



Federal Reporting Data System (FRDS-II) Data Element Dictionary

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**FEDERAL REPORTING DATA SYSTEM (FRDS-II)
DATA ELEMENT DICTIONARY**

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Prepared for:

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Preface

This document, the Federal Reporting Data System (FRDS-II) Data Element Dictionary (D.E.D), contains comprehensive information about, and related to, each data element maintained in the Federal Reporting Data System (FRDS-II) SYSTEM 2000™ Data Base.

The current release of the D.E.D is always noted in the Release Log which immediately follows this preface. Pages within this document having the same release number always represent information taken from a common version of the data source. Pages containing different release numbers, however, may contain incompatibilities since they reflect information taken at varying points in time from versions of the data source which may be dissimilar.

Drinking water programmatic information contained in the D.E.D includes:

- Descriptions, edit criteria and/or acceptable values, and related comments for each data base record and data element.
- What must be specified in order to insert, modify, or delete public water system *inventory, violation, enforcement action, milestone, variance and exemption and other related data*, and *sample data* and records into the FRDS-II Data Base (i.e., registration requirements).
- What must be specified for a public water system to be considered grant eligible.
- The source(s) of all FRDS-II data.

Technical information contained in the D.E.D includes:

- Data element numbers and names.
- Records and families to which the data elements belong.
- The data capture form identification, data qualifier(s), and the maximum length of data that may be entered via the FRDS-II data transfer file.
- Data characteristics, including data type, picture, access, and data category.

Other information of general interest contained in the D.E.D includes:

- **A data base structure chart and the definition of the FRDS-II Data Base.**
- **Data element number-name cross-reference lists.**
- **Lists of acceptable codes and values.**
- **A reference section.**
- **A glossary of technical and drinking water programmatic terms.**

**Federal Reporting Data System (FRDS-II)
Data Element Dictionary****Release Log**

Note: All change notices/descriptions that relate to the FRDS-II Data Element Dictionary should be filed immediately following the Release Log.

Release Number	Effective Date	Description of Release
1.00	10/01/89	Initial Release of Production Documentation
2.00	1/31/93	Revised Release of Production Documentation

Change Notice

Release 2.00 of the Federal Reporting Data System (FRDS-II) Data Element Dictionary is intended to be a full replacement for the Release 1.00 version of this documentation. Some sections, however, are not being replaced due to factors discussed below. In those cases, where the user feels the previous information is still of value to him/her, he/she can insert those sections in the new document, as the original section references I through VIII have been retained in Release 2.00.

- Section I. *FRDS-II Data Base Definition* is a total replacement.
- Section II. *Data Element Descriptions* a total replacement.
- Section III. *Quick Reference* is a total replacement.
- Section IV. This Section contains *FRDS 1.5 to FRDS-II Comparison Tables* which are considered to be of limited value at this time and, consequently, has not been included in this document.
- Section V. This Section contains *FRDS 1.5 to FRDS-II Conversion Rules* which are considered to be of limited value at this time and, consequently, has not been included in this document.
- Section VI. *Lists of Acceptable Code Values with Associated Descriptions* has been regenerated and, for the most part are included in this change release. Due to the large volume of essentially unchanged pages involved with Table C427 (Hydrological Unit Codes) and C509 (FIPS County Codes), however, these Tables have not been totally replaced. Section VI page numbers VI-122 through VI-384 have been retained for the former while VI-512 through VI-638 have been retained for the latter. In several instances, substantive changes in the C509 Table have necessitated the inclusion of these changed pages in this Section.
- Section VII. The *References* Section has been replaced by a list of documents readily available from EPA Regional and/or Headquarters offices. Users are urged to use these references in lieu of those found in Release 1.00, since much of the older reference material has been outdated and may no longer be valid.
- Section VIII. The *Glossary* is a total replacement.

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Section I

FRDS-II Data Base Definition

Section I FRDS-II Data Base Definition

This section of the FRDS-II Data Element Dictionary includes:

- FRDS-II Structure Chart as of December 31, 1992
- FRDS-II Data Base Definition

The FRDS-II Structure Chart

Chart 1A on page I-2 depicts the data base architecture of FRDS-II under the SYSTEM 2000™ (S2K) Data Base Management System (DBMS). The FRDS-II Data Base is a hierarchically arranged set of records that contain information relating to the Public Water Supply Supervision (PWSS) Program. In-depth information about the data base structure is included in Section VIII, Glossary of Technical and Drinking Water Programmatic Terms, under *Data Base*, *Data Base Family*, and *Data Base Record*.

Each block on the structure chart represents a data base record, labeled with its *number*, *family*, *name*, and *prefix*.

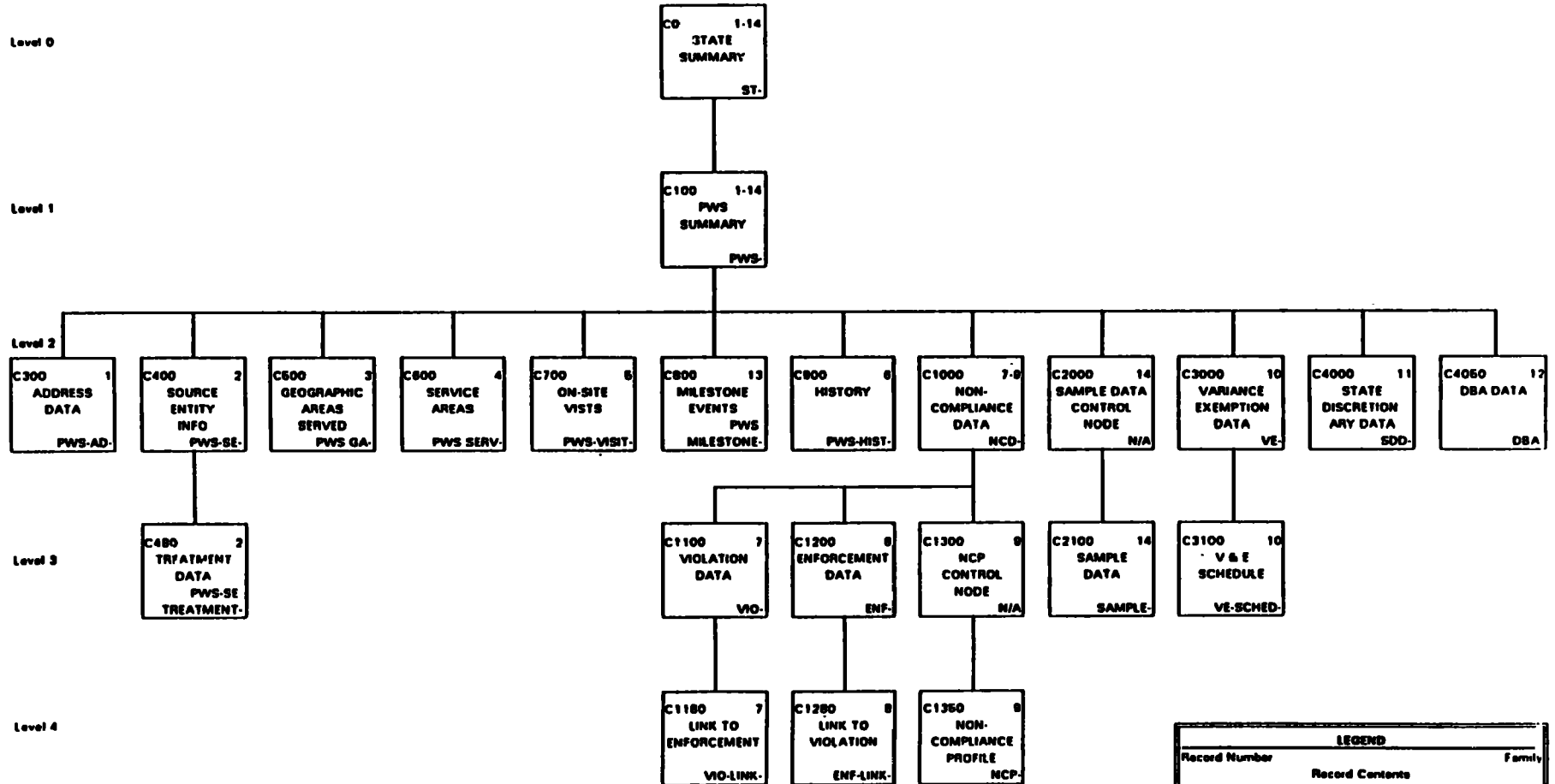
Users will also receive a revised FRDS-II Structure Chart (Release 2.10) which includes detailed information concerning this structure. The top portion of each block on the detailed chart contains the data base record number and name, the data capture form ID associated with the record's data, and its data base family. Below the data base record name and number are the data elements contained within each data base record.

In the expanded chart, each data element contains the following attributes:

- Data Element Number
- Data Element Name
- Data Type
- Maximum Length
- Data Base Registration Requirement (if any)
- Grant Eligibility Requirement (if any)
- Whether Generated/Not Generated by the FRDS-II System

I A. FRDS-II Structure Chart

Federal Reporting Data System (FRDS-II)
Structure Chart
December 1, 1992



LEGEND		
Record Number	Record Contents	Family
		Date
		Element Prefix

Effective Date: 1/31/93

Release: 2.00

Page: 1 - 2

FRDS-II Data Base Definition

The FRDS-II Data Base Definition is a detailed description of the structure of the FRDS-II Data Base. It lists, in table form, each data element by:

- **Number and Name.**
- **Whether the data element is KEY (by default, left blank) or NON-KEY (a term applicable when formulating SYSTEM 2000 locate statements).**
- **Data Type.**

Describes the SYSTEM 2000 data type for the data element being described. Valid SYSTEM 2000 data types are: CHARACTER, DATE, TEXT, INTEGER, and DECIMAL.

- **Picture.**

Describes the length and format of the data element being described. The letter or number outside the parentheses indicates the format (X = alphanumeric, 9 = numeric) and the number inside the parentheses represents the length. The Data Base definition contains the optimum size for all character (alphanumeric) fields.

Through an overflow capability, System 2000 accommodates maximum sized fields in excess of the size shown in the definition. In FRDS-II, all CHARACTER, X(4), fields can accommodate up to 40 characters of input data.

- **Record Identification Number.**

Section II, FRDS-II Data Element Description Notes, provides detailed descriptions of the data in the Data Base Definition.

Section I B. Data Base Definition

0*	STATE-SUMMARY	(	SR)	:
1*	ST-REGION-CODE	(	INT 9(2))	:
3*	ST-STATE-CODE	(	CHAR X(2))	:
4*	ST-IND-RES-CODE	(	CHAR X(7))	:
5*	ST-PRIMACY-FLAG	(	CHAR X(1))	:
7*	ST-ANY-DATA-LAST-UPDATE	(NON-KEY	DATE)	:
9*	ST-INV-LAST-UPDATE	(NON-KEY	DATE)	:
13*	ST-VIO-LAST-UPDATE	(NON-KEY	DATE)	:
15*	ST-ENF-LAST-UPDATE	(NON-KEY	DATE)	:
29*	ST-SAMPLE-LAST-UPDATE	(NON-KEY	DATE)	:
17*	ST-VE-LAST-UPDATE	(NON-KEY	DATE)	:
19*	ST-RECON-FLAG	(	CHAR X(1))	:
100*	PWS-SUMMARY	(	SR)	:
101*	PWS-ID	(	CHAR X(9)	IN 100)	:
102*	PWS-GRANT-ELIGIBLE	(	CHAR X(1)	IN 100)	:
103*	PWS-STATUS	(	CHAR X(3)	IN 100)	:
105*	PWS-TYPE	(	CHAR X(1)	IN 100)	:
107*	PWS-ACTIVITY-FLAG	(	CHAR X(1)	IN 100)	:
109*	PWS-HISTORY-FLAG	(	CHAR X(1)	IN 100)	:
111*	PWS-SYSTEM-BEGIN-Yymm	(NON-KEY	INT 9(4)	IN 100)	:
113*	PWS-DEACT-Yymm	(NON-KEY	INT 9(4)	IN 100)	:
115*	PWS-POP-CATEGORY	(	CHAR X(1)	IN 100)	:
117*	PWS-RETAIL-POP-SERVED	(NON-KEY	INT 9(8)	IN 100)	:
119*	PWS-PRIMARY-SOURCE	(	CHAR X(1)	IN 100)	:
121*	PWS-PCT-SURFACE	(NON-KEY	INT 9(3)	IN 100)	:
123*	PWS-PCT-GROUND	(NON-KEY	INT 9(3)	IN 100)	:
125*	PWS-PCT-PUR-SURFACE	(NON-KEY	INT 9(3)	IN 100)	:
127*	PWS-PCT-PUR-GROUND	(NON-KEY	INT 9(3)	IN 100)	:
129*	PWS-TREATMENT-CLASS	(	CHAR X(1)	IN 100)	:
131*	PWS-SYSTEM-NAME	(NON-KEY	CHAR X(30)	IN 100)	:
133*	PWS-SYSTEM-ADDR-LINE-1	(NON-KEY	CHAR X(4)	IN 100)	:
135*	PWS-SYSTEM-ADDR-LINE-2	(NON-KEY	CHAR X(30)	IN 100)	:
137*	PWS-SYSTEM-CITY	(	CHAR X(15)	IN 100)	:
139*	PWS-SYSTEM-STATE	(NON-KEY	CHAR X(2)	IN 100)	:
141*	PWS-SYSTEM-ZIP	(	CHAR X(5)	IN 100)	:
143*	PWS-PHONE	(NON-KEY	CHAR X(10)	IN 100)	:
145*	PWS-METERS	(NON-KEY	INT 9(7)	IN 100)	:
147*	PWS-SERVICE-CONNECTIONS	(	INT 9(7)	IN 100)	:
149*	PWS-AVG-DAILY-PROD	(NON-KEY	INT 9(10)	IN 100)	:
151*	PWS-TOT-DESIGN-CAPACITY	(NON-KEY	INT 9(10)	IN 100)	:
153*	PWS-TOT-EMERGENCY-PROD	(NON-KEY	INT 9(10)	IN 100)	:
155*	PWS-TOT-STORAGE-CAPACITY	(NON-KEY	INT 9(10)	IN 100)	:
157*	PWS-MAX-DAILY-PROD	(NON-KEY	INT 9(10)	IN 100)	:
159*	PWS-SEASON-BEGIN-MMDD	(NON-KEY	INT 9(4)	IN 100)	:
161*	PWS-SEASON-END-MMDD	(NON-KEY	INT 9(4)	IN 100)	:
163*	PWS-OWNER-TYPE	(	CHAR X(1)	IN 100)	:
165*	PWS-REGULATING-ENTITY	(NON-KEY	CHAR X(1)	IN 100)	:
167*	PWS-INV-LAST-UPDATE	(	DATE	IN 100)	:
168*	PWS-INSERT-DATE	(NON-KEY	DATE	IN 100)	:
169*	PWS-ANY-DATA-LAST-UPDATE	(	DATE	IN 100)	:
171*	PWS-RECON-FLAG	(	CHAR X(1)	IN 100)	:
173*	PWS-FYNN-TRACKER	(NON-KEY	CHAR X(60)	IN 100)	:

Section I B. Data Base Definition (continued)

300*	PWS-ADDRESS-DATA	(	SR	IN 100):
301*	PWS-AD-ID	(NON-KEY	INT 9(1)	IN 300):
303*	PWS-AD-TYPE	(	CHAR X(1)	IN 300):
305*	PWS-AD-NAME	(NON-KEY	CHAR X(30)	IN 300):
307*	PWS-AD-ADDR-LINE-1	(NON-KEY	CHAR X(4)	IN 300):
309*	PWS-AD-ADDR-LINE-2	(NON-KEY	CHAR X(30)	IN 300):
311*	PWS-AD-CITY	(	CHAR X(15)	IN 300):
313*	PWS-AD-STATE	(NON-KEY	CHAR X(2)	IN 300):
315*	PWS-AD-ZIP	(	CHAR X(5)	IN 300):
400*	PWS-SOURCE-ENTITY-INFO	(	SR	IN 100):
401*	PWS-SE-ID	(NON-KEY	INT 9(3)	IN 400):
403*	PWS-SE-NAME	(NON-KEY	CHAR X(15)	IN 400):
405*	PWS-SE-RECORD-TYPE	(	CHAR X(1)	IN 400):
407*	PWS-SE-CODE	(	CHAR X(1)	IN 400):
409*	PWS-SE-AVAILABILITY	(NON-KEY	CHAR X(1)	IN 400):
411*	PWS-SE-SELLER-PWS-ID	(NON-KEY	CHAR X(9)	IN 400):
413*	PWS-SE-DATA-ORIGIN	(NON-KEY	CHAR X(1)	IN 400):
415*	PWS-SE-LATITUDE	(	INT 9(6)	IN 400):
417*	PWS-SE-LONGITUDE	(	INT 9(7)	IN 400):
418*	PWS-SE-MERIDIAN-NAME	(NON-KEY	CHAR X(4)	IN 400):
419*	PWS-SE-TOWNSHIP	(NON-KEY	CHAR X(4)	IN 400):
421*	PWS-SE-RANGE	(NON-KEY	CHAR X(4)	IN 400):
423*	PWS-SE-SECTION	(NON-KEY	INT 9(2)	IN 400):
425*	PWS-SE-QTR-SECTION	(NON-KEY	CHAR X(2)	IN 400):
426*	PWS-SE-QTR-QTR-SECTION	(NON-KEY	CHAR X(2)	IN 400):
427*	PWS-SE-RIVER-REACH-NUM	(	CHAR X(8)	IN 400):
429*	PWS-SE-ON-REACH	(NON-KEY	CHAR X(1)	IN 400):
431*	PWS-SE-REACH-MILES	(NON-KEY	DEC 9(4).9(2)	IN 400):
480*	PWS-SE-TREATMENT-DATA	(	SR	IN 400):
481*	PWS-SE-TREATMENT-ID	(NON-KEY	INT 9(2)	IN 480):
483*	PWS-SE-TREATMENT-OBJECTIVE	(	CHAR X(1)	IN 480):
485*	PWS-SE-TREATMENT-PROCESS	(	INT 9(3)	IN 480):
500*	PWS-GEOGRAPHIC-AREAS-SERVED	(	SR	IN 100):
501*	PWS-GA-ID	(NON-KEY	INT 9(2)	IN 500):
503*	PWS-GA-ADMIN-REGION	(NON-KEY	CHAR X(2)	IN 500):
505*	PWS-GA-ADMIN-DIST	(NON-KEY	CHAR X(2)	IN 500):
507*	PWS-GA-CONGRESSIONAL-DIST	(NON-KEY	CHAR X(2)	IN 500):
508*	PWS-GA-STATE-COUNTY-CODE	(NON-KEY	CHAR X(3)	IN 500):
509*	PWS-GA-FIPS-COUNTY-CODE	(NON-KEY	CHAR X(3)	IN 500):
511*	PWS-GA-MSA-CODE	(	CHAR X(4)	IN 500):
513*	PWS-GA-CITY-SERVED	(	CHAR X(15)	IN 500):
515*	PWS-GA-IND-RES-CODE	(	CHAR X(5)	IN 500):
517*	PWS-GA-DATA-ORIGIN	(NON-KEY	CHAR X(1)	IN 500):
600*	PWS-SERVICE-AREAS	(	SR	IN 100):
601*	PWS-SERV-ID	(NON-KEY	INT 9(2)	IN 600):
603*	PWS-SERV-CATEGORY	(	CHAR X(2)	IN 600):
605*	PWS-SERV-PRIMARY-FLAG	(	CHAR X(1)	IN 600):

Section I B. Data Base Definition (continued)

700*	PWS-ON-SITE-VISITS	(	SR	IN 100):
701*	PWS-VISIT-ID	(NON-KEY	INT 9(2)	IN 700):
703*	PWS-VISIT-DATE	(NON-KEY	DATE	IN 700):
705*	PWS-VISIT-REASON	(	CHAR X(2)	IN 700):
800*	PWS-MILESTONES-EVENTS	(	SR	IN 100):
801*	PWS-MILESTONE-ID	(NON-KEY	CHAR X(4)	IN 800):
803*	PWS-MILESTONE-DATE	(NON-KEY	DATE	IN 800):
805*	PWS-MILESTONE-CODE	(	CHAR X(4)	IN 800):
809*	PWS-MILESTONE-ORIGIN	(NON-KEY	CHAR X(1)	IN 800):
811*	PWS-MILESTONE-INSERT-DATE	(NON-KEY	DATE	IN 800):
813*	PWS-MILESTONE-COMMENT	(NON-KEY	CHAR X(4)	IN 800):
815*	PWS-MILESTONE-VALUE	(NON-KEY	DEC 9(7).9(8)	IN 800):
900*	PWS-HISTORY	(	SR	IN 100):
901*	PWS-HIST-CHANGED-ITEM	(	CHAR X(4)	IN 900):
903*	PWS-HIST-CHANGE-DATE	(NON-KEY	DATE	IN 900):
905*	PWS-HIST-OLD-VALUE	(NON-KEY	CHAR X(20)	IN 900):
907*	PWS-HIST-NEW-VALUE	(NON-KEY	CHAR X(20)	IN 900):
1000*	NON-COMPLIANCE-DATA	(	SR	IN 100):
1001*	NCD-RECON-FLAG	(	CHAR X(1)	IN 1000):
1100*	VIOLATION-DATA	(	SR	IN 1000):
1101*	VIO-ID	(NON-KEY	CHAR X(7)	IN 1100):
1103*	VIO-CONTAMINANT	(	CHAR X(4)	IN 1100):
1105*	VIO-TYPE	(	CHAR X(2)	IN 1100):
1107*	VIO-COMP-PERIOD-BEGIN-DATE	(	DATE	IN 1100):
1109*	VIO-COMP-PERIOD-END-DATE	(	DATE	IN 1100):
1111*	VIO-COMP-PERIOD-MONTHS	(NON-KEY	INT 9(3)	IN 1100):
1115*	VIO-AWARE-DATE	(	DATE	IN 1100):
1117*	VIO-INSERT-DATE	(	DATE	IN 1100):
1121*	VIO-ANALYSIS-METHOD	(NON-KEY	CHAR X(3)	IN 1100):
1123*	VIO-ANALYSIS-RESULT	(NON-KEY	DEC 9(7).9(8)	IN 1100):
1125*	VIO-MCL-VIOLATED	(NON-KEY	DEC 9(7).9(8)	IN 1100):
1127*	VIO-SAMPLES-REQUIRED	(NON-KEY	INT 9(3)	IN 1100):
1129*	VIO-SAMPLES-TAKEN	(NON-KEY	INT 9(3)	IN 1100):
1131*	VIO-MAJOR-VIOLATION-FLAG	(	CHAR X(1)	IN 1100):
1133*	VIO-LAST-UPDATE	(	DATE	IN 1100):
1135*	VIO-FY	(	INT 9(2)	IN 1100):
1137*	VIO-DATA-ORIGIN	(NON-KEY	CHAR X(1)	IN 1100):
1143*	VIO-SE-ID	(NON-KEY	INT 9(3)	IN 1100):
1180*	VIO-ENFORCEMENTS	(	SR	IN 1100):
1181*	VIO-LINK-ENF-ID	(NON-KEY	CHAR X(7)	IN 1180):
1183*	VIO-LINK-ENF-DATE	(NON-KEY	DATE	IN 1180):
1185*	VIO-LINK-FOLLOW-UP-ACTION	(	CHAR X(3)	IN 1180):

Section I B. Data Base Definition (continued)

1200*	ENFORCEMENT-DATA	(	SR	IN 1000):
1201*	ENF-ID	(NON-KEY	CHAR X(7)	IN 1200):
1203*	ENF-ACTION-DATE	(	DATE	IN 1200):
1205*	ENF-FOLLOW-UP-ACTION	(	CHAR X(3)	IN 1200):
1207*	ENF-LAST-UPDATE	(	DATE	IN 1200):
1209*	ENF-FY	(	INT 9(2)	IN 1200):
1211*	ENF-DATA-ORIGIN	(	CHAR X(1)	IN 1200):
1213*	ENF-INSERT-DATE	(NON-KEY	DATE	IN 1200):
1215*	ENF-COMMENT	(NON-KEY	CHAR X(4)	IN 1200):
1280*	ENF-VIOLATIONS	(	SR	IN 1200):
1281*	ENF-LINK-VIO-ID	(NON-KEY	CHAR X(7)	IN 1280):
1283*	ENF-LINK-RANGE-BEGIN	(NON-KEY	DATE	IN 1280):
1285*	ENF-LINK-RANGE-END	(NON-KEY	DATE	IN 1280):
1287*	ENF-LINK-PERIOD-BEGIN	(NON-KEY	DATE	IN 1280):
1289*	ENF-LINK-VIO-TYPE	(NON-KEY	CHAR X(2)	IN 1280):
1291*	ENF-LINK-CONTAMINANT	(NON-KEY	CHAR X(4)	IN 1280):
1293*	ENF-LINK-TYPE	(	CHAR X(1)	IN 1280):
1300*	NCP-CNTL-NODE	(	SR	IN 1000):
1350*	NON-COMPLIANCE-PROFILE	(	SR	IN 1300):
1351*	NCP-WINDOW-BEGIN-YYMM	(	INT 9(4)	IN 1350):
1353*	NCP-WINDOW-MONTHS	(NON-KEY	INT 9(3)	IN 1350):
1355*	NCP-WINDOW-PURPOSE	(NON-KEY	CHAR X(4)	IN 1350):
1357*	NCP-CONTAMINANT	(	CHAR X(4)	IN 1350):
1359*	NCP-MCL-VIOLATIONS	(NON-KEY	INT 9(3)	IN 1350):
1361*	NCP-MCL-DURATION	(NON-KEY	INT 9(3)	IN 1350):
1363*	NCP-MON-VIOLATIONS	(NON-KEY	INT 9(3)	IN 1350):
1365*	NCP-MON-DURATION	(NON-KEY	INT 9(3)	IN 1350):
1367*	NCP-ENF-ACTIONS	(NON-KEY	INT 9(3)	IN 1350):
2000*	SAMPLE-DATA-CNTL-NODE	(	SR	IN 100):
2100*	SAMPLE-DATA	(	SR	IN 2000):
2101*	SAMPLE-ID	(NON-KEY	CHAR X(5)	IN 2100):
2103*	SAMPLE-BEGIN-DATE	(NON-KEY	DATE	IN 2100):
2105*	SAMPLE-END-DATE	(NON-KEY	DATE	IN 2100):
2107*	SAMPLE-CONTAMINANT	(	CHAR X(4)	IN 2100):
2111*	SAMPLE-ANALYSIS-RESULT	(NON-KEY	DEC 9(7).9(8)	IN 2100):
2117*	SAMPLE-FY	(	INT 9(2)	IN 2100):
2119*	SAMPLE-SE-ID	(NON-KEY	INT 9(3)	IN 2100):
3000*	VARIANCE-EXEMPTION-DATA	(	SR	IN 100):
3001*	VE-ID	(NON-KEY	CHAR X(7)	IN 3000):
3003*	VE-CONTAMINANT	(NON-KEY	CHAR X(4)	IN 3000):
3005*	VE-RECORD-TYPE	(	CHAR X(2)	IN 3000):
3007*	VE-EFFECTIVE-DATE	(NON-KEY	DATE	IN 3000):
3009*	VE-EXPIRATION-DATE	(NON-KEY	DATE	IN 3000):
3011*	VE-STATUS-CODE	(NON-KEY	CHAR X(1)	IN 3000):
3013*	VE-MOD-MCL	(NON-KEY	DEC 9(7).9(8)	IN 3000):
3015*	VE-TREATMENT-PROCESS	(NON-KEY	INT 9(3)	IN 3000):
3017*	VE-ALT-PROCESS	(NON-KEY	INT 9(3)	IN 3000):
3019*	VE-REASON-CODE	(NON-KEY	INT 9(3)	IN 3000):

Section I B. Data Base Definition (continued)

3021*	VE-LAST-UPDATE	(	DATE	IN 3000):
3023*	VE-FY	(	INT 9(2)	IN 3000):
3025*	VE-DATA-ORIGIN	(NON-KEY	CHAR X(1)	IN 3000):
3027*	VE-VUL-FLAG	(NON-KEY	CHAR X(1)	IN 3000):
3029*	VE-ALT-MON-FREQ	(NON-KEY	INT 9(3)	IN 3000):
3031*	VE-SE-ID	(NON-KEY	INT 9(3)	IN 3000):
3033*	VE-INSERT-DATE	(NON-KEY	DATE	IN 3000):
3100*	VE-SCHEDULE	(	SR	IN 3000):
3101*	VE-SCHED-ID	(NON-KEY	INT 9(2)	IN 3100):
3103*	VE-SCHED-ACTION	(NON-KEY	CHAR X(2)	IN 3100):
3105*	VE-SCHED-DATE	(NON-KEY	DATE	IN 3100):
3107*	VE-SCHED-ACCOMP-DATE	(NON-KEY	DATE	IN 3100):
4000*	STATE-DISCRETIONARY-DATA	(	SR	IN 100):
4001*	SDD-ID	(NON-KEY	INT 9(3)	IN 4000):
4003*	SDD-NAME	(	CHAR X(4)	IN 4000):
4005*	SDD-VALUE	(NON-KEY	CHAR X(4)	IN 4000):
4007*	SDD-QUANTITY	(NON-KEY	DEC 9(7).9(8)	IN 4000):
4009*	SDD-DATE	(NON-KEY	DATE	IN 4000):
4050*	DBA-DATA	(	SR	IN 100):
4051*	DBA-NAME	(	CHAR X(15)	IN 4050):
4053*	DBA-VALUE	(	CHAR X(4)	IN 4050):
4055*	DBA-DATE	(	DATE	IN 4050):
4057*	DBA-COMMENT	(NON-KEY	CHAR X(4)	IN 4050):
4059*	DBA-ID	(NON-KEY	INT 9(3)	IN 4050):
4061*	DBA-SNC-CRITERIA	(NON-KEY	CHAR X(4)	IN 4050):

Section II

Data Element Descriptions

Section II Data Element Descriptions

Introduction

Section II contains detailed descriptions of the FRDS-II Data Base Records (schema records) and data elements in the FRDS-II Data Base. These descriptions are presented on pages entitled, "FRDS-II Data Element Description".

This introduction is intended to provide a description of the terms used on these pages. Sample pages, II-3 and II-4, have each term annotated as NOTE 1, NOTE 2, etc. An explanation of these notes follows (pages II-5 through II-8). When the "FRDS-II Data Element Description" pages are used to describe Data Base Records, there will be some differences in format. These differences will be identified where applicable.

It should be noted that there are certain terms used on these pages (e.g., "Data Base Family"), that usually are not of concern to most staff personnel actually performing data entry. However, there is general terminology used throughout Section II that DOES apply to both data entry and end users alike. When used in the "Description", "Edit Criteria/Acceptable Values" and "Comments" portions of the Data Element Description pages, the following terms have particular significance:

MUST: When the term "must" (i.e., "must be specified" or "must be valued") is used in conjunction with a particular data element, it implies that an omitted or incorrect data element will cause rejection by the FRDS-II System. Rejection of the data element in question would always be the case and that, in turn, could cause the rejection of an entire Data Base Record.

SHOULD: When the term "should" (i.e., "should be specified" or "should be valued") is used in conjunction with a particular data element, it implies that while a data element is desirable for inclusion into the FRDS-II Data Base, its validity is not checked and no action is taken for its omission.

WILL AUTOMATICALLY BE: When the phrase "will automatically be" is used in conjunction with a particular data element, it implies that the FRDS-II System will determine certain data values during its normal course of operation. The value of other existing data elements or events are considered when determining such data element values. An example of an automatically valued data element is C115 (PWS-POP-CATEGORY), which is based upon the value of C117 (PWS-RETAIL-POP-SERVED).

For additional information and definitions, see Section VIII, "Glossary of Technical and Drinking Water Programmatic Terms."

FRDS-II Data Base Record DescriptionNumber: NOTE 1Name: NOTE 2

• Description:

NOTE 3

• Data Characteristics:

Data Type: RECORDData Base Family: NOTE 8Parent Record: NOTE 7

• Record Contents:

NOTE 16

• Comments:

NOTE 17NOTE 18Effective Date: NOTE 19Release Number: NOTE 20Page: NOTE 21

FRDS-II Data Element DescriptionNumber: NOTE 1Name: NOTE 2• **Description:**NOTE 3• **Source:**• **Data Characteristics****FRDS-II Data Transfer File**

Form ID: NOTE 4
Data Qualifiers: NOTE 5
Maximum Length: NOTE 6

Data Base Record: NOTE 7
Data Base Family: NOTE 8
Data Category: NOTE 9
Data Type: NOTE 10
Picture: NOTE 11

Registration Requirement: NOTE 12
Grant Requirement: NOTE 13
Access: NOTE 14
Code Table ID: NOTE 15

• **Edit Criteria:**Must be specified when ... NOTE 16When specified, ... [E] NOTE 16A• **Comments:**NOTE 17NOTE 18Effective Date: NOTE 19Release Number: NOTE 20Page: NOTE 21

FRDS-II Data Element Description Notes**NOTE 1: (Number)**

A number assigned to a FRDS-II Data Element or Data Base Record.

NOTE 2: (Name)

The name assigned to a FRDS-II Data Element or Data Base Record.

NOTE 3: (Description)

A narrative that describes the FRDS-II Data Element or Data Base Record.

NOTE 4: (FRDS-II Transfer File, Form ID)

A field in the FRDS-II Data Transfer File Record used for the Form ID of the FRDS-II Data Capture Form that contains the data element being described. (Not applicable for Data Base Records.)

NOTE 5: (FRDS-II Transfer File, Data Qualifiers)

The name(s) of the FRDS-II Data Base Record IDs necessary in the FRDS-II Data Transfer File Record, to uniquely identify the Data Base Record containing the described data element. (Not applicable for Data Base Records.)

NOTE 6: (FRDS-II Transfer File, Maximum Length)

The maximum number of positions allowed in the FRDS-II Data Transfer File record for the data element being described. In some cases, this may be larger than the picture size as described in NOTE 11. If this is the case and the data type is CHARACTER, FRDS-II will accommodate the larger size. (Not applicable for Data Base Records.)

NOTE 7: (Data Base Record/Parent Record)

The SYSTEM 2000 component number and name of the FRDS-II Data Base Record in which the data element being described resides. For Data Base Records, this descriptor contains the number and name of the immediate structural ancestor Data Base Record.

NOTE 8: (Data Base Family)

A number that indicates the set of FRDS-II Data Base Records the data element being described belongs to. This information is useful to the FRDS-II user when requesting certain types of reports or formulating complex queries.

NOTE 9: (Data Category)

A 2-digit code used to classify a data element. See Section VII, "References" in the FRDS-II Data Element Dictionary for specific Category Code definitions. (Not applicable for Data Base Records.)

NOTE 10: (Data Type)

Describes the SYSTEM 2000 data type for the data element being described. Valid SYSTEM 2000 data types are: CHARACTER, DATE, TEXT, INTEGER, and DECIMAL. DATE is stored in MMDDYY format and when used for retrieval, should be entered without slashes. For example, June 20, 1988 should be entered 062088. For Data Base Records, the data type will contain RECORD. See Section VIII - "Glossary of Technical and Drinking Water Programmatic Terms".

NOTE 11: (Picture)

Describes the length and format of the data element being described. The letter or number outside the parentheses indicates the format (X=alphanumeric, 9=numeric) and the number inside the parentheses represents the length. The following examples are given:

- An alphanumeric data element of 30 characters would be represented as X(30).
- A 5-digit whole number would be represented as 9(5).
- A 7-digit number with 2 decimal places would be represented as 9(5).9(2).
- A DATE would be represented as 9(6) in the format of MMDDYY.

In FRDS-II, any alphanumeric field that is defined as over four positions in length can accommodate up to 40 characters of input data. See Section VIII - "Glossary of Technical and Drinking Water Programmatic Terms." (Not applicable for Data Base Records.)

NOTE 12: (Registration Requirement)

A number that indicates one of four types of data entry requirements associated with the FRDS-II System. See Section VIII - "Glossary of Technical and Drinking Water Programmatic Terms".

NOTE 13: (Grant Requirement)

Indicates whether the data element or Data Base Record being described is required for the PWS to be included in the calculation of the State's Drinking Water Grant. There are three values that appear here. They are as follows:

- | | |
|-------------|---|
| YES | The data must always be provided. |
| COND | Data COULD be required, depending upon how another data element is valued. An example of this would be; C411 (PWS-SE-SELLER-PWS-ID) is required when a source of water is a purchased source. |
| NO | This data element is not considered in the calculation of the State's Drinking Water Grant. |

NOTE 14: (Access)

Used to indicate whether the data element being described is a data base key or non-key item. Key items are those items for which SYSTEM 2000 will build and maintain indexes. SYSTEM 2000 makes use of those indexes to access appropriate Data Base Records for the user. An item for which an index is created is called a KEY item, implying that it provides easy access to the Data Base Records containing its values. When an item is declared NON-KEY, values for that item are not indexed although they can be used when accessing data in conjunction with KEY items. (Not applicable for Data Base Records.)

NOTE 15: (Code Table ID)

Section VI contains comprehensive lists (i.e., tables) of acceptable code values along with each code's description and other related comments, as appropriate, for each of the FRDS-II data elements that have code values.

NOTE 16: (Edit Criteria/Acceptable Values/Record Contents)

This is used to specify the actual acceptable values and/or the name of a table that contains the acceptable values, for the data element being described. Record Contents is used to list all data elements that are contained in the Data Base Record being described.

NOTE 16A: (Edit/Update Error Codes)

The three-character error code that would appear on the FRDS-II Edit/Update Error Report when the edit criteria rules have been violated. For detailed information on edit/update error codes, see Data Correction: The Trouble Shooter's Guide, which is Appendix B of the *FRDS-II Data Entry Instructions*, Release 2.00.

NOTE 17: (Comments)

Contains any comments pertinent to the data element or Data Base Record being described.

NOTE 18: (Vertical Bar)

Users will note that a vertical bar may appear in the left margin of some pages. This bar is used to identify the location of changes which were made since the prior release of the FRDS-II Data Element Dictionary.

