 2016+       | 1     | 384 384 |

| NCDB 2022 PUF Item List              | Adult Only/All*                                | PUF Item Name          | Diagnosis Years Available** | File Layout |       |     |
|--------------------------------------|--|------------------------|-----------------------------|-------------|-------|-----|
|                                      |  |                        |                             | Characters  | Start | End |
| Mets at Diagnosis Brain              | All  | METS_AT_DX_BRAIN       | 2016+                       | 1           | 385   | 385 |
|                                      | All  | METS_AT_DX_LIVER       | 2016+                       | 1           | 386   | 386 |
|                                      | All  | METS_AT_DX_LUNG        | 2016+                       | 1           | 387   | 387 |
| No High School Degree Quartiles 2016 | All  | NO_HSD_QUAR_2016       | All                         | 1           | 388   | 388 |
|                                      | All  | MED_INC_QUAR_2016      | All                         | 1           | 389   | 389 |
|                                      | Adult*   | PUF_MEDICAID_EXPN_CODE | All                         | 1           | 390   | 390 |
|                                      | All  | PHASE_I_RT_VOLUME      | All                         | 2           | 391   | 392 |
|                                      | All  | PHASE_I_RT_TO_LN       | All                         | 2           | 393   | 394 |
|                                      | All  | PHASE_I_DOSE_FRACT     | All                         | 5           | 395   | 399 |
|                                      | All  | PHASE_I_NUM_FRACT      | All                         | 3           | 400   | 402 |
|                                      | All  | PHASE_I_BEAM_TECH      | All                         | 2           | 403   | 404 |
|                                      | All  | PHASE_I_TOTAL_DOSE     | All                         | 6           | 405   | 410 |
|                                      | All  | PHASE_I_RT_MODALITY    | All                         | 2           | 411   | 412 |
|                                      | All  | PHASE_II_RT_VOLUME     | All                         | 2           | 413   | 414 |
|                                      | All  | PHASE_II_RT_TO_LN      | All                         | 2           | 415   | 416 |
|                                      | All  | PHASE_II_DOSE_FRACT    | All                         | 5           | 417   | 421 |
|                                      | All  | PHASE_II_NUM_FRACT     | All                         | 3           | 422   | 424 |
|                                      | All  | PHASE_II_BEAM_TECH     | All                         | 2           | 425   | 426 |
|                                      | All  | PHASE_II_TOTAL_DOSE    | All                         | 6           | 427   | 432 |
|                                      | All  | PHASE_II_RT_MODALITY   | All                         | 2           | 433   | 434 |
|                                      | All  | PHASE_III_RT_VOLUME    | 2018+                       | 2           | 435   | 436 |
|                                      | All  | PHASE_III_RT_TO_LN     | 2018+                       | 2           | 437   | 438 |
|                                      | All  | PHASE_III_DOSE_FRACT   | 2018+                       | 5           | 439   | 443 |
|                                      | All  | PHASE_III_NUM_FRACT    | 2018+                       | 3           | 444   | 446 |
|                                      | All  | PHASE_III_BEAM_TECH    | 2018+                       | 2           | 447   | 448 |
|                                      | All  | PHASE_III_TOTAL_DOSE   | 2018+                       | 6           | 449   | 454 |
|                                      | All  | PHASE_III_RT_MODALITY  | 2018+                       | 2           | 455   | 456 |
|                                      | All  | NUMBER_PHASES_RAD_RX   | 2018+                       | 2           | 457   | 458 |
|                                      | All  | RAD_RX_DISC_EARLY      | 2018+                       | 2           | 459   | 460 |
|                                      | All  | TOTAL_DOSE             | 2018+                       | 6           | 461   | 466 |
| Variables collected in 2018+         | Adenoid Cystic Basaloid Pattern SSDI Item 3803 | ADENOID_CYSTIC_BSLD    | 2018+                       | 5           | 467   | 471 |
|                                      | Adenopathy SSDI Item 3804                      | ADENOPATHY             | 2018+                       | 1           | 472   | 472 |
|                                      | AFP Post-Orchiectomy Range SSDI Item 3806      | AFP_POST_ORCH_RANGE    | 2018+                       | 1           | 473   | 473 |
|                                      | AFP Post-Orchiectomy Lab Value SSDI Item 3805  | AFP_POST_ORCH_VALUE    | 2018+                       | 7           | 474   | 480 |
|                                      | AFP Pretreatment Interpretation SSDI Item 3809 | AFP_PRE_INTERP         | 2018+                       | 1           | 481   | 481 |
|                                      | AFP Pre-Orchiectomy Range SSDI Item 3808       | AFP_PRE_ORCH_RANGE     | 2018+                       | 1           | 482   | 482 |
|                                      | AFP Pre-Orchiectomy Lab Value SSDI Item 3807   | AFP_PRE_ORCH_VALUE     | 2018+                       | 7           | 483   | 489 |
|                                      | AFP Pretreatment Lab Value SSDI Item 3810      | AFP_PRE_VALUE          | 2018+                       | 6           | 490   | 495 |
|                                      | AJCC ID SSDI Item 995                          | AJCC_ID                | 2018+                       | 4           | 496   | 499 |
|                                      | AJCC 8th Edition Clinical M                    | AJCC_TNM_CLIN_M        | 2018+                       | 15          | 500   | 514 |
|                                      | AJCC 8th Edition Clinical N                    | AJCC_TNM_CLIN_N        | 2018+                       | 15          | 515   | 529 |

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|---|-----------------|----------------------------|-----------------------------|-------------|-------|-----|
|   |                 |                            |                             | Characters  | Start | End |
| AJCC 8th Edition Clinical N Suffix                          | All             | AJCC_TNM_CLIN_N_SFX        | 2018+                       | 4           | 530   | 533 |
| AJCC 8th Edition Clinical Stage Group                       | All             | AJCC_TNM_CLIN_STG_GRP      | 2018+                       | 15          | 534   | 548 |
| AJCC 8th Edition Clinical T                                 | All             | AJCC_TNM_CLIN_T            | 2018+                       | 15          | 549   | 563 |
| AJCC 8th Clinical T Suffix                                  | All             | AJCC_TNM_CLIN_T_SFX        | 2018+                       | 4           | 564   | 567 |
| AJCC 8th Edition Pathologic M                               | All             | AJCC_TNM_PATH_M            | 2018+                       | 15          | 568   | 582 |
| AJCC 8th Edition Pathologic N                               | All             | AJCC_TNM_PATH_N            | 2018+                       | 15          | 583   | 597 |
| AJCC 8th Edition Pathologic N Suffix                        | All             | AJCC_TNM_PATH_N_SFX        | 2018+                       | 4           | 598   | 601 |
| AJCC 8th Edition Pathologic Stage Group                     | All             | AJCC_TNM_PATH_STG_GRP      | 2018+                       | 15          | 602   | 616 |
| AJCC 8th Edition Pathologic T                               | All             | AJCC_TNM_PATH_T            | 2018+                       | 15          | 617   | 631 |
| AJCC 8th Edition Pathologic T Suffix                        | All             | AJCC_TNM_PATH_T_SFX        | 2018+                       | 4           | 632   | 635 |
| AJCC 8th Edition Post Pathologic M                          | All             | AJCC_TNM_POST_PATH_M       | 2018+                       | 15          | 636   | 650 |
| AJCC 8th Edition Post Pathologic N                          | All             | AJCC_TNM_POST_PATH_N       | 2018+                       | 15          | 651   | 665 |
| AJCC 8th Edition Post Pathologic N Suffix                   | All             | AJCC_TNM_POST_PATH_N_SFX   | 2018+                       | 4           | 666   | 669 |
| AJCC 8th Edition Post Pathologic Stage Group                | All             | AJCC_TNM_POST_PATH_STG_GRP | 2018+                       | 15          | 670   | 684 |
| AJCC 8th Edition Post Pathologic T                          | All             | AJCC_TNM_POST_PATH_T       | 2018+                       | 15          | 685   | 699 |
| AJCC 8th Edition Post Pathologic T Suffix                   | All             | AJCC_TNM_POST_PATH_T_SFX   | 2018+                       | 4           | 700   | 703 |
| Serum Albumin Pretreatment Level SSDI Item 3930             | All             | ALBUMIN_PRE_TX_LEVEL       | 2018+                       | 1           | 704   | 704 |
| Anemia SSDI Item 3811                                       | All             | ANEMIA                     | 2018+                       | 1           | 705   | 705 |
| B Symptoms SSDI Item 3812                                   | All             | B_SYMPTOMS                 | 2018+                       | 1           | 706   | 706 |