NOTE 19: (Effective Date)

The date that this page of the FRDS-II Data Element Dictionary became effective.

NOTE 20: (Release Number)

The number of the release of this section of the FRDS-II Data Element Dictionary.

NOTE 21: (Page)

The page number.

Name: STATE-SUMMARY

● Description

A SYSTEM 2000 data base record identification number and name.

The C0, STATE-SUMMARY, data base record contains data elements that identify and characterize an individual State's inventory, violation, enforcement action, sample, and variance/exemption/other data.

The FRDS-II Data Base has one STATE-SUMMARY data base record for each of the following governmental jurisdictions:

- the 50 United States
- the District of Columbia
- the U.S. Possessions (American Samoa, Guam, the Northern Mariana Islands, Palau, the Commonwealth of Puerto Rico, and the U.S. Virgin Islands)
- the Freely Associated States (Federated States of Micronesia, and the Marshall Islands)
- 8 EPA regions in which the region has primacy over Indian reservations

Additionally, the FRDS-II Data Base may have one STATE-SUMMARY data base record for each Indian reservation that has been granted primary enforcement responsibility.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>ALL</u>	Parent Record: _____
--------------------------	------------------------------	----------------------

● Record Contents

This data base record contains the following data elements:

- | | |
|------------------------------|-----------------------------|
| ■ C1 ST-REGION-CODE | ■ C13 ST-VIO-LAST-UPDATE |
| ■ C3 ST-STATE-CODE | ■ C15 ST-ENF-LAST-UPDATE |
| ■ C4 ST-IND-RES-CODE | ■ C17 ST-VE-LAST-UPDATE |
| ■ C5 ST-PRIMACY-FLAG | ■ C19 ST-RECON-FLAG |
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C29 ST-SAMPLE-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | |

● Comments

Each data element name contained within the STATE-SUMMARY data base record is prefaced with ... ST-

Name: ST-REGION-CODE

● Description

A computed code value that represents one of the 10 EPA regional offices in which public water systems are located.

The term computed, as used here, implies that this code value is not reported by the State. ST-REGION-CODE is assigned by the FRDS Data Base Administrator.

● Source

FRDS-II Data Transfer File

*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C0</u>	STATE-SUMMARY
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>0001</u>

● Acceptable Values

Entries from the EPA Region Codes (see Section VI; Table 0001):

01 - Boston, EPA Region I	(CT ME MA NH RI VT)
02 - New York, EPA Region II	(NJ NY PR VI)
03 - Philadelphia, EPA Region III	(DC DE MD PA VA WV)
04 - Atlanta, EPA Region IV	(AL FL GA KY MS NC SC TN)
05 - Chicago, EPA Region V	(IL IN MI MN OH WI)
06 - Dallas, EPA Region VI	(AR LA NM OK TX)
07 - Kansas City, EPA Region VII	(IA KS MO NE)
08 - Denver, EPA Region VIII	(CO MT ND SD UT WY)
09 - San Francisco, EPA Region IX	(AS AZ CA FM GU HI MH MP NV PW)
10 - Seattle, EPA Region X	(AK ID OR WA)

● Comments

ST-REGION-CODE is valued with Arabic numerals (01, 02, ..., 10) to identify the EPA regions in the FRDS-II Data Base, and not Roman numerals (I, II, ..., X).

Name: ST-STATE-CODE

● Description

A computed code value that represents a State, EPA region, or Indian reservation, and that describes a governmental jurisdiction in which public water systems are located. Included are:

- the 50 United States
- the District of Columbia
- the U.S. Possessions (American Samoa, Guam, the Northern Mariana Islands, Palau, the Commonwealth of Puerto Rico, and the U.S. Virgin Islands)
- the Freely Associated States (Federated States of Micronesia, and the Marshall Islands)
- 8 EPA regions in which the region has primacy over Indian reservations

Each governmental jurisdiction other than the 50 United States (i.e., the District of Columbia, the U.S. Possessions, the Freely Associated States, Indian reservations, and the EPA regions performing direct implementation) is referred to as a State, by convention and definition.

Public water systems located on an Indian reservation are identified as if they are located within an EPA region (i.e., 02, 04, ... 10), and not within a specific State. Additionally, for public water systems located on an Indian reservation that has been granted primary enforcement responsibility, data element C4, ST-IND-RES-CODE, identifies the reservation.

Since EPA regions I (Boston) and III (Philadelphia) do not have any federally administered Indian reservations within their jurisdictions, ST-STATE-CODE should never be valued with a 01 or 03.

The term computed, as used here, implies that this code value is not reported by the State. ST-STATE-CODE is assigned by the FRDS Data Base Administrator.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** DBA SUPPLIED ***</p>
--

● Data Characteristics

Data Base Record:	<u>C0</u>	<u>STATE-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>0003</u>

● Acceptable Values

Entries from the FIPS PUB 5-2, Alphabetic State Codes and Selected EPA Region Codes (see Section VI; Table 0003)

● Comments

ST-STATE-CODE is valued with Arabic numerals (02, 04, ..., 10) to identify the 8 EPA regions, and not Roman numerals (II, IV, ..., X).

Name: ST-IND-RES-CODE

● Description

A computed code value that identifies an Indian reservation which has been granted primary enforcement responsibility.

The term computed, as used here, implies that this code value is not reported by the State. ST-IND-RES-CODE is assigned by the FRDS Data Base Administrator.

● Source

FRDS-II Data Transfer File

*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C0</u>	<u>STATE-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(7)</u>	Code Table ID: <u>ID01</u>

● Acceptable Values

Entries from the FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes (see Section VI; Table ID01)

● Comments

This data element is valued only when an Indian reservation has been granted primary enforcement responsibility.

Name: ST-PRIMACY-FLAG

● Description

A computed code value that represents whether an EPA region (identified in C1, ST-REGION-CODE), State (identified in C3, ST-STATE-CODE), or Indian reservation (identified in C4, ST-IND-RES-CODE) has been granted primary enforcement responsibility for public water systems.

The term computed, as used here, implies that this code value is not reported by the State. ST-PRIMACY-FLAG is assigned by the FRDS Data Base Administrator.

● Source

<u>FRDS-II Data Transfer File</u> *** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C0</u>	<u>STATE-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0005</u>

● Acceptable Values

Entries from the Primacy Flag Codes (see Section VI; Table 0005):

- 'N' - Native Entity has Primacy (Indian Tribe/Reservation)
- 'R' - EPA Region has Primacy
- 'S' - State Agency has Primacy

● Comments

None

Name: ST-ANY-DATA-LAST-UPDATE

● Description

A computed value that represents the most recent calendar date on which an update was posted to any inventory, violation, enforcement action, sample, or variance/exemption/other data in the FRDS-II Data Base for a State.

This date applies to any update posted to any data element contained in any of the following data base records:

- | | |
|------------------------------------|----------------------------------|
| ■ C100 PWS-SUMMARY | ■ C1200 ENFORCEMENT-DATA |
| ■ C300 PWS-ADDRESS-DATA | ■ C1280 ENF-VIOLATIONS |
| ■ C400 PWS-SOURCE-ENTITY-INFO | |
| ■ C480 PWS-SE-TREATMENT-DATA | ■ C2100 SAMPLE-DATA |
| ■ C500 PWS-GEOGRAPHIC-AREAS-SERVED | |
| ■ C600 PWS-SERVICE-AREAS | ■ C3000 VARIANCE-EXEMPTION-DATA |
| ■ C700 PWS-ON-SITE-VISITS | ■ C3100 VE-SCHEDULE |
| ■ C800 PWS-MILESTONES-EVENTS | |
| ■ C1100 VIOLATION-DATA | ■ C4000 STATE-DISCRETIONARY-DATA |
| ■ C1180 VIO-ENFORCEMENTS | |

The term update, as used here, includes any additions, modifications, or deletions made to any inventory, violation, enforcement action, sample, or variance/exemption/other data in the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. ST-ANY-DATA-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C0 STATE-SUMMARY</u>	
Data Base Family: <u>ALL</u>	Registration Requirement: <u>-</u>
Data Category: <u>60</u>	Grant Requirement: <u>NO</u>
Data Type: <u>DATE</u>	Access: <u>NON-KEY</u>
Picture: <u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

- month, in position 1 - 2;
- day, in position 3 - 4; and
- year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other dates of last update are maintained in the following data elements:

- | | |
|-----------------------------|---------------------------------|
| ■ C9 ST-INV-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C29 ST-SAMPLE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: ST-INV-LAST-UPDATE

● Description

A computed value that represents the most recent calendar date on which an update was posted to any inventory data in the FRDS-II Data Base for a State.

This date applies to any update posted to any data element contained in any of the following data base records:

- C100 PWS-SUMMARY
- C300 PWS-ADDRESS-DATA
- C400 PWS-SOURCE-ENTITY-INFO
- C480 PWS-SE-TREATMENT-DATA
- C500 PWS-GEOGRAPHIC-AREAS-SERVED
- C600 PWS-SERVICE-AREAS
- C700 PWS-ON-SITE-VISITS
- C800 PWS-MILESTONES-EVENTS
- C4000 STATE-DISCRETIONARY-DATA

The term update, as used here, includes any additions, modifications, or deletions made to any inventory data in the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. ST-INV-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<u>FRDS-II Data Transfer File</u> *** GENERATED DATA ITEM ***
--

● Data Characteristics

Data Base Record: <u>C0</u> <u>STATE-SUMMARY</u>	
Data Base Family: <u>ALL</u>	Registration Requirement: <u>-</u>
Data Category: <u>60</u>	Grant Requirement: <u>NO</u>
Data Type: <u>DATE</u>	Access: <u>NON-KEY</u>
Picture: <u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

- month, in position 1 - 2;
- day, in position 3 - 4; and
- year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other dates of last update are maintained in the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C29 ST-SAMPLE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: ST-VIO-LAST-UPDATE

● Description

A computed value that represents the most recent calendar date on which an update was posted to any violation data in the FRDS-II Data Base for a State.

This date applies to any update posted to any data element contained in any of the following data base records:

- C1100 VIOLATION-DATA
- C1180 VIO-ENFORCEMENTS

The term update, as used here, includes any additions, modifications, or deletions made to any violation data in the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. ST-VIO-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p style="text-align: center;"><u>FRDS-II Data Transfer File</u></p> <p style="text-align: center;">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C0</u> <u>STATE-SUMMARY</u>	
Data Base Family: <u>ALL</u>	Registration Requirement: <u>-</u>
Data Category: <u>60</u>	Grant Requirement: <u>NO</u>
Data Type: <u>DATE</u>	Access: <u>NON-KEY</u>
Picture: <u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other dates of last update are maintained in the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C29 ST-SAMPLE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: ST-ENF-LAST-UPDATE

● Description

A computed value that represents the most recent calendar date on which an update was posted to any enforcement action data in the FRDS-II Data Base for a State.

This date applies to any update posted to any data element contained in any of the following data base records:

- C1200 ENFORCEMENT-DATA
- C1280 ENF-VIOLATIONS

The term update, as used here, includes any additions, modifications, or deletions made to any enforcement action data in the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. ST-ENF-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p style="text-align: center;"><u>FRDS-II Data Transfer File</u></p> <p style="text-align: center;">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C0</u>	<u>STATE-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other dates of last update are maintained in the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C29 ST-SAMPLE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: ST-VE-LAST-UPDATE

● Description

A computed value that represents the most recent calendar date on which an update was posted to any variance, exemption, or other event in the FRDS-II Data Base for a State.

This date applies to any update posted to any data element contained in any of the following data base records:

- C3000 VARIANCE-EXEMPTION-DATA
- C3100 VE-SCHEDULE

The term update, as used here, includes any additions, modifications, or deletions made to any variance, exemption, or other event in the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. ST-VE-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C0</u>	<u>STATE-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

- month, in position 1 - 2;
- day, in position 3 - 4; and
- year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other dates of last update are maintained in the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C29 ST-SAMPLE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: ST-RECON-FLAG

● Description

A computed code value that represents whether or not an update has been performed to the FRDS-II Data Base for a State which necessitates the recalculation of any of the various data elements whose values are maintained (i.e., computed) by the FRDS-II computer system.

The term computed, as used here, implies that this code value is not reported by the State. ST-RECON-FLAG is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C0</u>	<u>STATE-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0019</u>

● Acceptable Values

Entries from the State Reconciliation Flag Codes (see Section VI; Table 0019):

- "N" - Reconciliation NOT Needed for State
- "Y" - Reconciliation Needed for State

● Comments

Other reconciliation flags are maintained in the following data elements:

- C171 PWS-RECON-FLAG
- C1001 NCD-RECON-FLAG

Name: ST-SAMPLE-LAST-UPDATE

● Description

A computed value that represents the most recent calendar date on which an update was posted to any sample data in the FRDS-II Data Base for a State.

This date applies to any update posted to any data element contained in the following data base record:

- C2100 SAMPLE-DATA

The term update, as used here, includes any additions, modifications, or deletions made to any sample data in the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. ST-SAMPLE-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record: C0 STATE-SUMMARYData Base Family: ALLRegistration Requirement: -Data Category: 60Grant Requirement: NOData Type: DATEAccess: NON-KEYPicture: MMDDYYCode Table ID: N/A

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other dates of last update are maintained in the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: PWS-SUMMARY**● Description**

A SYSTEM 2000 data base record identification number and name.

The C100, PWS-SUMMARY, data base record contains data elements that serve to identify and characterize a public water system's inventory data. Additional inventory data is stored in the following data base records:

- | | |
|------------------------------------|----------------------------------|
| ■ C300 PWS-ADDRESS-DATA | ■ C600 PWS-SERVICE-AREAS |
| ■ C400 PWS-SOURCE-ENTITY-INFO | ■ C700 PWS-ON-SITE-VISITS |
| ■ C480 PWS-SE-TREATMENT-DATA | ■ C800 PWS-MILESTONES-EVENTS |
| ■ C500 PWS-GEOGRAPHIC-AREAS-SERVED | ■ C4000 STATE-DISCRETIONARY-DATA |

The FRDS-II Data Base has one PWS-SUMMARY data base record for each public water system that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>ALL</u>	Parent Record: <u>C0 STATE-SUMMARY</u>
--------------------------	------------------------------	--

● Record Contents

This data base record contains the following data elements:

- | | |
|-------------------------------|---------------------------------|
| ■ C101 PWS-ID | ■ C139 PWS-SYSTEM-STATE |
| ■ C102 PWS-GRANT-ELIGIBLE | ■ C141 PWS-SYSTEM-ZIP |
| ■ C103 PWS-STATUS | ■ C143 PWS-PHONE |
| ■ C105 PWS-TYPE | ■ C145 PWS-METERS |
| ■ C107 PWS-ACTIVITY-FLAG | ■ C147 PWS-SERVICE-CONNECTIONS |
| ■ C109 PWS-HISTORY-FLAG | ■ C149 PWS-AVG-DAILY-PROD |
| ■ C111 PWS-SYSTEM-BEGIN-Yymm | ■ C151 PWS-TOT-DESIGN-CAPACITY |
| ■ C113 PWS-DEACT-Yymm | ■ C153 PWS-TOT-EMERGENCY-PROD |
| ■ C115 PWS-POP-CATEGORY | ■ C155 PWS-TOT-STORAGE-CAPACITY |
| ■ C117 PWS-RETAIL-POP-SERVED | ■ C157 PWS-MAX-DAILY-PROD |
| ■ C119 PWS-PRIMARY-SOURCE | ■ C159 PWS-SEASON-BEGIN-MMDD |
| ■ C121 PWS-PCT-SURFACE | ■ C161 PWS-SEASON-END-MMDD |
| ■ C123 PWS-PCT-GROUND | ■ C163 PWS-OWNER-TYPE |
| ■ C125 PWS-PCT-PUR-SURFACE | ■ C165 PWS-REGULATING-ENTITY |
| ■ C127 PWS-PCT-PUR-GROUND | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C129 PWS-TREATMENT-CLASS | ■ C168 PWS-INSERT-DATE |
| ■ C131 PWS-SYSTEM-NAME | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C133 PWS-SYSTEM-ADDR-LINE-1 | ■ C171 PWS-RECON-FLAG |
| ■ C135 PWS-SYSTEM-ADDR-LINE-2 | ■ C173 PWS-FYNN-TRACKER |
| ■ C137 PWS-SYSTEM-CITY | |

● Comments

Each data element name contained within the PWS-SUMMARY data base record is prefaced with ... PWS-

At present, there are approximately 345,000 public water systems in the FRDS-II Data Base. Of these, 225,000 public water systems comprise the Current inventory.

Name: PWS-ID

● Description

An alphanumeric value used to uniquely identify a public water system.

A public water system identification code is unique within a State.

PWS-ID is of the form: ss xxxxxxx (space inserted for clarity only)

Where: ss = the FIPS Pub 5-2 State abbreviation in which a public water system is located, or the region number of the EPA region responsible for an Indian reservation
xxxxxxx = a public water system identification code assigned by the State

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>9</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>1</u>
Data Category:	<u>21</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(9)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must always be specified

When specified:

- position 1 - 2 must be equal to the value specified in the State code (C3, ST-STATE-CODE)
- position 3 - 9 must be alphabetic and/or numeric (i.e., contain only '0' through '9', and/or 'A' through 'Z')
- position 3 - 9 must not contain any special characters (e.g., '\$', '.', '-', etc.)
- must not exist in the FRDS-II data base when inserting an inventory record
- must exist in the FRDS-II data base when inserting any record except an inventory record
- must exist in the FRDS-II data base when modifying an inventory record

Each new inventory record must include values for those data elements within the PWS summary record (C100, PWS-SUMMARY) that are identified as Registration Requirement data elements (see "Data Characteristics" on his page) [ERR]

Additionally, each new inventory record must include at least one source record (C400, PWS-SOURCE-ENTITY-INFO with C405, PWS-SE-RECORD-TYPE of "S") [EBA]

● Comments

PWS-ID is a critical identification number within the FRDS-II Data Base. As such, once a PWS ID has been assigned to a public water system, it should never be used to refer to any other public water system within the State.

If a State determines, however, that it is necessary to renumber their public water systems, it is imperative that a one-for-one conversion list be supplied to the FRDS Data Base Administrator prior to reporting any existing public water system that has been assigned a new identification number.

PWS-ID must be valued for a new public water system to be inserted into the FRDS-II Data Base.

Additionally, it is required for a public water system to be grant eligible.

Name: PWS-GRANT-ELIGIBLE

● Description

A computed code value that represents whether or not a public water system will be counted in the computation of a State's grant allocation.

In FRDS-II, certain data elements must have a specific value for a public water system to be counted when the State's grant allocation is computed. If any of these data elements are not valued or the data element does not contain the specific value required, the public water system will not be counted for grant allocation purposes. See Section III., B., for a complete list of these data elements.

The term computed, as used here, implies that this code value is not reported by the State. PWS-GRANT-ELIGIBLE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0102</u>

● Acceptable Values

Entries from the Grant Eligibility Codes (see Section VI; Table 0102):

- *N* - PWS NOT Grant Eligible
- *Y* - PWS Grant Eligible

● Comments

This data element will be valued with the letter "Y" for a public water system that is "Grant Eligible" (i.e., a system that will be counted when the State's grant allocation is computed). Refer to Section III. B. for a list of all data elements that affect the grant eligibility determination.

Name: PWS-STATUS

● Description

A computed code value that represents whether a public water system is:

- A Community, Non-transient Non-community, or Transient Non-community public water system;
- Active or Inactive; and
- In the Current or Historical inventory.

The term *computed*, as used here, implies that this code value is not reported by the State. PWS-STATUS is determined automatically by the FRDS-II computer system during its normal course of operation.

PWS-STATUS is of the form: x y z (spaces inserted for clarity only)

Where: x = a code value that represents Community (C), Non-transient Non-community (P), or Transient Non-community (N)
 y = a code value that represents Active (A) or Inactive (I)
 z = a code value that represents Current (C) or Historical (H)

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	C100	PWS-SUMMARY
Data Base Family:	ALL	Registration Requirement: -
Data Category:	10	Grant Requirement: NO
Data Type:	CHARACTER	Access: KEY
Picture:	X(3)	Code Table ID: 0103

● Acceptable Values

Entries from the PWS Status Codes (see Section VI; Table 0103):

CAC	- CWS, Active, Current	(Community PWSs)
CAH	- CWS, Active, Historical	(Community PWSs)
CIC	- CWS, Inactive, Current	(Community PWSs)
CIH	- CWS, Inactive, Historical	(Community PWSs)
NAC	- TNCWS, Active, Current	(Transient Non-community PWSs)
NAH	- TNCWS, Active, Historical	(Transient Non-community PWSs)
NIC	- TNCWS, Inactive, Current	(Transient Non-community PWSs)
NIH	- TNCWS, Inactive, Historical	(Transient Non-community PWSs)
PAC	- NTNCWS, Active, Current	(Non-transient Non-community PWSs)
PAH	- NTNCWS, Active, Historical	(Non-transient Non-community PWSs)
PIC	- NTNCWS, Inactive, Current	(Non-transient Non-community PWSs)
PIH	- NTNCWS, Inactive, Historical	(Non-transient Non-community PWSs)

● Comments

The data elements that are considered in the computation of this code value are as follows:

- C105 PWS-TYPE
- C107 PWS-ACTIVITY-FLAG
- C109 PWS-HISTORY-FLAG

Name: PWS-TYPE

● Description

A code value that indicates whether a public water system is a Community, a Non-transient Non-community, or a Transient Non-community public water system.

A Community water system means a public water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

A Non-community water system means a public water system that is not a Community water system. Non-community water systems are divided into Non-transient and Transient categories. A Non-transient Non-community water system means a public water system that is not a Community water system and that regularly serves at least 25 of the same persons over 6 months per year. A Transient Non-community water system means a public water system that does not fulfill the requirements to be either a Community or a Non-transient Non-community public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>2</u>
Data Category:	<u>10</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0105</u>

● Edit Criteria

Must be specified when:

- inserting an inventory record
- modifying the current value

When specified:

- must be one of the PWS Type Codes (see Section VI; Table 0105):
 - *C* - Community PWS (CWS)
 - *N* - Transient Non-community PWS (TNCWS)
 - *P* - Non-transient Non-community PWS (NTNCWS)

● Comments

PWS-TYPE is used in the computation of data element C103, PWS-STATUS.

When a Non-transient Non-community or a Transient Non-community public water system is changed to a Community public water system, data elements C159, PWS-SEASON-BEGIN-MMDD, and C161, PWS-SEASON-END-MMDD will automatically be initialized to a -null- value.

PWS-TYPE must be valued for a new public water system to be inserted into the FRDS-II Data Base.

Additionally, it is required for a public water system to be grant eligible.

Name: PWS-ACTIVITY-FLAG

● Description

A code value that represents whether a public water system is Active or Inactive.

The term Active refers to a public water system that is producing water on a regular basis (obtaining, treating, pumping, storing, or distributing).

The term Inactive refers to a public water system that is not an Active public water system. Such systems have discontinued operation.

A public water system that has closed permanently is an obvious example of a system that would be an Inactive system.

A public water system that has closed temporarily, but for a substantial period of time, could be designated as Inactive by the State, but not necessarily so. This decision depends upon State specific policy regarding such systems.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record: <u>C100</u> PWS-SUMMARY	
Data Base Family: <u>ALL</u>	Registration Requirement: <u>2</u>
Data Category: <u>10</u>	Grant Requirement: <u>YES</u>
Data Type: <u>CHARACTER</u>	Access: <u>KEY</u>
Picture: <u>X(1)</u>	Code Table ID: <u>0107</u>

● Edit Criteria

Must be specified when:

- inserting an inventory record
- modifying the current value

When specified:

- must be one of the PWS Activity Flag Codes (see Section VI; Table 0107):
 - 'A' - Active PWS
 - 'I' - Inactive PWS

When deactivating a PWS, the date of deactivation (C113, PWS-DEACT-YYMM) must be specified [E9A].

● Comments

PWS-ACTIVITY-FLAG is used in the computation of data element C103, PWS-STATUS.

If PWS-ACTIVITY-FLAG indicates that the public water system is Inactive, data element C113, PWS-DEACT-YYMM, identifies the date on which the system became Inactive.

When an Inactive public water system is changed to an Active public water system, data element C113, PWS-DEACT-YYMM, will automatically be initialized to a -null- value.

PWS-ACTIVITY-FLAG must be valued for a new public water system to be inserted into the FRDS-II Data Base. Additionally, a public water system must be Active (PWS-ACTIVITY-FLAG = 'A') to be grant eligible.

Name: PWS-HISTORY-FLAG

● Description

A computed code value that represents whether a public water system is in the Current or Historical inventory.

The definition of Current inventory is influenced by whether or not a State submitted a "Total Replacement" to its public water system inventory in the most recent reporting period.

If a State submitted a "Total Replacement," the term Current inventory refers to those public water systems which were reported in that most recent period. Those public water systems that existed in the Current inventory prior to the update, for which a replacement was not submitted, would become part of the Historical inventory.

If a State submitted "updates only" to its inventory in the most recent reporting period, Current inventory refers to those public water systems that existed in the Current inventory prior to the update, plus any new public water systems which were reported in that most recent period.

The term Historical inventory refers to those public water systems that were in the Current inventory at one time, but were assigned to the Historical inventory during the conversion from FRDS 1.5 to FRDS-II, were assigned to the Historical inventory by explicit action of the FRDS Data Base Administrator, or were assigned to the Historical inventory as a result of "Total Replacement" update processing as described above, and, consequently, are no longer part of the Current inventory.

A public water system that has been inactive for a substantial period of time may be assigned to the Historical inventory, at the discretion of the FRDS Data Base Administrator.

Any update input by the State for a public water system in the Historical inventory will cause the system to be transferred to the Current inventory.

The term computed, as used here, implies that this code value is not reported by the State. PWS-HISTORY-FLAG is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0109</u>

● Acceptable Values

Entries from the History Flag Codes (see Section VI; Table 0109):

- "C" - Current Inventory
- "H" - Historical Inventory

● Comments

PWS-HISTORY-FLAG is used in the computation of data element C103, PWS-STATUS.

A public water system must be in the Current inventory (PWS-HISTORY-FLAG = "C") to be grant eligible.

Name: PWS-SYSTEM-BEGIN-YYMM

● Description

A numeric value that represents the calendar year and month in which a public water system initiated operation.

If the calendar date on which a public water system initiated operation is not known, PWS-SYSTEM-BEGIN-YYMM identifies the "best estimate" of when the system initiated operation.

PWS-SYSTEM-BEGIN-YYMM is of the form: yy mm (space inserted for clarity only)

Where: yy = the calendar year in which a public water system initiated operation
mm = the month of the year in which a public water system initiated operation

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>61</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be a four digit numeric calendar date, comprised of:
 - . year, in position 1 - 2; and
 - . month, in position 3 - 4

● Comments

None

Name: PWS-DEACT-YYMM

● Description

A numeric value that represents the calendar year and month in which a public water system was deactivated.

The term deactivated refers to a public water system that has discontinued operation.

A public water system that has closed permanently is an obvious example of a system that would be deactivated by the State.

A public water system that has closed temporarily, but for a substantial period of time, could be deactivated by the State, but not necessarily so. This decision depends upon State specific policy regarding such systems.

PWS-DEACT-YYMM is of the form: yy mm (space inserted for clarity only)

Where: yy = the calendar year in which a public water system was deactivated
mm = the month of the year in which a public water system was deactivated

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>4</u>
Data Category:	<u>61</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting an inventory record for an inactive PWS [E9A]
- modifying the current value

Must not be specified when inserting an inventory record for an active PWS (i.e., C107, PWS-ACTIVITY-FLAG or 'A') [EXI]

When specified:

- must be a four digit numeric calendar date, comprised of:
 - . year, in position 1 - 2, and
 - . month, in position 3 - 4
- must be before the current calendar date [EEA]
- must be greater than the PWS operation begin date (C111, PWS-SYSTEM-BEGIN-YYMM) [EGD]

● Comments

PWS-DEACT-YYMM is not applicable to Active water systems.

Data element C107, PWS-ACTIVITY-FLAG, identifies whether the public water system is Active or Inactive.

When an Inactive public water system is changed to an Active public water system, data element C113, PWS-DEACT-YYMM, will automatically be initialized to a -null- value.

PWS-DEACT-YYMM must be valued for a Inactive public water systems.

Name: PWS-POP-CATEGORY

● Description

A computed code value that represents the specific population range into which the population served by a public water system falls.

The term computed, as used here, implies that this code value is not reported by the State. PWS-POP-CATEGORY is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	C100	PWS-SUMMARY	
Data Base Family:	ALL	Registration Requirement:	-
Data Category:	10	Grant Requirement:	NO
Data Type:	CHARACTER	Access:	KEY
Picture:	X(1)	Code Table ID:	0115

● Acceptable Values

Entries from the Population Category Codes (see Section VI; Table 0115):

'A'	-	Under 101 persons served
'B'	-	101 - 500 persons served
'C'	-	501 - 1,000 persons served
'D'	-	1,001 - 2,500 persons served
'E'	-	2,501 - 3,300 persons served
'F'	-	3,301 - 5,000 persons served
'G'	-	5,001 - 10,000 persons served
'H'	-	10,001 - 50,000 persons served
'I'	-	50,001 - 75,000 persons served
'J'	-	75,001 - 100,000 persons served
'K'	-	Over 100,000 persons served

● Comments

The data element that is considered in the computation of this code value is C117, PWS-RETAIL-POP-SERVED.

Name: PWS-RETAIL-POP-SERVED

● Description

A numeric value that represents the number of retail customers served by a public water system.

In public water systems where large seasonal fluctuations in population occur, PWS-RETAIL-POP-SERVED represents the average number of persons served.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>8</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>2</u>
Data Category:	<u>30</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(8)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting an inventory record
- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]
- must be less than 20000000 (20 million) [EEM]
- must be greater than zero when the Public Water System is not a wholesaler of water (i.e., no occurrence of C603, PWS-SERV-CATEGORY is 'O2') [EGC]
- should be greater than or equal to 25 when the number of service connections (C147, PWS-SERVICE-CONNECTIONS) is less than 15

● Comments

Approximately 15% of the nation's population is served by 85% of the public water systems. Inversely, 85% of the nation's population is served by 15% of the public water systems

PWS-RETAIL-POP-SERVED is used in the computation of data element C115, PWS-POP-CATEGORY.

PWS-RETAIL-POP-SERVED must be valued for a new public water system to be inserted into the FRDS-II Data Base. Additionally, a public water system must serve 25 or more persons, or have 15 or more service connections to be grant eligible (unless they are identified as "wholesalers of water").

Name: PWS-PRIMARY-SOURCE

● Description

A computed code value that represents whether a public water system is a surface water system, a ground water system, a purchased surface water system, or a purchased ground water system.

Determination of primary source is based upon two factors. The type of the source and the availability of the source (e.g., used on a permanent, seasonal, interim, emergency basis).

A specific hierarchy is followed in calculating the primary source. It is as follows:

- 1) Initially, only permanently available sources are examined;
- 2) If a non-purchased surface source is encountered, the public water system is considered to be a surface water system, and the determination process is complete;
- 3) If a purchased surface source is encountered, the public water system is considered to be a purchased surface water system, and the determination process is complete;
- 4) If a non-purchased ground water (UDI) source is encountered, the public water system is considered to be a ground water (UDI) system, and the determination process is complete;
- 5) If a purchased ground water (UDI) source is encountered, the public water system is considered to be a purchased ground water (UDI) system, and the determination process is complete;
- 6) If a non-purchased ground water source is encountered, the public water system is considered to be a ground water system, and the determination process is complete;
- 7) If a purchased ground water source is encountered, the public water system is considered to be a purchased ground water system, and the determination process is complete;
- 8) If there are no permanently available sources, all sources are treated equally, regardless of their individual availability, and steps 2 through 7 are repeated.

The term computed, as used here, implies that this code value is not reported by the State. PWS-PRIMARY-SOURCE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0119</u>

● Acceptable Values

Entries from the Primary Source Type Codes (see Section VI; Table 0119):

- *G* - Groundwater, Non-purchased
- *P* - Surface, Purchased
- *S* - Surface, Non-purchased
- *W* - Groundwater, Purchased
- *Y* - Groundwater (UDI), Non-Purchased
- *Z* - Groundwater (UDI), Purchase

● Comments

The data elements that are considered in the computation of this code value are as follows:

- C405 PWS-SE-RECORD-TYPE
- C407 PWS-SE-CODE
- C409 PWS-SE-AVAILABILITY

Name: PWS-PCT-SURFACE

● Description

A numeric value that represents the percentage of water delivered to the public that is obtained from non-purchased surface water sources used by a public water system.

PWS-PCT-SURFACE is calculated by dividing the quantity of water obtained from all sources into the quantity of water obtained from only non-purchased surface water sources, multiplying the result by 100, and rounding the percentage obtained to the nearest whole percent.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must be between zero and 100, inclusive [EIC]
- the sum of the following data elements should be less than or equal to 100:
 - . C121 PWS-PCT-SURFACE
 - . C123 PWS-PCT-GROUND
 - . C125 PWS-PCT-PUR-SURFACE
 - . C127 PWS-PCT-PUR-GROUND

● Comments

Often, the total quantity of water obtained from all sources and the total quantity of water obtained from only non-purchased surface water sources is unknown. In such cases, PWS-PCT-SURFACE identifies a percentage which reflects a relative order of magnitude (i.e., plus or minus 5%) rather than a precise percentage.

Related percentages should be maintained in the following data elements:

- C123 PWS-PCT-GROUND
- C125 PWS-PCT-PUR-SURFACE
- C127 PWS-PCT-PUR-GROUND

Name: PWS-PCT-GROUND

● Description

A numeric value that represents the percentage of water delivered to the public that is obtained from non-purchased ground water sources used by a public water system.

PWS-PCT-GROUND is calculated by dividing the quantity of water obtained from all sources into the quantity of water obtained from only non-purchased ground water sources, multiplying the result by 100, and rounding the percentage obtained to the nearest whole percent.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must be between zero and 100, inclusive [EIC]
- the sum of the following data elements should be less than or equal to 100:
 - C121 PWS-PCT-SURFACE
 - C123 PWS-PCT-GROUND
 - C125 PWS-PCT-PUR-SURFACE
 - C127 PWS-PCT-PUR-GROUND

● Comments

Often, the total quantity of water obtained from all sources and the total quantity of water obtained from only non-purchased ground water sources is unknown. In such cases, PWS-PCT-GROUND identifies a percentage which reflects a relative order of magnitude (i.e., plus or minus 5%) rather than a precise percentage.

Related percentages should be maintained in the following data elements:

- C121 PWS-PCT-SURFACE
- C125 PWS-PCT-PUR-SURFACE
- C127 PWS-PCT-PUR-GROUND

Name: PWS-PCT-PUR-SURFACE

● Description

A numeric value that represents the percentage of water delivered to the public that is obtained from purchased surface water sources used by a public water system.

PWS-PCT-PUR-SURFACE is calculated by dividing the quantity of water obtained from all sources into the quantity of water obtained from only purchased surface water sources, multiplying the result by 100, and rounding the percentage obtained to the nearest whole percent.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record: C100 PWS-SUMMARY			
Data Base Family:	<u>ALL</u>	Registration Requirement:	<u>-</u>
Data Category:	<u>30</u>	Grant Requirement:	<u>NO</u>
Data Type:	<u>INTEGER</u>	Access:	<u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID:	<u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must be between zero and 100, inclusive [EIC]
- the sum of the following data elements should be less than or equal to 100:
 - . C121 PWS-PCT-SURFACE
 - . C123 PWS-PCT-GROUND
 - . C125 PWS-PCT-PUR-SURFACE
 - . C127 PWS-PCT-PUR-GROUND

● Comments

Often, the total quantity of water obtained from all sources and the total quantity of water obtained from only purchased surface water sources is unknown. In such cases, PWS-PCT-PUR-SURFACE identifies a percentage which reflects a relative order of magnitude (i.e., plus or minus 5%) rather than a precise percentage.

Related percentages should be maintained in the following data elements:

- C121 PWS-PCT-SURFACE
- C123 PWS-PCT-GROUND
- C127 PWS-PCT-PUR-GROUND

Name: PWS-PCT-PUR-GROUND

● Description

A numeric value that represents the percentage of water delivered to the public that is obtained from purchased ground water sources used by a public water system.

PWS-PCT-PUR-GROUND is calculated by dividing the quantity of water obtained from all sources into the quantity of water obtained from only purchased ground water sources, multiplying the result by 100, and rounding the percentage obtained to the nearest whole percent.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must be between zero and 100, inclusive [EIC]
- the sum of the following data elements should be less than or equal to 100:
 - . C121 PWS-PCT-SURFACE
 - . C123 PWS-PCT-GROUND
 - . C125 PWS-PCT-PUR-SURFACE
 - . C127 PWS-PCT-PUR-GROUND

● Comments

Often, the total quantity of water obtained from all sources and the total quantity of water obtained from only purchased ground water sources is unknown. In such cases, PWS-PCT-PUR-GROUND identifies a percentage which reflects a relative order of magnitude (i.e., plus or minus 5%) rather than a precise percentage.

Related percentages should be maintained in the following data elements:

- C121 PWS-PCT-SURFACE
- C123 PWS-PCT-GROUND
- C125 PWS-PCT-PUR-SURFACE

Name: PWS-TREATMENT-CLASS

● Description

A computed code value that represents whether a public water system's source water is treated, untreated, or mixed (treated and untreated).

Treated implies that all source water is subjected to treatment.

Untreated implies that no source water is subjected to treatment.

Mixed implies that multiple sources of water are in use with at least one source of water that is subjected to treatment and at least one source of water that is not subjected to treatment.