| Measured Basal Diameter SSDI Item 3887                      | All             | BASAL_DIAMETER             | 2018+                       | 4           | 707   | 710 |
| Serum Beta-2 Microglobulin Pre Rx Level SSDI Item 3931      | All             | BETA2MG_PRE_TX_LVL         | 2018+                       | 1           | 711   | 711 |
| Invasion Beyond Capsule SSDI Item 3864                      | All             | BEYOND_CAPSULE             | 2018+                       | 1           | 712   | 712 |
| Bilirubin Pretreatment Unit of Measure SSDI Item 3814       | All             | BILIRUBIN_PRE_UNIT         | 2018+                       | 1           | 713   | 713 |
| Bilirubin Pretreatment Total Lab Value SSDI Item 3813       | All             | BILIRUBIN_PRE_VALUE        | 2018+                       | 5           | 714   | 718 |
| Bone Invasion SSDI Item 3815                                | All             | BONE_INVASION              | 2018+                       | 1           | 719   | 719 |
| Brain Molecular Markers SSDI Item 3816                      | All             | BRAIN_MOL_MARKERS          | 2018+                       | 2           | 720   | 721 |
| Breslow Tumor Thickness SSDI Item 3817                      | All             | BRESLOW_THICKNESS          | 2018+                       | 4           | 722   | 725 |
| CA-125 Pre Rx Interpretation SSDI Item 3818                 | All             | CA125_PRE_INTERP           | 2018+                       | 1           | 726   | 726 |
| CEA Pre Rx Interpretation SSDI Item 3819                    | All             | CEA_PRE_INTERP             | 2018+                       | 1           | 727   | 727 |
| CEA Pre Rx Lab Value SSDI Item 3820                         | All             | CEA_PRE_VALUE              | 2018+                       | 6           | 728   | 733 |
| Chromosome 19q: Loss of Heterozygosity (LOH) SSDI Item 3802 | All             | CHROMOSOME_19QLOH          | 2018+                       | 1           | 734   | 734 |
| Chromosome 1p:Loss of Heterozygosity (LOH)SSDI Item 3801    | All             | CHROMOSOME_1PLOH           | 2018+                       | 1           | 735   | 735 |
| Chromosome 3 Status SSDI Item 3821                          | All             | CHROMOSOME_3_STATUS        | 2018+                       | 1           | 736   | 736 |
| Chromosome 8q Status SSDI Item 3822                         | All             | CHROMOSOME_8Q_STAT         | 2018+                       | 1           | 737   | 737 |
| Creatinine Pre Rx Unit of Measure SSDI Item 3825            | All             | CREATININE_PRE_UNIT        | 2018+                       | 1           | 738   | 738 |
| Creatinine Pre Rx Lab Value SSDI Item 3824                  | All             | CREATININE_PRE_VALU        | 2018+                       | 4           | 739   | 742 |
| Circumferential Resection Margin SSDI Item 3823             | All             | CRM                        | 2018+                       | 4           | 743   | 746 |
| Extranodal Extension Head and Neck ClinicalSSDI Item 3831   | All             | ENE_CLIN_HN                | 2018+                       | 1           | 747   | 747 |

| NCDB 2022 PUF Item List   | Adult Only/All* | PUF Item Name             | Diagnosis Years Available** | File Layout |       |     |
|---|-----------------|---------------------------|-----------------------------|-------------|-------|-----|
|   |                 |                           |                             | Characters  | Start | End |
| Extranodal Extension Clin (non-Head and Neck)SSDI Item 3830       | All             | ENE_CLIN_NOT_HN           | 2018+                       | 1           | 748   | 748 |
| Extranodal Extension Head and Neck Pathological SSDI Item 3832    | All             | ENE_PATH_HN               | 2018+                       | 3           | 749   | 751 |
| Extranodal Extension Path (non-Head and Neck) SSDI Item 3833      | All             | ENE_PATH_NOT_HN           | 2018+                       | 1           | 752   | 752 |
| Estrogen Receptor Percent Positive or RangeSSDI Item 3826         | All             | ER_PERCENT_POS_OR_RNG     | 2018+                       | 3           | 753   | 755 |
| Estrogen Receptor Summary SSDI Item 3827                          | All             | ER_SUMMARY                | 2018+                       | 1           | 756   | 756 |
| Estrogen Receptor Total Allred Score SSDI Item 3828               | All             | ER_TOTAL_ALLRED           | 2018+                       | 2           | 757   | 758 |
| Esophagus and EGJ Tumor Epicenter SSDI Item 3829                  | All             | ESOPH_EPICENTER           | 2018+                       | 1           | 759   | 759 |
| Extravascular Matrix Patterns SSDI Item 3834                      | All             | EXTRAVASC_MATRIX          | 2018+                       | 1           | 760   | 760 |
| Fibrosis Score SSDI Item 3835                                     | All             | FIBROSIS_SCORE            | 2018+                       | 1           | 761   | 761 |
| FIGO Stage SSDI Item 3836   | All             | FIGO_STAGE                | 2018+                       | 2           | 762   | 763 |
| Gestational Trophoblastic Prognostic Scoring Index SSDI Item 3837 | All             | GEST_PROGNOST_INDEX       | 2018+                       | 2           | 764   | 765 |
| Gleason Patterns Clinical SSDI Item 3838                          | All             | GLEASON_PAT_CLIN          | 2018+                       | 2           | 766   | 767 |
| Gleason Patterns Pathological SSDI Item 3839                      | All             | GLEASON_PAT_PATH          | 2018+                       | 2           | 768   | 769 |
| Gleason Score Clinical SSDI Item 3840                             | All             | GLEASON_SCORE_CLIN        | 2018+                       | 2           | 770   | 771 |
| Gleason Score Pathological SSDI Item 3841                         | All             | GLEASON_SCORE_PATH        | 2018+                       | 2           | 772   | 773 |
| Gleason Tertiary Pattern SSDI Item 3842                           | All             | GLEASON_SCORE_TERTIARY_PT | 2018+                       | 2           | 774   | 775 |
| Grade Clinical SSDI Item 3843                                     | All             | GRADE_CLIN                | 2018+                       | 1           | 776   | 776 |
| Grade Pathological SSDI Item 3844                                 | All             | GRADE_PATH                | 2018+                       | 1           | 777   | 777 |
| Grade Pathological Post Therapy SSDI Item 3845                    | All             | GRADE_PATH_POST           | 2018+                       | 1           | 778   | 778 |
| hCG Post-Orchiectomy Range SSDI Item 3847                         | All             | HCG_POST_ORCH_RANGE       | 2018+                       | 1           | 779   | 779 |
| hCG Post-Orchiectomy Lab Value SSDI Item 3846                     | All             | HCG_POST_ORCH_VALUE       | 2018+                       | 7           | 780   | 786 |
| hCG Pre-Orchiectomy Range SSDI Item 3849                          | All             | HCG_PRE_ORCH_RANGE        | 2018+                       | 1           | 787   | 787 |
| hCG Pre-Orchiectomy Lab Value SSDI Item 3848                      | All             | HCG_PRE_ORCH_VALUE        | 2018+                       | 7           | 788   | 794 |
| HER2 IHC Summary SSDI Item 3850                                   | All             | HER2_IHC_SUMMARY          | 2018+                       | 1           | 795   | 795 |
| HER2 ISH Dual Probe Copy Number SSDI Item 3851                    | All             | HER2_ISH_DUAL_NUM         | 2018+                       | 4           | 796   | 799 |
| HER2 ISH Dual Probe Ratio SSDI Item 3852                          | All             | HER2_ISH_DUAL_RATIO       | 2018+                       | 4           | 800   | 803 |
| HER2 ISH Single Probe Copy Number SSDI Item 3853                  | All             | HER2_ISH_SINGLE_NUM       | 2018+                       | 4           | 804   | 807 |
| HER2 ISH Summary SSDI Item 3854                                   | All             | HER2_ISH_SUMMARY          | 2018+                       | 1           | 808   | 808 |
| HER2 Overall Summary SSDI Item 3855                               | All             | HER2_OVERALL_SUMM         | 2018+                       | 1           | 809   | 809 |
| Heritable Trait SSDI Item 3856                                    | All             | HERITABLE_TRAIT           | 2018+                       | 1           | 810   | 810 |
| High Risk Cytogenetics SSDI Item 3857'                            | All             | HIGH_RISK_CYTOGENET       | 2018+                       | 1           | 811   | 811 |
| High Risk Histologic Features SSDI Item 3858                      | All             | HIGH_RISK_HIST_FEAT       | 2018+                       | 1           | 812   | 812 |
| HIV Status SSDI Item 3859   | All             | HIV_STATUS                | 2018+                       | 1           | 813   | 813 |
| Profound Immune Suppression SSDI Item 3918                        | All             | IMMUNE_SUPP               | 2018+                       | 1           | 814   | 814 |
| International Normalized Ratio Prothrombin Time SSDI Item 3860    | All             | INR_PRO_TIME              | 2018+                       | 3           | 815   | 817 |
| Ipsilateral Adrenal Gland Involvement SSDI Item 3861              | All             | IPSI_ADRENAL_INVOL        | 2018+                       | 1           | 818   | 818 |