The term computed, as used here, implies that this code value is not reported by the State. PWS-TREATMENT-CLASS is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p>FRDS-II Data Transfer File</p> <p>*** GENERATED DATA ITEM ***</p>
--

● Data Characteristics

Data Base Record:	C100	PWS-SUMMARY	
Data Base Family:	ALL	Registration Requirement:	-
Data Category:	10	Grant Requirement:	NO
Data Type:	CHARACTER	Access:	KEY
Picture:	X(1)	Code Table ID:	0129

● Acceptable Values

Entries from the Treatment Class Codes (see Section VI; Table 0129):

- | | |
|-------------------------------|---|
| 'M' - Mixed Treated/Untreated | (Some sources have treatment applied but not all) |
| 'N' - No Treatments Reported | (No sources have any treatments reported) |
| 'T' - Treated | (All sources have treatment applied) |
| 'U' - Untreated | (No sources have treatment applied) |

● Comments

The data elements that are considered when this code value is computed are as follows:

- C405 PWS-SE-RECORD-TYPE
- C407 PWS-SE-CODE
- C483 PWS-SE-TREATMENT-OBJECTIVE
- C485 PWS-SE-TREATMENT-PROCESS

Name: PWS-SYSTEM-NAME

● Description

An alphanumeric value that represents the name of a public water system.

The system name can be the formal, legal, or common name that is used most generally in referring to a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(30)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Where multiple facilities exist for a public water system at different physical locations, PWS-SYSTEM-NAME identifies the name by which the system, as a whole, is generally known.

PWS-SYSTEM-NAME must be valued for a public water system to be grant eligible.

Name: PWS-SYSTEM-ADDR-LINE-1

● Description

An alphanumeric value that represents the first line of an address applicable to a public water system.

PWS-SYSTEM-ADDR-LINE-1 can be the name of a responsible person or agency, or it can be an address line applicable to the actual physical location of a public water system.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A1</u>
Data Qualifiers:	<u>PWS-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Where multiple facilities exist for a public water system at different physical locations, PWS-SYSTEM-ADDR-LINE-1 identifies the responsible person, agency, or address information that is applicable to the location of the primary facility of the system.

This address line should be specified only as needed. If a responsible person or agency is unavailable and the street address consists of a single line, C135, PWS-SYSTEM-ADDR-LINE-2 is used.

Other parts of the system address are maintained in the following data elements:

- C135 PWS-SYSTEM-ADDR-LINE-2
- C137 PWS-SYSTEM-CITY
- C139 PWS-SYSTEM-STATE
- C141 PWS-SYSTEM-ZIP

Name: PWS-SYSTEM-ADDR-LINE-2

● Description

An alphanumeric value that represents the second line of an address applicable to a public water system.

PWS-SYSTEM-ADDR-LINE-2 is the street address, rural route, etc., that is applicable to the actual physical location of a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(30)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Where multiple facilities exist for a public water system at different physical locations, PWS-SYSTEM-ADDR-LINE-2 identifies the address information that is applicable to the location of the primary facility of the system.

Since this value should represent the actual, physical location of the public water system, post office box and other non-locational designations should not be used.

Other parts of the system address are maintained in the following data elements:

- C133 PWS-SYSTEM-ADDR-LINE-1
- C137 PWS-SYSTEM-CITY
- C139 PWS-SYSTEM-STATE
- C141 PWS-SYSTEM-ZIP

Name: PWS-SYSTEM-CITY

● Description

An alphanumeric value that represents the city in which a public water system is physically located.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(15)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Where multiple facilities exist for a public water system at different physical locations, PWS-SYSTEM-CITY identifies the city which is applicable to the physical location of the primary facility of the system.

Other parts of the system address are maintained in the following data elements:

- C133 PWS-SYSTEM-ADDR-LINE-1
- C135 PWS-SYSTEM-ADDR-LINE-2
- C139 PWS-SYSTEM-STATE
- C141 PWS-SYSTEM-ZIP

PWS-SYSTEM-CITY must be valued for a public water system to be grant eligible.

Name: PWS-SYSTEM-STATE

● Description

A code value that represents the U.S. Postal Service (USPS) State abbreviation in which a public water system is physically located.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>ID02</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the USPS Postal State Codes (see Section VI; Table ID02)
- should be the same as position 1 - 2 of C101, PWS-ID, (unless the system is under EPA regional primacy)

Additionally, within an address, the State code and position 1 of the USPS ZIP Code must agree [E9B]

● Comments

Where multiple facilities exist for a public water system at different physical locations, PWS-SYSTEM-STATE identifies the USPS State abbreviation which is applicable to the physical location of the primary facility of the system.

Other parts of the system address are maintained in the following data elements:

- C133 PWS-SYSTEM-ADDR-LINE-1
- C135 PWS-SYSTEM-ADDR-LINE-2
- C137 PWS-SYSTEM-CITY
- C141 PWS-SYSTEM-ZIP

PWS-SYSTEM-STATE must be valued for a public water system to be grant eligible.

Name: PWS-SYSTEM-ZIP

● Description

An alphanumeric value that represents the U.S. Postal Service (USPS) ZIP code in which a public water system is physically located.

PWS-SYSTEM-ZIP is of the form: zzzzz eeee (space inserted for clarity only)

Where: zzzzz = the ZIP code

eeee = the ZIP+4 optional ZIP code extension

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>9</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>70</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(5)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be a 5 or 9 digit integer number
- must be greater than zero

Additionally, within an address, the State code and position 1 of the USPS ZIP Code must agree [E9B]

● Comments

Where multiple facilities exist for a public water system at different physical locations, PWS-SYSTEM-ZIP identifies the ZIP code which is applicable to the physical location of the primary facility of the system.

Other parts of the system address are maintained in the following data elements:

- C133 PWS-SYSTEM-ADDR-LINE-1
- C135 PWS-SYSTEM-ADDR-LINE-2
- C137 PWS-SYSTEM-CITY
- C139 PWS-SYSTEM-STATE

PWS-SYSTEM-ZIP must be valued for a public water system to be grant eligible.

Name: PWS-PHONE

● Description

An alphanumeric value that represents the telephone number of a public water system or the system's primary contact.

PWS-PHONE is of the form: aaa eee nnnn (spaces inserted for clarity only)

Where: aaa = the telephone area code
 eee = the telephone exchange
 nnnn = the telephone number

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>10</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>71</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(10)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value
- positions 1 through 3 (i.e., area code) should be valid for the system state (i.e., C139, PWS-SYSTEM-STATE) if a complete telephone number is specified

● Comments

Where multiple facilities exist for a public water system at different physical locations, PWS-PHONE identifies the telephone number which is applicable to the primary facility of, or the principal contact for, the system.

Name: PWS-METERS

● Description

A numeric value that represents the number of water meters that a public water system had attached to its retail service connections in the most recent year.

● Source *** NOT ON INPUT FORM ***

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>7</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(7)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]
- should be less than or equal to the number of service connections (C147, PWS-SERVICE-CONNECTIONS)

● Comments

Although this data is maintained in the FRDS-II Data Base, no provision has been made on any FRDS-II data capture form for its input. Updates to this data can be made only through the submission of new or corrected values via the FRDS-II Data Transfer File (DTF) format.

Name: PWS-SERVICE-CONNECTIONS

● Description

A numeric value that represents the number of retail service connections that a public water system had in the most recent year.

In general, a service connection is the point at which the water distribution system pipe connects to a water meter in a building, home, or the like. This explanation is not completely comprehensive, however, since water meters are not always utilized. The following example best illustrates this factor.

- An apartment building that pays a single water bill for all of its residents (regardless of the number of residents) is said to have a single service connection
- A duplex, whose 2 residents each pay their own water bill, is said to have 2 service connections

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>7</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>2</u>
Data Category:	<u>30</u>	Grant Requirement: <u>YES</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(7)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting an inventory record
- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]
- must be greater than zero when the Public Water System is not a wholesaler of water (i.e., no occurrence of C803, PWS-SERV-CATEGORY is "O2") [EGC]
- should be greater than or equal to the number of meters (C145, PWS-METERS)
- should be greater than or equal to 15 when the retail population served (C117, PWS-RETAIL-POP-SERVED) is less than 25 (unless the PWS is a wholesaler of water)

● Comments

Generally speaking, there are approximately 3.5 persons served per each retail service connection.

PWS-SERVICE-CONNECTIONS must be valued for a new public water system to be inserted into the FRDS-II Data Base. Additionally, a public water system must have 15 or more service connections, or serve 25 or more persons to be grant eligible (unless they are identified as "wholesalers of water").

Name: PWS-AVG-DAILY-PROD

● Description

A numeric value that represents the average daily quantity of water that was produced by a public water system in the most recent year.

The unit of measurement for PWS-AVG-DAILY-PROD is gallons per day.

PWS-AVG-DAILY-PROD is calculated by adding together the total gallons of water produced in a year by each treatment or pumping facility, and dividing that sum by the total number of days that at least one treatment or pumping facility was in operation.

● Source *** NOT ON INPUT FORM ***

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>10</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(10)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]
- should be less than or equal to C157, PWS-MAX-DAILY-PROD

● Comments

Although this data is maintained in the FRDS-II Data Base, no provision has been made on any FRDS-II data capture form for its input. Updates to this data can be made only through the submission of new or corrected values via the FRDS-II Data Transfer File (DTF) format.

Other capacity information is maintained in the following data elements:

- C151 PWS-TOT-DESIGN-CAPACITY
- C153 PWS-TOT-EMERGENCY-PROD
- C155 PWS-TOT-STORAGE-CAPACITY
- C157 PWS-MAX-DAILY-PROD

Treatment and pumping facilities are also known in FRDS-II as entities.

Name: PWS-TOT-DESIGN-CAPACITY

● Description

A numeric value that represents the total quantity of water that a public water system was designed and approved to produce.

The unit of measurement for PWS-TOT-DESIGN-CAPACITY is gallons per day.

PWS-TOT-DESIGN-CAPACITY is calculated by adding together the approved design capacity of each treatment or pumping facility.

● Source *** NOT ON INPUT FORM ***

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>10</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(10)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]

● Comments

Although this data is maintained in the FRDS-II Data Base, no provision has been made on any FRDS-II data capture form for its input. Updates to this data can be made only through the submission of new or corrected values via the FRDS-II Data Transfer File (DTF) format.

Other capacity information is maintained in the following data elements:

- C149 PWS-AVG-DAILY-PROD
- C153 PWS-TOT-EMERGENCY-PROD
- C155 PWS-TOT-STORAGE-CAPACITY
- C157 PWS-MAX-DAILY-PROD

Treatment and pumping facilities are also known in FRDS-II as entities.

Name: PWS-TOT-EMERGENCY-PROD

● Description

A numeric value that represents the total quantity of water that can be produced by a public water system using emergency power generation equipment under its control.

The unit of measurement for PWS-TOT-EMERGENCY-PROD is gallons per day.

PWS-TOT-EMERGENCY-PROD is calculated by adding together the emergency power production capacity of each treatment or pumping facility.

● Source *** NOT ON INPUT FORM ***

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>10</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(10)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]
- should be less than or equal to the maximum daily production (C157, PWS-MAX-DAILY-PROD)

● Comments

Although this data is maintained in the FRDS-II Data Base, no provision has been made on any FRDS-II data capture form for its input. Updates to this data can be made only through the submission of new or corrected values via the FRDS-II Data Transfer File (DTF) format.

Other capacity information is maintained in the following data elements:

- C149 PWS-AVG-DAILY-PROD
- C151 PWS-TOT-DESIGN-CAPACITY
- C155 PWS-TOT-STORAGE-CAPACITY
- C157 PWS-MAX-DAILY-PROD

Treatment and pumping facilities are also known in FRDS-II as entities.

Name: PWS-TOT-STORAGE-CAPACITY

● Description

A numeric value that represents the total quantity of water that can be stored by a public water system.

The unit of measurement for PWS-TOT-STORAGE-CAPACITY is gallons.

PWS-TOT-STORAGE-CAPACITY is calculated by adding together the storage capacity of each water storage facility.

● Source *** NOT ON INPUT FORM ***

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
Maximum Length:	<u>10</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(10)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]

● Comments

Although this data is maintained in the FRDS-II Data Base, no provision has been made on any FRDS-II data capture form for its input. Updates to this data can be made only through the submission of new or corrected values via the FRDS-II Data Transfer File (DTF) format.

Other capacity information is maintained in the following data elements:

- C149 PWS-AVG-DAILY-PROD
- C151 PWS-TOT-DESIGN-CAPACITY
- C153 PWS-TOT-EMERGENCY-PROD
- C157 PWS-MAX-DAILY-PROD

Water storage facilities are also known in FRDS-II as entities.

Name: PWS-MAX-DAILY-PROD

● Description

A numeric value that represents the maximum daily quantity of water that can be produced by a public water system.

The unit of measurement for PWS-MAX-DAILY-PROD is gallons per day.

PWS-MAX-DAILY-PROD is calculated by adding together the maximum daily production capacity of each treatment or pumping facility.

● Source *** NOT ON INPUT FORM ***

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>10</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(10)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must not be a negative number [EGA]
- should be greater than or equal to the average daily production (C149, PWS-AVG-DAILY-PROD)
- should be greater than or equal to the total emergency production (C153, PWS-TOT-EMERGENCY-PROD)

● Comments

Although this data is maintained in the FRDS-II Data Base, no provision has been made on any FRDS-II data capture form for its input. Updates to this data can be made only through the submission of new or corrected values via the FRDS-II Data Transfer File (DTF) format.

Other capacity information is maintained in the following data elements:

- C149 PWS-AVG-DAILY-PROD
- C151 PWS-TOT-DESIGN-CAPACITY
- C153 PWS-TOT-EMERGENCY-PROD
- C155 PWS-TOT-STORAGE-CAPACITY

Treatment and pumping facilities are also known in FRDS-II as entities.

Name: PWS-SEASON-BEGIN-MMDD

● Description

A numeric value that represents the calendar month and day on which a Non-transient Non-community or a Transient Non-community public water system's season of operation commences.

PWS-SEASON-BEGIN-MMDD is of the form: mm dd (space inserted for clarity only)

Where: mm = the calendar month in which a Non-transient Non-community or a Transient Non-community public water system commences operation
dd = the day of the month on which a Non-transient Non-community or a Transient Non-community public water system commences operation

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	PWS-SUMMARY
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>62</u>	Grant Requirement: <u>COND</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the season end date (C161, PWS-SEASON-END-MMDD) has been specified

Must not be specified when inserting or modifying a community water system (i.e., C105, PWS-TYPE or 'C') [EXE]

When specified:

- must be a four digit numeric calendar date, comprised of:
 - month, in position 1 - 2; and
 - day of the month, in position 3 - 4

● Comments

PWS-SEASON-BEGIN-MMDD is not applicable to Community water systems.

The ending date of a Non-community system's season is maintained in data element C161, PWS-SEASON-END-MMDD.

When a Non-transient Non-community or a Transient Non-community public water system is changed to a Community public water system, PWS-SEASON-BEGIN-MMDD will automatically be initialized to a -null- value.

A Non-community (Non-transient and transient) public water system must operate for a minimum period of time (as defined by the season begin and end dates) to be grant eligible. The minimum period of time is:

- 60 days for a Transient Non-community public water system; or
- 180 days for a Non-transient Non-community public water system.

Name: PWS-SEASON-END-MMDD

● Description

A numeric value that represents the calendar month and day on which a Non-transient Non-community or a Transient Non-community public water system's season of operation ceases.

PWS-SEASON-END-MMDD is of the form: mm dd (space inserted for clarity only)

Where: mm = the calendar month in which a Non-transient Non-community or a Transient Non-community public water system ceases operation

dd = the day of the month on which a Non-transient Non-community or a Transient Non-community public water system ceases operation

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>62</u>	Grant Requirement: <u>COND</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the season begin date (C159, PWS-SEASON-BEGIN-MMDD) has been specified

Must not be specified when inserting or modifying a community water system (i.e., C105, PWS-TYPE or "C") [EXE]

When specified:

- must be a four digit numeric calendar date, comprised of.
 - . month, in position 1 - 2, and
 - . day of the month, in position 3 - 4

● Comments

PWS-SEASON-END-MMDD is not applicable to Community water systems.

The beginning date of a Non-community system's season is maintained in data element C159, PWS-SEASON-BEGIN-MMDD.

When a Non-transient Non-community or a Transient Non-community public water system is changed to a Community public water system, PWS-SEASON-END-MMDD will automatically be initialized to a -null- value.

A Non-community (Non-transient and transient) public water system must operate for a minimum period of time (as defined by the season begin and end dates) to be grant eligible. The minimum period of time is

- 60 days for a Transient Non-community public water system; or
- 180 days for a Non-transient Non-community public water system.

Name: PWS-OWNER-TYPE

● Description

A code value that identifies the type of owner of a public water system.

Examples of PWS-OWNER-TYPE include owner's such as a city, a county, a State, the Federal government, an investor, a licensed public utility, etc.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0163</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the PWS Owner Type Codes (see Section VI; Table 0163):
 - '+' - Not Reported by State ('+' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.)
 - '1' - Federal Government
 - '2' - Private (Subdivisions, Investors, Trusts, Cooperatives, Water Associations, etc.)
 - '3' - State Government
 - '4' - Local Government (Authorities, Commissions, Districts, Municipalities, Cities, Towns, Counties, etc.)
 - '5' - Mixed Public/Private
 - '6' - Native American (Indian Tribes & Reservations, Alaska Remote Villages)

● Comments

None

Name: PWS-REGULATING-ENTITY

● Description

A code value that represents whether a public water system is regulated by Federal, State, both Federal and State, or neither Federal nor State drinking water regulations.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u> </u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0165</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the Regulating Entity Codes (see Section VI; Table 0165):
 - 'B' - Both State & Federal Governments
 - 'F' - Federal Government Only
 - 'N' - Neither State nor Federal Govt.
 - 'S' - State Government Only

● Comments

None

Name: PWS-INV-LAST-UPDATE

● Description

A computed value that represents the calendar date on which a public water system was initially posted to the FRDS-II Data Base or when a subsequent State-supplied inventory modification was made.

This date applies to any update posted to any data element contained in any of the following data base records:

- C100 PWS-SUMMARY
- C300 PWS-ADDRESS-DATA
- C400 PWS-SOURCE-ENTITY-INFO
- C480 PWS-SE-TREATMENT-DATA
- C500 PWS-GEOGRAPHIC-AREAS-SERVED
- C600 PWS-SERVICE-AREAS
- C700 PWS-ON-SITE-VISITS
- C800 PWS-MILESTONES-EVENTS
- C4000 STATE-DISCRETIONARY-DATA

The term update, as used here, includes any additions, modifications, or deletions made to any inventory data in the FRDS-II Data Base for this public water system.

The term computed, as used here, implies that this date is not reported by the State. PWS-INV-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation when a new public water system is inserted into the FRDS-II Data Base or when any inventory data is subsequently modified.

● Source

<p style="text-align: center;"><u>FRDS-II Data Transfer File</u></p> <p style="text-align: center;">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other last update dates are maintained in the following data elements:

- C7 ST-ANY-DATA-LAST-UPDATE
- C9 ST-INV-LAST-UPDATE
- C13 ST-VIO-LAST-UPDATE
- C15 ST-ENF-LAST-UPDATE
- C17 ST-VE-LAST-UPDATE
- C29 ST-SAMPLE-LAST-UPDATE
- C169 PWS-ANY-DATA-LAST-UPDATE
- C1133 VIO-LAST-UPDATE
- C1207 ENF-LAST-UPDATE
- C3021 VE-LAST-UPDATE

Name: PWS-INSERT-DATE

● Description

A computed value that represents the calendar date on which a public water system was initially posted to the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. PWS-INSERT-DATE is determined automatically by the FRDS-II computer system during its normal course of operation when a new public water system is inserted into the FRDS-II Data Base.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is valued for State reported data only (i.e., data submitted via DTF transactions).

Other insert dates are maintained in the following data elements:

- | | |
|----------------------------------|-------------------------|
| ■ C811 PWS-MILESTONE-INSERT-DATE | ■ C1213 ENF-INSERT-DATE |
| ■ C1117 VIO-INSERT-DATE | ■ C3033 VE-INSERT-DATE |

Name: PWS-ANY-DATA-LAST-UPDATE

● Description

A computed value that represents the most recent calendar date on which an update was posted to any inventory, violation, enforcement action, sample, or variance/exemption/other data in the FRDS-II Data Base for this public water system.

This date applies to any update posted to any data element contained in any of the following data base records:

- | | |
|------------------------------------|----------------------------------|
| ■ C100 PWS-SUMMARY | ■ C1200 ENFORCEMENT-DATA |
| ■ C300 PWS-ADDRESS-DATA | ■ C1280 ENF-VIOLATIONS |
| ■ C400 PWS-SOURCE-ENTITY-INFO | |
| ■ C480 PWS-SE-TREATMENT-DATA | ■ C2100 SAMPLE-DATA |
| ■ C500 PWS-GEOGRAPHIC-AREAS-SERVED | |
| ■ C600 PWS-SERVICE-AREAS | ■ C3000 VARIANCE-EXEMPTION-DATA |
| ■ C700 PWS-ON-SITE-VISITS | ■ C3100 VE-SCHEDULE |
| ■ C800 PWS-MILESTONES-EVENTS | |
| ■ C1100 VIOLATION-DATA | ■ C4000 STATE-DISCRETIONARY-DATA |
| ■ C1180 VIO-ENFORCEMENTS | |

The term update, as used here, includes any additions, modifications, or deletions made to any inventory, violation, enforcement action, sample, or variance/exemption/other data in the FRDS-II Data Base for this public water system.

The term computed, as used here, implies that this date is not reported by the State. PWS-ANY-DATA-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C100 PWS-SUMMARY</u>	
Data Base Family: <u>ALL</u>	Registration Requirement: <u>-</u>
Data Category: <u>60</u>	Grant Requirement: <u>NO</u>
Data Type: <u>DATE</u>	Access: <u>KEY</u>
Picture: <u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other dates of last update are maintained in the following data elements:

- | | |
|------------------------------|-----------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C29 ST-SAMPLE-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: PWS-RECON-FLAG

● Description

A computed code value that represents whether or not an update has been performed to the FRDS-II Data Base for a public water system which necessitates the recalculation of any of the various data elements whose values are maintained (i.e., computed) by the FRDS-II computer system.

The term computed, as used here, implies that this code value is not reported by the State.

PWS-RECON-FLAG is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C100</u>	<u>PWS-SUMMARY</u>
Data Base Family:	<u>ALL</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0171</u>

● Acceptable Values

Entries from the PWS Reconciliation Flag Codes (see Section VI; Table 0171):

- "N" - Reconciliation NOT Needed for PWS
- "Y" - Reconciliation Needed for PWS

● Comments

Other reconciliation flags are maintained in the following data elements:

- C19 ST-RECON-FLAG
- C1001 NCD-RECON-FLAG

Name: PWS-FYNN-TRACKER

● Description

A computed value that represents the Federal fiscal year(s) in which the associated public water system was included in the State's inventory submittal.

PWS-FYNN-TRACKER is of the format "FYxxFYzz...FYnn", where "xx", "zz", and "nn" represent Federal fiscal years in which the public water system was reported to EPA (Note: only the most recent 15 Federal fiscal years are saved).

Each subsequent Federal fiscal year in which the public water system is reported is concatenated to the other Federal fiscal years in this data element in descending order. For example, if a public water system is first reported in FY88, then in the next five consecutive Federal fiscal years, PWS-FYNN-TRACKER would contain:

FY88FY89FY90FY91FY92

If the public water system is reported again in Federal fiscal year 93, PWS-FYNN-TRACKER would be updated to contain:

FY88FY89FY90FY91FY92FY93

The term computed, as used here, implies that this data is not reported by the State. PWS-FYNN-TRACKER is determined automatically by the FRDS-II computer system during its normal course of operation whenever a public water system is included in a State's inventory submittal.

● Source

<p>FRDS-II Data Transfer File</p> <p>*** GENERATED DATA ITEM ***</p>
--

● Data Characteristics

Data Base Record:	C100	PWS-SUMMARY
Data Base Family:	ALL	Registration Requirement: -
Data Category:	01	Grant Requirement: NO
Data Type:	CHARACTER	Access: NON-KEY
Picture:	X(60)	Code Table ID: N/A

● Acceptable Values

An alphanumeric value

● Comments

This data element is the means by which a user can determine the specific Federal fiscal year(s) in which the public water system was reported to EPA

Name: PWS-ADDRESS-DATA

● Description

A SYSTEM 2000 data base record identification number and name.

The C300, PWS-ADDRESS-DATA, data base record contains data elements that are related to a public water system's addressees and/or facilities.

It is important to note that the term, "public water system's addressees" excludes the system name and address, which is maintained in data elements C131 through C141.

The FRDS-II Data Base has one PWS-ADDRESS-DATA data base record for each addressee and facility related to a public water system that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>1</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
--------------------------	----------------------------	--

● Record Contents

This data base record contains the following data elements:

- | | |
|---------------------------|---------------------------|
| ■ C301 PWS-AD-ID | ■ C309 PWS-AD-ADDR-LINE-2 |
| ■ C303 PWS-AD-TYPE | ■ C311 PWS-AD-CITY |
| ■ C305 PWS-AD-NAME | ■ C313 PWS-AD-STATE |
| ■ C307 PWS-AD-ADDR-LINE-1 | ■ C315 PWS-AD-ZIP |

● Comments

Each data element name contained within the PWS-ADDRESS-DATA data base record is prefaced with: PWS-AD- At least one of the above data elements other than C301 must be valued to have this data base record accepted by FRDS-II.

Name: PWS-AD-ID

● Description

A numeric value used to uniquely identify a specific addressee of, or a facility related to, a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>3</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(1)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting, modifying or deleting an address record

When specified:

- position 1 must be 'G' or numeric
- position 1 must not be 'G' in when modifying or deleting an address record
- and position 1 is "G":
 - position 2 must be numeric
 - position 3 - 7 must be blank
- and position 1 is not "G":
 - position 1 must be numeric
 - position 2 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting an address record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting an address record

Each new address record must include values for those data elements within the address record (C300, PWS-ADDRESS-DATA) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

Additionally, at least one address data element (i.e., C305, PWS-AD-NAME; C307, PWS-AD-ADDR-LINE-1; C309, PWS-AD-ADDR-LINE-2; C311, PWS-AD-CITY; C313, PWS-AD-STATE; or C315, PWS-AD-ZIP) must be valued [E6F]

● Comments

If desired, the user can have the FRDS-II computer system generate a PWS-AD-ID number by specifying a Group Generation Code (GGC) when a new address data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e., Gn, where ... the letter 'G' tells FRDS-II to generate the ID and the 'n' is an arbitrary number assigned to all related C300, PWS-ADDRESS-DATA, data elements so that their logical grouping will remain intact).

PWS-AD-ID must be valued for a new PWS-ADDRESS-DATA data base record to be inserted into the FRDS-II Data Base.

Name: PWS-AD-TYPE

● Description

A code value that represents the type of addressee or facility of a public water system.

Examples of PWS-AD-TYPE include addressee's such as an owner, a treatment facility operator, a primary point of contact, etc.

Other examples of PWS-AD-TYPE include facilities (entities) such as a treatment facility, a pumping facility, a water storage facility, etc.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0303</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the Addressee Type Codes (see Section VI; Table 0303):

- 'D' - Distribution Facility
- 'E' - Employee
- 'L' - Laboratory
- 'M' - Mailing
- 'O' - System Owner/Responsible Party
- 'P' - Pumping Facility
- 'R' - Operator
- 'S' - Storage Facility
- 'T' - Water Treatment Plant/Facility
- 'V' - Vendor
- 'X' - Other

● Comments

If a new PWS-ADDRESS-DATA record is inserted into the FRDS-II Data Base and PWS-AD-TYPE is not supplied by the State, PWS-AD-TYPE will be assigned a value of 'X' (i.e., Other).

Name: PWS-AD-NAME

● Description

An alphanumeric value that represents the name of an addressee or facility associated with a public water system.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(30)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

None

Name: PWS-AD-ADDR-LINE-1

● Description

An alphanumeric value that represents the first line of an address applicable to a public water system addressee or facility.

PWS-AD-ADDR-LINE-1 can be the name of a responsible person or agency, or it can be an additional address line applicable to the location of a public water system addressee or facility.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

This address line should be specified only as needed. If a responsible person or agency is unavailable and the street address consists of a single line, C309, PWS-AD-ADDR-LINE-2 is used.

Other addressee or facility related address data elements are maintained in the following data elements:

- C309 PWS-AD-ADDR-LINE-2
- C311 PWS-AD-CITY
- C313 PWS-AD-STATE
- C315 PWS-AD-ZIP

Name: PWS-AD-ADDR-LINE-2

● Description

An alphanumeric value that represents the second line of an address applicable to a public water system addressee or facility.

PWS-AD-ADDR-LINE-2 is the street address, rural route and box designation, etc., that is applicable to the location of a public water system addressee or facility.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(30)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Other addressee or facility related address data elements are maintained in the following data elements:

- C307 PWS-AD-ADDR-LINE-1
- C311 PWS-AD-CITY
- C313 PWS-AD-STATE
- C315 PWS-AD-ZIP

Name: PWS-AD-CITY

● Description

An alphanumeric value that represents the city in which a public water system addressee or facility is located.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(15)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Other addressee or facility related address data elements are maintained in the following data elements:

- C307 PWS-AD-ADDR-LINE-1
- C309 PWS-AD-ADDR-LINE-2
- C313 PWS-AD-STATE
- C315 PWS-AD-ZIP

Name: PWS-AD-STATE

● Description

A code value that represents the U.S. Postal Service (USPS) State abbreviation in which a public water system addressee or facility is located.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>ID02</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the USPS Postal State Codes (see Section VI; Table ID02)

Additionally, within an address, the State code and position 1 of the USPS ZIP Code must agree [E9B]

● Comments

Other addressee or facility related address data elements are maintained in the following data elements:

- C307 PWS-AD-ADDR-LINE-1
- C309 PWS-AD-ADDR-LINE-2
- C311 PWS-AD-CITY
- C315 PWS-AD-ZIP

Name: PWS-AD-ZIP

● Description

An alphanumeric value that represents the U.S. Postal Service (USPS) ZIP code in which a public water system addressee or facility is located.

PWS-AD-ZIP is of the form: zzzzz eeee (space inserted for clarity only)

Where: zzzzz = the ZIP code

eeee = the ZIP+4 optional ZIP code extension

● Source

FRDS-II Data Transfer File	
Form ID:	<u>A3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-AD-ID</u>
Maximum Length:	<u>9</u>

● Data Characteristics

Data Base Record:	<u>C300</u>	<u>PWS-ADDRESS-DATA</u>
Data Base Family:	<u>1</u>	Registration Requirement: <u>-</u>
Data Category:	<u>70</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(5)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be a 5 or 9 digit integer number
- must be greater than zero

Additionally, within an address, the State code and position 1 of the USPS ZIP Code must agree [E9B]

● Comments

Other addressee or facility related address data elements are maintained in the following data elements:

- C307 PWS-AD-ADDR-LINE-1
- C309 PWS-AD-ADDR-LINE-2
- C311 PWS-AD-CITY
- C313 PWS-AD-STATE

Name: PWS-SOURCE-ENTITY-INFO**● Description**

A SYSTEM 2000 data base record identification number and name.

The C400, PWS-SOURCE-ENTITY-INFO, data base record contains data elements that characterize a source of water that is utilized by, or an entity that is related to, a public water system.

An entity can be any location or facility related to the public water system. Such entities include distribution system entry points, treatment plants, pumping facilities, water storage facilities, and the like.

The FRDS-II Data Base has one PWS-SOURCE-ENTITY-INFO data base record for each source of water utilized by, or entity related to, a public water system that has been reported to EPA.

In order for the FRDS-II computer system to permit the storage of a public water system (i.e., data base registration), at least one PWS-SOURCE-ENTITY-INFO data base record MUST be inserted into the data base with data element C405, PWS-SE-RECORD-TYPE, indicating a source of water (i.e., "S").

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>2</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
--------------------------	----------------------------	--

● Record Contents

This data base record contains the following data elements:

- | | |
|-----------------------------|-------------------------------|
| ■ C401 PWS-SE-ID | ■ C418 PWS-SE-MERIDIAN-NAME |
| ■ C403 PWS-SE-NAME | ■ C419 PWS-SE-TOWNSHIP |
| ■ C405 PWS-SE-RECORD-TYPE | ■ C421 PWS-SE-RANGE |
| ■ C407 PWS-SE-CODE | ■ C423 PWS-SE-SECTION |
| ■ C409 PWS-SE-AVAILABILITY | ■ C425 PWS-SE-QTR-SECTION |
| ■ C411 PWS-SE-SELLER-PWS-ID | ■ C426 PWS-SE-QTR-QTR-SECTION |
| ■ C413 PWS-SE-DATA-ORIGIN | ■ C427 PWS-SE-RIVER-REACH-NUM |
| ■ C415 PWS-SE-LATITUDE | ■ C429 PWS-SE-ON-REACH |
| ■ C417 PWS-SE-LONGITUDE | ■ C431 PWS-SE-REACH-MILES |

● Comments

Each data element name contained within the PWS-SOURCE-ENTITY-INFO data base record is prefaced with ... PWS-SE-

Name: PWS-SE-ID

● Description

A numeric value used to uniquely identify a specific source of water that is utilized by, or an entity (e.g., an entry point, a treatment plant, or other related facility) that is related to, a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>1</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting a source or entity record
- Inserting, modifying or deleting a treatment record

When specified:

- position 1 must be 'G' or position 1 - 3 must be numeric
- position 1 must not be 'G' when modifying or deleting a source or entity record, or a treatment record
- and position 1 is 'G':
 - position 2 - 3 must be numeric
 - position 2 - 3 must be greater than zero
 - position 4 - 7 must be blank
- and position 1 is not 'G':
 - position 1 - 3 must be numeric
 - position 1 - 3 must be between 1 through 949, inclusive
 - position 4 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a source or entity record, or treatment record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a source or entity record
 - the ID must exist in the FRDS-II data base for the PWS or the source or entity record, also, must be specified, when inserting a treatment record

Each new source or entity record must include values for those data elements within the source or entity record (C400, PWS-SOURCE-ENTITY-INFO) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

Additionally, each new inventory record must include at least one source record (C400, PWS-SOURCE-ENTITY-INFO with C405, PWS-SE-RECORD-TYPE of 'S') [E8A]

● Comments

If desired, the user can have the FRDS-II computer system generate a PWS-SE-ID number by specifying a Group Generation Code (GGC) when a new source/entity data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e., Gnn where ... the letter 'G' tells FRDS-II to generate the ID and the 'nn' is an arbitrary number assigned to all related C400, PWS-SOURCE-ENTITY-INFO, data elements so that their logical grouping will remain intact).

Other source/entity IDs are maintained in the following data elements:

- C1143 VIO-SE-ID
- C2119 SAMPLE-SE-ID
- C3031 VE-SE-ID

PWS-SE-ID must be valued for a new PWS-SOURCE-ENTITY-INFO data base record to be inserted into the FRDS-II Data Base.

Name: PWS-SE-NAME

● Description

An alphanumeric value that represents either the name of a source of water or the name of an entity (e.g., name of an entry point, treatment plant, or other facility) related to a public water system.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(15)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

A source of water for a public water system can be any ocean, river, stream, spring, lake, reservoir, infiltration gallery, cistern, ground water well, another public water system, etc. from which water is obtained for ultimate processing and distribution.

An entity for a public water system can be any entry point or plant/facility related or associated with a public water system.

Data element C405, PWS-SE-RECORD-TYPE, identifies whether this data element contains the name of a source of water of, or the name of an entity related to, a public water system.

Name: PWS-SE-RECORD-TYPE

● Description

A code value that represents whether all other data elements contained in the C400, PWS-SOURCE-ENTITY-INFO, data base record are related to a source of water, or to another type of entity (e.g., an entry point, a treatment plant, or other related facility) for a public water system

In order for the FRDS-II computer system to permit the storage of a public water system (i.e., data base registration), at least one PWS-SOURCE-ENTITY-INFO data base record MUST be inserted into the data base with data element C405, PWS-SE-RECORD-TYPE, indicating a source of water (i.e., "S").

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	PWS-SOURCE-ENTITY-INFO
Data Base Family:	<u>2</u>	Registration Requirement: <u>1</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0405</u>

● Edit Criteria

Must be specified when:

- inserting a inventory record
- inserting a source or entity record

When specified:

- must be one of the Source/Entity Record Type Codes (see Section VI; Table 0405):
 - *E* - Entry Point Record (Surface or Groundwater, and Permanent or Non-permanent)
 - *P* - Plant/Facility Record (Treatment Plant, Storage, Pumping, and Distribution Facilities, Well Head, Intake, etc.)
 - *S* - Source Record (Surface, Groundwater, Purchased Source)

Valid combinations of source/entity record types (C405, PWS-SE-RECORD-TYPE) and source/entity codes (C407, PWS-SE-CODE) are found in Table ID10

Every public water system must include at least one source record (i.e., C405, PWS-SE-RECORD-TYPE of "S") [E8C]

● Comments

A source of water for a public water system can be any ocean, river, stream, spring, lake, reservoir, infiltration gallery, cistern, ground water well, another public water system, etc. from which water is obtained for ultimate processing and distribution.

PWS-SE-RECORD-TYPE cannot be modified. If a change is required, the C400 data base record must be deleted and re-inserted.

PWS-SE-RECORD-TYPE must be valued for a new PWS-SOURCE-ENTITY-INFO data base record to be inserted into the FRDS-II Data Base.

Name: PWS-SE-CODE

● Description

A code value that represents the type of source water that is utilized by, or the type of entity that is related to, a public water system. That is:

- For a source of water, whether the water is obtained from a surface source, groundwater source, groundwater under the direct influence (UDI) of surface water source, purchased surface source, purchased groundwater source, or purchased groundwater UDI source; or
- For an entity, a classification of the type of entry point, or the type of plant or facility.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>2</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>ID10</u>

● Edit Criteria

Must be specified when:

- inserting an inventory record
- inserting a source or entity record
- modifying the current value

When specified:

- must be one of the Combined Source/Entity Record Type and Source/Entry Point/Plant Type Codes (see Section VI; Table ID10):
 - 'EA' - Surface, Permanent
 - 'EB' - Surface, Non-permanent
 - 'EC' - Groundwater, Permanent
 - 'ED' - Groundwater, Non-permanent
 - 'PH' - Well Head
 - 'PI' - Intake
 - 'PM' - Pumping Facility
 - 'PO' - Other Plant or Facility
 - 'PR' - Storage Facility
 - 'PT' - Treatment Plant
 - 'SG' - Groundwater, Non-purchased
 - 'SP' - Surface, Purchased
 - 'SS' - Surface, Non-purchased
 - 'SW' - Groundwater, Purchased
 - 'SY' - Groundwater (UDI), Non-Purchased
 - 'SZ' - Groundwater (UDI), Purchased

Valid combinations of source/entity record types (C405, PWS-SE-RECORD-TYPE) and source/entity codes (C407, PWS-SE-CODE) are found in Table ID10.