| NCDB 2022 PUF Item List   | Adult Only/All* | PUF Item Name         | Diagnosis Years Available** | File Layout |       |     |
|---|-----------------|-----------------------|-----------------------------|-------------|-------|-----|
|   |                 |                       |                             | Characters  | Start | End |
| JAK2 SSDI Item 3862   | All             | JAK2                  | 2018+                       | 1           | 819   | 819 |
| Ki-67 SSDI Item 3863  | All             | KI67                  | 2018+                       | 5           | 820   | 824 |
| KIT Gene Immunohistochemistry SSDI Item 3865                      | All             | KIT_GENE_IHC          | 2018+                       | 1           | 825   | 825 |
| KRAS Item 3866  | All             | KRAS                  | 2018+                       | 1           | 826   | 826 |
| LDH Post-Orchiectomy Range SSDI Item 3867                         | All             | LDH_POST_ORCH_RANGE   | 2018+                       | 1           | 827   | 827 |
| LDH Pre-Orchiectomy Range SSDI Item 3868                          | All             | LDH_PRE_ORCH_RANGE    | 2018+                       | 1           | 828   | 828 |
| LDH Pretreatment Level SSDI Item 3869'                            | All             | LDH_PRE_TX_LEVEL      | 2018+                       | 1           | 829   | 829 |
| LDH Pretreatment Lab Value SSDI Item 3932                         | All             | LDH_PRE_TX_VALUE      | 2018+                       | 7           | 830   | 836 |
| LDH Upper Limits of Normal SSDI Item 3870                         | All             | LDH_UPPER_NORMAL      | 2018+                       | 3           | 837   | 839 |
| LN Distant: Mediastinal, Scalene SSDI Item 3875                   | All             | LN_DIST_MEDIAS_SCALN  | 2018+                       | 1           | 840   | 840 |
| LN Distant Assessment Method SSDI Item 3874                       | All             | LN_DISTANT_METHOD     | 2018+                       | 1           | 841   | 841 |
| LN Status Femoral-Inguinal, Para-Aortic, Pelvic SSDI Item 3884    | All             | LN_FEM_ING PARA_APELV | 2018+                       | 1           | 842   | 842 |
| LN Isolated Tumor Cells (ITC) SSDI Item 3880                      | All             | LN_ITC                | 2018+                       | 1           | 843   | 843 |
| LN Laterality SSDI Item 3881                                      | All             | LN_LATERALITY         | 2018+                       | 1           | 844   | 844 |
| LN Assessment Method Femoral-Inguinal SSDI Item 3871              | All             | LN_METHOD_FEMING      | 2018+                       | 1           | 845   | 845 |
| LN Assessment Method Para-Aortic SSDI Item 3872                   | All             | LN_METHOD_PARA_AORT   | 2018+                       | 1           | 846   | 846 |
| LN Assessment Method Pelvic SSDI Item 3873                        | All             | LN_METHOD_PELVIC      | 2018+                       | 1           | 847   | 847 |
| LN Positive Axillary Level I-II SSDI Item 3882                    | All             | LN_POS_AX_LEVELS_I_II | 2018+                       | 2           | 848   | 849 |
| LN Size SSDI Item 3883  | All             | LN_SIZE               | 2018+                       | 4           | 850   | 853 |
| LN Head and Neck Levels I-III SSDI Item 3876                      | All             | LNHN_LEVELS_I_III     | 2018+                       | 1           | 854   | 854 |
| LN Head and Neck Levels IV-V SSDI Item 3877                       | All             | LNHN_LEVELS_IV_V      | 2018+                       | 1           | 855   | 855 |
| LN Head and Neck Other SSDI Item 3879                             | All             | LNHN_LEVELS_OTHER     | 2018+                       | 1           | 856   | 856 |
| LN Head and Neck Levels VI-VII SSDI Item 3878                     | All             | LNHN_LEVELS_VI_VII    | 2018+                       | 1           | 857   | 857 |
| Lymphocytosis SSDI Item 3885                                      | All             | LYMPHOCYTOSIS         | 2018+                       | 1           | 858   | 858 |
| Major Vein Involvement SSDI Item 3886                             | All             | MAJOR_VEIN_INVLV      | 2018+                       | 1           | 859   | 859 |
| Methylation of O6-Methylguanine- Methyltransferase SSDI Item 3889 | All             | METHYLATION_O6MGMT    | 2018+                       | 1           | 860   | 860 |
| Microvascular Density SSDI Item 3891                              | All             | MICROVASC_DENSITY     | 2018+                       | 2           | 861   | 862 |
| Mitotic Count Uveal Melanoma SSDI Item 3892                       | All             | MITOTIC_COUNT_UVEA    | 2018+                       | 4           | 863   | 866 |
| Mitotic Rate Melanoma SSDI Item 3893                              | All             | MITOTIC_RATE_MELANO   | 2018+                       | 2           | 867   | 868 |
| Microsatellite Instability (MSI) SSDI Item 3890                   | All             | MSI                   | 2018+                       | 1           | 869   | 869 |
| Multigene Signature Method SSDI Item 3894                         | All             | MULTIGENE_METHOD      | 2018+                       | 1           | 870   | 870 |
| Multigene Signature Results SSDI Item 3895                        | All             | MULTIGENE_RESULTS     | 2018+                       | 2           | 871   | 872 |
| NCCN International Prognostic Index (IPI) SSDI Item 3896          | All             | NCCN_IPI              | 2018+                       | 2           | 873   | 874 |
| Number of Cores Examined SSDI Item 3897                           | All             | NUM_CORES_EXAM        | 2018+                       | 2           | 875   | 876 |
| Number of Cores Positive SSDI Item 3898                           | All             | NUM_CORES_POS         | 2018+                       | 2           | 877   | 878 |
| Number of Examined Para-Aortic Nodes SSDI Item 3899               | All             | NUM_NODES_EXAM_PARA_A | 2018+                       | 2           | 879   | 880 |
| Number of Positive Para-Aortic Nodes SSDI Item 3901               | All             | NUM_NODES_POS_PARA_A  | 2018+                       | 2           | 881   | 882 |

| NCDB 2022 PUF Item List  | Adult Only/All* | PUF Item Name             | Diagnosis Years Available** | File Layout |       |     |
|--|-----------------|---------------------------|-----------------------------|-------------|-------|-----|
|  |                 |                           |                             | Characters  | Start | End |
| Number of Examined Pelvic Nodes SSDI Item 3900                 | All             | NUM_PELV_NODES_EXAM       | 2018+                       | 2           | 883   | 884 |
| Number of Positive Pelvic Nodes SSDI Item 3902                 | All             | NUM_PELV_NODES_POS        | 2018+                       | 2           | 885   | 886 |
| Oncotype Dx Risk Level-DCIS SSDI Item 3905                     | All             | ONCOTYPE_RISK_DCIS        | 2018+                       | 1           | 887   | 887 |
| Oncotype Dx Risk Level-Invasive SSDI Item 3906                 | All             | ONCOTYPE_RISK_INVAS       | 2018+                       | 1           | 888   | 888 |
| Oncotype Dx Recurrence Score-DCIS SSDI Item 3903               | All             | ONCOTYPE_SCORE_DCIS       | 2018+                       | 3           | 889   | 891 |
| Oncotype Dx Recurrence Score-Invasive SSDI Item 3904           | All             | ONCOTYPE_SCORE_INV        | 2018+                       | 3           | 892   | 894 |
| Organomegaly SSDI Item 3907                                    | All             | ORGANOMEGLY               | 2018+                       | 1           | 895   | 895 |
| Primary Sclerosing Cholangitis SSDI Item 3917                  | All             | P_SCLER_CHOLANGITIS       | 2018+                       | 1           | 896   | 896 |
| Percent Necrosis Post Neoadjuvant SSDI Item 3908               | All             | PERCNT_NECROS_POST        | 2018+                       | 5           | 897   | 901 |
| Perineural Invasion SSDI Item 3909                             | All             | PERINEURAL_INV            | 2018+                       | 1           | 902   | 902 |
| Peripheral Blood Involvement SSDI Item 3920                    | All             | PERIPH_BLOOD_INV          | 2018+                       | 1           | 903   | 903 |
| Peritoneal Cytology SSDI Item 3911                             | All             | PERITONEAL_CYTOL          | 2018+                       | 1           | 904   | 904 |
| Pleural Effusion SSDI Item 3913                                | All             | PLEURAL EFFUSION          | 2018+                       | 1           | 905   | 905 |
| Visceral and Parietal Pleural Invasion SSDI Item 3937          | All             | PLEURAL_INV               | 2018+                       | 1           | 906   | 906 |
| Progesterone Receptor Percent Positive or Range SSDI Item 3914 | All             | PR_PERCENT_POS_OR_RNG     | 2018+                       | 3           | 907   | 909 |
| Progesterone Receptor Summary SSDI Item 3915                   | All             | PR_SUMMARY                | 2018+                       | 1           | 910   | 910 |
| Progesterone Receptor Total Allred Score SSDI Item 3916        | All             | PR_TOTAL_ALLRED           | 2018+                       | 2           | 911   | 912 |