● Comments

A source of water for a public water system can be any ocean, river, stream, spring, lake, reservoir, infiltration gallery, cistern, ground water well, another public water system, etc. from which water is obtained for ultimate processing and distribution.

When a purchased source of water is changed to a non-purchased source, data element C411, PWS-SE-SELLER-ID, will automatically be initialized to a -null- value. PWS-SE-CODE must be valued for a new PWS-SOURCE-ENTITY-INFO data base record to be inserted into the FRDS-II Data Base.

Name: PWS-SE-AVAILABILITY

● Description

A code value that represents the circumstances under which a source of water utilized by, or an entity related to, a public water system is used or operated.

Examples of PWS-SE-AVAILABILITY include availabilities such as permanently, seasonally, for emergencies only, etc.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0409</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the Source Availability Codes (see Section VI; Table 0409):
 - 'E' - Emergency Utilization
 - 'I' - Interim Utilization
 - 'O' - Other Utilization
 - 'P' - Permanent Utilization
 - 'S' - Seasonal Utilization

● Comments

None

Name: PWS-SE-SELLER-PWS-ID

● Description

An alphanumeric value that represents the identification number of a public water system from whom raw or treated water is purchased for processing and distribution.

PWS-SE-SELLER-PWS-ID is of the form: ss xxxxxxx (space inserted for clarity only)

Where: ss = the FIPS Pub 5-2 State abbreviation in which a public water system is located, or the region number of the EPA region responsible for an Indian reservation

xxxxxxx = the public water system identification of the seller of water

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>9</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>21</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(9)</u>	Code Table ID: <u>0003</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Must only be specified when inserting or modifying a purchased water source (i.e., C405, PWS-SE-RECORD-TYPE of 'S' and C407, PWS-SE-CODE of 'P' or 'W') [EYC]

When specified:

- position 1 - 2 must be a valid FIPS Pub 5-1 State code
- the PWS ID should exist in the FRDS-II Data Base

● Comments

PWS-SE-SELLER-PWS-ID is applicable to each source of water that is purchased.

Data element C407, PWS-SE-CODE, identifies whether or not the source of water in question is purchased.

When a purchased source of water is changed to a non-purchased source of water, data element C411, PWS-SE-SELLER-ID, will automatically be initialized to a -null-value.

Name: PWS-SE-DATA-ORIGIN

● Description

A code value that represents the source or origin of the various values that are maintained in the C400, PWS-SOURCE-ENTITY-INFO, data base record.

Examples of PWS-SE-DATA-ORIGIN include sources or origins such as State reported, reported by an EPA region, generated by the FRDS-II computer system during its normal course of operation, etc.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>ID07</u>

● Acceptable Values

Entries from the Record Data Origin Codes (see Section VI; Table ID07):

- *H* - Headquarters (EPA) supplied data (EPA Use Only)
- *R* - Region (EPA) supplied data (EPA Use Only)
- *S* - State supplied data

● Comments

This value is not input directly by the State. Rather, it is conveyed to Production Control at the time the data is to be processed. Production Control then communicates to FRDS-II the correct value to assign to this data element.

Other data origins are maintained in the following data elements:

- C517 PWS-GA-DATA-ORIGIN
- C809 PWS-MILESTONE-ORIGIN
- C1137 VIO-DATA-ORIGIN
- C1211 ENF-DATA-ORIGIN
- C3025 VE-DATA-ORIGIN

This value cannot be modified.

Name: PWS-SE-LATITUDE

● Description

A numeric value that represents one of two spherical coordinates that identify the exact physical location of a source of water that is utilized by, or an entity that is related to, a public water system.

Latitude uses the earth's equator as its latitudinal origin.

PWS-SE-LATITUDE is of the form: dd mm ss (spaces inserted for clarity only)

Where: dd = the degrees of the latitude
mm = the minutes of the latitude
ss = the seconds of the latitude

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	PWS-SOURCE-ENTITY-INFO
Data Base Family:	<u>2</u>	Registration Requirement: <u>4</u>
Data Category:	<u>72</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(6)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the longitude (C417, PWS-SE-LONGITUDE) has been specified [E9F]

When specified:

- must be a six digit integer number, comprised of:
 - . degrees, in position 1 - 2;
 - . minutes, in position 3 - 4; and
 - . seconds, in position 5 - 6
- degrees must be within 00 through 59, inclusive
- minutes must be within 00 through 59, inclusive
- seconds must be within 00 through 59, inclusive

For Primaries within the continental U.S., the latitude must be between 23 degrees, 27 minutes and 50 degrees, 0 minutes

● Comments

PWS-SE-LATITUDE is not meaningful by itself. To be meaningful, PWS-SE-LATITUDE must be considered in conjunction with data element C417, PWS-SE-LONGITUDE.

Whenever the value for this data element is removed for a public water system, the corresponding longitude (data element C417) will automatically be initialized to a -null- value

PWS-SE-LATITUDE must be valued when data element C417, PWS-SE-LONGITUDE, is valued.

Name: PWS-SE-LONGITUDE

● Description

A numeric value that represents one of two spherical coordinates that identify the exact physical location of a source of water that is utilized by, or an entity that is related to, a public water system.

Longitude uses the prime meridian (Greenwich, England) as its longitudinal origin.

PWS-SE-LONGITUDE is of the form: ddd mm ss (spaces inserted for clarity only)

Where: ddd = the degrees of the longitude
mm = the minutes of the longitude
ss = the seconds of the longitude

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>7</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	PWS-SOURCE-ENTITY-INFO
Data Base Family:	<u>2</u>	Registration Requirement: <u>4</u>
Data Category:	<u>73</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(7)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the latitude (C415, PWS-SE-LATITUDE) has been specified [E9F]

When specified:

- must be a seven digit integer number, comprised of:
 - . degrees, in position 1 - 3;
 - . minutes, in position 4 - 5; and
 - . seconds, in position 6 - 7
- degrees must be within 000 through 180, inclusive
- minutes must be within 00 through 59, inclusive
- seconds must be within 00 through 59, inclusive

For Primaries within the continental U.S., the longitude must be between 65 degrees, 0 minutes and 125 degrees, 0 minutes longitude

● Comments

PWS-SE-LONGITUDE is not meaningful by itself. To be meaningful, PWS-SE-LONGITUDE must be considered in conjunction with data element C415, PWS-SE-LATITUDE.

Whenever the value for this data element is removed for a public water system, the corresponding latitude (data element C415) will automatically be initialized to a -null- value.

PWS-SE-LONGITUDE must be valued when data element C415, PWS-SE-LATITUDE, is valued.

Name: PWS-SE-MERIDIAN-NAME

● Description

An alphanumeric value that represents the name of a North-South line from which an exact measurement of longitude may be made in order to locate a specific Township. When coupled with the associated Baseline, it identifies the starting point from which Township, Range, Section, Quarter-Section, and Quarter-Quarter Section may be used to pinpoint the location of a source or entity.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>4</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Meridian name is of particular importance when more than one Principal Meridian exists within the State. If more than one Principal Meridian exists for the State, this data element should be valued.

Name: PWS-SE-TOWNSHIP

● Description

An alphanumeric value that represents the physical location of an area of land (i.e., a township) in relationship to a known Base line.

PWS-SE-TOWNSHIP in conjunction with data element C421, PWS-SE-RANGE, identifies the township in which a source of water utilized by, or an entity related to, a public water system is located.

PWS-SE-TOWNSHIP is of the form: ttt d (space inserted for clarity only)

Where: ttt = a number which represents the physical location of a township in relationship to a known Base line
d = the direction (N for North, or S for South) from a known Base line

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	PWS-SOURCE-ENTITY-INFO
Data Base Family:	<u>2</u>	Registration Requirement: <u>4</u>
Data Category:	<u>74</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and a Range (C421, PWS-SE-RANGE) has been specified [E9G]
- not presently valued and a section (i.e., C423, PWS-SE-SECTION) has been specified
- not presently valued and a quarter section (i.e., C425, PWS-SE-QTR-SECTION) has been specified
- not presently valued and a quarter-quarter section (i.e., C426, PWS-SE-QTR-QTR-SECTION) has been specified

When specified:

- position 1 - 3 must be numeric
- position 1 - 3 must be greater than 000
- position 4 must be:
 - 'N' (i.e., the township is north of the base line) or
 - 'S' (i.e., the township is south of the base line)

Additionally, a valid Range (C421, PWS-SE-RANGE) must also be provided

● Comments

PWS-SE-TOWNSHIP in conjunction with data element C421, PWS-SE-RANGE, identifies a 36 square mile area (i.e., approximately 23,040 acres).

PWS-SE-TOWNSHIP is not meaningful by itself. To be meaningful and precise, PWS-SE-TOWNSHIP should be considered in conjunction with the following data elements:

- C421 PWS-SE-RANGE
- C423 PWS-SE-SECTION
- C425 PWS-SE-QTR-SECTION
- C426 PWS-SE-QTR-QTR-SECTION

Together, data elements C419, PWS-SE-TOWNSHIP; C421, PWS-SE-RANGE; C423, PWS-SE-SECTION; C425, PWS-SE-QTR-SECTION; and C426, PWS-SE-QTR-QTR-SECTION, are part of the rectangular survey system which is presently maintained by the U.S. Department of the Interior, Bureau of Land Management.

Whenever the value for this data element is removed for a public water system, the corresponding range (C421), section (C423), quarter section (C425), and quarter-quarter section (C426) will automatically be initialized to a -null- value.

PWS-SE-TOWNSHIP must be valued when the range, section, quarter section, or quarter-quarter section is valued.

Name: PWS-SE-RANGE

● Description

An alphanumeric value that represents the physical location of an area of land (i.e., a township) in relationship to a known Principal meridian.

PWS-SE-RANGE in conjunction with data element C419, PWS-SE-TOWNSHIP, identifies the township in which a source of water utilized by, or an entity related to, a public water system is located.

PWS-SE-RANGE is of the form: ttt d (space inserted for clarity only)

Where: ttt = a number which represents the physical location of a township in relationship to a known Principal meridian
d = the direction (E for East, or W for West) from a known Principal meridian

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	PWS-SOURCE-ENTITY-INFO	
Data Base Family:	<u>2</u>	Registration Requirement:	<u>4</u>
Data Category:	<u>75</u>	Grant Requirement:	<u>NO</u>
Data Type:	<u>CHARACTER</u>	Access:	<u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID:	<u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and a Township (C419, PWS-SE-TOWNSHIP) has been specified [E9G]
- not presently valued and a section (i.e., C423, PWS-SE-SECTION) has been specified
- not presently valued and a quarter section (i.e., C425, PWS-SE-QTR-SECTION) has been specified
- not presently valued and a quarter-quarter section (i.e., C426, PWS-SE-QTR-QTR-SECTION) has been specified

When specified:

- position 1 - 3 must be numeric
- position 1 - 3 must be greater than 000
- position 4 must be:
 - "E" (i.e., the township is east of the base line) or
 - "W" (i.e., the township is west of the base line)

Additionally, a valid Township (C419, PWS-SE-TOWNSHIP) must also be provided

● Comments

PWS-SE-RANGE in conjunction with data element C419, PWS-SE-TOWNSHIP, identifies a 36 square mile area (i.e., approximately 23,040 acres).

PWS-SE-RANGE is not meaningful by itself. To be meaningful and precise, PWS-SE-RANGE should be considered in conjunction with the following data elements:

- C419 PWS-SE-TOWNSHIP
- C423 PWS-SE-SECTION
- C425 PWS-SE-QTR-SECTION
- C426 PWS-SE-QTR-QTR-SECTION

Together, data elements C419, PWS-SE-TOWNSHIP; C421, PWS-SE-RANGE; C423, PWS-SE-SECTION; C425, PWS-SE-QTR-SECTION; and C426, PWS-SE-QTR-QTR-SECTION, are part of the rectangular survey system which is presently maintained by the U.S. Department of the Interior, Bureau of Land Management.

Whenever the value for this data element is removed for a public water system, the corresponding township (C419), section (C423), quarter section (C425), and quarter-quarter section (C426) will automatically be initialized to a -null- value.

PWS-SE-RANGE must be valued when the township, section, quarter section, or quarter-quarter section is valued.

Name: PWS-SE-SECTION

● Description

A numeric value that represents one of 36 sections of the township in which a source of water utilized by, or an entity related to, a public water system is located.

The 36 sections are numbered in a zigzag fashion beginning with 01 in the northeast corner of a township, and ending with a 36 in the southeast corner of a township.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>4</u>
Data Category:	<u>76</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and a Quarter Section (C425, PWS-SE-QTR-SECTION) has been specified
- not presently valued and a quarter-quarter section (i.e., C426, PWS-SE-QTR-QTR-SECTION) has been specified

When specified:

- must be numeric
- must be within 01 through 36, inclusive

Additionally, a valid Township (C419, PWS-SE-TOWNSHIP) and Range (C421, PWS-SE-RANGE), must also be provided [EUK]

● Comments

PWS-SE-SECTION identifies a 1 square mile area (i.e., 640 acres) within a specific township defined by data elements C419, PWS-SE-TOWNSHIP, and C421, PWS-SE-RANGE.

PWS-SE-SECTION is not meaningful by itself. To be meaningful and precise,

PWS-SE-SECTION should be considered in conjunction with the following data elements:

- C419 PWS-SE-TOWNSHIP
- C421 PWS-SE-RANGE
- C425 PWS-SE-QTR-SECTION
- C426 PWS-SE-QTR-QTR-SECTION

Together, data elements C419, PWS-SE-TOWNSHIP; C421, PWS-SE-RANGE; C423, PWS-SE-SECTION; C425, PWS-SE-QTR-SECTION; and C426, PWS-SE-QTR-QTR-SECTION, are part of the rectangular survey system which is presently maintained by the U.S. Department of the Interior, Bureau of Land Management.

Whenever the value for this data element is removed for a public water system, the corresponding quarter section (C425), and quarter-quarter section (C426) will automatically be initialized to a -null- value.

PWS-SE-SECTION must be valued when the quarter section, or quarter-quarter section is valued.

Name: PWS-SE-QTR-SECTION

● Description

An alphanumeric value that represents one of 4 quadrants of the section in which a source of water utilized by, or an entity related to, a public water system is located.

The four quadrants are identified as NW (Northwest), NE (Northeast), SW (Southwest), and SE (Southeast).

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>4</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>ID11</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and a Quarter Quarter Section (C426, PWS-SE-QTR-QTR-SECTION) has been specified

When specified:

- must be one of the Township/Range Quarter Section and Quarter-Quarter Section Codes (see Section VI; Table ID11):
 - "NE" - Northeast Quarter
 - "NW" - Northwest Quarter
 - "SE" - Southeast Quarter
 - "SW" - Southwest Quarter

Additionally, a valid Township (C419, PWS-SE-TOWNSHIP), Range (C421, PWS-SE-RANGE) and Section (C423, PWS-SE-SECTION) must also be provided [EUL]

● Comments

PWS-SE-QTR-SECTION identifies a 160 acre quadrant within a specific section defined by data element C423, PWS-SE-SECTION.

PWS-SE-QTR-SECTION is not meaningful by itself. To be meaningful and precise, PWS-SE-QTR-SECTION should be considered in conjunction with the following data elements:

- C419 PWS-SE-TOWNSHIP
- C421 PWS-SE-RANGE
- C423 PWS-SE-SECTION
- C426 PWS-SE-QTR-QTR-SECTION

Together, data elements C419, PWS-SE-TOWNSHIP; C421, PWS-SE-RANGE; C423, PWS-SE-SECTION; C425, PWS-SE-QTR-SECTION; and C426, PWS-SE-QTR-QTR-SECTION, are part of the rectangular survey system which is presently maintained by the U.S. Department of the Interior, Bureau of Land Management.

Whenever the value for this data element is removed for a public water system, the corresponding quarter-quarter section (C426) will automatically be initialized to a -null- value.

PWS-SE-QTR-SECTION must be valued when the quarter-quarter section is valued.

Name: PWS-SE-QTR-QTR-SECTION

● Description

An alphanumeric value that represents one of 4 quadrants of the quarter-section in which a source of water utilized by, or an entity related to, a public water system is located.

The four quadrants are identified as NW (Northwest), NE (Northeast), SW (Southwest), and SE (Southeast).

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>ID11</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the Township/Range Quarter Section and Quarter-Quarter Section Codes (see Section VI; Table ID11):
 - 'NE' - Northeast Quarter
 - 'NW' - Northwest Quarter
 - 'SE' - Southeast Quarter
 - 'SW' - Southwest Quarter

Additionally, a valid Township (C419, PWS-SE-TOWNSHIP), Range (C421, PWS-SE-RANGE), Section (C423, PWS-SE-SECTION) and Quarter Section (C425, PWS-SE-QTR-SECTION) must also be provided [EUM]

● Comments

PWS-SE-QTR-QTR-SECTION identifies a 40 acre quadrant within a specific quarter-section defined by data element C425, PWS-SE-QTR-SECTION.

PWS-SE-QTR-QTR-SECTION is not meaningful by itself. To be meaningful and precise, PWS-SE-QTR-QTR-SECTION should be considered in conjunction with the following data elements:

- C419 PWS-SE-TOWNSHIP
- C421 PWS-SE-RANGE
- C423 PWS-SE-SECTION
- C425 PWS-SE-QTR-SECTION

Together, data elements C419, PWS-SE-TOWNSHIP; C421, PWS-SE-RANGE; C423, PWS-SE-SECTION; C425, PWS-SE-QTR-SECTION; and C426, PWS-SE-QTR-QTR-SECTION, are part of the rectangular survey system which is presently maintained by the U.S. Department of the Interior, Bureau of Land Management.

Name: PWS-SE-RIVER-REACH-NUM

● Description

A code value that identifies a linear section of a stream, lake, reservoir, estuary, wide river, shoreline, etc., of the continental United States that is associated with a source of water utilized by a public water system.

The river reach (as it is known) provides a hydrologic framework for organizing and analyzing water resources and water quality data.

PWS-SE-RIVER-REACH-NUM is of the form: hhhhhhhh sss (space inserted for clarity only)

Where: hhhhhhhh = the U.S. Geological Survey's Hydrologic Unit Code
 sss = the U.S. EPA STORET system's Hydrologic Unit Code extension (the segment)

and hhhhhhhh is of the form: rr pp aa cc (spaces inserted for clarity only)

Where: rr = a U.S. Water Resources Council (WRC) region
 rr pp = a WRC planning subregion
 rr pp aa = an accounting unit of the National Water Data Network
 rr pp aa cc = a cataloging unit of the USGS Catalog of Information on Water Data

Each part of the river reach number (e.g., rr, pp) delineates a hydrologic drainage basin that defines (from left to right) a progressively smaller basin size. The water resources region (i.e., rr) being the largest area, and the river reach (i.e., rr pp aa cc sss) being the smallest area. When coupled with C431, PWS-SE-REACH-MILES, a specific physical location along a river reach can be established.

Acceptable Hydrologic unit codes are defined in Federal Information Processing Standard Publication (FIPS PUB) 103, which is entitled, "Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas." This FIPS PUB is also known as, "Geological Survey Circular 878-A."

Acceptable river reach codes are defined by the U.S. EPA's STORET Office for use in their Water Quality System Reach File.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>11</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	PWS-SOURCE-ENTITY-INFO
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(8)</u>	Code Table ID: <u>0427</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- position 1 - 8 must be one of the FIPS PUB 103, Hydrologic Unit Codes (see Section VI; Table 0427)
- position 9 - 11 must be either blank or numeric [EA9]

● Comments

Data element C429, PWS-SE-ON-REACH, identifies whether a source of water is 'on' or 'off' a river reach.

Data element C431, PWS-SE-REACH-MILES, defines an exact physical location of a surface source intake in relationship to the downstream end of a river reach.

Name: PWS-SE-ON-REACH

● Description

A code value that represents whether a source of water utilized by a public water system is 'on' or 'off' a defined river reach.

'On' implies that a surface source intake is located on a defined river reach. 'Off' implies that the source of water (or surface source intake) is not located on a defined river reach, but instead, is located within the area drained by the river reach.

If a surface source intake is 'on' the river reach, the number of reach miles (C431, PWS-SE-REACH-MILES) defines an exact physical location of the intake. Reach miles are measured from the downstream end of the river reach.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	<u>PWS-SOURCE-ENTITY-INFO</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0429</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Should be specified when:

- not presently valued and a river reach number (i.e., PWS-SE-RIVER-REACH-NUM) has been specified
- not presently valued and the river reach miles (i.e., PWS-SE-REACH-MILES) has been specified

When specified:

- must be one of the On Reach Flag Codes (see Section VI; Table 0429):
 - "N" - Intake NOT on defined River Reach
 - "Y" - Intake on defined River Reach

● Comments

Data element C427, PWS-SE-RIVER-REACH-NUM, identifies the river reach number that is associated with a source of water.

Data element C431, PWS-SE-REACH-MILES, defines an exact physical location of a surface source intake in relationship to the downstream end of a river reach.

Name: PWS-SE-REACH-MILES

● Description

A numeric value that defines an exact physical location of a surface source intake in relationship to the downstream end of the river reach, given that the source is 'on' a defined river reach.

A source of water utilized by a public water system can be either 'on' or 'off' the river reach (C429, PWS-SE-ON-REACH).

'On' implies that a surface source intake is located on a defined river reach. 'Off' implies that the source of water (or surface source intake) is not located on a defined river reach, but instead, is located within the area drained by the river reach.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C400</u>	PWS-SOURCE-ENTITY-INFO
Data Base Family:	<u>2</u>	Registration Requirement: <u>-</u>
Data Category:	<u>41</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DECIMAL</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(4).9(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Should be specified when:

- not presently valued and a River Reach number (C427, PWS-SE-RIVER-REACH-NUM) has been specified
- not presently valued and an On-Reach (C429, PWS-SE-ON-REACH) has been specified

When specified:

- must be a numeric real number
- whole portion cannot exceed four digits
- decimal portion cannot exceed two digits
- a decimal point may or may not be included
- a decimal point must be specified when a fractional amount is intended
- must not be a negative number [EGA]

● Comments

Data element C427, PWS-SE-RIVER-REACH-NUM, identifies the river reach number that is associated with a source of water.

Data element C429, PWS-SE-ON-REACH, identifies whether a source of water is 'on' or 'off' a river reach.

Name: PWS-SE-TREATMENT-DATA

● Description

A SYSTEM 2000 data base record identification number and name.

The C480, PWS-SE-TREATMENT-DATA, data base record contains data elements that identify a treatment that has been applied to a unique source of water or whether treatment has been applied elsewhere.

The FRDS-II Data Base has one PWS-SE-TREATMENT-DATA data base record for each treatment that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>2</u>	Parent Record: <u>C400 PWS-SOURCE-ENTITY-INFO</u>
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● Record Contents

This data base record contains the following data elements:

- C481 PWS-SE-TREATMENT-ID
- C483 PWS-SE-TREATMENT-OBJECTIVE
- C485 PWS-SE-TREATMENT-PROCESS

● Comments

Each data element name contained within the PWS-SE-TREATMENT-DATA data base record is prefaced with ... PWS-SE-TREATMENT-

When a C480, PWS-SE-TREATMENT-DATA, data base record indicates that a source of water is treated at the plant, several additional steps should be followed. These steps are as follows:

- (1) A C400, PWS-SOURCE-ENTITY-INFO, data base record should be inserted into the data base with data element C405, PWS-SE-RECORD-TYPE, indicating a plant data base record; and
- (2) One or more C480, PWS-SE-TREATMENT-DATA, data base records should be inserted for the plant data base record indicating the actual treatment(s) applied.

Name: PWS-SE-TREATMENT-ID

● Description

A numeric value used to uniquely identify a specific treatment applied to a source of water for a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
	<u>TREATMENT-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C480</u>	<u>PWS-SE-TREATMENT-DATA</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>3</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTFGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting a treatment record

When specified:

- must not have a "G" in position 1 when modifying or deleting a treatment record
- and position 1 is a "G":
 - position 2 - 3 must be numeric
 - position 2 - 3 must be greater than zero
 - position 4 - 7 must be blank
- and position 1 is not a "G":
 - position 1 - 2 must be numeric
 - position 1 - 2 must be greater than zero
 - position 3 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a treatment record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a treatment record

Each new treatment record must include values for those data elements within the treatment record (C480, PWS-SE-TREATMENT-DATA) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

Additionally, a source or entity record must be inserted when inserting a treatment record for a new Public Water System [E6H]

● Comments

If desired, the user can have the FRDS-II computer system generate a PWS-SE-TREATMENT-ID number by specifying a Group Generation Code (GGC) when a new treatment data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e, Gn, where ... the letter "G" tells FRDS-II to generate the ID and the "n" is an arbitrary number assigned to all related C480, PWS-SE-TREATMENT, data elements so that their logical grouping will remain intact).

PWS-SE-TREATMENT-ID must be valued for a new PWS-SE-TREATMENT-DATA data base record to be inserted into the FRDS-II Data Base.

Name: PWS-SE-TREATMENT-OBJECTIVE

● Description

A code value that identifies a specific objective to be attained through treatment of a source of water for a public water system.

Examples of PWS-SE-TREATMENT-OBJECTIVE include objectives such as disinfection, particulate removal, corrosion control, softening, etc.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
	<u>TREATMENT-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C480</u>	<u>PWS-SE-TREATMENT-DATA</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>3</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>ID05</u>

● Edit Criteria

Must be specified when:

- inserting a treatment record
- modifying the current value

Must not be specified when inserting or modifying an entry point record (i.e., C405, PWS-SE-RECORD-TYPE of 'E') [EXA]

When specified:

- must be one of the Treatment Objective Codes (see Section VI; Table ID05):
 - 'A' - Additional Treatment Elsewhere
 - 'B' - Disinfection By-products Control
 - 'C' - Corrosion Control
 - 'D' - Disinfection
 - 'E' - Dechlorination
 - 'F' - Iron Removal
 - 'I' - Inorganics Removal
 - 'M' - Manganese Removal
 - 'N' - No Treatment at Source
 - 'O' - Organics Removal
 - 'P' - Particulate Removal
 - 'R' - Radionuclides Removal
 - 'S' - Softening (Hardness Removal)
 - 'T' - Taste / Odor Control
 - 'X' - Treatment Unknown (Converted FRDS 1.5) ('X' may not be used on any FRDS-II input)
 - 'Y' - Treated (Converted FRDS 1.5) ('Y' may not be used on any FRDS-II input)
 - 'Z' - Other

Valid combinations of Treatment Objectives (C483, PWS-SE-TREATMENT-OBJECTIVE) and Treatment Processes (C485, PWS-SE-TREATMENT-PROCESS) are found in the Combined Treatment Objective and Treatment Process Codes (see Section VI; Table ID03)

● Comments

Data element C485, PWS-SE-TREATMENT-PROCESS, identifies the specific treatment process that fulfills the treatment objective identified in this data element.

If no treatment is applied to a source of water, or additional treatment is applied elsewhere (e.g., by a seller, at a treatment plant or entry point), it should be so noted.

PWS-SE-TREATMENT-OBJECTIVE must be valued for a new PWS-SE-TREATMENT-DATA data base record to be inserted into the FRDS-II Data Base.

Name: PWS-SE-TREATMENT-PROCESS

● Description

A code value that identifies a specific treatment process that is utilized for a source of water for a public water system.

Examples of PWS-SE-TREATMENT-PROCESS include processes such as chlorination, filtration, fluoridation, pH adjustment.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>B2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SE-ID</u>
	<u>TREATMENT-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C480</u>	<u>PWS-SE-TREATMENT-DATA</u>
Data Base Family:	<u>2</u>	Registration Requirement: <u>3</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>ID03</u>

● Edit Criteria

Must be specified when:

- inserting a treatment record
- modifying the current value

Must not be specified when inserting or modifying an entry point record (i.e., C405, PWS-SE-RECORD-TYPE of 'E') [EXA]

When specified:

- must be one of the Treatment Process Codes (see Section VI; Table ID04)

Valid combinations of Treatment Objectives (C483, PWS-SE-TREATMENT-OBJECTIVE) and Treatment Processes (C485, PWS-SE-TREATMENT-PROCESS) are found in the Combined Treatment Objective and Treatment Process Codes (see Section VI; Table ID03)

● Comments

Data element C483, PWS-SE-TREATMENT-OBJECTIVE, identifies the specific treatment objective that is to be attained by the application of the treatment process identified in this data element.

If no treatment is applied to a source of water, or additional treatment is applied elsewhere (e.g., by a seller, at a treatment plant or entry point), it should be so noted.

Other treatment process codes are maintained in the following data elements:

- C3015 VE-TREATMENT-PROCESS
- C3017 VE-ALT-PROCESS

PWS-SE-TREATMENT-PROCESS must be valued for a new PWS-SE-TREATMENT-DATA data base record to be inserted into the FRDS-II Data Base.

Name: PWS-GEOGRAPHIC-AREAS-SERVED

● Description

A SYSTEM 2000 data base record identification number and name.

The C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record contains data elements that identify a geographic area or jurisdiction served by a public water system.

It is assumed that all data elements within a single PWS-GEOGRAPHIC-AREAS-SERVED data base record are valued with related data which describe a single geographic area. Completely separate geographic areas served are maintained in separate PWS-GEOGRAPHIC-AREAS-SERVED data base records.

The FRDS-II Data Base has one PWS-GEOGRAPHIC-AREAS-SERVED data base record for each geographic area served that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>3</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|----------------------------------|--------------------------------|
| ■ C501 PWS-GA-ID | ■ C509 PWS-GA-FIPS-COUNTY-CODE |
| ■ C503 PWS-GA-ADMIN-REGION | ■ C511 PWS-GA-MSA-CODE |
| ■ C505 PWS-GA-ADMIN-DIST | ■ C513 PWS-GA-CITY-SERVED |
| ■ C507 PWS-GA-CONGRESSIONAL-DIST | ■ C515 PWS-GA-IND-RES-CODE |
| ■ C508 PWS-GA-STATE-COUNTY-CODE | ■ C517 PWS-GA-DATA-ORIGIN |

● Comments

Each data element name contained within the PWS-GEOGRAPHIC-AREAS-SERVED data base record is prefaced with ... PWS-GA-

At least one of the above data elements other than C501 and C517 must be valued to have this data base record accepted by FRDS-II.

Name: PWS-GA-ID

● Description

A numeric value used to uniquely identify a specific geographic area served by a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>3</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting, modifying or deleting a geographic area served record

When specified:

- position 1 must be 'G' or position 1 - 2 must be numeric
- position 1 must not be 'G' when modifying or deleting a geographic area served record
- and position 1 is 'G':
 - position 2 must be numeric
 - position 2 must be greater than zero
 - position 3 - 7 must be blank
- and position 1 is not 'G':
 - position 1 - 2 must be numeric
 - position 1 - 2 must be between 1 and 89, inclusive
 - position 3 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a geographic area served record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a geographic area served record

Each new geographic area served record must include values for those data elements within the geographic area served record (C500, PWS-GEOGRAPHIC-AREAS-SERVED) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

Additionally, at least one geographic area served data element (i.e., C503, PWS-GA-ADMIN-REGION; C505, PWS-GA-ADMIN-DIST; C507, PWS-GA-CONGRESSIONAL-DIST; C508, PWS-GA-STATE-COUNTY-CODE; C509, PWS-GA-FIPS-COUNTY-CODE; C513, PWS-GA-CITY-SERVED, or C515, PWS-GA-IND-RES-CODE) must be valued [E6J]

● Comments

If desired, the user can have the FRDS-II computer system generate a PWS-GA-ID number by specifying a Group Generation Code (GGC) when a new geographic areas served data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e., Gn, where ... the letter 'G' tells FRDS-II to generate the ID and the 'n' is an arbitrary number assigned to all related C500, PWS-GEOGRAPHIC-AREAS-SERVED, data elements so that their logical grouping will remain intact).

PWS-GA-IDs 90 through 99 are reserved for use by the FRDS-II computer system.

PWS-GA-ID must be valued for a new PWS-GEOGRAPHIC-AREAS-SERVED data base record to be inserted into the FRDS-II Data Base.

Name: PWS-GA-ADMIN-REGION

● Description

An alphanumeric value that represents a State administrative region, if any, that is being served by a public water system in whole or in part. State administrative regions, if any, are unique to a given State, and are independently determined by that State.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>02</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C505 PWS-GA-ADMIN-DIST
- C507 PWS-GA-CONGRESSIONAL-DIST
- C508 PWS-GA-STATE-COUNTY-CODE
- C509 PWS-GA-FIPS-COUNTY-CODE
- C511 PWS-GA-MSA-CODE
- C513 PWS-GA-CITY-SERVED
- C515 PWS-GA-IND-RES-CODE

Name: PWS-GA-ADMIN-DIST

● Description

An alphanumeric value that represents a State administrative district, if any, that is being served by a public water system in whole or in part.

State administrative districts, if any, are unique to a given State, and are independently determined by that State.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>02</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C503 PWS-GA-ADMIN-REGION
- C507 PWS-GA-CONGRESSIONAL-DIST
- C508 PWS-GA-STATE-COUNTY-CODE
- C509 PWS-GA-FIPS-COUNTY-CODE
- C511 PWS-GA-MSA-CODE
- C513 PWS-GA-CITY-SERVED
- C515 PWS-GA-IND-RES-CODE

Name: PWS-GA-CONGRESSIONAL-DIST

● Description

A code value that represents a Federal congressional district that is being served by public water system in whole or in part.

Congressional districts are unique to a given State, and to each session of Congress.

Non-voting delegates to Congress are represented by a "98" in PWS-GA-CONGRESSIONAL-DIST.

No Representative to Congress is represented by a "99" in PWS-GA-CONGRESSIONAL-DISTRICT.

At Large delegates (only one Representative) to Congress are represented by a "00" (double zero) in PWS-GA-CONGRESSIONAL-DIST.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>0507</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the FIPS PUB 9, Federal Congressional District Codes (100th Congress) (see Section VI; Table 0507)

● Comments

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C503 PWS-GA-ADMIN-REGION
- C505 PWS-GA-ADMIN-DIST
- C508 PWS-GA-STATE-COUNTY-CODE
- C509 PWS-GA-FIPS-COUNTY-CODE
- C511 PWS-GA-MSA-CODE
- C513 PWS-GA-CITY-SERVED
- C515 PWS-GA-IND-RES-CODE

Name: PWS-GA-STATE-COUNTY-CODE

● Description

A code value that represents a county, or county equivalent, that is being served by a public water system in whole or in part.

PWS-GA-STATE-COUNTY-CODE is a State specific county code, where Federal Information Processing Standard (FIPS) codes are not used by a State. A State may report either FIPS county codes, or county codes which are assigned by that State. If the county codes reported by a State are not identified as FIPS codes, a one-for-one State county code to FIPS county code conversion list MUST be provided.

A county is considered to be the "first order subdivision" of each State regardless of its local designation (e.g. county, parish, borough, etc.).

All of the following are considered to be county equivalents:

- the census areas and boroughs of Alaska
- the District of Columbia
- the parishes of Louisiana
- the independent cities of the States of Maryland, Missouri, Nevada, and Virginia
- that part of Yellowstone National Park located in Montana
- the municipios of the Commonwealth of Puerto Rico
- the islands of the U.S. Virgin Islands
- the districts/islands of American Samoa
- the States of the Federated States of Micronesia
- the island of Guam
- the municipalities/islands/atolls of the Marshall Islands
- the municipalities of the Northern Mariana Islands
- the States of the Republic of Palau
- the islands of the U.S. Minor Outlying Islands

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>15</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(3)</u>	Code Table ID: <u>0508</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the State-specific County Codes (see Section VI; Table 0508)

● Comments

If the State reports a non-FIPS county code, FRDS-II stores the reported value herein and will automatically determine the equivalent FIPS county code and store it in data element C509, PWS-GA-FIPS-COUNTY-CODE.

Acceptable FIPS county codes are defined in Federal Information Processing Standard Publication (FIPS PUB) 6-4, which is entitled, "Counties and Equivalent Entities of the United States, Its Possessions, and Associated Areas."

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C503 PWS-GA-ADMIN-REGION
- C505 PWS-GA-ADMIN-DIST
- C507 PWS-GA-CONGRESSIONAL-DIST
- C509 PWS-GA-FIPS-COUNTY-CODE
- C511 PWS-GA-MSA-CODE
- C513 PWS-GA-CITY-SERVED
- C515 PWS-GA-IND-RES-CODE

Name: PWS-GA-FIPS-COUNTY-CODE

● Description

A code value that represents a county, or county equivalent, that is being served by a public water system in whole or in part.

PWS-GA-FIPS-COUNTY-CODE is a Federal Information Processing Standard (FIPS) county code. A State may report either FIPS county codes, or county codes which are assigned by that State. If the county codes reported by a State are not identified as FIPS codes, a one-for-one State county code to FIPS county code conversion list MUST be provided.

A county is considered to be the "first order subdivision" of each State regardless of its local designation (e.g. county, parish, borough, etc.).

All of the following are considered to be county equivalents:

- the census areas and boroughs of Alaska
- the District of Columbia
- the parishes of Louisiana
- the independent cities of the States of Maryland, Missouri, Nevada, and Virginia
- that part of Yellowstone National Park located in Montana
- the municipios of the Commonwealth of Puerto Rico
- the islands of the U.S. Virgin Islands
- the districts/islands of American Samoa
- the States of the Federated States of Micronesia
- the island of Guam
- the municipalities/islands/atolls of the Marshall Islands
- the municipalities of the Northern Mariana Islands
- the States of the Republic of Palau
- the islands of the U.S. Minor Outlying Islands

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(3)</u>	Code Table ID: <u>0509</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the FIPS PUB 6-3, County Codes (see Section VI; Table 0509)

● Comments

If the State reports a non-FIPS county code, FRDS-II stores the reported value in data element C508, PWS-GA-STATE-COUNTY-CODE, and will automatically determine the equivalent FIPS county code and store it herein.