| Prostate Pathological Extension SSDI Item 3919                 | All             | PROSTATE_PATH_EXT         | 2018+                       | 3           | 913   | 915 |
| PSA (Prostatic Specific Antigen) Lab Value SSDI Item 3920      | All             | PSA                       | 2018+                       | 5           | 916   | 920 |
| Response to Neoadjuvant Therapy SSDI Item 3922                 | All             | RSPNS_TO_NEOADJUVT        | 2018+                       | 1           | 921   | 921 |
| S Category Clinical SSDI Item 3923                             | All             | S_CAT_CLIN                | 2018+                       | 1           | 922   | 922 |
| S Category Pathological SSDI Item 3924                         | All             | S_CAT_PATH                | 2018+                       | 1           | 923   | 923 |
| Sarcomatoid Features SSDI Item 3925                            | All             | SARCOMATOID               | 2018+                       | 3           | 924   | 926 |
| Schema Discriminator 1 SSDI Item 3926                          | All             | SCHEMA_DISC_1             | 2018+                       | 1           | 927   | 927 |
| Schema Discriminator 2 SSDI Item 3927                          | All             | SCHEMA_DISC_2             | 2018+                       | 1           | 928   | 928 |
| Schema Discriminator 3 SSDI Item 3928                          | All             | SCHEMA_DISC_3             | 2018+                       | 1           | 929   | 929 |
| Schema ID SSDI Item 3800                                       | All             | SCHEMA_ID                 | 2018+                       | 5           | 930   | 934 |
| Separate Tumor Nodules SSDI Item 3929                          | All             | SEP_NODULES               | 2018+                       | 1           | 935   | 935 |
| Sentinel Lymph Nodes Examined                                  | All             | SLN_EXAM                  | 2018+                       | 2           | 936   | 937 |
| Sentinel Lymph Nodes Positive                                  | All             | SLN_POS                   | 2018+                       | 2           | 938   | 939 |
| Measured Thickness SSDI Item 3888                              | All             | THICKNESS                 | 2018+                       | 4           | 940   | 943 |
| Thrombocytopenia SSDI Item 3933                                | All             | THROMBOCYTOPENIA          | 2018+                       | 1           | 944   | 944 |
| Tumor Deposits SSDI Item 3934                                  | All             | TUMOR_DEPOSITS            | 2018+                       | 2           | 945   | 946 |
| Tumor Growth Pattern SSDI Item 3935                            | All             | TUMOR_GROWTH_PAT          | 2018+                       | 1           | 947   | 947 |
| Ulceration SSDI Item 3936                                      | All             | ULCERATION                | 2018+                       | 1           | 948   | 948 |
| Days from Dx to Sentinel Node Biopsy                           | All             | SENTINEL_LNBX_STARTED_DAY | 2018+                       | 8           | 949   | 956 |
| Days from Dx to Regional LN Dissection                         | All             | REG_LN_DISS_STARTED_DAY   | 2018+                       | 8           | 957   | 964 |

| NCDB 2022 PUF Item List     |   | Adult Only/All* | PUF Item Name                  | Diagnosis Years Available** | File Layout |       |      |
|-----------------------------|---|-----------------|--------------------------------|-----------------------------|-------------|-------|------|
|                             |   |                 |                                |                             | Characters  | Start | End  |
|                             | Residual Tumor Volume Post Cyto reduction SSDI Item 3921  | All             | RESID_POST_CYTORED_U           | 2018+                       | 2           | 965   | 966  |
| Variables Collected in 2020 | Percent No High School Degree Quartiles 2016-2020         | All             | NO_HSD_QUAR_2020               | All                         | 1           | 967   | 967  |
|                             | Median Income Quartiles 2016-2020                         | All             | MED_INC_QUAR_2020              | All                         | 1           | 968   | 968  |
|                             | NCDB-SARSCoV2--Pos  | All             | SARSCOV2_POS                   | 2020-2021                   | 1           | 969   | 969  |
|                             | Elapsed Days from DX to Date of First Positive COVID Test | All             | SARSCOV2_POS_DAYS              | 2020-2021                   | 8           | 970   | 977  |