Acceptable FIPS county codes are defined in Federal Information Processing Standard Publication (FIPS PUB) 6-4, which is entitled, "Counties and Equivalent Entities of the United States, Its Possessions, and Associated Areas."

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C503 PWS-GA-ADMIN-REGION
- C505 PWS-GA-ADMIN-DIST
- C507 PWS-GA-CONGRESSIONAL-DIST
- C508 PWS-GA-STATE-COUNTY-CODE
- C511 PWS-GA-MSA-CODE
- C513 PWS-GA-CITY-SERVED
- C515 PWS-GA-IND-RES-CODE

Name: PWS-GA-MSA-CODE

● Description

A computed code value that represents a metropolitan statistical area (MSA), or primary metropolitan statistical area (PMSA), that is being served by a public water system in whole or in part.

The term computed, as used here, implies that this code value is not reported by the State. PWS-GA-MSA-CODE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>0511</u>

● Acceptable Values

Entries from the FIPS PUB 8-5, Metropolitan Statistical Area (MSA) Codes, with PMSAs, NECMAs, & CMSAs (see Section VI; Table 0511)

● Comments

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C503 PWS-GA-ADMIN-REGION
- C505 PWS-GA-ADMIN-DIST
- C507 PWS-GA-CONGRESSIONAL-DIST
- C508 PWS-GA-STATE-COUNTY-CODE
- C509 PWS-GA-FIPS-COUNTY-CODE
- C513 PWS-GA-CITY-SERVED
- C515 PWS-GA-IND-RES-CODE

Name: PWS-GA-CITY-SERVED

● Description

An alphanumeric value that represents a city, community, or jurisdiction that is being served by a public water system in whole or in part.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>.</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(15)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C503 PWS-GA-ADMIN-REGION
- C505 PWS-GA-ADMIN-DIST
- C507 PWS-GA-CONGRESSIONAL-DIST
- C508 PWS-GA-STATE-COUNTY-CODE
- C509 PWS-GA-FIPS-COUNTY-CODE
- C511 PWS-GA-MSA-CODE
- C515 PWS-GA-IND-RES-CODE

Name: PWS-GA-IND-RES-CODE

● Description

A code value that represents an Indian reservation or Alaska remote village, if any, being served by a public water system in whole or in part.

Acceptable PWS-GA-IND-RES-CODE Indian reservation and Alaska remote village codes are defined in the Federal Information Processing Standards Publication (FIPS Pub) 55-2, entitled, "Guideline - Codes for Named Populated Places, Primary County Divisions, and other Locational Entities of the United States and Outlying Areas."

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>C1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-GA-ID</u>
Maximum Length:	<u>5</u>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(5)</u>	Code Table ID: <u>ID01</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the Alaska Remote Village Codes (see Section VI; Table ID01)

● Comments

Other data elements contained within the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record represent a variety of different geographic or jurisdictional means of identifying the area served by a public water system. These data elements are as follows:

- C503 PWS-GA-ADMIN-REGION
- C505 PWS-GA-ADMIN-DIST
- C507 PWS-GA-CONGRESSIONAL-DIST
- C508 PWS-GA-STATE-COUNTY-CODE
- C509 PWS-GA-FIPS-COUNTY-CODE
- C511 PWS-GA-MSA-CODE
- C513 PWS-GA-CITY-SERVED

Name: PWS-GA-DATA-ORIGIN

● Description

A code value that represents the source or origin of the various values that are maintained in the C500, PWS-GEOGRAPHIC-AREAS-SERVED, data base record.

Examples of PWS-GA-DATA-ORIGIN include sources or origins such as State reported, reported by an EPA region, generated by the FRDS-II computer system during its normal course of operation, etc.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C500</u>	<u>PWS-GEOGRAPHIC-AREAS-SERVED</u>
Data Base Family:	<u>3</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>ID07</u>

● Acceptable Values

Entries from the Record Data Origin Codes (see Section VI; Table ID07):

- 'H' - Headquarters (EPA) supplied data (EPA Use Only)
- 'R' - Region (EPA) supplied data (EPA Use Only)
- 'S' - State supplied data

● Comments

This value is not input directly by the State. Rather, it is conveyed to Production Control at the time the data is to be processed. Production Control then communicates to FRDS-II the correct value to assign to this data element.

Other data origins are maintained in the following data elements:

- C413 PWS-SE-DATA-ORIGIN
- C809 PWS-MILESTONE-ORIGIN
- C1137 VIO-DATA-ORIGIN
- C1211 ENF-DATA-ORIGIN
- C3025 VE-DATA-ORIGIN

This value cannot be modified.

Name: PWS-SERVICE-AREAS

● Description

A SYSTEM 2000 data base record identification number and name.

The C600, PWS-SERVICE-AREAS, data base record contains data elements that characterize a service area of a public water system.

The FRDS-II Data Base has one PWS-SERVICE-AREAS data base record for each type of area served that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>4</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|--------------------------|------------------------------|
| ■ C601 PWS-SERV-ID | ■ C605 PWS-SERV-PRIMARY-FLAG |
| ■ C603 PWS-SERV-CATEGORY | |

● Comments

Each data element name contained within the PWS-SERVICE-AREAS data base record is prefaced with: PWS-SERV-. At least one of the above data elements other than C601 must be valued to have this data base record accepted by FRDS-II.

Name: PWS-SERV-ID

● Description

A numeric value used to uniquely identify a specific type of area being served by a public water system, in whole or in part.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C2</u>
Data Qualifiers:	<u>PWS-ID</u> <u>PWS-SERV-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C600</u>	<u>PWS-SERVICE-AREAS</u>
Data Base Family:	<u>4</u>	Registration Requirement: <u>3</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting a service area record

When specified:

- position 1 must be 'G' or position 1 - 2 must be numeric
- position 1 must not be 'G' when modifying or deleting a service area record
- and position 1 is 'G':
 - . position 2 must be numeric
 - . position 2 must be greater than zero
 - . position 3 - 7 must be blank
- and position 1 is not 'G':
 - . position 1 - 2 must be numeric
 - . position 1 - 2 must be greater than zero
 - . position 3 - 7 must be blank
 - . the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a service area record
 - . the ID must not exist in the FRDS-II data base for the PWS, when inserting a service area record

Each new service area record must include values for those data elements within the service area record (C600, PWS-SERVICE-AREAS) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

● Comments

If desired, the user can have the FRDS-II computer system generate a PWS-SERV-ID number by specifying a Group Generation Code (GGC) when a new service area data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e., Gn, where ... the letter 'G' tells FRDS-II to generate the ID and the 'n' is an arbitrary number assigned to all related C600, PWS-SERVICE-AREAS, data elements so that their logical grouping will remain intact).

PWS-SERV-ID must be valued for a new PWS-SERVICE-AREAS data base record to be inserted into the FRDS-II Data Base.

Name: PWS-SERV-CATEGORY

● Description

A code value that represents a primary type of area being served by a public water system in whole or in part.

PWS-SERV-CATEGORY is of the form: x y (space inserted for clarity only)

Where: x = a category identifying the area being served (e.g., residential, transient)

y = a sub-category of the category (e.g., mobile home park (a sub-category of a residential service area), campground (a sub-category of a transient service area), etc.)

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SERV-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C600</u>	PWS-SERVICE-AREAS
Data Base Family:	<u>4</u>	Registration Requirement: <u>3</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>0603</u>

● Edit Criteria

Must be specified when.

- Inserting a service area record
- modifying the current value

When specified:

- must be one of the Service Area Category Codes (see Section VI, Table 0603):

'O1'	- Interstate Carrier	(Other)
'O2'	- Wholesaler (Sells Water)	(Other)
'O9'	- Other Area	(Other)
'R1'	- Residential Area	(Residential)
'R2'	- Mobile Home Park	(Residential)
'R9'	- Other Residential Area	(Residential)
'S1'	- School	(Semi-residential)
'S2'	- Institution	(Semi-residential)
'S3'	- Medical Facility	(Semi-residential)
'S4'	- Industrial/Agricultural	(Semi-residential)
'S5'	- Day Care Center	(Semi-residential)
'S9'	- Other Semi-residential Area	(Semi-residential)
'T1'	- Recreation Area	(Transient)
'T2'	- Service Station	(Transient)
'T3'	- Summer Camp	(Transient)
'T4'	- Restaurant	(Transient)
'T5'	- Highway Rest Area	(Transient)
'T6'	- Hotel/Motel	(Transient)
'T9'	- Other Transient Area	(Transient)

● Comments

PWS-SERV-CATEGORY must be valued for a new PWS-SERVICE-AREAS data base record to be inserted into the FRDS-II Data Base.

Name: PWS-SERV-PRIMARY-FLAG

● Description

A code value that indicates whether or not an area served by a public water system is the primary type of area served by that public water system.

It is important to note that only one area served by a public water system can be designated as the primary type.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>C2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-SERV-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C600</u>	<u>PWS-SERVICE-AREAS</u>
Data Base Family:	<u>4</u>	Registration Requirement: <u>4</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>0605</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- inserting a new non-transient non-community or a non-community public water system
- should be designated for one and only one area served by the public water system

When specified:

- must be one of the Primary Service Area Flag Codes (see Section VI; Table 0605):
 - "N" - Non-Primary Service Area (Secondary Service Area)
 - "Y" - Primary Service Area

● Comments

One, and only one, PWS-SERV-PRIMARY-FLAG should be valued with the letter "Y" (i.e., service area is the primary one) among all PWS-SERVICE-AREAS data base records in the FRDS-II Data Base for this public water system.

Name: PWS-ON-SITE-VISITS

● Description

A SYSTEM 2000 data base record identification number and name.

The C700, PWS-ON-SITE-VISITS, data base record contains data elements that are related to an on-site visit made to a public water system.

The FRDS-II Data Base has one PWS-ON-SITE-VISITS data base record for each on-site visit that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>5</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
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● Record Contents

This data base record contains the following data elements:

- C701 PWS-VISIT-ID
- C703 PWS-VISIT-DATE
- C705 PWS-VISIT-REASON

● Comments

Each data element name contained within the PWS-ON-SITE-VISITS data base record is prefaced with: PWS-VISIT- Both C703 and C705 data elements must be valued to have this data base record accepted by FRDS-II.

Note that PWS-ON-SITE-VISITS data base records will NOT be deleted if a "Total Replace" of inventory submitted and a previously submitted visit data base record is omitted.

Name: PWS-VISIT-ID

● Description

A numeric value used to uniquely identify a specific on-site visit made to a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-VISIT-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C700</u>	<u>PWS-ON-SITE-VISITS</u>
Data Base Family:	<u>5</u>	Registration Requirement: <u>3</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting an on-site visit record

When specified:

- position 1 must be 'G' or position 1 - 2 must be numeric
- position 1 must not be 'G' when modifying or deleting a on-site visit record
- and position 1 is 'G':
 - position 2 must be numeric
 - position 2 must be greater than zero
 - position 3 - 7 must be blank
- and position 1 is not 'G':
 - position 1 - 2 must be numeric
 - position 1 - 2 must be greater than zero
 - position 3 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a on-site visit record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a on-site visit record

Each new on-site visit record must include values for those data elements within the on-site visit record (C700, PWS-ON-SITE-VISITS) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

Additionally, at least one on-site visit data element (i.e., C703, PWS-VISIT-DATE or C705, PWS-VISIT-REASON) must be valued

● Comments

If desired, the user can have the FRDS-II computer system generate a PWS-VISIT-ID number by specifying a Group Generation Code (GGC) when a new on-site visit data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e., Gn, where ... the letter 'G' tells FRDS-II to generate the ID and the 'n' is an arbitrary number assigned to all related C700, PWS-ON-SITE-VISITS, data elements so that their logical grouping will remain intact).

In a "Total Replace" environment, FRDS-II will automatically convert any user assigned visit ID to a GGC. This is necessary since PWS-ON-SITE-VISIT data base records are only inserted and duplicate IDs could easily become a problem. The use of GGCs guarantees unique PWS-VISIT-IDs for States totally replacing their inventory each quarter.

PWS-VISIT-ID must be valued for a new PWS-ON-SITE-VISITS data base record to be inserted into the FRDS-II Data Base.

Name: PWS-VISIT-DATE

● Description

A value that represents the calendar date on which a visit was made to a public water system.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>C3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-VISIT-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C700</u>	<u>PWS-ON-SITE-VISITS</u>
Data Base Family:	<u>5</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and C705, PWS-VISIT-REASON, has been specified [E9L]

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must be before the current calendar date [EEA]

● Comments

Data element C705, PWS-VISIT-REASON, identifies the reason for which a visit was made on this date.

Name: PWS-VISIT-REASON

● Description

A code value that represents the reason for which a visit was made to a public water system.

PWS-VISIT-REASON is of the form: x y (space inserted for clarity only)

Where: x = class of visit (i.e., class 1 or 2 survey)

y = sub-category (e.g., regularly scheduled, complaint investigation, emergency, spill)

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>C3</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>PWS-VISIT-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C700</u>	<u>PWS-ON-SITE-VISITS</u>
Data Base Family:	<u>5</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>0705</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and C703, PWS-VISIT-DATE, has been specified [E9L]

When specified:

- must be one of the On-site Visit Reason Codes (see Section VI; Table 0705):
 - "1" - Sanitary Survey
 - "2A" - Training
 - "2C" - Laboratory Certification
 - "2E" - Emergency Assistance
 - "2G" - Engineering Determination/Advice
 - "2I" - Investigation (Complaint/Violation/etc.)
 - "2L" - Laboratory Inspection
 - "2M" - Informal System Inspection
 - "2O" - Other
 - "2P" - Permit (Qualification/Review/Compliance)
 - "2R" - Regularly Scheduled
 - "2S" - Sample Collection
 - "2T" - Technical Assistance (Non-specific)
 - "2V" - Variance/Exemption/Other Compliance
 - "2V" - Schedule Related

● Comments

Data element C703, PWS-VISIT-DATE, identifies the date on which this visit was made.

Name: PWS-MILESTONES-EVENTS

● Description

A SYSTEM 2000 data base record identification number and name.

The C800, PWS-MILESTONES-EVENTS, data base record contains data elements that are related to events concerning the Lead and Copper Rule.

The FRDS-II Data Base has one PWS-MILESTONES-EVENTS data base record for each milestone that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>13</u>	Parent Record: <u>C100</u>	<u>PWS-SUMMARY</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|-----------------------------|----------------------------------|
| ■ C801 PWS-MILESTONE-ID | ■ C811 PWS-MILESTONE-INSERT-DATE |
| ■ C803 PWS-MILESTONE-DATE | ■ C813 PWS-MILESTONE-COMMENT |
| ■ C805 PWS-MILESTONE-CODE | ■ C815 PWS-MILESTONE-VALUE |
| ■ C809 PWS-MILESTONE-ORIGIN | |

● Comments

Each data element name contained within the PWS-MILESTONES-EVENTS data base record is prefaced with ... PWS-MILESTONE-

Note that PWS-MILESTONES-EVENTS data base records will NOT be deleted if a "Total Replace" of inventory is submitted and a previously submitted milestone data base record is omitted.

Name: PWS-MILESTONE-ID

● Description

An alphanumeric value used to uniquely identify a specific milestone for a public water system.

MILESTONE-ID is of the form: nnnn

Where: nnnn = a milestone identification number assigned by the State or generated by the FRDS-II computer system (the first position consists of the letter 'M' if the ID was generated)

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C4</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>MILESTONE-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C800</u>	<u>PWS-MILESTONE-EVENTS</u>
Data Base Family:	<u>13</u>	Registration Requirement: <u>3</u>
Data Category:	<u>25</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting a milestone record [E4V]

When specified:

- position 1 must be 'G' or 'M', or position 1 - 4 must be numeric
- position 1 must not be 'M' when inserting a milestone record [E2U]
- position 1 must not be 'G' when modifying or deleting a milestone record [E2W]
- and position 1 is 'G' or 'M':
 - position 2 - 4 must be numeric [E3H]
 - position 2 - 4 must be greater than zero
 - position 5 - 7 must be blank
- and position 1 is neither 'G' nor 'M':
 - position 1 - 4 must be numeric
 - position 1 - 4 must be greater than zero
 - position 5 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a milestone record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a milestone record
- and position 1 is 'M':
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a milestone record

Each new milestone record must include values for those data elements within the milestone record (C800, PWS-MILESTONE-EVENTS) that are identified as Registration Requirement data elements (see 'Data Characteristics' on this page) [ERR]

● Comments

If desired, the user can have the FRDS-II computer system generate a MILESTONE-ID number by specifying a Group Generation Code (GGC) when a new milestone data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e., Gnnn where ... the letter 'G' tells FRDS-II to generate the ID and the 'nnn' is an arbitrary number assigned to all related C800, PWS-MILESTONES-EVENTS, data elements so that their logical grouping will remain intact).

PWS-MILESTONE-ID must be valued for a new PWS-MILESTONES-EVENTS data base record to be inserted into the FRDS-II Data Base.

Name: PWS-MILESTONE-DATE

● Description

A value that represents the calendar date associated with a certain milestone occurrence for a public water system.

The exact nature of the date contained in PWS-MILESTONE-DATE is dependent upon the type of milestone that was reported by the State. For example, for action level exceedances, the date reported is the last day of the monitoring period in which the exceedance was encountered. In comparison, for treatment designation/installation events, the date reported is either the date the State made the optimal corrosion control treatment (OCCT) or source water treatment (SOWT) designation, or the date the State received proof of the installation of OCCT or SOWT, as applicable.

Complete details regarding the exact nature of this date as it relates to the type of milestone is contained in Chapter VI, Definitions and Federal Reporting for Milestones, Violations, and SNCs, of the Lead and Copper Implementation Guidance.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C4</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>MILESTONE-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C800</u>	<u>PWS-MILESTONE-EVENTS</u>
Data Base Family:	<u>13</u>	Registration Requirement: <u>2</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a milestone occurrence record
- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of:
 - month, in position 1 - 2;
 - day, in position 3 - 4; and
 - year, in position 5 - 6
- Must be after June 30, 1991 (06/30/91) [EHZ]
- Must be the same as, or before the current calendar date [EQW]

● Comments

Data element C805, PWS-MILESTONE-CODE, identifies the specific milestone to which this date applies.

PWS-MILESTONE-DATE must be valued for a new PWS-MILESTONES-EVENTS data base record to be inserted into the FRDS-II Data Base.

Name: PWS-MILESTONE-CODE

● Description

A code value that represents a specific milestone occurrence for a public water system.

Examples of PWS-MILESTONE-CODE include milestones such as 90th percentile lead and copper action exceedances, corrosion control studies required/completed, treatment designated/approved/installed, Water Quality Parameters (WQP) designated/approved, Maximum Permissible Levels (MPLs) designated/approved, and Lead Service Line Replacement (LSLR) designations.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C4</u>
Data Qualifiers:	<u>PWS-ID</u> <u>MILESTONE-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C800</u>	<u>PWS-MILESTONE-EVENTS</u>
Data Base Family:	<u>13</u>	Registration Requirement: <u>2</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>0805</u>

● Edit Criteria

Must be specified when:

- Inserting a milestone occurrence record
- modifying the current value

When specified:

- must be one of the Pb/Cu Milestone Event Codes (see Section VI; Table 0805):
 - *CCSR* - Corrosion Control Study Required
 - *CSSC* - Corrosion Control Study Completed
 - *CU90* - Copper Action Level Exceedance
 - *LSLR* - Lead Service Line Replacement Required
 - *MPLS* - Max. Permissible Levels in Source Water
 - *OTDE* - OCCT Treatment Designated or Approved
 - *OTIN* - OCCT Treatment Installed
 - *PB90* - Lead 90th Action Level Exceedance
 - *STDE* - SOWT Designated or Approved
 - *STIN* - SOWT Treatment Installed
 - *WQPS* - Water Quality Parameters

● Comments

PWS-MILESTONE-CODE must be valued for a new PWS-MILESTONES-EVENTS data base record to be inserted into the FRDS-II Data Base.

Name: PWS-MILESTONE-ORIGIN

● Description

A code value that represents the source or origin of the various values that are maintained in the C800, PWS-MILESTONES-EVENTS, data base record.

Examples of PWS-MILESTONE-ORIGIN include sources or origins such as State reported, reported by an EPA region, generated by the FRDS-II computer system during its normal course of operation, etc.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C800</u>	<u>PWS-MILESTONE-EVENTS</u>
Data Base Family:	<u>13</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>ID07</u>

● Acceptable Values

Entries from the Record Data Origin Codes (see Section VI; Table ID07):

- "H" - Headquarters (EPA) supplied data (EPA Use Only)
- "R" - Region (EPA) supplied data (EPA Use Only)
- "S" - State supplied data

● Comments

This value is not input directly by the State. Rather, it is conveyed to Production Control at the time the data is to be processed. Production Control then communicates to FRDS-II the correct value to assign to this data element.

Other data origins are maintained in the following data elements:

- C413 PWS-SE-DATA-ORIGIN
- C517 PWS-GA-DATA-ORIGIN
- C1137 VIO-DATA-ORIGIN
- C1211 ENF-DATA-ORIGIN
- C3025 VE-DATA-ORIGIN

This value cannot be modified.

Name: PWS-MILESTONE-INSERT-DATE

● Description

A computed value that represents the calendar date on which a milestone data base record was initially posted to the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State.

PWS-MILESTONE-INSERT-DATE is determined automatically by the FRDS-II computer system during its normal course of operation when a new milestone data base record is initially inserted into the FRDS-II Data Base.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C800</u>	<u>PWS-MILESTONE-EVENTS</u>
Data Base Family:	<u>13</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

month, in position 1 - 2;

day, in position 3 - 4; and

year, in position 5 - 6

● Comments

This date is valued for State reported data only (i.e., data submitted via DTF transactions).

Other insert dates are maintained in the following data elements:

- | | |
|-------------------------|-------------------------|
| ■ C168 PWS-INSERT-DATE | ■ C1213 ENF-INSERT-DATE |
| ■ C1117 VIO-INSERT-DATE | ■ C3033 VE-INSERT-DATE |

Name: PWS-MILESTONE-COMMENT

● Description

An alphanumeric value that represents any description, characteristic, or attribute that the State or EPA region wants to record for the associated milestone data base record.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>C4</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>MILESTONE-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C800</u>	<u>PWS-MILESTONE-EVENTS</u>
Data Base Family:	<u>13</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Only one comment is allowed per milestone data base record.

Other comments are maintained in the following data elements:

- C1215 ENF-COMMENT
- C4057 DBA-COMMENT

Name: PWS-MILESTONE-VALUE

● Description

A numeric value that represents the 90th percentile lead or copper level exceedance, or Lead Service Line Replacement (LSLR) rates when reporting lead and copper milestones.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>C4</u>
Data Qualifiers:	<u>PWS-ID</u> <u>MILESTONE-ID</u>
Maximum Length:	<u>15</u>

● Data Characteristics

Data Base Record:	<u>C800</u>	PWS-MILESTONE-EVENTS
Data Base Family:	<u>13</u>	Registration Requirement: <u>4</u>
Data Category:	<u>41</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DECIMAL</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(7).9(8)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- inserting a milestone record with a milestone code (C805, PWS-MILESTONE-CODE) indicating a Lead 90th Action Level Exceedance (i.e., "PB90"), Copper Action Level Exceedance (i.e., "CU90") or Lead Service Line Replacement (i.e., "LSLR") [E7F]

Must not be specified when inserting or modifying a sample record, unless the milestone code (C805, PWS-MILESTONE-CODE) indicates Lead 90th Action Level Exceedance (i.e., "PB90"), Copper Action Level Exceedance (i.e., "CU90") or Lead Service Line Replacement (i.e., "LSLR") [EXH]

When specified:

- must be a numeric real number
- whole portion cannot exceed seven digits
- decimal portion cannot exceed eight digits
- a decimal point may or may not be included
- a decimal point must be specified when a fractional amount is intended
- must be greater than or equal to 1.35 when the milestone code (C805, PWS-MILESTONE-CODE) indicates Copper Action Level Exceedance (i.e., "CU90") [EEL]
- must be greater than or equal to .0155 when the milestone code (C805, PWS-MILESTONE-CODE) indicates Lead 90th Action Level Exceedance (i.e., "PB90") [EEJ]
- must be less than or equal to 1.00 when the milestone code (C805, PWS-MILESTONE-CODE) indicates Lead Service Line Replacement Required (i.e., "LSLR") [EEK]

● Comments

PWS-MILESTONE-VALUE must be specified for a new PWS-MILESTONES-EVENTS data base record to be inserted into the FRDS-II Data Base for the following types of milestones:

- Lead action level exceedance
- Copper action level exceedance
- Lead Service Line Replacement (LSLR) rate

FRDS-II Data Base Record Description

Number: C900

Name: PWS-HISTORY

● Description

A SYSTEM 2000 data base record identification number and name.

The C900, PWS-HISTORY, data base record contains data elements that are related to changes made to a public water system's inventory data in FRDS-II.

The FRDS-II Data Base has one PWS-HISTORY data base record for each change in value made to a select list of inventory data elements. Inventory data elements are those that have PWS- as part of their data element name prefix.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>6</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
--------------------------	----------------------------	--

● Record Contents

This data base record contains the following data elements:

- | | |
|------------------------------|---------------------------|
| ■ C901 PWS-HIST-CHANGED-ITEM | ■ C905 PWS-HIST-OLD-VALUE |
| ■ C903 PWS-HIST-CHANGE-DATE | ■ C907 PWS-HIST-NEW-VALUE |

● Comments

Each data element name contained within the PWS-HISTORY data base record is prefaced with: PWS-HIST- Refer to Section III., Quick Reference (sub-section B.) for a list of data elements for which historical information is kept.

Name: PWS-HIST-CHANGED-ITEM

● Description

An alphanumeric value that represents a selected inventory data element component number whose value was updated. Inventory data elements are those that have PWS- as part of their data element name prefix.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C900</u>	<u>PWS-HISTORY</u>
Data Base Family:	<u>6</u>	Registration Requirement: <u>-</u>
Data Category:	<u>02</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An alphanumeric value representing an inventory (i.e., PWS-) data element number, including the "C" prefix

Historical tracking is automatically done by FRDS-II for the following data elements:

- C100 PWS-SUMMARY (whenever a "Current" system becomes "Historical")
- C103 PWS-STATUS
- C113 PWS-DEACT-YYMM
- C115 PWS-POP-CATEGORY
- C119 PWS-PRIMARY-SOURCE
- C129 PWS-TREATMENT-CLASS
- C131 PWS-SYSTEM-NAME
- C147 PWS-SERVICE-CONNECTIONS

● Comments

Data element C903, PWS-HIST-CHANGE-DATE, identifies a date on which a data element's value was updated.

Data element C905, PWS-HIST-OLD-VALUE, identifies the contents of a data element prior to its update.

Data element C907, PWS-HIST-NEW-VALUE, identifies the contents of a data element subsequent to its update.

Historical information is maintained for a select list of inventory data elements only.

Name: PWS-HIST-CHANGE-DATE

● Description

A value that represents the calendar date on which a selected inventory data element's value was updated.

Whenever a public water system becomes "Historical," this value will automatically be set to the date on which FRDS-II detected it was no longer part of the "Current" inventory.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C900</u>	<u>PWS-HISTORY</u>
Data Base Family:	<u>6</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

Data element C901, PWS-HIST-CHANGED-ITEM, identifies an inventory data element component number whose value was updated.

Data element C905, PWS-HIST-OLD-VALUE, identifies the contents of a data element prior to its update.

Data element C907, PWS-HIST-NEW-VALUE, identifies the contents of a data element subsequent to its update.

Historical information is maintained for a select list of inventory data elements only.

Name: PWS-HIST-OLD-VALUE

● Description

An alphanumeric value that represents the contents of a selected inventory data element prior to its update.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C900</u>	<u>PWS-HISTORY</u>
Data Base Family:	<u>6</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(20)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An alphanumeric value

The original value (i.e., before the update) of the data element being documented in the history record

When a PWS becomes "historical", this value will automatically be set to the literal, "HISTORICAL-PWS"

● Comments

Data element C901, PWS-HIST-CHANGED-ITEM, identifies an inventory data element component number whose value was updated.

Data element C903, PWS-HIST-CHANGE-DATE, identifies a date on which a data element's value was updated.

Data element C907, PWS-HIST-NEW-VALUE, identifies the contents of a data element subsequent to its update.

Historical information is maintained for a select list of inventory data elements only.

Name: PWS-HIST-NEW-VALUE

● Description

An alphanumeric value that represents the contents of a selected inventory data element subsequent to its update (i.e., the new value).

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C900</u>	<u>PWS-HISTORY</u>
Data Base Family:	<u>6</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(20)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An alphanumeric value

The new value (i.e., following the update) of the data element being documented in the history record

When a historical PWS becomes "current", this value will automatically be set to the literal, "WAS MADE CURRENT"

● Comments

Data element C901, PWS-HIST-CHANGED-ITEM, identifies an inventory data element component number whose value was updated.

Data element C903, PWS-HIST-CHANGE-DATE, identifies a date on which a data element's value was updated.

Data element C905, PWS-HIST-OLD-VALUE, identifies the contents of a data element prior to its update.

Historical information is maintained for a select list of inventory data elements only.

Name: NON-COMPLIANCE-DATA

● Description

A SYSTEM 2000 data base record identification name and number.

The C1000, NON-COMPLIANCE-DATA, data base record contains a single data element. It is included in the FRDS-II Data Base solely for the purpose of efficiently processing violation, enforcement action, and non-compliance profile data.

The FRDS-II Data Base has one NON-COMPLIANCE-DATA data base record for each public water system that has at least one violation or enforcement action.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>7-9</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
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● Record Contents

This data base record contains the following data elements.

- C1001 NCD-RECON-FLAG

● Comments

None

Name: NCD-RECON-FLAG

● Description

A computed code value that represents whether or not an update has been performed to the FRDS-II Data Base which necessitates the verification and/or determination of appropriate violation and enforcement linkages or the regeneration of non-compliance profile data base records.

The term computed, as used here, implies that this code value is not reported by the State. NCD-RECON-FLAG is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	C1000	NON-COMPLIANCE-DATA
Data Base Family:	7-9	Registration Requirement: -
Data Category:	10	Grant Requirement: NO
Data Type:	CHARACTER	Access: KEY
Picture:	X(1)	Code Table ID: 1001

● Acceptable Values

Entries from the Non-compliance Data Reconciliation Flag Codes (see Section VI; Table 1001):

- 'NULL' - Reconciliation NOT Needed for NCP/LINK (NULL implies no Data Base value)
- '1' - NCP Reconciliation Needed
- '2' - NCP and LINK Reconciliation Needed

● Comments

Other reconciliation flags are maintained in the following data elements:

- C19 ST-RECON-FLAG
- C171 PWS-RECON-FLAG

Name: VIOLATION-DATA

● Description

A SYSTEM 2000 data base record identification name and number.

The C1100, VIOLATION-DATA, data base record contains data elements that characterize a violation of a primary drinking water regulation incurred by a public water system.

The FRDS-II Data Base has one VIOLATION-DATA data base record for each violation that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>7</u>	Parent Record: <u>C1000 NON-COMPLIANCE-DATA</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|------------------------------------|----------------------------------|
| ■ C1101 VIO-ID | ■ C1123 VIO-ANALYSIS-RESULT |
| ■ C1103 VIO-CONTAMINANT | ■ C1125 VIO-MCL-VIOLATED |
| ■ C1105 VIO-TYPE | ■ C1127 VIO-SAMPLES-REQUIRED |
| ■ C1107 VIO-COMP-PERIOD-BEGIN-DATE | ■ C1129 VIO-SAMPLES-TAKEN |
| ■ C1109 VIO-COMP-PERIOD-END-DATE | ■ C1131 VIO-MAJOR-VIOLATION-FLAG |
| ■ C1111 VIO-COMP-PERIOD-MONTHS | ■ C1133 VIO-LAST-UPDATE |
| ■ C1115 VIO-AWARE-DATE | ■ C1135 VIO-FY |
| ■ C1117 VIO-INSERT-DATE | ■ C1137 VIO-DATA-ORIGIN |
| ■ C1121 VIO-ANALYSIS-METHOD | ■ C1143 VIO-SE-ID |

● Comments

Each data element name contained within the VIOLATION-DATA data base record is prefaced with ... VIO-

Name: VIO-ID

● Description

An alphanumeric value used to uniquely identify a specific violation of a primary drinking water regulation incurred by a public water system. It is unique for each public water system within the Federal fiscal year in which the State became aware of the violation.

VIO-ID is of the form: yy nnnnn (space inserted for clarity only)

Where: yy = the Federal fiscal year in which the State became aware of the violation

nnnnn = a violation identification number assigned by the State or generated by the FRDS-II computer system (the first position consists of the letter "V" if the ID was generated)

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>7</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>3</u>
Data Category:	<u>22</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(7)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting a violation record

When specified:

- position 1 - 2 must be the Federal fiscal year of the violation
- position 1 - 2 must be greater than 77 and less than or equal to the current Federal fiscal year
- position 1 - 2 must be greater than 88 and less than or equal to the current Federal fiscal year, for SWTR violations (i.e., C1105, VIO-TYPE is "31", "36" or "41")
- position 3 must be "G" or "V", or position 3 - 7 must be numeric
- position 3 must not be "V" when inserting a violation record
- position 3 must not be "G" when modifying or deleting a violation record
- and position 3 is "G" or "V":
 - position 4 - 7 must be numeric
 - position 4 - 7 must be greater than zero
- and position 1 is neither "G" nor "V":
 - position 1 - 7 must be numeric
 - position 1 - 7 must be greater than zero
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a violation record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a violation record
- and position 1 is "V":
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a violation record

Each new violation record must include values for those data elements within the violation record (C1100, VIO-VIOLATION) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

● Comments

If desired, the user can have the FRDS-II computer system generate a VIO-ID number by specifying a Group Generation Code (GGC) when a new violation data base record is to be inserted into the data base is accomplished by inserting the GGC in positions 3 - 7 of the VIO-ID.

Another violation ID is maintained in data element C1281, ENF-LINK-VIO-ID.

VIO-ID must be valued for a new VIOLATION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VIO-CONTAMINANT

● Description

A code value that represents an identification number of a contaminant for which a public water system has incurred a violation of a primary drinking water regulation.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>4</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>ID06</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- inserting a violation for certain MCL or Monitoring violations (i.e., C1105, VIO-TYPE is '01' through '04' or '21' through '26') [E8U]
- inserting a violation for MPL Non-Compliance violations (i.e., C1105, VIO-TYPE is '63') [E8V]

Must not be specified when inserting or modifying a Sanitary Survey or SWTR violation (i.e., C1105, VIO-TYPE of '28', '31', '36' or '41') [EXG]

When specified:

- must be one of the Contaminant Identification Codes (see Section VI; Table ID06)
- Position 3 of the violation ID must be 'G' when a wild-card violation contaminant code (i.e., a contaminant code containing an asterisk) is specified [E3X]
- must not be a wild-card violation contaminant code (i.e., a contaminant code containing an asterisk) unless the submitted data is for a new violation [E8S]
- must not be a wild-card violation contaminant code (i.e., a contaminant code containing an asterisk) unless the submitted data is for a Monitoring and Reporting violation (i.e., C1103, VIO-CONTAMINANT is '03' or '04') [E8Q]
- must not be a wild-card contaminant group of 0***, 3*** or 4*** (these are not defined as wild-cards)
- must only be a wild-card contaminant group (i.e., 1*** or 2***) to indicate a predefined list of contaminants for which a Federal monitoring requirement exists
- must not be a volatile organic chemical group code (i.e., position 2 of C1103 is 'U' or 'V') unless the violation type is Monitoring and Reporting or a Notification violation (i.e., C1105, VIO-TYPE is '03' through '06') [G8R]
- must not be a wild-card contaminant group (i.e., 1*** or 2***) nor a volatile organic chemical group code (i.e., position 2 of C1103 'U' or 'V') when the compliance period begin date (i.e., C1107, VIO-COMP-PERIOD-BEGIN-DATE) is after December 31, 1992
- must be '1022' or '1030' when the violation type (C1105, VIO-TYPE) indicates an MPL Non-Compliance violation (i.e., '63') [EQR]
- must be '3100' when the violation type (C1105, VIO-TYPE) indicates a TCR violation (i.e., '21' through '26') [EQS]
- must only be '3100' when the violation type (C1105, VIO-TYPE) is '05', '06' or '21' through '26' [EQU]
- must be '5000' when the violation type (C1105, VIO-TYPE) indicates a Lead or Copper violation other than MPL Non-Compliance (i.e., '51' through '62', '64' or '65') [EQQ]
- must only be '5000' when the violation type (C1105, VIO-TYPE) indicates a Lead or Copper violation other than MPL Non-Compliance (i.e., '51' through '62', '64' or '65') [EQT]

● Comments

Data element C1105, VIO-TYPE, identifies a type of violation incurred by a public water system.

For violations which were incurred prior to 1/1/93, 1*** may be reported for a failure to monitor any of the 10 National Interim Primary Drinking Water Regulation inorganics. Likewise, 2*** may be reported for a failure to monitor ANY of the 6 National Interim Primary Drinking Water Regulation organics. In both cases, the FRDS-II computer system generates 10 discrete violations for 1*** and 6 discrete violations for 2***.

Other contaminant identification numbers are maintained in the following data elements:

- C1291 ENF-LINK-CONTAMINANT
- C1357 NCP-CONTAMINANT
- C2107 SAMPLE-CONTAMINANT
- C3003 VE-CONTAMINANT

This data element must be valued for a new Maximum Contaminant Level (MCL) or Monitoring & Reporting (M&R) violation (types 01 through 04, and 21 through 26) to be inserted into the FRDS-II Data Base.

This data element must be valued for a Maximum Permissible Level (MPL) non-compliance violation (type 63) to be inserted into the FRDS-II Data Base.

Name: VIO-TYPE

● Description

A code value that represents the type of violation that was incurred by a public water system.

Examples of VIO-TYPE include types such as average MCL, regular monitoring, public notification requirements, etc.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	VIO-LATION-DATA
Data Base Family:	<u>7</u>	Registration Requirement: <u>2</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>ID08</u>

● Edit Criteria

Must be specified when:

- inserting a violation record
- modifying the current value
- inserting a violation for certain MCL or Monitoring violations (i.e., C1105, VIO-TYPE is '01' through '04' or '21' through '26') [E8U]
- inserting a violation for MPL Non-Compliance violations (i.e., C1105, VIO-TYPE is '63') [E8V]

When specified:

- must be one of the Violation Type Codes (see Section VI; Table ID08):
 - '01' - MCL, Single Sample
 - '02' - MCL, Average
 - '03' - Monitoring, Regular
 - '04' - Monitoring, Check/Repeat/Confirmation
 - '05' - Notification, State
 - '06' - Notification, Public
 - '07' - Treatment Techniques
 - '08' - Variance/Exemption/Other Compliance
 - '09' - Record Keeping
 - '10' - Operations Report
 - '21' - MCL, Acute (TCR)
 - '22' - MCL, Monthly (TCR)
 - '23' - Monitoring, Routine Major (TCR)
 - '24' - Monitoring, Routine Minor (TCR)
 - '25' - Monitoring, Repeat Major (TCR)
 - '26' - Monitoring, Repeat Minor (TCR)
 - '28' - Sanitary Survey (TCR)
 - '31' - Monitoring, Routine/Repeat (SWTR-Unfilt)
 - '36' - Monitoring, Routine/Repeat (SWTR-Filter)
 - '41' - Treatment Technique (SWTR)
 - '51' - Initial Tap Sampling for Pb and Cu
 - '52' - Follow-up and Routine Tap Sampling
 - '53' - Initial Water Quality Parameter WQP M&R
 - '54' - Follow-up & Routine E.P. WQP M&R
 - '55' - Follow-up & Routine Tap WQP M&R
 - '56' - Initial, Follow-up, or Routine SOWT M&R
 - '57' - OCCT Study Recommendation
 - '58' - OCCT Installation/Demonstration
 - '59' - WQP Entry Point Non-Compliance
 - '60' - WQP Tap Non-Compliance
 - '61' - SOWT Recommendation
 - '62' - SOWT Installation
 - '63' - MPL Non-Compliance
 - '64' - Lead Service Line Replacement (LSLR)
 - '65' - Public Education
- Position 1 through 2 of the violation ID (i.e., FY portion) must be greater than '89' when the violation type is '31', '36' or '41' [E3K]

● Comments

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

Another violation type code is maintained in data element C1289, ENF-LINK-VIO-TYPE.

VIO-TYPE must be valued for a new VIOLATION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VIO-COMP-PERIOD-BEGIN-DATE

● Description

A value that represents the calendar date of the beginning of a monitoring period in which a public water system was determined to be in violation of a primary drinking water regulation.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>2</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a violation record
- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- Must be the same as, or before the current calendar date [EQW]
- must be before the compliance period end date (C1109, VIO-COMP-PERIOD-END-DATE), when the end date has been specified [EER]
- must not be after the violation awareness date (C1115, VIO-AWARE-DATE) for MCL violations (i.e., C1105, VIO-TYPE is "01", "02", "21" or "22") [E9P]
- must be after September 30, 1989 (09/30/89) when the violation type (C1105, VIO-TYPE) indicates a Surface Water Treatment Rule (SWTR) violation (i.e., "31", "36" or "41") [EIA]
- must be after June 30, 1992 (06/30/92) when the violation type (C1105, VIO-TYPE) indicates a Notification violation (i.e., "05" or "06") and the violation contaminant code indicates a Lead and Copper violation (i.e., C1103, VIO-CONTAMINANT is "5000") [EIB]

● Comments

Data element C1109, VIO-COMP-PERIOD-END-DATE, identifies the ending calendar date of the monitoring period.

Data element C1111, VIO-COMP-PERIOD-MONTHS, identifies the duration (in calendar months) of the monitoring period.

Another period begin date is maintained in C1287, ENF-LINK-PERIOD-BEGIN.

VIO-COMP-PERIOD-BEGIN-DATE must be valued for a new VIOLATION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VIO-COMP-PERIOD-END-DATE

● Description

A value that represents the calendar date of the end of a monitoring period in which a public water system was in violation of a primary drinking water regulation.

● Source

FRDS-II Data Transfer File	
Form ID:	D1
Data Qualifiers:	PWS-ID
	VIO-ID
Maximum Length:	6

● Data Characteristics

Data Base Record:	C1100	VIO-LATION-DATA
Data Base Family:	7	Registration Requirement:
Data Category:	60	Grant Requirement:
Data Type:	DATE	Access:
Picture:	MMDDYY	Code Table ID:
		N/A

● Edit Criteria

Must be specified when:

- inserting certain violations (i.e., C1105, VIO-TYPE is '01' through '28', '52', '55' through '57', '60', '63' or '65') and the violation duration (C1111, VIO-COMP-PERIOD-MONTHS) is not specified [E9Q]
- modifying the current value

Should not be specified when the violation duration (C1111, VIO-COMP-PERIOD-MONTHS) is specified

When specified:

- must be a six digit numeric calendar date, comprised of:
 - month, in position 1 - 2; day, in position 3 - 4; and year, in position 5 - 6
- must be before the current calendar date, unless the violation type (C1105, VIO-TYPE) is '01', '02' or '41' [EEB]
- must be after June 30, 1991 (06/30/91) when the violation type (C1105, VIO-TYPE) is '51' through '65' [EHY]
- the violation duration must be between 1 and 12 months, when the violation type (C1105, VIO-TYPE) is '21' through '28' [EHC]
- the violation duration must be between 1 and 60 months, inclusive, when the violation type (C1105, VIO-TYPE) indicates a Regular Monitoring violation (i.e., '03') and the contaminant code (C1103, VIO-CONTAMINANT) indicates a volatile organic chemical group code (i.e., position 2 of C1103 is 'U' or 'V') [EHD]
- the violation duration must be between 1 and 120 months, inclusive, when the violation type (C1105, VIO-TYPE) indicates an MCL, Monitoring, Notification or Sanitary Survey violation (i.e., '01' through '06' or '28') [EHF]
- the violation duration must be 1 month when the violation type (C1105, VIO-TYPE) is '31', '36' or '41' [EHK]
- must be greater than the compliance period begin date (C1107, VIO-COMP-PERIOD-BEGIN-DATE) [EGM]
- the violation duration must be 3 months when the violation type (C1105, VIO-TYPE) indicates a Follow-up & Routine E.P. WQP M&R or a WQP Entry Point Non-Compliance violation (i.e., '54' or '59') [EHM]
- the violation duration must be 6 months when the violation type (C1105, VIO-TYPE) indicates an Initial Tap Sampling for Pb and Cu, Initial Water Quality Parameter WQP M&R, or SOWT Recommendation violation (i.e., '51', '53' or '61') [EHN]
- the violation duration must be 12 months when the violation type (C1105, VIO-TYPE) indicates an LSLR violation (i.e., '84') [EHO]
- the violation duration must be 24 months when the violation type (C1105, VIO-TYPE) is '58' or '62' [EHP]
- the violation duration must be either 6 or 12 months when the violation type (C1105, VIO-TYPE) indicates a Follow-up & Routine Tap WQP M&R, WQP Tap Non-Compliance or Public Education violation (i.e., '55', '60' or '65') [EHR]
- the violation duration must be either 6 or 18 months when the violation type (C1105, VIO-TYPE) is '57' [EHS]
- the violation duration must be 6, 12 or 36 months when the violation type (C1105, VIO-TYPE) is '52' [EHT]
- the violation duration must be 6, 12, 36 or 108 months when the violation type (C1105, VIO-TYPE) is '56' [EHU]
- the violation duration must be 12, 36 or 108 months when the violation type (C1105, VIO-TYPE) is '63' [EHV]
- must not be after the violation awareness date (C1115, VIO-AWARE-DATE) for non-MCL violations (i.e., C1105, VIO-TYPE is '03' through '06', '23' through '26', '31' '36' or '51' through '65') [E9R]
- the number of months between the compliance period begin date (C1107, VIO-COMP-PERIOD-BEGIN-DATE) and the compliance period end date (C1109, VIO-COMP-PERIOD-END-DATE) must agree with the violation duration (C1111, VIO-COMP-PERIOD-MONTHS) when all three are specified [E9O]

Additionally, if a compliance period end date and the violation duration are both specified and they are inconsistent in relation to the compliance period begin date, the worst case scenario will be assumed.

● Comments

Data element C1107, VIO-COMP-PERIOD-BEGIN-DATE, identifies the beginning calendar date of the monitoring period.

Data element C1111, VIO-COMP-PERIOD-MONTHS, identifies the duration (in calendar months) of the monitoring period.

If the monitoring period duration (i.e., C1111, VIO-COMP-PERIOD-MONTHS) is not reported by the State, this data element must be valued for a new violation to be inserted into the FRDS-II Data Base for violation types 01 through 28, 52, 55 through 57, 60, 63, and 65.

If this value is not input directly, FRDS-II will assign a value based upon the period of time defined by VIO-COMP-PERIOD-BEGIN-DATE and VIO-COMP-PERIOD-MONTHS for violation types 01 through 28, 52, 55 through 57, 60, 63, and 65.

If this value is not input directly, FRDS-II will assign a value of 1 month after the VIO-COMP-PERIOD-BEGIN-DATE for violation types 31, 36, and 41

Name: VIO-COMP-PERIOD-MONTHS

● Description

A numeric value that represents the number of calendar months in a monitoring period during which a public water system was in violation of a primary drinking water regulation.

● Source

FRDS-II Data Transfer File	
Form ID:	D1
Data Qualifiers:	PWS-ID
	VIO-ID
Maximum Length:	3

● Data Characteristics

Data Base Record:	C1100	VIO-LATION-DATA
Data Base Family:	7	Registration Requirement:
Data Category:	30	Grant Requirement:
Data Type:	INTEGER	Access:
Picture:	9(3)	Code Table ID:
		N/A

● Edit Criteria

Must be specified when:

- Inserting certain violations (i.e., C1105, VIO-TYPE is "01" through "28", "52", "55" through "57", "60", "63" or "65") and the compliance period end date (C1109, VIO-COMP-PERIOD-END-DATE) is not specified [E9Q]
- modifying the current value

Should not be specified when the compliance period end date (C1109, VIO-COMP-PERIOD-END-DATE) is specified

When specified:

- must be an integer number
- the violation duration must be between 1 and 12 months, when the violation type (C1105, VIO-TYPE) is "21" through "26" [EHC]
- the violation duration must be between 1 and 60 months, inclusive, when the violation type (C1105, VIO-TYPE) indicates a Regular Monitoring violation (i.e., "03") and the contaminant code (C1103, VIO-CONTAMINANT) indicates a volatile organic chemical group code (i.e., position 2 of C1103 is "U" or "V") [EHD]
- the violation duration must be between 1 and 120 months, inclusive, when the violation type (C1105, VIO-TYPE) indicates an MCL, Monitoring, Notification or Sanitary Survey violation (i.e., "01" through "06" or "28") [EHF]
- the violation duration must be 1 month when the violation type (C1105, VIO-TYPE) indicates an Surface Water Treatment Rule (SWTR) violation (i.e., "31", "36" or "41") [EHK]
- the violation duration must be 3 months when the violation type (C1105, VIO-TYPE) indicates a Follow-up & Routine E.P. WQP M&R or a WQP Entry Point Non-Compliance violation (i.e., "54" or "59") [EHM]
- the violation duration must be 6 months when the violation type (C1105, VIO-TYPE) indicates an Initial Tap Sampling for Pb and Cu, Initial Water Quality Parameter WQP M&R, or SOWT Recommendation violation (i.e., "51", "53" or "61") [EHN]
- the violation duration must be 12 months when the violation type (C1105, VIO-TYPE) indicates an LSLR violation (i.e., "64") [EHO]
- the violation duration must be 24 months when the violation type (C1105, VIO-TYPE) indicates an OCCT Installation/Demonstration or SOWT Installation violation (i.e., "58" or "62") [EHP]
- the violation duration must be either 6 or 12 months when the violation type (C1105, VIO-TYPE) indicates a Follow-up & Routine Tap WQP M&R, WQP Tap Non-Compliance or Public Education violation (i.e., "55", "60" or "65") [EHR]
- the violation duration must be either 6 or 18 months when the violation type (C1105, VIO-TYPE) indicates a OCCT Study Recommendation violation (i.e., "57") [EHS]
- the violation duration must be 6, 12 or 36 months when the violation type (C1105, VIO-TYPE) indicates a Follow-up and Routine Tap Sampling violation (i.e., "52") [EHT]
- the violation duration must be 6, 12, 36 or 108 months when the violation type (C1105, VIO-TYPE) indicates an Initial, Follow-up, or Routine SOWT M&R violation (i.e., "56") [EHU]
- the violation duration must be 12, 36 or 108 months when the violation type (C1105, VIO-TYPE) is "63" [EHV]
- the number of months between the compliance period begin date (C1107, VIO-COMP-PERIOD-BEGIN-DATE) and the compliance period end date (C1109, VIO-COMP-PERIOD-END-DATE) must agree with the violation duration (C1111, VIO-COMP-PERIOD-MONTHS) when all three are specified [E9Q]

Additionally, if a compliance period end date and the violation duration are both specified and they are inconsistent in relation to the compliance period begin date, the worst case scenario will be assumed

● Comments

Data element C1107, VIO-COMP-PERIOD-BEGIN-DATE, identifies the beginning calendar date of a monitoring period.

Data element C1109, VIO-COMP-PERIOD-END-DATE, identifies the ending calendar date of a monitoring period.

If the ending date of the monitoring period (i.e., C1109, VIO-COMP-PERIOD-END-DATE) is not reported by the State, this data element must be valued for a new violation to be inserted into the FRDS-II Data Base for violation types 01 through 28, 52, 55 through 57, 60, 63, and 65.

If this value is not input directly, FRDS-II will assign a value based upon the period of time defined by VIO-COMP-PERIOD-BEGIN-DATE and VIO-COMP-PERIOD-END-DATE for violation types 01 through 28, 52, 55 through 57, 60, 63, and 65.

If this value is not input directly, FRDS-II will assign a value of 1 for violation types 31, 36, and 41.

Name: VIO-AWARE-DATE

● Description

A value that represents the calendar date on which the State became aware of the existence of a violation of a primary drinking water regulation by a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>4</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a violation for an MCL violation (i.e., C1105, VIO-TYPE of '01' or '02') for Inorganic, Organic and Radiological Contaminants (i.e., C1103, VIO-CONTAMINANT of '1nnn', '2nnn' and '4nnn', respectively) [E7N]
- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must be before the current calendar date, unless the violation type (C1105, VIO-TYPE) indicates a monitoring and reporting violation (i.e., '01', '02' or '41') [EEB]
- must not be before the compliance period begin date (C1107, VIO-COMP-PERIOD-BEGIN-DATE) for MCL violations (i.e., C1105, VIO-TYPE is '01', '02', '21' or '22') [E9P]
- must not be before the compliance period end date (C1109, VIO-COMP-PERIOD-END-DATE) for non-MCL violations (i.e., C1105, VIO-TYPE is '03' through '06', '23' through '26', '31' '36' or '51' through '65') [E9R]

● Comments

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

This data element must be valued for a new MCL violation (types 01 and 02) other than Bacti or Turbidity contaminants to be inserted into the FRDS-II Data Base.

Name: VIO-INSERT-DATE

● Description

A computed value that represents the calendar date on which a violation data base record was initially posted to the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State.

VIO-INSERT-DATE is determined automatically by the FRDS-II computer system during its normal course of operation when a new violation data base record is initially inserted into the FRDS-II Data Base.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C1100</u> <u>VIOLATION-DATA</u>	
Data Base Family: <u>7</u>	Registration Requirement: <u>-</u>
Data Category: <u>60</u>	Grant Requirement: <u>NO</u>
Data Type: <u>DATE</u>	Access: <u>KEY</u>
Picture: <u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

- month, in position 1 - 2;
- day, in position 3 - 4; and
- year, in position 5 - 6

● Comments

This date is valued for State reported data only (i.e., data submitted via DTF transactions).

Other insert dates are maintained in the following data elements:

- | | |
|----------------------------------|--------------------------|
| ■ C168 PWS-INSERT-DATE | ■ C1213 ENF-INSERT-DATE |
| ■ C811 PWS-MILESTONE-INSERT-DATE | ■ C3033 VE-INSERT-DATE ^ |

Name: VIO-ANALYSIS-METHOD

● Description

A code value that represents the analysis technique or method that was used to obtain an analytical result which led to the identification of an MCL violation for a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(3)</u>	Code Table ID: <u>1121</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Must only be specified when inserting or modifying a Simple MCL or Average MCL violation (i.e., C1105, VIO-TYPE of '01' or '02') [EYA]

Should be specified when inserting or modifying a Simple MCL or Average MCL violation (i.e., C1105, VIO-TYPE of '01' or '02')

When specified:

- must be one of the Analysis Method Codes (see Section VI; Table 1121)

● Comments

VIO-ANALYSIS-METHOD is applicable only to MCL violations.

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

Data element C1123, VIO-ANALYSIS-RESULT, identifies the analytical result which led to an MCL violation.

Name: VIO-ANALYSIS-RESULT

● Description

A numeric value that represents the result obtained from a single analysis, or the average result obtained from multiple analyses, that led to the identification of an MCL violation for a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>15</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>4</u>
Data Category:	<u>41</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DECIMAL</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(7).9(8)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a violation for an MCL violation (i.e., C1105, VIO-TYPE of '01' or '02') for Inorganic, Organic and Radiological Contaminants (i.e., C1103, VIO-CONTAMINANT of '1nnn', '2nnn' and '4nnn', respectively) [E7P]
- modifying the current value

Must only be specified when inserting or modifying a Simple MCL or Average MCL violation (i.e., C1105, VIO-TYPE of '01' or '02') [EYA]

When specified:

- must be a numeric real number
- whole portion cannot exceed seven digits
- decimal portion cannot exceed eight digits
- a decimal point may or may not be included
- a decimal point must be specified when a fractional amount is intended
- must not be a negative number [EGA]

● Comments

VIO-ANALYSIS-RESULT is applicable only to MCL violations.

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

This data element must be valued for a new MCL violation (types 01 and 02) other than Bacti or Turbidity contaminants to be inserted into the FRDS-II Data Base.

Name: VIO-MCL-VIOLATED

● Description

A numeric value that represents the maximum contaminant level which was exceeded that led to the identification of an MCL violation for a public water system

● Source

FRDS-II Data Transfer File	
Form ID:	D1
Data Qualifiers:	PWS-ID
	VIO-ID
Maximum Length:	15

● Data Characteristics

Data Base Record:	C1100	VIOLATION-DATA	
Data Base Family:	7	Registration Requirement:	4
Data Category:	41	Grant Requirement:	NO
Data Type:	DECIMAL	Access:	NON-KEY
Picture:	9(7).9(8)	Code Table ID:	N/A

● Edit Criteria

Must be specified when:

- inserting a violation record for an Simple MCL or Average MCL violation where the Maximum Contaminant Level violated is other than the Federal MCL
- modifying the current value

Must only be specified when inserting or modifying a Simple MCL or Average MCL violation (i.e., C1105, VIO-TYPE of '01' or '02') [EYA]

When specified:

- must be a numeric real number
- whole portion cannot exceed seven digits
- decimal portion cannot exceed eight digits
- a decimal point may or may not be included
- a decimal point must be specified when a fractional amount is intended
- must not be a negative number [EGA]

● Comments

VIO-MCL-VIOLATED is applicable only to MCL violations.

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

Data element C1123, VIO-ANALYSIS-RESULT, identifies the analytical result which led to an MCL violation.

For MCL violations in which the maximum contaminant level differs from the Federal regulation, this data element must be valued for a new violation to be inserted into the FRDS-II Data Base.

Name: VIO-SAMPLES-REQUIRED

● Description

A numeric value that represents the number of samples that were required to be collected, analyzed, and reported by a public water system for a specific monitoring period.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting a SWTR Monitoring violation (i.e., C1105, VIO-TYPE is '31' or '36') and the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) is not specified [E9M]
- modifying the current value

Must not be specified when:

- Inserting or modifying a MCL violation (i.e., C1105, VIO-TYPE of '01' or '02') [EXB]
- Inserting or modifying a Notification violation (i.e., C1105, VIO-TYPE of '05' or '06') [EXL]
- Inserting or modifying a TCR violation (i.e., C1105, VIO-TYPE of '21', '22' or '28') [EXM]
- Inserting or modifying a Treatment Technique violation (i.e., C1105, VIO-TYPE of '41') [EXN]
- Inserting or modifying a Lead or Copper violation (i.e., C1105, VIO-TYPE of '51' through '65') [EXD]

Should only be specified for Regular Monitoring (i.e., C1105, VIO-TYPE of '03') violations or SWTR Monitoring (i.e., C1105, VIO-TYPE of '31' or '36') violations

When specified:

- must be an integer number
- must be greater than zero [EGC]

For SWTR Monitoring violations, when all three data elements are specified, the percentage difference between the number of samples required (C1127, VIO-SAMPLES-REQUIRED) and the number of samples taken (C1129, VIO-SAMPLES-TAKEN) must agree with the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) [E7J]

● Comments

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

Data element C1129, VIO-SAMPLES-TAKEN, identifies the number of samples that were actually collected, analyzed, and reported.

Name: VIO-SAMPLES-TAKEN

● Description

A numeric value that represents the number of samples that were actually collected, analyzed, and reported by a public water system for a specific monitoring period.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>4</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting a Regular Monitoring violation (i.e., C1105, VIO-TYPE is '03') and the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) is not specified [E9T]
- Inserting a SWTR Monitoring violation (i.e., C1105, VIO-TYPE is '31' or '36') and the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) is not specified [E9M]
- modifying the current value

Must not be specified when:

- Inserting or modifying a MCL violation (i.e., C1105, VIO-TYPE of '01' or '02') [EXB]
- Inserting or modifying a Notification violation (i.e., C1105, VIO-TYPE of '05' or '06') [EXL]
- Inserting or modifying a TCR violation (i.e., C1105, VIO-TYPE of '21', '22' or '28') [EXM]
- Inserting or modifying a Lead or Copper violation (i.e., C1105, VIO-TYPE of '51' through '65') [EXD]

Should not be specified when inserting or modifying a violation record when the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) is valued

When specified.

- must be an integer number
- must not be a negative number [EGA]
- must be less than the number of samples required (C1127, VIO-SAMPLES-REQUIRED), when both items are submitted [EEI]

For SWTR Monitoring violations, when all three data elements are specified, the percentage difference between the number of samples required (C1127, VIO-SAMPLES-REQUIRED) and the number of samples taken (C1129, VIO-SAMPLES-TAKEN) must agree with the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) [E7J]

Additionally, for Monitoring violations (i.e., C1105, VIO-TYPE is '03' or '04'), when the number of samples taken (C1129, VIO-SAMPLES-TAKEN) and the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) both have been specified, and an inconsistency exists, the worst case scenario will be assumed [E9Y]

● Comments

VIO-SAMPLES-TAKEN is applicable only to monitoring or reporting violations.

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

Data element C1127, VIO-SAMPLES-REQUIRED, identifies the number of samples that were required to be collected, analyzed, and reported.

For monitoring or reporting violations for which the major violation flag (i.e., C1131, VIO-MAJOR-VIOLATION-FLAG) is not reported by the State, this data element must be valued for a new violation to be inserted into the FRDS-II Data Base for violation type 03.

If this value is not input directly, FRDS-II will assign a value, as follows:

- zero for violation types 03 and 04 when data element C1131, VIO-MAJOR-VIOLATION-FLAG, is equal to "Y"
- 001 for violation types 03 and 04 when data element C1131, VIO-MAJOR-VIOLATION-FLAG, is equal to "N"

Name: VIO-MAJOR-VIOLATION-FLAG

● Description

A code value that indicates the severity of an M&R violation, major or minor. The major versus minor designation does not apply to a sanitary survey M&R violation.

The definition of what constitutes a major vs. minor M&R violation varies, dependent upon the rule in question. Refer to the terms "Major Violation" and "Minor Violation" in the Glossary in Section VIII of the Data Element Dictionary for comprehensive definitions.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record: <u>C1100</u> VIOLATION-DATA	
Data Base Family:	<u>7</u>
Data Category:	<u>10</u>
Data Type:	<u>CHARACTER</u>
Picture:	<u>X(1)</u>
Registration Requirement:	<u>4</u>
Grant Requirement:	<u>NO</u>
Access:	<u>KEY</u>
Code Table ID:	<u>1131</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- inserting a Regular Monitoring violation (i.e., C1105, VIO-TYPE is "03") and the number of samples taken (C1129, VIO-SAMPLES-TAKEN) is not specified [E9T]
- inserting a SWTR Monitoring violation (i.e., C1105, VIO-TYPE is "31" or "36") and the number of samples required (C1127, VIO-SAMPLES-REQUIRED) or the number of samples taken (C1129, VIO-SAMPLES-TAKEN) is not specified [E9M]
- inserting or modifying a Treatment Technique violation (i.e., C1105, VIO-TYPE of "41") [EXN]

Must not be specified when:

- inserting or modifying a MCL violation (i.e., C1105, VIO-TYPE of "01" or "02") [EXB]
- inserting or modifying a Lead or Copper violation (i.e., C1105, VIO-TYPE of "51" through "65") [EXD]

Should not be specified when inserting or modifying a violation record for Regular Monitoring (C1105 of "03") or SWTR Monitoring (C1105 of "31" or "36") violations when the number of samples taken (C1129, VIO-SAMPLES-TAKEN) is valued

When specified:

- must be one of the Major/Minor Violation Flag Codes (see Section VI; Table 1131):
- "N" - Minor Monitoring Violation
- "Y" - Major Monitoring Violation

For SWTR Monitoring violations, when all three data elements are specified, the percentage difference between the number of samples required (C1127, VIO-SAMPLES-REQUIRED) and the number of samples taken (C1129, VIO-SAMPLES-TAKEN) must agree with the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) [E7J]

For TCR Routine Monitoring violations, the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) must agree with the violation type (C1105, VIO-TYPE) [E7M]

Additionally, for Monitoring violations (i.e., C1105, VIO-TYPE is "03" or "04"), when the number of samples taken (C1129, VIO-SAMPLES-TAKEN) and the major violation flag (C1131, VIO-MAJOR-VIOLATION-FLAG) both have been specified, and an inconsistency exists, the worst case scenario will be assumed [E9Y]

● Comments

VIO-MAJOR-VIOLATION-FLAG is applicable only to monitoring or reporting violations.

Data element C1103, VIO-CONTAMINANT, identifies the contaminant for which a public water system incurred a violation.

Data element C1127, VIO-SAMPLES-REQUIRED, identifies the number of samples that were required to be collected, analyzed, and reported.

Data element C1129, VIO-SAMPLES-TAKEN, identifies the number of samples that were actually collected, analyzed, and reported.

For monitoring or reporting violations for which the samples taken (i.e., C1129, VIO-SAMPLES-TAKEN) is not reported by the State, this data element must be valued for a new violation to be inserted into the FRDS-II Data Base for violation type 03.

If this value is not input directly, FRDS-II will assign a value, as follows:

- "Y" for violation types 03 and 04 when data element C1129, VIO-SAMPLES-TAKEN, is equal to zero
- "N" for violation types 03 and 04 when data element C1129, VIO-SAMPLES-TAKEN, is greater than zero
- "Y" for violation types 23 and 25
- "N" for violation types 24 and 26
- "Y" for violation types 31 and 36 when data element C1129, VIO-SAMPLES-TAKEN, is less than 90% of the value stored in data element C1127, VIO-SAMPLES-REQUIRED
- "N" for violation types 31 and 36 when data element C1129, VIO-SAMPLES-TAKEN, is greater than or equal to 90% of the value stored in data element C1127, VIO-SAMPLES-REQUIRED

Name: VIO-LAST-UPDATE

● Description

A computed value that represents the calendar date on which a violation was initially posted to the FRDS-II Data Base or when a subsequent State-supplied violation modification was made.

The term computed, as used here, implies that this date is not reported by the State.

VIO-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation whenever a violation data base record is inserted into the FRDS-II Data Base or when it is subsequently modified.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other last update dates are maintained the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C29 ST-SAMPLE-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C187 PWS-INV-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: VIO-FY

● Description

A computed numeric value that represents the Federal fiscal year in which the State became aware of the violation.

The term computed, as used here, implies that this value is not reported by the State. VIO-FY is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>-</u>
Data Category:	<u>31</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

The Federal fiscal year in the range 80 to the current fiscal year (90 to present for SWTR violations), inclusive

● Comments

Other Federal fiscal year's are maintained in the following data elements:

- C1209 ENF-FY
- C2117 SAMPLE-FY
- C3023 VE-FY

Name: VIO-DATA-ORIGIN

● Description

A code value that represents the source or origin of the various values that are maintained in the C1100, VIOLATION-DATA, data base record.

Examples of VIO-DATA-ORIGIN include sources or origins such as State reported, reported by an EPA region, generated by the FRDS-II computer system during its normal course of operation, etc.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C1100</u> <u>VIOLATION-DATA</u>	
Data Base Family: <u>7</u>	Registration Requirement: <u>-</u>
Data Category: <u>10</u>	Grant Requirement: <u>NO</u>
Data Type: <u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture: <u>X(1)</u>	Code Table ID: <u>ID07</u>

● Acceptable Values

Entries from the Record Data Origin Codes (see Section VI; Table ID07):

- 'H' - Headquarters (EPA) supplied data (EPA Use Only)
- 'R' - Region (EPA) supplied data (EPA Use Only)
- 'S' - State supplied data

● Comments

This value is not input directly by the State. Rather, it is conveyed to Production Control at the time the data is to be processed. Production Control then communicates to FRDS-II the correct value to assign to this data element.

Other data origins are maintained in the following data elements:

- C413 PWS-SE-DATA-ORIGIN
- C517 PWS-GA-DATA-ORIGIN
- C809 PWS-MILESTONE-ORIGIN
- C1211 ENF-DATA-ORIGIN
- C3025 VE-DATA-ORIGIN

This value cannot be modified.

Name: VIO-SE-ID

● Description

A numeric value used to uniquely identify a specific source of water that is utilized by, or an entity (e.g., an entry point, a treatment plant, or other related facility) that is related to, a public water system.

Violations are incurred by a public water system, not by specific sources or entry points. However, this data element offers the opportunity to designate a specific source/entity at which the violation was incurred.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>D1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VIO-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C1100</u>	<u>VIOLATION-DATA</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>-</u>
Data Category:	<u>31</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Must not be specified when inserting or modifying a Lead or Copper violation (i.e., C1105, VIO-TYPE of '51' through '65') [EXD]

When specified:

- must be an integer number
- must be less than or equal to 949 [EEH]

● Comments

For Chem/Rad violations, a VIO-SE-ID equal to zero means that the violation is 'system' specific. A VIO-SE-ID greater than zero means that the violation is 'sampling point' specific.

Other source/entity IDs are maintained in the following data elements:

- C401 PWS-SE-ID
- C2119 SAMPLE-SE-ID
- C3031 VE-SE-ID

Name: VIO-ENFORCEMENTS● **Description**

A SYSTEM 2000 data base record identification name and number.

The C1180, VIO-ENFORCEMENTS, data base record contains data elements that identify enforcement actions that are related to violations incurred by a public water system.

The FRDS-II Data Base has one VIO-ENFORCEMENTS data base record for each enforcement action that has been reported to EPA.

● **Data Characteristics**

Data Type: <u>RECORD</u>	Data Base Family: <u>7</u>	Parent Record: <u>C1100 VIOLATION-DATA</u>
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● **Record Contents**

This data base record contains the following data elements:

- | | |
|---------------------------|-----------------------------------|
| ■ C1181 VIO-LINK-ENF-ID | ■ C1185 VIO-LINK-FOLLOW-UP-ACTION |
| ■ C1183 VIO-LINK-ENF-DATE | |

● **Comments**

Each data element name contained within the VIO-ENFORCEMENTS data base record is prefaced with: VIO-LINK-

Name: VIO-LINK-ENF-ID

● Description

A computed alphanumeric value that represents a specific enforcement action that is related to a unique violation.

VIO-LINK-ENF-ID is of the form: yy nnnnn (space inserted for clarity only)

Where: yy = the Federal fiscal year in which the enforcement action was taken by the State

nnnnn = an enforcement action identification number assigned by the State or generated by the FRDS-II computer system (the first position consists of the letter 'E' if the ID was generated)

The term computed, as used here, implies that this ID is not reported by the State. VIO-LINK-ENF-ID is determined automatically by the FRDS-II computer system when the State inserts a new enforcement action into the FRDS-II Data Base.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C1180</u>	<u>VIO-ENFORCEMENTS</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>-</u>
Data Category:	<u>23</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(7)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An alphanumeric value representing an Enforcement ID (see C1201, ENF-ID)

● Comments

Since multiple enforcement actions can relate to a single violation, the FRDS-II computer system determines what specific enforcement action(s) are related to each unique violation.

Another enforcement action ID is maintained in data element C1201, ENF-ID.

Name: VIO-LINK-ENF-DATE

● Description

A computed value that represents the calendar date on which an enforcement action was taken by the State against a public water system.

The term computed, as used here, implies that this value is not reported by the State. VIO-LINK-ENF-DATE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C1180</u>	<u>VIO-ENFORCEMENTS</u>
Data Base Family:	<u>7</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

Another enforcement date is maintained in C1203, ENF-ACTION-DATE.

Name: VIO-LINK-FOLLOW-UP-ACTION

● Description

A computed value that represents the enforcement action that was taken by the State against a public water system.

The term computed, as used here, implies that this value is not reported by the State. VIO-LINK-FOLLOW-UP-ACTION is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C1180</u>	<u>VIO-ENFORCEMENTS</u>
Data Base Family: <u>7</u>	Registration Requirement: <u>-</u>
Data Category: <u>10</u>	Grant Requirement: <u>NO</u>
Data Type: <u>CHARACTER</u>	Access: <u>KEY</u>
Picture: <u>X(3)</u>	Code Table ID: <u>ID09</u>

● Acceptable Values

Entries from the Enforcement Follow-up Action Codes (see Section VI; Table ID09):

● Comments

Another follow-up action is maintained in C1205, ENF-FOLLOW-UP-ACTION.

Name: ENFORCEMENT-DATA

● Description

A SYSTEM 2000 data base record identification name and number.

The C1200, ENFORCEMENT-DATA, data base record contains data elements that characterize an enforcement action taken by the State against a public water system in response to a violation.

The FRDS-II Data Base has one ENFORCEMENT-DATA data base record for each enforcement action that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>8</u>	Parent Record: <u>C1000 NON-COMPLIANCE-DATA</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|------------------------------|-------------------------|
| ■ C1201 ENF-ID | ■ C1209 ENF-FY |
| ■ C1203 ENF-ACTION-DATE | ■ C1211 ENF-DATA-ORIGIN |
| ■ C1205 ENF-FOLLOW-UP-ACTION | ■ C1213 ENF-INSERT-DATE |
| ■ C1207 ENF-LAST-UPDATE | ■ C1215 ENF-COMMENT |

● Comments

Each data element name contained within the ENFORCEMENT-DATA data base record is prefaced with: ENF-

Name: ENF-ID

● Description

An alphanumeric value used to uniquely identify a specific enforcement action taken by the State against a public water system. It is unique for each public water system within the Federal fiscal year in which the enforcement action was taken by the State.

ENF-ID is of the form: yy nnnnn (space inserted for clarity only)

Where: yy = the Federal fiscal year in which the enforcement action was taken by the State

nnnnn = an enforcement action identification number assigned by the State or generated by the FRDS-II computer system (the first position consists of the letter 'E' if the ID was generated)

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>7</u>

● Data Characteristics

Data Base Record:	<u>C1200</u>	ENFORCEMENT-DATA
Data Base Family:	<u>8</u>	Registration Requirement: <u>3</u>
Data Category:	<u>23</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(7)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting an enforcement action record

When specified:

- position 1 - 2 must be the Federal fiscal year of the enforcement action
- position 1 - 2 must be greater than 77 and less than or equal to the current Federal fiscal year
- position 3 must be 'G' or 'E', or position 3 - 7 must be numeric
- position 3 must not be 'E' when inserting a enforcement action record
- position 3 must not be 'G' when modifying or deleting a enforcement action record
- and position 3 is 'G' or 'E':
 - position 4 - 7 must be numeric
 - position 4 - 7 must be greater than zero
- and position 1 is neither 'G' nor 'E':
 - position 1 - 7 must be numeric
 - position 1 - 7 must be greater than zero
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a enforcement action record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a enforcement action record
- and position 1 is 'E':
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a enforcement action record

Each new enforcement action record must include values for those data elements within the enforcement action record (C1200, ENFORCEMENT-DATA) that are identified as Registration Requirement data elements (see 'Data Characteristics' on this page) [ERR]

● Comments

If desired, the user can have the FRDS-II computer system generate an ENF-ID number by specifying a Group Generation Code (GGC) when a new enforcement action data base record is to be inserted into the base. This is accomplished by inserting the GGC in positions 3-7 of the ENF-ID.

Another enforcement action ID is maintained in data element C1181, VIO-LINK-ENF-ID.

ENF-ID must be valued for a new ENFORCEMENT-DATA data base record to be inserted into the FRDS-II Data Base.

Name: ENF-ACTION-DATE

● Description

A value that represents the calendar date on which an enforcement action was taken by the State against a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C1200</u>	<u>ENFORCEMENT-DATA</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>2</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting an enforcement action record
- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2,
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must be before the current calendar date [EEA]

● Comments

Another enforcement date is maintained in C1183, VIO-LINK-ENF-DATE.