|                             | NCDB-SARSCoV2--Test                                       | All             | SARSCOV2_TEST                  | 2020-2021                   | 1           | 978   | 978  |
| Variables Collected in 2021 | Grade Post Therapy Clin (yc)                              | All             | GRADE_POST_THERAPY_CLIN_YC     | 2021+                       | 1           | 979   | 979  |
|                             | AJCC TNM Post Therapy Clin (yc) M                         | All             | AJCC_TNM_POST_CLIN_YC_M        | 2021+                       | 15          | 980   | 994  |
|                             | AJCC TNM Post Therapy Clin (yc) N                         | All             | AJCC_TNM_POST_CLIN_YC_N        | 2021+                       | 15          | 995   | 1009 |
|                             | AJCC TNM Post Therapy Clin (yc) N Suffix                  | All             | AJCC_TNM_POST_CLIN_YC_N_SUF    | 2021+                       | 4           | 1010  | 1013 |
|                             | AJCC TNM Post Therapy Clin (yc) T                         | All             | AJCC_TNM_POST_CLIN_YC_T        | 2021+                       | 15          | 1014  | 1028 |
|                             | AJCC TNM Post Therapy Clin (yc) T Suffix                  | All             | AJCC_TNM_POST_CLIN_YC_T_SUF    | 2021+                       | 4           | 1029  | 1032 |
| Variables Collected in 2022 | AJCC TNM Post Therapy Clin (yc) Stage Group               | All             | AJCC_TNM_POST_THER_CLIN_YC_GRP | 2021+                       | 15          | 1033  | 1047 |
|                             | Macroscopic Evaluation of Mesorectum                      | All             | MACROSCOPIC_EVAL_TMESORECTUM   | 2022+                       | 2           | 1048  | 1049 |
|                             | Derived Rai Stage   | All             | DERIVED_RAI_STAGE              | 2018+                       | 1           | 1050  | 1050 |
|                             | P16   | All             | P16                            | 2021+                       | 1           | 1051  | 1051 |
|                             | LN Status Pelvic  | All             | LN_STATUS_PELVIC               | 2018+                       | 1           | 1052  | 1052 |
|                             | LN Status Para-Aortic                                     | All             | LN_STATUS_PARA_AORTIC          | 2018+                       | 1           | 1053  | 1053 |
|                             | LN Status Femoral-Inguinal                                | All             | LN_STATUS_FEMORAL_INGUINAL     | 2018+                       | 1           | 1054  | 1054 |
|                             | Rx Hosp—Surg Breast                                       | All             | RX_HOSP_SURG_BREAST            | 2022                        | 4           | 1055  | 1058 |
|                             | Rx Summ— Surg Breast                                      | All             | RX_SUMM_SURG_BREAST            | 2022                        | 4           | 1059  | 1062 |
|                             | Rx Hosp-- Recon Breast                                    | All             | RX_HOSP_RECON_BREAST           | 2022                        | 4           | 1063  | 1066 |
|                             | Rx Summ-- Recon Breast                                    | All             | RX_SUMM_RECON_BREAST           | 2022                        | 4           | 1067  | 1070 |
|                             | ALK Rearrangement   | All             | ALK_REARRANGEMENT              | 2021+                       | 1           | 1071  | 1071 |
|                             | EGFR Mutational Analysis                                  | All             | EGFR_MUTATIONAL_ANALYSIS       | 2021+                       | 1           | 1072  | 1072 |
|                             | BRAF Mutational Analysis                                  | All             | BRAF_MUTATIONAL_ANALYSIS       | 2021+                       | 1           | 1073  | 1073 |
|                             | NRAS Mutational Analysis                                  | All             | NRAS_MUTATIONAL_ANALYSIS       | 2021+                       | 1           | 1074  | 1074 |
|                             | CA 19-9 PreTx Lab Value                                   | All             | CA_19_9_PRETX_LAB_VALUE        | 2021+                       | 6           | 1075  | 1080 |

\*Facility type, Facility Location, and Medicaid Expansion Codes are suppressed for ages 0-39.

\*\*Based on 2022 PUF including cases diagnosed in 2004-2022 only.

\*\*\*Availability differs by site and factor. Please visit the links for Collaborative Stage Items Definitions for Site Specific Factors located under Links to Cancer Registry and Other Manuals on the NCDB PUF website for more information: <https://www.facs.org/quality-programs/cancer-programs/national-cancer-database/puf/>