ENF-ACTION-DATE must be valued for a new ENFORCEMENT-DATA data base record to be inserted into the FRDS-II Data Base.

Name: ENF-FOLLOW-UP-ACTION

● Description

A code value that represents an enforcement action that was taken by the State against a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C1200</u>	ENFORCEMENT-DATA
Data Base Family:	<u>8</u>	Registration Requirement: <u>2</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(3)</u>	Code Table ID: <u>ID09</u>

● Edit Criteria

Must be specified when:

- inserting an enforcement action record
- modifying the current value

When specified:

- must be one of the Enforcement Follow-up Action Codes (see Section VI; Table ID09)
- Position 1 must be "S" when the data is submitted by the State [EFH]

● Comments

Another follow-up action is maintained in C1185, VIO-LINK-FOLLOW-UP-ACTION.

ENF-FOLLOW-UP-ACTION must be valued for a new ENFORCEMENT-DATA data base record to be inserted into the FRDS-II Data Base⁹

Name: ENF-LAST-UPDATE

● Description

A computed value that represents the calendar date on which an enforcement action was initially posted to the FRDS-II Data Base or when a subsequent State-supplied enforcement action modification was made.

The term computed, as used here, implies that this date is not reported by the State. ENF-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation when an enforcement action data base record is inserted into the FRDS-II Data Base or when it is subsequently modified.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C1200</u> <u>ENFORCEMENT-DATA</u>	
Data Base Family: <u>8</u>	Registration Requirement: <u>-</u>
Data Category: <u>60</u>	Grant Requirement: <u>NO</u>
Data Type: <u>DATE</u>	Access: <u>KEY</u>
Picture: <u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
 month, in position 1 - 2;
 day, in position 3 - 4; and
 year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other last update dates are maintained in the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C29 ST-SAMPLE-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C3021 VE-LAST-UPDATE |

Name: ENF-FY

● Description

A computed numeric value that represents the Federal fiscal year in which the enforcement action was taken by the State.

The term computed, as used here, implies that this value is not reported by the State. ENF-FY is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C1200</u>	<u>ENFORCEMENT-DATA</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>31</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

The Federal fiscal year in the range 80 to the current fiscal year, inclusive

● Comments

Other Federal fiscal year's are maintained in the following data elements:

- C1135 VIO-FY
- C2117 SAMPLE-FY
- C3023 VE-FY

Name: ENF-DATA-ORIGIN

● Description

A code value that represents the source or origin of the various values that are maintained in the C1200, ENFORCEMENT-DATA, data base record.

Examples of ENF-DATA-ORIGIN include sources or origins such as State reported, reported by an EPA region, generated by the FRDS-II computer system during its normal course of operation, etc.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C1200</u> <u>ENFORCEMENT-DATA</u>	
Data Base Family: <u>8</u>	Registration Requirement: <u>-</u>
Data Category: <u>10</u>	Grant Requirement: <u>NO</u>
Data Type: <u>CHARACTER</u>	Access: <u>KEY</u>
Picture: <u>X(1)</u>	Code Table ID: <u>ID07</u>

● Acceptable Values

Entries from the Record Data Origin Codes (see Section VI; Table ID07):

- "H" - Headquarters (EPA) supplied data (EPA Use Only)
- "R" - Region (EPA) supplied data ... (EPA Use Only)
- "S" - State supplied data

● Comments

This value is not input directly by the State. Rather, it is conveyed to Production Control at the time the data is to be processed. Production Control then communicates to FRDS-II the correct value to assign to this data element.

Other data origins are maintained in the following data elements:

- C413 PWS-SE-DATA-ORIGIN
- C517 PWS-GA-DATA-ORIGIN
- C809 PWS-MILESTONE-ORIGIN
- C1137 VIO-DATA-ORIGIN
- C3025 VE-DATA-ORIGIN

This value cannot be modified.

Name: ENF-INSERT-DATE

● Description

A computed value that represents the calendar date on which an enforcement action data base record was initially posted to the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. ENF-INSERT-DATE is determined automatically by the FRDS-II computer system during its normal course of operation when a new enforcement action data base record is initially inserted into the FRDS-II Data Base.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	C1200	ENFORCEMENT-DATA	
Data Base Family:	8	Registration Requirement:	-
Data Category:	60	Grant Requirement:	NO
Data Type:	DATE	Access:	NON-KEY
Picture:	MMDDYY	Code Table ID:	N/A

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4, and
year, in position 5 - 6

● Comments

This date is valued for State reported data only (i.e., data submitted via DTF transactions).

Other Insert dates are maintained in the following data elements:

- | | |
|----------------------------------|--------------------------|
| ■ C168 PWS-INSERT-DATE | ■ C1117 VIO-INSERT-DATE |
| ■ C811 PWS-MILESTONE-INSERT-DATE | ■ C3033 VE-INSERT-DATE ^ |

Name: ENF-COMMENT

● Description

An alphanumeric value that represents any description, characteristic, or attribute that the State or EPA region wants to record for the associated enforcement action data base record.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C1200</u>	<u>ENFORCEMENT-DATA</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

Only one comment is allowed per enforcement action data base record.

Other comments are maintained in the following data elements:

- C813 PWS-MILESTONE-COMMENT
- C4057 DBA-COMMENT

Name: ENF-VIOLATIONS

● Description

A SYSTEM 2000 data base record identification name and number.

The C1280, ENF-VIOLATIONS, data base record contains data elements that identify a violation that is associated with a unique enforcement action taken by the State against a public water system.

The FRDS-II Data Base has one ENF-VIOLATIONS data base record for each violation that is related to a unique enforcement action.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>8</u>	Parent Record: <u>C1200 ENFORCEMENT-DATA</u>
--------------------------	----------------------------	--

● Record Contents

This data base record contains the following data elements:

- | | |
|-------------------------------|------------------------------|
| ■ C1281 ENF-LINK-VIO-ID | ■ C1289 ENF-LINK-VIO-TYPE |
| ■ C1283 ENF-LINK-RANGE-BEGIN | ■ C1291 ENF-LINK-CONTAMINANT |
| ■ C1285 ENF-LINK-RANGE-END | ■ C1293 ENF-LINK-TYPE |
| ■ C1287 ENF-LINK-PERIOD-BEGIN | |

● Comments

Each data element name contained within the ENF-VIOLATIONS data base record is prefaced with: ENF-LINK-

Name: ENF-LINK-VIO-ID

● Description

A computed alphanumeric value that represents a specific violation that is related to a unique enforcement action.

ENF-LINK-VIO-ID is of the form: yy nnnnn (space inserted for clarity only)

Where: yy = the Federal fiscal year in which the State became aware of the violation

nnnnn = a violation identification number assigned by the State or generated by the FRDS-II computer system (the first position consists of the letter "V" if the ID was generated)

The term computed, as used here, implies that this ID is not reported by the State. ENF-LINK-VIO-ID is determined automatically by the FRDS-II computer system when the State inserts a new violation data base record into the FRDS-II Data Base.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>7</u>

● Data Characteristics

Data Base Record:	<u>C1280</u>	<u>ENF-VIOLATIONS</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>22</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(7)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting a violation link record with a "Y5000"

When specified:

- must be an alphanumeric value
- Position 1 through 2 must be between "78" and the current fiscal year [EIP]
- Position 3 of the violation link violation ID must be "V" or position 3 through 7 of the violation link violation ID must be numeric [E8M]
- Position 4 through 7 of the violation link violation ID must be numeric and greater than zero [E8N]

Additionally, the enforcement action date (C1203, ENF-ACTION-DATE) and enforcement action follow-up action (C1205, ENF-FOLLOW-UP-ACTION) must also be specified [E6U]

● Comments

Since multiple violations can relate to a single enforcement action, the FRDS-II computer system determines what specific violation(s) are related to each unique enforcement action.

If X5000 is used, ENF-LINK-VIO-ID will be generated only if the specified links are properly resolved. If Y5000 is used, ENF-LINK-VIO-ID will be generated from the Y5000 specification on Data Capture Form E1 only if the specified violation is found.

If Z5000 is used, ENF-LINK-VIO-ID will be generated only if the specified links are properly resolved. Another violation ID is maintained in data element C1101, VIO-ID.

Name: ENF-LINK-RANGE-BEGIN

● Description

The beginning date of the period covering those violations which are related to the associated enforcement action (i.e., ASSOCIATED VIOLATION RANGE).

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C1280</u>	<u>ENF-VIOLATIONS</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a violation link record with a "X5000" [E9U]

When specified:

- must be a six digit numeric calendar date, comprised of:
 - month, in position 1 - 2;
 - day, in position 3 - 4; and
 - year, in position 5 - 6
- must be before the violation link range end date (C1285, ENF-LINK-RANGE-END) [E9X]
- must not be after the enforcement action date (C1203, ENF-ACTION-DATE) [E9S]

Additionally, the enforcement action date (C1203, ENF-ACTION-DATE) and enforcement action follow-up action (C1205, ENF-FOLLOW-UP-ACTION) must also be specified [E6U]

● Comments

This data element is input as a portion of the X5000 specification on Data Capture Form E1.

Name: ENF-LINK-RANGE-END

● Description

The ending date of the period covering those violations which are related to the associated enforcement action (i.e., ASSOCIATED VIOLATION RANGE).

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C1280</u>	<u>ENF-VIOLATIONS</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must be after the violation link range begin date (C1283, ENF-LINK-RANGE-BEGIN) [E9X]
- must not be after the enforcement action date (C1203, ENF-ACTION-DATE) [E9S]

Additionally:

- a violation link range begin date (C1283, ENF-LINK-RANGE-BEGIN) must also be specified [E9U]
- the enforcement action date (C1203, ENF-ACTION-DATE) and enforcement action follow-up action (C1205, ENF-FOLLOW-UP-ACTION) must also be specified [E6U]

● Comments

This data element is input as a portion of the X5000 specification on Data Capture Form E1.

If ENF-LINK-RANGE-END is not specified in an X5000 specification, a value is assigned which is equal to the value stored in data element C1203, ENF-ACTION-DATE.

Name: ENF-LINK-PERIOD-BEGIN

● Description

A value that represents the calendar date of the beginning of the monitoring period during which a violation that is related to the enforcement action (i.e., part of the ASSOCIATED VIOLATION CONTAMINANT GROUP.) was incurred.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C1280</u>	<u>ENF-VIOLATIONS</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting or modifying a violation link record using a "Z5000" [E9Z]

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must not be after the enforcement action date (C1203, ENF-ACTION-DATE) [E9S]

Additionally, the enforcement action date (C1203, ENF-ACTION-DATE) and enforcement action follow-up action (C1205, ENF-FOLLOW-UP-ACTION) must also be specified [E6U]

● Comments

This data element is input as a portion of the Z5000 specification on Data Capture Form E1.

Name: ENF-LINK-VIO-TYPE

● Description

A value that represents the violation type of a violation that is related to the enforcement action (i.e., part of the ASSOCIATED VIOLATION CONTAMINANT GROUP).

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C1280</u>	<u>ENF-VIOLATIONS</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>ID08</u>

● Edit Criteria

Must be specified when:

- Inserting or modifying a violation link record using a "Z5000" [E9Z]

When specified:

- must be one of the Violation Type Codes (see Section VI; Table ID08)

Additionally:

- the enforcement action date (C1203, ENF-ACTION-DATE) and enforcement action follow-up action (C1205, ENF-FOLLOW-UP-ACTION) must also be specified [E6U]
- for certain MCL or Monitoring violations (i.e., C1105, VIO-TYPE is "01" through "04" or "21" through "26"), the violation link contaminant code must be also be specified [E8U]

● Comments

This data element is input as a portion of the Z5000 specification on Data Capture Form E1.

Another violation type code is maintained in C1105 VIO-TYPE.

Name: ENF-LINK-CONTAMINANT

● Description

A code value that represents an identification number of a contaminant for a violation that is related to the enforcement action (i.e., part of the ASSOCIATED VIOLATION CONTAMINANT GROUP).

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C1280</u>	<u>ENF-VIOLATIONS</u>
Data Base Family:	<u>8</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>ID06</u>

● Edit Criteria

When specified:

- must be one of the Contaminant Identification Codes (see Section VI; Table ID06)
- must not be a wild-card violation link contaminant code (i.e., a contaminant code containing an asterisk) unless the submitted data is for a Monitoring and Reporting violation (i.e., C1291, ENF-LINK-CONTAMINANT is "03" or "04") [E8Q]
- must not be a volatile organic chemical group code (i.e., position 2 of C1291 is "U" or "V") unless the violation link violation type is Monitoring and Reporting or a Notification violation (i.e., C1289, ENF-LINK-VIO-TYPE is "03" through "06") [E8R]
- inserting or modifying a violation link record for certain MCL or Monitoring violations (i.e., C1289, ENF-LINK-VIO-TYPE is "01" through "04" or "21" through "26") [E8U]

Additionally:

- a violation link violation type (C1289, ENF-LINK-VIO-TYPE) and violation link range begin date (C1287, ENF-LINK-PERIOD-BEGIN) must also be specified [E9Z]
- the enforcement action date (C1203, ENF-ACTION-DATE) and enforcement action follow-up action (C1205, ENF-FOLLOW-UP-ACTION) must also be specified [E6U]

● Comments

This data element value is generated from the Z5000 specification on Data Capture Form E1.

Other contaminant identification numbers are maintained in the following data elements:

- C1103 VIO-CONTAMINANT
- C1357 NCP-CONTAMINANT
- C2107 SAMPLE-CONTAMINANT
- C3003 VE-CONTAMINANT

Name: ENF-LINK-TYPE

● Description

A computed code value that represents the method used to relate violations to the enforcement action.

The term computed, as used here, implies that this value is not reported by the State. ENF-LINK-TYPE is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>E1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>ENF-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C1280</u>	<u>ENF-VIOLATIONS</u>	
Data Base Family:	<u>8</u>	Registration Requirement:	
Data Category:	<u>10</u>	Grant Requirement:	<u>NO</u>
Data Type:	<u>CHARACTER</u>	Access:	<u>KEY</u>
Picture:	<u>X(1)</u>	Code Table ID:	<u>1293</u>

● Edit Criteria

Entries from the Associated Link Type Codes (below):

- 'X' - link is by ASSOCIATED VIOLATION DATE RANGE (i.e., from X5000 transaction on Data Capture form E1)
- 'Y' - link is by ASSOCIATED VIOLATION ID (i.e., from Y5000 transaction on Data Capture form E1)
- 'Z' - link is by ASSOCIATED VIOLATION CONTAMINANT GROUP (i.e., from Z5000 transaction on Data Capture form E1)

● Comments

None

Name: NCP-CNTL-NODE

● Description

A SYSTEM 2000 data base record identification name and number.

The C1300, NCP-CNTL-NODE, data base record contains no data elements. It is included in the FRDS-II Data Base solely for the purpose of efficiently processing violation, enforcement action, and non-compliance profile data.

The FRDS-II Data Base has one NCD-CNTL-NODE data base record for each public water system that has at least one NON-COMPLIANCE-PROFILE data base record.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>9</u>	Parent Record: <u>C1000 NON-COMPLIANCE-DATA</u>
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● Record Contents

This data base record doesn't contain any data elements

● Comments

None

Name: NON-COMPLIANCE-PROFILE

● Description

A SYSTEM 2000 data base record identification name and number.

The C1350, NON-COMPLIANCE-PROFILE, data base record contains data elements that characterize the compliance status (i.e., violations and enforcement actions) of a public water system for a specific period of time.

The number of NON-COMPLIANCE-PROFILE data base records in the FRDS-II Data Base for a public water system is dependent upon a number of factors. They are:

- the number of non-compliance windows (i.e., periods of time) that have been established by the FRDS Data Base Administrator;
- the contaminant(s) for which MCL and/or major M&R violations were encountered that fall within these non-compliance windows; and
- the absence or presence of enforcement actions taken by the State that fall within these non-compliance windows.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>9</u>	Parent Record: <u>C1300 NCP-CNTL-NODE</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|-------------------------------|----------------------------|
| ■ C1351 NCP-WINDOW-BEGIN-YYMM | ■ C1361 NCP-MCL-DURATION |
| ■ C1353 NCP-WINDOW-MONTHS | ■ C1363 NCP-MON-VIOLATIONS |
| ■ C1355 NCP-WINDOW-PURPOSE | ■ C1365 NCP-MON-DURATION |
| ■ C1357 NCP-CONTAMINANT | ■ C1367 NCP-ENF-ACTIONS |
| ■ C1359 NCP-MCL-VIOLATIONS | |

● Comments

Each data element name contained within the NON-COMPLIANCE-PROFILE data base record is prefaced with ... NCP-

Name: NCP-WINDOW-BEGIN-YYMM

● Description

A computed numeric value that represents the calendar year and month in which a non-compliance profile window begins.

NCP-WINDOW-BEGIN-YYMM is of the form: yy mm (space inserted for clarity only)

Where: yy = the calendar year in which a non-compliance profile window begins
mm = the calendar month in which a non-compliance profile window begins

The term computed, as used here, implies that this calendar year and month is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C1350</u>	<u>NON-COMPLIANCE-PROFILE</u>
Data Base Family:	<u>9</u>	Registration Requirement: <u>-</u>
Data Category:	<u>61</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(4)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A four digit numeric calendar date, comprised of:
year, in position 1 - 2; and
month, in position 3 - 4

In the range 7801 (i.e., January, 1978) to the current year and month, inclusive

● Comments

Data element C1353, NCP-WINDOW-MONTHS, identifies the number of consecutive calendar months that are represented in a non-compliance profile window.

Name: NCP-WINDOW-MONTHS

● Description

A computed numeric value that represents the number of consecutive calendar months that are reflected in a non-compliance profile window.

The term computed, as used here, implies that this number is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

FRDS-II Data Transfer File

*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C1350</u>	<u>NON-COMPLIANCE-PROFILE</u>
Data Base Family:	<u>9</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

Entries from the NCP Window Sizes (below):

'03' - three months
'12' - twelve months
'24' - twenty-four months (for BACTI and Turbidity only)
'36' - thirty-six months
'48' - forty-eight months

● Comments

Data element C1351, NCP-WINDOW-BEGIN-YYMM, identifies the calendar year and month in which a non-compliance profile window begins.

Name: NCP-WINDOW-PURPOSE

● Description

A computed alphanumeric value that represents the purpose for which a non-compliance profile window was established.

Examples of NCP-WINDOW-PURPOSE include purposes such as SNC determination, trend analysis, special study, etc.

The term computed, as used here, implies that this code value is not reported by the State. It is assigned by the FRDS Data Base Administrator.

● Source

<u>FRDS-II Data Transfer File</u>
*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C1350</u>	<u>NON-COMPLIANCE-PROFILE</u>	
Data Base Family:	<u>9</u>	Registration Requirement:	<u> </u>
Data Category:	<u>01</u>	Grant Requirement:	<u>NO</u>
Data Type:	<u>CHARACTER</u>	Access:	<u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID:	<u>N/A</u>

● Acceptable Values

An alphanumeric value

● Comments

None

Name: NCP-CONTAMINANT

● Description

A computed numeric value that represents an identification number of a contaminant for which a non-compliance profile window has been established.

The term computed, as used here, implies that this code value is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

FRDS-II Data Transfer File

*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C1350</u>	<u>NON-COMPLIANCE-PROFILE</u>
Data Base Family:	<u>9</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>ID06</u>

● Acceptable Values

Entries from the Contaminant Identification Codes Non-compliance Profile Related (see Section VI; Table ID06)

In addition to contaminants selected from the Contaminant Identification Codes (see Section VI; Table ID06), the following summary contaminants are also computed for ALL contaminants:

'1--'

'2--'

'4--'

'GRND' - total of all contaminant

● Comments

Other contaminant identification numbers are maintained in the following data elements:

- C1103 VIO-CONTAMINANT
- C1291 ENF-LINK-CONTAMINANT
- C2107 SAMPLE-CONTAMINANT
- C3003 VE-CONTAMINANT

Name: NCP-MCL-VIOLATIONS

● Description

A computed numeric value that represents the total number of MCL violations that a public water system had during the subject non-compliance profile window for the subject contaminant.

The term computed, as used here, implies that this number is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C1350</u>	<u>NON-COMPLIANCE-PROFILE</u>
Data Base Family:	<u>9</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

● Comments

Data element C1351, NCP-WINDOW-BEGIN-YYMM, identifies the calendar year and month in which a non-compliance profile window begins.

Data element C1353, NCP-WINDOW-MONTHS, identifies the number of consecutive calendar months that are represented in a non-compliance profile window.

Data element C1357, NCP-CONTAMINANT, identifies a contaminant reflected in a non-compliance profile window.

Data element C1361, NCP-MCL-DURATION, identifies the total number of calendar months in which a public water system was in violation of a MCL regulation for a non-compliance profile window and contaminant.

Name: NCP-MCL-DURATION

● Description

A computed numeric value that represents the total number of calendar months in which a public water system had an MCL violation during the subject non-compliance profile window for the subject contaminant.

The term computed, as used here, implies that this number is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	C1350	NON-COMPLIANCE-PROFILE
Data Base Family:	9	Registration Requirement: -
Data Category:	30	Grant Requirement: NO
Data Type:	INTEGER	Access: NON-KEY
Picture:	9(3)	Code Table ID: N/A

● Acceptable Values

An integer number

● Comments

It is important to note that in no case will NCP-MCL-DURATION exceed NCP-WINDOW-MONTHS. Thus, MCL violation durations are not double counted. For example, if a public water system had an Arsenic MCL violation and a Selenium MCL violation during the same 12 month monitoring period, NCP-MCL-DURATION for that 12 month monitoring period would be 12, not 24.

Data element C1351, NCP-WINDOW-BEGIN-YYMM, identifies the calendar year and month in which a non-compliance profile window begins.

Data element C1353, NCP-WINDOW-MONTHS, identifies the number of consecutive calendar months that are represented in a non-compliance profile window.

Data element C1357, NCP-CONTAMINANT, identifies a contaminant reflected in a non-compliance profile window.

Data element C1359, NCP-MCL-VIOLATIONS, identifies the total number of MCL violations that a public water system had for a non-compliance profile window and contaminant.

Name: NCP-MON-VIOLATIONS

● Description

A computed numeric value that represents the total number of major M&R violations that a public water system had during the subject non-compliance profile window for the subject contaminant.

The term *computed*, as used here, implies that this number is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

<p>FRDS-II Data Transfer File</p> <p>*** GENERATED DATA ITEM ***</p>
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● Data Characteristics

Data Base Record:	C1350	NON-COMPLIANCE-PROFILE	
Data Base Family:	9	Registration Requirement:	-
Data Category:	30	Grant Requirement:	NO
Data Type:	INTEGER	Access:	NON-KEY
Picture:	9(3)	Code Table ID:	N/A

● Acceptable Values

An integer number

● Comments

Data element C1351, NCP-WINDOW-BEGIN-YYMM, identifies the calendar year and month in which a non-compliance profile window begins.

Data element C1353, NCP-WINDOW-MONTHS, identifies the number of consecutive calendar months that are represented in a non-compliance profile window.

Data element C1357, NCP-CONTAMINANT, identifies a contaminant reflected in a non-compliance profile window.

Data element C1365, NCP-MON-DURATION, identifies the total number of calendar months in which a public water system had a major monitoring or reporting violation for a non-compliance profile window and contaminant.

Name: NCP-MON-DURATION

● Description

A computed numeric value that represents the total number of calendar months in which a public water system had a major M&R violation during the subject non-compliance profile window for the subject contaminant.

The term computed, as used here, implies that this number is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C1350</u>	<u>NON-COMPLIANCE-PROFILE</u>
Data Base Family:	<u>9</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

● Comments

It is important to note that in no case will NCP-MON-DURATION exceed NCP-WINDOW-MONTHS. Thus, monitoring or reporting violation durations are not double counted. For example, if a public water system had an Arsenic monitoring or reporting violation and a Selenium monitoring or reporting violation during the same 12 month monitoring period, NCP-MON-DURATION for that 12 month monitoring period would be 12, not 24.

Data element C1351, NCP-WINDOW-BEGIN-YYMM, identifies the calendar year and month in which a non-compliance profile window begins.

Data element C1353, NCP-WINDOW-MONT-HS, identifies the number of consecutive calendar months that are represented in a non-compliance profile window.

Data element C1357, NCP-CONTAMINANT, identifies a contaminant reflected in a non-compliance profile window.

Data element C1363, NCP-MON-VIOLATIONS, identifies the total number of monitoring or reporting violations that a public water system had for a non-compliance profile window and contaminant.

Name: NCP-ENF-ACTIONS

● Description

A computed numeric value that represents the total number of enforcement actions that were taken by the State against a public water system's violations during the subject non-compliance profile window for a specific contaminant.

The term computed, as used here, implies that this number is not reported by the State. It is determined automatically by the FRDS-II computer system during its normal course of its operation when a new non-compliance profile data base record is inserted into the FRDS-II Data Base.

● Source

<p><u>FRDS-II Data Transfer File</u></p> <p>*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C1350</u>	<u>NON-COMPLIANCE-PROFILE</u>
Data Base Family:	<u>9</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

● Comments

Enforcement actions which are not contaminant specific will be saved in a window for which there is no contaminant.

Data element C1351, NCP-WINDOW-BEGIN-YYMM, identifies the calendar year and month in which a non-compliance profile window begins.

Data element C1353, NCP-WINDOW-MONTHS, identifies the number of consecutive calendar months that are represented in a non-compliance profile window.

Data element C1357, NCP-CONTAMINANT, identifies a contaminant reflected in a non-compliance profile window.

Name: SAMPLE-DATA-CNTL-NODE● **Description**

A SYSTEM 2000 data base record identification name and number.

The C2000, SAMPLE-DATA-CNTL-NODE, data base record contains no data elements. It is included in the FRDS-II Data Base for the purpose of efficiently processing sample data.

The FRDS-II Data Base has one SAMPLE-DATA-CNTL-NODE data base record for each public water system that has at least one sample reported to EPA.

● **Data Characteristics**

Data Type: <u>RECORD</u>	Data Base Family: <u>14</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
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● **Record Contents**

This data base record doesn't contain any data elements

● **Comments**

None

Name: SAMPLE-DATA

● Description

A SYSTEM 2000 data base record identification name and number.

The C2100, SAMPLE-DATA, data base record contains data elements that characterize a sample that has been taken for a public water system.

The FRDS-II Data Base has one SAMPLE-DATA data base record for each sample that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>14</u>	Parent Record: <u>C2000</u>	<u>SAMPLE-DATA-CNTL-NODE</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|---------------------------|--------------------------------|
| ▪ C2101 SAMPLE-ID | ▪ C2107 SAMPLE-CONTAMINANT |
| ▪ C2103 SAMPLE-BEGIN-DATE | ▪ C2111 SAMPLE-ANALYSIS-RESULT |
| ▪ C2105 SAMPLE-END-DATE | ▪ C2117 SAMPLE-FY |

● Comments

Each data element name contained within the SAMPLE-DATA data base record is prefaced with ... SAMPLE-

Name: SAMPLE-ID

● Description

An alphanumeric value used to uniquely identify a specific sampling occurrence for lead as it occurs under the Lead and Copper Rule.

SAMPLE-ID is of the form: nnnnn

Where: nnnnn = a sample identification number assigned by the State or generated by the FRDS-II computer system (the first position consists of the letter "S" if the ID was generated)

● Source

FRDS-II Data Transfer File	
Form ID:	<u>H1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SAMPLE-ID</u>
Maximum Length:	<u>5</u>

● Data Characteristics

Data Base Record:	<u>C2100</u>	<u>SAMPLE-DATA</u>
Data Base Family:	<u>14</u>	Registration Requirement: <u>3</u>
Data Category:	<u>26</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(5)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting a sample record [E4W]

When specified:

- position 1 must be 'G' or 'S', or position 1 - 5 must be numeric [E1S]
- position 1 must not be 'S' when inserting a sample record [E2V]
- position 1 must not be 'G' when modifying or deleting a sample record [E2W]
- and position 1 is 'G' or 'S':
 - position 2 - 5 must be numeric [E3J]
 - position 2 - 5 must be greater than zero
- and position 1 is neither 'G' nor 'S':
 - position 1 - 5 must be numeric
 - position 1 - 5 must be greater than zero
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a sample record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a sample record
- and position 1 is 'S':
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a sample record

Each new sample record must include values for those data elements within the sample record (C2100, SAMPLE-DATA) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

● Comments

If desired, the user can have the FRDS-II computer system generate a SAMPLE-ID number by specifying a Group Generation Code (GGC) when a new sample data base record is to be inserted into the data base.

This is accomplished by substituting the GGC for an actual ID (i.e., Gnnnn where ... the letter "G" tells FRDS-II to generate the ID and the "nnnn" is an arbitrary number assigned to all related C2100, SAMPLE-DATA, data elements so that their logical grouping will remain intact).

SAMPLE-ID must be valued for a new SAMPLE-DATA data base record to be inserted into the FRDS-II Data Base.

Name: SAMPLE-BEGIN-DATE

● Description

A value that represents the calendar date of the first day of the monitoring period in which 90th percentile data for lead was acquired.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>H1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SAMPLE-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C2100</u>	<u>SAMPLE-DATA</u>
Data Base Family:	<u>14</u>	Registration Requirement: <u>2</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a sampling record
- inserting a sample record for Lead (i.e., C2107, SAMPLE-CONTAMINANT of "PB90") [E7R]
- modifying the current value

When specified.

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must be after June 30, 1991 (06/30/91) [EHZ]
- must be the same as, or before the current calendar date [EQW]
- the sample begin date (C2103, SAMPLE-BEGIN-DATE) must be before the sample end date (C2105, SAMPLE-END-DATE) [E8K]
- the sample begin date (C2103, SAMPLE-BEGIN-DATE) must be at least six months before the sample end date (C2105, SAMPLE-END-DATE), when the sample contaminant (C2107, SAMPLE-CONTAMINANT) is "PB90" [E8L]

● Comments

Data element C2105, SAMPLE-END-DATE, identifies the end of the monitoring period.

SAMPLE-BEGIN-DATE must be valued for a new SAMPLE-DATA data base record to be inserted into the FRDS-II Data Base.

Name: SAMPLE-END-DATE

● Description

A value that represents the calendar date of the last day of the monitoring period in which 90th percentile data for lead was acquired.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>H1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SAMPLE-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C2100</u>	<u>SAMPLE-DATA</u>
Data Base Family:	<u>14</u>	Registration Requirement: <u>2</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a sampling record
- inserting a sample record for Lead (i.e., C2107, SAMPLE-CONTAMINANT of 'PB90') [E7S]
- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must be after December 31, 1991 (12/31/91) [EHW]
- the sample begin date (C2103, SAMPLE-BEGIN-DATE) must be before the sample end date (C2105, SAMPLE-END-DATE) [E8K]
- the sample begin date (C2103, SAMPLE-BEGIN-DATE) must be at least six months before the sample end date (C2105, SAMPLE-END-DATE), when the sample contaminant (C2107, SAMPLE-CONTAMINANT) is 'PB90' [E8L]

● Comments

Data element C2103, SAMPLE-BEGIN-DATE, identifies the beginning of the monitoring period.

SAMPLE-END-DATE must be valued for a new SAMPLE-DATA data base record to be inserted into the FRDS-II Data Base.

Name: SAMPLE-CONTAMINANT

● Description

A code value that represents an identification number representing a lead 90th percentile sample.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>H1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SAMPLE-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C2100</u>	<u>SAMPLE-DATA</u>
Data Base Family:	<u>14</u>	Registration Requirement: <u>2</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>2107</u>

● Edit Criteria

Must be specified when:

- inserting a sampling record
- modifying the current value

Must only be submitted for Lead samples [EIU]

When specified:

- must be one of the Sample Contaminant Identification Codes (see Section VI; Table 2107): "PB90" - Lead 90th Percentile Value

● Comments

Other contaminant identification numbers are maintained in the following data elements:

- C1103 VIO-CONTAMINANT
- C1291 ENF-LINK-CONTAMINANT
- C1357 NCP-CONTAMINANT
- C3003 VE-CONTAMINANT

SAMPLE-CONTAMINANT must be valued for a new SAMPLE-DATA data base record to be inserted into the FRDS-II Data Base.

Name: SAMPLE-ANALYSIS-RESULT

● Description

A numeric value that represents the result obtained from a samples' analysis.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>H1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SAMPLE-ID</u>
Maximum Length:	<u>15</u>

● Data Characteristics

Data Base Record:	<u>C2100</u>	<u>SAMPLE-DATA</u>
Data Base Family:	<u>14</u>	Registration Requirement: <u>2</u>
Data Category:	<u>41</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DECIMAL</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(7).9(8)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting a sampling record
- inserting a sample record for Lead (i.e., C2107, SAMPLE-CONTAMINANT of 'PB90') [E7U]
- modifying the current value

When specified:

- must be a numeric real number
- whole portion cannot exceed seven digits
- decimal portion cannot exceed eight digits
- a decimal point may or may not be included
- a decimal point must be specified when a fractional amount is intended
- must not be a negative number [EGA]

● Comments

SAMPLE-ANALYSIS-RESULT must be valued for a new SAMPLE-DATA data base record to be inserted into the FRDS-II Data Base.

Name: SAMPLE-FY

● Description

A computed numeric value that represents the Federal fiscal year in which the sample was taken.

The term computed, as used here, implies that this value is not reported by the State. SAMPLE-FY is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C2100</u>	<u>SAMPLE-DATA</u>
Data Base Family:	<u>14</u>	Registration Requirement: <u>-</u>
Data Category:	<u>31</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>99</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

The Federal fiscal year

● Comments

Other Federal fiscal year's are maintained in the following data elements:

- C1135 VIO-FY
- C1209 ENF-FY
- C3023 VE-FY

Name: VARIANCE-EXEMPTION-DATA

● Description

A SYSTEM 2000 data base record identification name and number.

The C3000, VARIANCE-EXEMPTION-DATA, data base record contains data elements that characterize a variance, exemption, or other event that is applicable to a public water system.

The FRDS-II Data Base has one VARIANCE-EXEMPTION-DATA data base record for each variance, exemption, or other event that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>10</u>	Parent Record: <u>C100</u>	<u>PWS-SUMMARY</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|------------------------------|-------------------------|
| ■ C3001 VE-ID | ■ C3019 VE-REASON-CODE |
| ■ C3003 VE-CONTAMINANT | ■ C3021 VE-LAST-UPDATE |
| ■ C3005 VE-RECORD-TYPE | ■ C3023 VE-FY |
| ■ C3007 VE-EFFECTIVE-DATE | ■ C3025 VE-DATA-ORIGIN |
| ■ C3009 VE-EXPIRATION-DATE | ■ C3027 VE-VUL-FLAG |
| ■ C3011 VE-STATUS-CODE | ■ C3029 VE-ALT-MON-FREQ |
| ■ C3013 VE-MOD-MCL | ■ C3031 VE-SE-ID |
| ■ C3015 VE-TREATMENT-PROCESS | ■ C3033 VE-INSERT-DATE |
| ■ C3017 VE-ALT-PROCESS | |

● Comments

Each data element name contained within the VARIANCE-EXEMPTION-DATA data base record is prefaced with ... VE-

Note that VARIANCE-EXEMPTION-DATA data base records will NOT be deleted if a "Total Replace" of Actio is submitted and a previously submitted variance, exemption, or other event data base record is omitted.

Name: VE-ID

● Description

An alphanumeric value used to uniquely identify a specific variance, exemption, or other event that is applicable to a public water system. It is unique for each public water system within the Federal fiscal year for which the variance, exemption or other event was reported.

VE-ID is of the form: yy nnnnn (space inserted for clarity only)

Where: yy = the Federal fiscal year in which the variance, exemption, or other event was granted or became effective.

nnnnn = an identification number assigned by the State or generated by the FRDS-II computer system (the first position consists of the letter "X" if the ID was generated)

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>7</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	VARIANCE-EXEMPTION-DATA
Data Base Family:	<u>10</u>	Registration Requirement: <u>3</u>
Data Category:	<u>24</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(7)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting, modifying or deleting a variance, exemption or other event record
- inserting, modifying or deleting a variance, exemption or other event schedule record

When specified:

- position 1 - 2 must be the Federal fiscal year of the variance, exemption or other event
- position 1 - 2 must be greater than 77 and less than or equal to the current Federal fiscal year
- position 1 - 2 must be greater than 88 and less than or equal to the current Federal fiscal year, for filtration requirement records (i.e., C3005, VE-RECORD-TYPE of "FR")
- position 3 must be "G" or "X", or position 3 - 7 must be numeric
- position 3 must not be "X" when inserting a variance, exemption or other event record
- position 3 must not be "G" when modifying or deleting a variance, exemption or other event record
- and position 3 is "G" or "X":
 - position 4 - 7 must be numeric
 - position 4 - 7 must be greater than zero
- and position 1 is neither "G" nor "X":
 - position 1 - 7 must be numeric
 - position 1 - 7 must be greater than zero
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a variance, exemption or other event record, or variance, exemption or other event schedule record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a variance, exemption or other event record
 - the ID must exist in the FRDS-II data base for the PWS or the variance, exemption or other event record, also, must be specified, when inserting a variance, exemption or other event schedule record
- and position 1 is "X":
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a variance, exemption or other event record

Each new variance, exemption or other event record must include values for those data elements within the variance, exemption or other event record (C3000, VARIANCE-EXEMPTION-DATA) that are identified as Registration Requirement data elements (see "Data Characteristics" on this page) [ERR]

● Comments

"Other events" include turbidity waivers and filtration requirement events.

If desired, the user can have the FRDS-II computer system generate a VE-ID number by specifying a Group Generation Code (GGC) when a new VARIANCE-EXEMPTION-DATA data base record is to be inserted into the data base. This is accomplished by inserting the GGC in positions 3 - 7 of the VE-ID.

VE-ID must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VE-CONTAM NANT

● Description

A code value that represents an identification number of a contaminant for which a variance, exemption, or other event applicable to a public water system has been reported to EPA by State.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>4</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>4</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>ID06</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Must not be specified when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of 'FR') [EXC]

When specified:

- must be one of the Contaminant Identification Codes (see Section VI; Table ID06)
- must not be a wild-card contaminant code (i.e., a contaminant code containing an asterisk) unless the V&E modified MCL is specified (i.e., C3013, VE-MOD-MCL) [E9N]

● Comments

'Other events' include turbidity waivers and filtration requirement events.

Other contaminant identification numbers are maintained in the following data elements:

- C1103 VIO-CONTAMINANT
- C1291 ENF-LINK-CONTAMINANT
- C1357 NCP-CONTAMINANT
- C2107 SAMPLE-CONTAMINANT

VE-CONTAMINANT must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base for a variance, exemption, or turbidity waiver record. It must not be valued for a filtration requirement event record.

Name: VE-RECORD-TYPE

● Description

A code value that represents whether the VARIANCE-EXEMPTION-DATA data base record is a variance, exemption, or other event applicable to a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	VARIANCE-EXEMPTION-DATA	
Data Base Family:	<u>10</u>	Registration Requirement:	<u>2</u>
Data Category:	<u>10</u>	Grant Requirement:	<u>NO</u>
Data Type:	<u>CHARACTER</u>	Access:	<u>KEY</u>
Picture:	<u>X(2)</u>	Code Table ID:	<u>3005</u>

● Edit Criteria

Must be specified when:

- Inserting a variance, exemption or other event record
- modifying the current value

When specified:

- must be one of the Variance/Exemption/Other Record Type Codes (see Section VI; Table 3005) ...
 - *EX* - Exemption Record
 - *FR* - Filtration Requirement Record (SWTR)
 - *TW* - Turbidity Waiver Record
 - *VA* - Variance Record

Additionally:

- the reason code (C3019, VE-REASON-CODE) must not be less than "020" or between "023" and "029", inclusive, when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of "FR") [E8X]
- when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of "FR") an effective date (C3007, VE-EFFECTIVE-DATE) and reason code (C3019, VE-REASON-CODE) must also be provided [ERE]

● Comments

"Other events" include turbidity waivers and filtration requirement events.

VE-RECORD-TYPE must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VE-EFFECTIVE-DATE

● Description

A value that represents the calendar date on which a variance, exemption, or other event became, or will become, effective.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>4</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the record specifies a filtration requirement (i.e., C3005, VE-RECORD-TYPE of "FR") [ERE]

When specified:

- must be a six digit numeric calendar date, comprised of:
 - month, in position 1 - 2;
 - day, in position 3 - 4; and
 - year, in position 5 - 6
- must be less than the V&E expiration date (C3009, VE-EXPIRATION-DATE) [E9V]
- must be greater than September 30, 1989, for filtration requirement records (i.e., C3005, VE-RECORD-TYPE of "FR")

● Comments

"Other events" include turbidity waivers and filtration requirement events.

Data element C3009, VE-EXPIRATION-DATE, identifies the calendar date on which a variance, exemption, or other event expired, or will expire.

For a filtration requirement event, VE-EFFECTIVE-DATE must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base.

For a variance, exemption, or turbidity waiver, VE-EFFECTIVE-DATE must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base if an effective date has been established.

Name: VE-EXPIRATION-DATE

● Description

A value that represents the calendar date on which a variance, exemption, or other event expired, or will expire.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	VARIANCE-EXEMPTION-DATA
Data Base Family:	<u>10</u>	Registration Requirement: <u>4</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6
- must be greater than the V&E effective date (C3007, VE-EFFECTIVE-DATE) [E9V]

● Comments

"Other events" include turbidity waivers and filtration requirement events.

Data element C3007, VE-EFFECTIVE-DATE, identifies the calendar date on which a variance, exemption, or other event became effective, or will become effective.

VE-EXPIRATION-DATE must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base if an expiration date has been established.

Name: VE-STATUS-CODE

● Description

A code value that represents the current status of a variance, exemption, or other event applicable to a public water system.

Examples of VE-STATUS-CODE include a status such as application received, hearing scheduled, compliance schedule prescribed, etc.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	VARIANCE-EXEMPTION-DATA
Data Base Family:	<u>10</u>	Registration Requirement: <u>4</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>3011</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be one of the Variance/Exemption/Other Status Codes (see Section VI; Table 3011):
 - 'A' - Interest Expressed (In Variance/Exemption/Other)
 - 'B' - Completed, PWS in compliance (Variance/Exemption/Other)
 - 'C' - Application Received (For Variance/Exemption/Other)
 - 'E' - State Proposes to Deny (Variance/Exemption/Other Application)
 - 'G' - State Proposes to Grant (Variance/Exemption/Other Application)
 - 'I' - Hearing Scheduled on Proposal
 - 'K' - Hearing Held on Proposal
 - 'M' - Compliance Schedule Prescribed
 - 'O' - Hearing Scheduled on Compliance Schedule
 - 'Q' - Hearing Held on Compliance Schedule
 - 'R' - Additional Information Desired
 - 'S' - Request Granted (For Variance/Exemption/Other)
 - 'T' - Request Denied (For Variance/Exemption/Other)
 - 'U' - State Sets Monitoring Requirements
 - 'V' - EPA Sets Monitoring Requirements
 - 'W' - Notification given to Public
 - 'X' - Other
 - 'Y' - Notification given to EPA
 - 'Z' - Pending Deletion

● Comments

'Other events' include turbidity waivers and filtration requirement events.

VE-STATUS-CODE must be valued for a new

VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base for a variance, exemption, or turbidity waiver. VE-STATUS-CODE does not need to be valued to insert a new VARIANCE-EXEMPTION-DATA data base record for a filtration requirement event.

Name: VE-MOD-MCL

● Description

A numeric value that represents a modified maximum contaminant level that has been approved as a condition to a variance or an exemption granted to a public water system by the State.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>15</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>4</u>
Data Category:	<u>41</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DECIMAL</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(7).9(8)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Must not be specified when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of 'FR') [EXC]

When specified:

- must be a numeric real number
- whole portion cannot exceed seven digits
- decimal portion cannot exceed eight digits
- a decimal point may or may not be included
- a decimal point must be specified when a fractional amount is intended
- must not be a negative number [EGA]

● Comments

.. "Other events" include turbidity waivers and filtration requirement events.

If a modified maximum contaminant level has been approved as a condition to variance or an exemption, this data element must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VE-TREATMENT-PROCESS

● Description

A code value that represents a treatment process for which a variance or an exemption is being granted to a public water system by the State.

Examples of VE-TREATMENT-PROCESS include processes such as chlorination, filtration, fluoridation, pH adjustment.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>ID04</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the V&E alternate process (C3017, VE-ALT-PROCESS), has been specified [E9W]

Must not be specified when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of 'FR') [EXC]

When specified:

- must be one of the Treatment Process Codes (see Section VI; Table ID04)

● Comments

"Other events" include turbidity waivers and filtration requirement events.

Other treatment process codes are maintained in the following data elements:

- C485 PWS-SE-TREATMENT-PROCESS
- C3017 VE-ALT-PROCESS

Name: VE-ALT-PROCESS

● Description

A code value that represents an alternate treatment process that has been approved as a condition to a variance or an exemption granted to a public water system by the State.

Examples of VE-ALT-PROCESS include processes such as chlorination, filtration, fluoridation, pH adjustment.

● Source

<u>FRDS-II Data Transfer File</u>	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>4</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>ID04</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the V&E treatment process (C3015, VE-TREATMENT-PROCESS), has been specified [E9W]

Must not be specified when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of 'FR') [EXC]

When specified:

- must be one of the Treatment Process Codes (see Section VI; Table ID04)

● Comments

"Other events" include turbidity waivers and filtration requirement events.

Other treatment process codes are maintained in the following data elements:

- C485 PWS-SE-TREATMENT-PROCESS
- C3015 VE-TREATMENT-PROCESS

If a treatment process has been approved as a condition to variance or an exemption, this data element must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VE-REASON-CODE

● Description

A code value that represents the reason for which a variance, exemption, or turbidity waiver was issued by the State, or a filtration requirement event was triggered for a public water system.

Examples of VE-REASON-CODE include reasons such as cannot comply with regulations due to economic factors, cannot comply with regulations despite application of the best available treatment, treatment is not necessary to protect the public health, filtration is required due to the system's failure to meet the daily CT criteria.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	VARIANCE-EXEMPTION-DATA
Data Base Family:	<u>10</u>	Registration Requirement: <u>4</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>3019</u>

● Edit Criteria

Must be specified when:

- modifying the current value
- not presently valued and the record specifies a filtration requirement (i.e., C3005, VE-RECORD-TYPE of 'FR') [ERE]

When specified:

- must be one of the Variance/Exemption/Other Reason Codes (see Section VI; Table 3019)
- must not be less than "020" or between "023" and "029", inclusive, when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of 'FR') [EBW]

● Comments

"Other events" include turbidity waivers and filtration requirement events.

VE-REASON-CODE must be valued for a new

VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base for a filtration requirement event. VE-REASON-CODE does not need to be valued to insert a new VARIANCE-EXEMPTION-DATA data base record for a variance, exemption, or turbidity waiver.

Name: VE-LAST-UPDATE

● Description

A computed value that represents the calendar date on which a variance, exemption, or other event was initially posted to the FRDS-II Data Base or when a subsequent State-supplied modification was made.

The term computed, as used here, implies that this date is not reported by the State. VE-LAST-UPDATE is determined automatically by the FRDS-II computer system during its normal course of operation when a variance, exemption, or other event data base record is inserted into the FRDS-II Data Base or when it is subsequently modified.

● Source

<p align="center"><u>FRDS-II Data Transfer File</u></p> <p align="center">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record: <u>C3000</u> <u>VARIANCE-EXEMPTION-DATA</u>	
Data Base Family: <u>10</u>	Registration Requirement: <u>-</u>
Data Category: <u>60</u>	Grant Requirement: <u>NO</u>
Data Type: <u>DATE</u>	Access: <u>KEY</u>
Picture: <u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:

- month, in position 1 - 2;
- day, in position 3 - 4; and
- year, in position 5 - 6

● Comments

This date is changed for State reported updates only (i.e., updates submitted via DTF transactions).

Other last update dates are maintained in the following data elements:

- | | |
|------------------------------|---------------------------------|
| ■ C7 ST-ANY-DATA-LAST-UPDATE | ■ C29 ST-SAMPLE-LAST-UPDATE |
| ■ C9 ST-INV-LAST-UPDATE | ■ C167 PWS-INV-LAST-UPDATE |
| ■ C13 ST-VIO-LAST-UPDATE | ■ C169 PWS-ANY-DATA-LAST-UPDATE |
| ■ C15 ST-ENF-LAST-UPDATE | ■ C1133 VIO-LAST-UPDATE |
| ■ C17 ST-VE-LAST-UPDATE | ■ C1207 ENF-LAST-UPDATE |

Name: VE-FY

● Description

A computed numeric value that represents the Federal fiscal year in which a variance, exemption, or other event was initiated or granted.

The term computed, as used here, implies that this value is not reported by the State. VE-FY is determined automatically by the FRDS-II computer system during its normal course of operation.

● Source

FRDS-II Data Transfer File

*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>.</u>
Data Category:	<u>31</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

The Federal fiscal year in the range 80 to the current fiscal year (90 to present in filtration requirement records), inclusive

● Comments

"Other events" include turbidity waivers and filtration requirement events.

Other Federal fiscal years are maintained in the following data elements:

- C1135 VIO-FY
- C1209 ENF-FY
- C2117 SAMPLE-FY

Name: VE-DATA-ORIGIN

● Description

A code value that represents the source or origin of the various values that are maintained in the C3000, VARIANCE-EXEMPTION-DATA, data base record.

Examples of VE-DATA-ORIGIN include sources or origins such as State reported, reported by an EPA region, generated by the FRDS-II computer system during its normal course of operation, etc.

● Source

<p style="text-align: center;"><u>FRDS-II Data Transfer File</u></p> <p style="text-align: center;">*** GENERATED DATA ITEM ***</p>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMP</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>ID07</u>

● Acceptable Values

Entries from the Record Data Origin Codes (see Section VI; Table ID07):

- *H* - Headquarters (EPA) supplied data (EPA Use Only)
- *R* - Region (EPA) supplied data (EPA Use Only)
- *S* - State supplied data

● Comments

This value is not input directly by the State. Rather, it is conveyed to Production Control at the time the data is to be processed. Production Control then communicates to FRDS-II the correct value to assign to this data element.

Other data origins are maintained in the following data elements:

- C413 PWS-SE-DATA-ORIGIN
- C517 PWS-GA-DATA-ORIGIN
- C809 PWS-MILESTONE-ORIGIN
- C1137 VIO-DATA-ORIGIN
- C1211 ENF-DATA-ORIGIN

This value cannot be modified.

Name: VE-VUL-FLAG

● Description

A code value that indicates whether a specific source/entity (identified in data element C3031, VE-SE-ID) is vulnerable to the contaminant specified in data element C3003, VE-CONTAMINANT.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>1</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(1)</u>	Code Table ID: <u>3027</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Must not be specified when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of 'FR') [EXC]

When specified:

- must be one of the Variance/Exemption/Other Vulnerability Flag Codes (see Section VI; Table 3027):
 - "N" - PWS is NOT Vulnerable to Contaminant
 - "Y" - PWS is Vulnerable to Contaminant

● Comments

"Other events" include turbidity waivers and filtration requirement events.

Name: VE-ALT-MON-FREQ

● Description

An alternate monitoring frequency for a given contaminant required to be monitored by the public water system. This represents an allowance to monitor at a frequency differing from the prevailing frequency, and is reported in the permissible number of months between samples.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>30</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Must not be specified when inserting or modifying a filtration requirement record (i.e., C3005, VE-RECORD-TYPE of 'FR') [EXC]

When specified:

- must be an integer number

● Comments

"Other events" include turbidity waivers and filtration requirement events.

If an alternate monitoring frequency has been approved as a condition to variance or an exemption, this data element must be valued for a new VARIANCE-EXEMPTION-DATA data base record to be inserted into the FRDS-II Data Base.

Name: VE-SE-ID

● Description

A numeric value used to uniquely identify a specific source of water that is utilized by, or an entity (e.g., an entry point, a treatment plant, or other related facility) that is related to, a public water system.

This data element offers the opportunity to designate a specific source/entity to which the variance, exemption, or other event applies.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C3000</u>	<u>VARIANCE-EXEMPTION-DATA</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an integer number
- must be less than or equal to 949 [EEH]

● Comments

Other source/entry IDs are maintained in the following data elements:

- C401 PWS-SE-ID
- C1143 VIO-SE-ID
- C2119 SAMPLE-SE-ID

Name: VE-INSERT-DATE

● Description

A computed value that represents the calendar date on which a variance, exemption, or other event base record was initially posted to the FRDS-II Data Base.

The term computed, as used here, implies that this date is not reported by the State. VE-INSERT-DATE is determined automatically by the FRDS-II computer system during its normal course of operation when a new variance, exemption, or other event data base record is initially inserted into the FRDS-II Data Base.

● Source

<u>FRDS-II Data Transfer File</u>
*** GENERATED DATA ITEM ***

● Data Characteristics

Data Base Record:	C3000	VARIANCE-EXEMPTION-DATA .	
Data Base Family:	10	Registration Requirement:	-
Data Category:	60	Grant Requirement:	NO
Data Type:	DATE	Access:	NON-KEY
Picture:	MMDDYY	Code Table ID:	N/A

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

This date is valued for State reported data only (i.e., data submitted via DTF transactions).

Other insert dates are maintained in the following data elements:

- | | |
|----------------------------------|-------------------------|
| ▪ C168 PWS-INSERT-DATE | ▪ C1117 VIO-INSERT-DATE |
| ▪ C811 PWS-MILESTONE-INSERT-DATE | ▪ C1213 ENF-INSERT-DATE |

Name: VE-SCHEDULE

● Description

A SYSTEM 2000 data base record identification name and number.

The C3100, VE-SCHEDULE, data base record contains data elements that characterize a schedule of specific actions that are related to a variance, exemption, or other event that is applicable to a public water system.

The FRDS-II Data Base has one VE-SCHEDULE data base record for each specific action which is related to a variance, exemption, or other event that has been reported to EPA.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>10</u>	Parent Record: <u>C3000 VARIANCE-EXEMPTION-DATA</u>
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● Record Contents

This data base record contains the following data elements:

- | | |
|-------------------------|------------------------------|
| ■ C3101 VE-SCHED-ID | ■ C3105 VE-SCHED-DATE |
| ■ C3103 VE-SCHED-ACTION | ■ C3107 VE-SCHED-ACCOMP-DATE |

● Comments

Each data element name contained within the VE-SCHEDULE data base record is prefaced with: VE-SCHED- Note that VE-SCHEDULE data base records will NOT be deleted if a "Total Replace" of Actions is submitted and a previously submitted variance, exemption, or other event schedule data base record is omitted.

Name: VE-SCHED-ID

● Description

A numeric value used to uniquely identify a specific action that is related to a variance, exemption, or other event applicable to a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
	<u>VE-SCHED-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C3100</u>	<u>VE-SCHEDULE</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>3</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(2)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- inserting, modifying or deleting variance, exemption or other event schedule record

When specified:

- position 1 must be 'G' or position 1 - 2 must be numeric
- position 1 must not be 'G' when modifying or deleting a variance, exemption or other event schedule record
- and position 1 is 'G':
 - position 2 must be numeric
 - position 2 must be greater than zero
 - position 3 - 7 must be blank
- and position 1 is not 'G':
 - position 1 - 2 must be numeric
 - position 1 - 2 must be greater than zero
 - position 3 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a variance, exemption or other event schedule record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a variance, exemption or other event schedule record
- and position 1 is 'X':
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a variance, exemption or other event schedule record

Each new variance, exemption or other event schedule record must include values for those data elements within the variance, exemption or other event schedule record (C3100, VE-SCHEDULE) that are identified as Registration Requirement data elements (see 'Data Characteristics' on this page) [ERR]

Additionally, a variance, exemption or other event record must be inserted when inserting a variance, exemption or other event schedule record for a new Public Water System [E6Q]

● Comments

"Other events" include turbidity waivers and filtration requirement events.

If desired, the user can have the FRDS-II computer system generate a VE-SCHED-ID number by specifying a Group Generation Code (GGC) when a new variance, exemption, other event schedule data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e. Gn, where ... the letter 'G' tells FRDS-II to generate the ID, and the 'n' is an arbitrary number assigned to all related C3100, VE-SCHEDULE, data elements so that their logical grouping will remain intact).

VE-SCHED-ID must be valued for a new VE-SCHEDULE data base record to be inserted into the FRDS-II Data Base.

Name: VE-SCHED-ACTION

● Description

A code value that represents a specific action that is to be taken by the State or the public water system (or was taken by the State or the public water system) relating to a variance, exemption, or other event applicable to a public water system.

Examples of VE-SCHED-ACTION include actions such as explore alternate sources of water, explore regional system development, obtain financial aid, design treatment system, etc.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
	<u>VE-SCHED-ID</u>
Maximum Length:	<u>2</u>

● Data Characteristics

Data Base Record:	<u>C3100</u>	<u>VE-SCHEDULE</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>10</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(2)</u>	Code Table ID: <u>3103</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Should be specified when:

- not presently valued and the variance, exemption or requirement schedule date (i.e., C3105, VE-SCHED-DATE) has been specified
- not presently valued and the variance, exemption or requirement schedule accomplished date (i.e., C3107, VE-SCHED-ACCOMP-DATE) has been specified

When specified:

- must be one of the Variance/Exemption/Other Schedule Action Codes (see Section VI; Table 3103)...
- | | |
|------|--|
| *01* | - Letter to PWS from State |
| *04* | - Administrative Hearing - PWS & State |
| *07* | - Other State Administrative Procedure |
| *19* | - Explore Alternate Sources of Water |
| *22* | - Explore Regional System Development |
| *25* | - Financial Aid Obtained |
| *28* | - Treatment System Designed |
| *31* | - Treatment System Approved |
| *34* | - Treatment System Built |
| *37* | - Periodic Monitoring Required |

● Comments

Other events include turbidity waivers and filtration requirement events.

Data element C3105, VE-SCHED-DATE, identifies the calendar date on which a specific action is scheduled (or was scheduled) to occur.

Data element, C3107, VE-SCHED-ACCOMP-DATE, identifies the calendar date on which a specific action was accomplished, if completed.

Name: VE-SCHED-DATE

● Description

A value that represents the calendar date on which a specific action relating to a variance, exemption, or other event is scheduled (or was scheduled) to occur.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
	<u>VE-SCHED-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C3100</u>	<u>VE-SCHEDULE</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

Should be specified when not presently valued and the variance, exemption or requirement schedule action (C3103, VE-SCHED-ACTION) has been specified

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6

● Comments

'Other events' include turbidity waivers and filtration requirement events.

Data element C3103, VE-SCHED-ACTION, identifies a specific action that is scheduled (or was scheduled) to occur on this calendar date.

Data element, C3107, VE-SCHED-ACCOMP-DATE, identifies the calendar date on which a specific action was accomplished, if completed.

Name: VE-SCHED-ACCOMP-DATE

● Description

A value that represents the calendar date on which a specific action relating to a variance, exemption, or other event was accomplished, if completed.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>F2</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>VE-ID</u>
	<u>VE-SCHED-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C3100</u>	<u>VE-SCHEDULE</u>
Data Base Family:	<u>10</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of:
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6

● Comments

"Other events" include turbidity waivers and filtration requirement events.

Data element C3103, VE-SCHED-ACTION, identifies a specific action that is scheduled (or was scheduled) to occur on this calendar date.

Data element C3105, VE-SCHED-DATE, identifies the calendar date on which a specific action is scheduled (or was scheduled) to occur.

Name: STATE-DISCRETIONARY-DATA

● Description

A SYSTEM 2000 data base record identification name and number.

The C4000, STATE-DISCRETIONARY-DATA, data base record contains data elements that characterize a specific set of values defined at the discretion of the State.

The FRDS-II Data Base has one STATE-DISCRETIONARY-DATA data base record for each single set of State specific data values that has been reported to EPA for a public water system.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>11</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
--------------------------	-----------------------------	--

● Record Contents

This data base record contains the following data elements:

- | | |
|-------------------|----------------------|
| ■ C4001 SDD-ID | ■ C4007 SDD-QUANTITY |
| ■ C4003 SDD-NAME | ■ C4009 SDD-DATE |
| ■ C4005 SDD-VALUE | |

● Comments

Each data element name contained within the STATE-DISCRETIONARY-DATA data base record is prefaced with ... SDD-

Note that STATE-DISCRETIONARY-DATA data base records will NOT be deleted if a "Total Replace" of inventory is submitted and a previously submitted State Discretionary Data data base record is omitted.

Name: SDD-ID

● Description

A numeric value used to uniquely identify a specific State Discretionary Data data element applicable to a public water system.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>G1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SDD-ID</u>
Maximum Length:	<u>3</u>

● Data Characteristics

Data Base Record:	<u>C4000</u>	<u>STATE-DISCRETIONARY-DATA</u>
Data Base Family:	<u>11</u>	Registration Requirement: <u>3</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- Inserting, modifying or deleting a State discretionary data record

When specified.

- position 1 must be 'G' or position 1 - 3 must be numeric
- position 1 must not be 'G' when modifying or deleting a State discretionary data record
- and position 1 is 'G':
 - position 2 through 3 must be numeric
 - position 2 through 3 must be greater than zero
 - position 4 - 7 must be blank
- and position 1 is not 'G':
 - position 1 - 3 must be numeric
 - position 4 - 7 must be blank
 - the ID must exist in the FRDS-II data base for the PWS, when modifying or deleting a State discretionary data record
 - the ID must not exist in the FRDS-II data base for the PWS, when inserting a State discretionary data record

● Comments

If desired, the user can have the FRDS-II computer system generate a SDD-ID number by specifying a Group Generation Code (GGC) when a new State Discretionary Data data base record is to be inserted into the data base. This is accomplished by substituting the GGC for an actual ID (i.e. Gnn, where ... the letter 'G' tells FRDS-II to generate the ID, and the 'nn' is an arbitrary number assigned to all related C4000, STATE-DISCRETIONARY-DATA, data elements so that their logical grouping will remain intact).

SDD-ID must be valued for a new STATE-DISCRETIONARY-DATA data base record to be inserted into the FRDS-II Data Base.

Name: SDD-NAME

● Description

An alphanumeric value that names (i.e., identifies) a State Discretionary Data data element.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>G1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SDD-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C4000</u>	<u>STATE-DISCRETIONARY-DATA</u>
Data Base Family:	<u>11</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

None

Name: SDD-VALUE

● Description

An alphanumeric value that is associated with a State Discretionary Data data element.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>G1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SDD-ID</u>
Maximum Length:	<u>40</u>

● Data Characteristics

Data Base Record:	<u>C4000</u>	<u>STATE-DISCRETIONARY-DATA</u>
Data Base Family:	<u>11</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be an alphanumeric value

● Comments

The State Discretionary Data data element name that is related to a SDD-VALUE is maintained in data element C4003, SDD-NAME.

If an alphanumeric value is not associated with a State Discretionary Data data element, refer to C4007, SDD-QUANTITY and/or C4009, SDD-DATE.

Name: SDD-QUANTITY

● Description

A numeric value that is associated with a State Discretionary Data data element.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>G1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SDD-ID</u>
Maximum Length:	<u>15</u>

● Data Characteristics

Data Base Record:	<u>C4000</u>	<u>STATE-DISCRETIONARY-DATA</u>
Data Base Family:	<u>11</u>	Registration Requirement: <u>.</u>
Data Category:	<u>41</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DECIMAL</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(7).9(8)</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be a numeric real number
- whole portion cannot exceed seven digits
- decimal portion cannot exceed eight digits
- a decimal point may or may not be included
- a decimal point must be specified when a fractional amount is intended
- must not be a negative number [EGA]

● Comments

The State Discretionary Data data element name that is related to an SDD-QUANTITY is maintained in data element C4003, SDD-NAME.

If a numeric value is not associated with a State Discretionary Data data element, refer to C4005, SDD-VALUE and/or C4009, SDD-DATE.

Name: SDD-DATE

● Description

A calendar date value that is associated with a State Discretionary Data data element.

● Source

FRDS-II Data Transfer File	
Form ID:	<u>G1</u>
Data Qualifiers:	<u>PWS-ID</u>
	<u>SDD-ID</u>
Maximum Length:	<u>6</u>

● Data Characteristics

Data Base Record:	<u>C4000</u>	<u>STATE-DISCRETIONARY-DATA</u>
Data Base Family:	<u>11</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>NON-KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Edit Criteria

Must be specified when:

- modifying the current value

When specified:

- must be a six digit numeric calendar date, comprised of.
 - . month, in position 1 - 2;
 - . day, in position 3 - 4; and
 - . year, in position 5 - 6

● Comments

The State Discretionary Data data element name that is related to SDD-DATE is maintained in data element C4003, SDD-NAME.

If a calendar date is not associated with a State Discretionary Data data element, refer to C4005, SDD-VALUE, and/or C4007, SDD-QUANTITY.

Name: DBA-DATA

● Description

A SYSTEM 2000 data base record identification name and number.

The C4050, DBA-DATA, data base record contains data elements that characterize a specific set of values defined at the discretion of the FRDS Data Base Administrator. Predominantly, the DBA data base record is used for storage of SNC information.

The FRDS-II Data Base has one DBA-DATA data base record for each single set of DBA specific values that have been determined for a public water system.

● Data Characteristics

Data Type: <u>RECORD</u>	Data Base Family: <u>12</u>	Parent Record: <u>C100 PWS-SUMMARY</u>
--------------------------	-----------------------------	--

● Record Contents

This data base record contains the following data elements:

- | | |
|-------------------|--------------------------|
| ■ C4051 DBA-NAME | ■ C4057 DBA-COMMENT |
| ■ C4053 DBA-VALUE | ■ C4059 DBA-ID |
| ■ C4055 DBA-DATE | ■ C4061 DBA-SNC-CRITERIA |

● Comments

Each data element name contained within the DBA-DATA data base record is prefaced with ... DBA-

Name: DBA-NAME

● Description

An alphanumeric value that names (i.e., identifies) an associated set of a DBA data values

● Source

FRDS-II Data Transfer File

*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C4050</u>	<u>DBA-DATA</u>	
Data Base Family:	<u>12</u>	Registration Requirement:	<u>.</u>
Data Category:	<u>01</u>	Grant Requirement:	<u>NO</u>
Data Type:	<u>CHARACTER</u>	Access:	<u>KEY</u>
Picture:	<u>X(15)</u>	Code Table ID:	<u>N/A</u>

● Acceptable Values

An alphanumeric value

● Comments

The most prevalent usage of this data element is in identifying significant non-compliers (SNCs). The content of DBA-NAME varies with the SNC definition in effect at a given time. The content of DBA-NAME for the most recent SNCs (FY91, quarter 3, to present) is as follows:

- TIER1-SNC-yy-qq-CHEM-RAD-MCL
- TIER1-SNC-yy-qq-TCR-COMB
- TIER1-SNC-yy-qq-TURB-COMB
- TIER1-SNC-yy-qq-CHEM-RAD-MON
- TIER1-SNC-yy-qq-TCR-MAJOR
- TIER1-SNC-yy-qq-TURB-MAJOR
- TIER1-SNC-yy-qq-TCR-MCL
- TIER1-SNC-yy-qq-TURB-MCL
- TIER1-SNC-yy-qq-TCR-MJRPT

Less significant SNCs have a "TIER2-" prefix in place of "TIER1-" and the same suffixes as above.

Since FY91, quarter 4, preliminary Tier 1 SNCs have been identified prior to the actual SNC determination. Preliminary SNCs have a "PTIER1-" prefix in place of "TIER1-" and have the same suffixes as above. Tier 2 preliminary SNCs are not determined.

Older SNCs have slightly different names. To obtain a complete listing of all DBA-NAME values, enter the following command from the SYSTEM 2000 Self-Contained Facility (i.e., SCF or Natural Language):

TALLY/EACH/C4051:

Name: DBA-VALUE

● Description

An alphanumeric value that is associated with a DBA defined data element.

● Source

<u>FRDS-II Data Transfer File</u> *** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C4050</u>	<u>DBA-DATA</u>
Data Base Family:	<u>12</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An alphanumeric value

● Comments

The name of the DBA data that identifies DBA-VALUE is maintained in data element C4051, DBA-NAME.

Name: DBA-DATE

● Description

A calendar date value that is associated with a DBA defined data element.

● Source

FRDS-II Data Transfer File

*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C4050</u>	<u>DBA-DATA</u>
Data Base Family:	<u>12</u>	Registration Requirement: <u>-</u>
Data Category:	<u>60</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>DATE</u>	Access: <u>KEY</u>
Picture:	<u>MMDDYY</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

A six digit numeric calendar date, comprised of:
month, in position 1 - 2;
day, in position 3 - 4; and
year, in position 5 - 6

● Comments

The name of the DBA data that identifies DBA-DATE is maintained in data element C4051, DBA-NAME.

Name: DBA-COMMENT

● Description

An alphanumeric value that represents any description, characteristic, or attribute that the Data Base Administrator wants to record for the associated DBA data base record.

For DBA data base records used to record information about SNCs, DBA-COMMENT contains individual violation IDs (separated with a slash) which contributed to the SNC determination. A maximum of 31 violation IDs may be stored in DBA-COMMENT.

● Source

<u>FRDS-II Data Transfer File</u>
*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C4050</u>	<u>DBA-DATA</u>
Data Base Family:	<u>12</u>	Registration Requirement: <u>-</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An alphanumeric value

● Comments

A maximum of 12 violation IDs can be printed when using the FRDS/Interactive QuickLook Report Generator and the FRDS43B report.

Only one comment is allowed per DBA data base record.

Other comments are maintained in the following data elements:

- C813 PWS-MILESTONE-COMMENT
- C1215 ENF-COMMENT

Name: DBA-ID

● Description

A numeric value used to identify a specific DBA-DATA data base record. This value is utilized at the discretion of the Data Base Administrator.

● Source

FRDS-II Data Transfer File

*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C4050</u>	<u>DBA-DATA</u>
Data Base Family:	<u>12</u>	Registration Requirement: <u>-</u>
Data Category:	<u>20</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>INTEGER</u>	Access: <u>NON-KEY</u>
Picture:	<u>9(3)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An integer number

● Comments

DBA-ID is utilized at the discretion of the FRDS Data Base Administrator.

Name: DBA-SNC-CRITERIA

● Description

An alphanumeric data element that contains a two character code describing, for TCR SNC's, the specific monitoring frequency criteria upon which the SNC was generated. The monitoring frequency is generated based upon the duration of the most recent violation qualifying a public water system as a TCR SNC.

● Source

<u>FRDS-II Data Transfer File</u>
*** DBA SUPPLIED ***

● Data Characteristics

Data Base Record:	<u>C4050</u>	<u>DBA-DATA</u>
Data Base Family:	<u>12</u>	Registration Requirement: <u>.</u>
Data Category:	<u>01</u>	Grant Requirement: <u>NO</u>
Data Type:	<u>CHARACTER</u>	Access: <u>NON-KEY</u>
Picture:	<u>X(4)</u>	Code Table ID: <u>N/A</u>

● Acceptable Values

An alphanumeric value

● Comments

None

Section III

Quick Reference

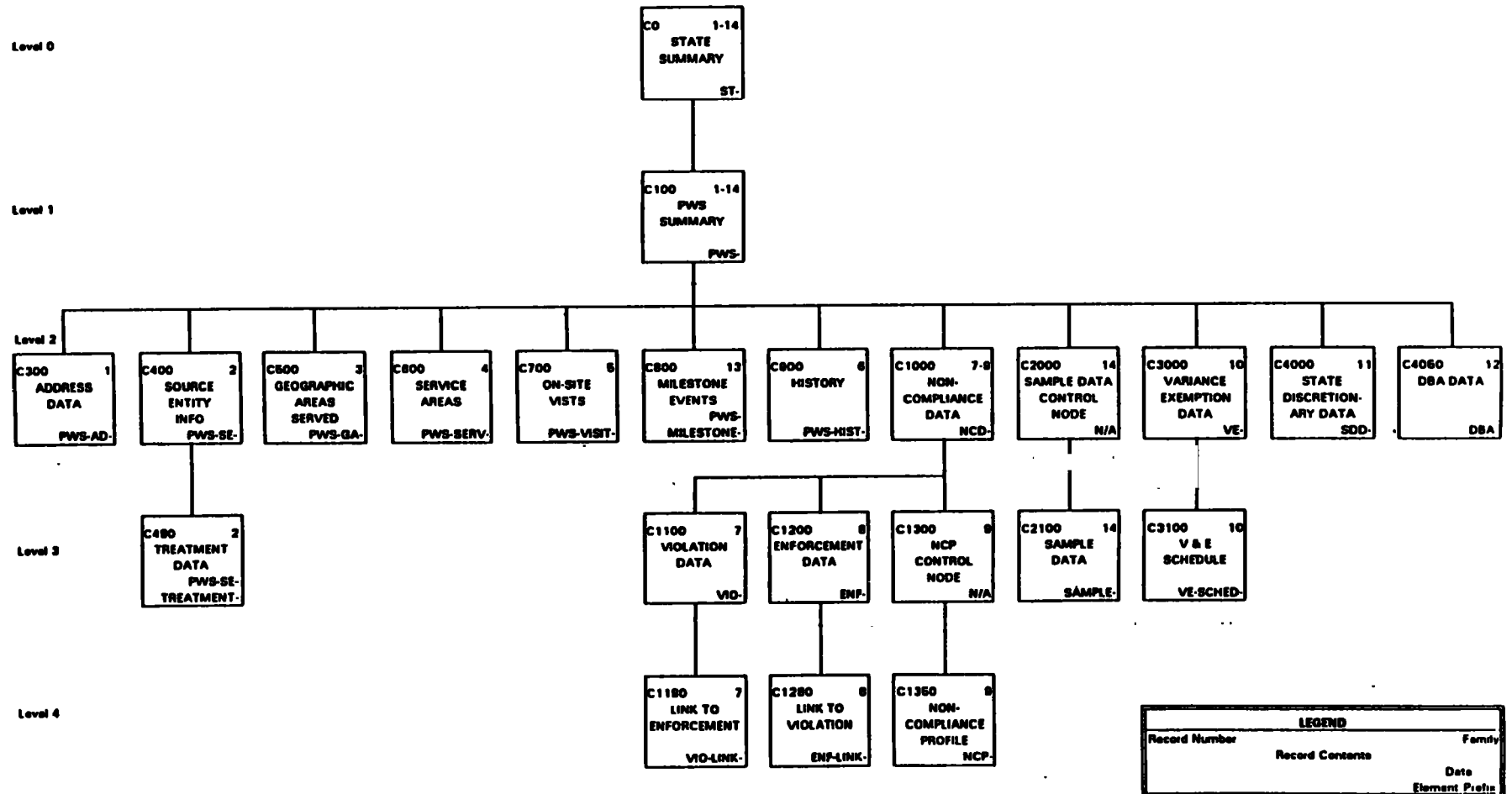
Section III Quick Reference

Section III contains information on all of the data base records and elements residing in the FRDS-II Data Base in quick reference, table format.

- **III A. FRDS-II Structure Chart**
- **III B. Comprehensive Data Element Table (Component Number Sequence)**
- **III C. Name to Number Cross Reference**
- **III D. Data Element Requirements**
 - ▶ **Registration Requirement**
 - ▶ **Grant Requirement**

III A. FRDS-II Structure Chart

**Federal Reporting Data System (FRDS-II)
Structure Chart
December 1, 1992**



Effective Date: 1/31/93

Release: 2.00

Page: III - 2

III B. FRDS-II Comprehensive Data Element Table

Element Number and Name	-----Data----- Print -Requirement- --Source-- Hist Tble									
	Key	Type	Lth.	Dec.	Cat.	Mask	Regist.	Grant	Form	Other Kept ID
C0 STATE-SUMMARY										
	***	RECORD	***	Level: 0	Family: ALL					
C1 ST-REGION-CODE	KEY	INT	2	10	99				DBA	0001
C3 ST-STATE-CODE	KEY	CHAR	2	10	99				DBA	0003
C4 ST-IND-RES-CODE	KEY	CHAR	7	10	56				DBA	1001
C5 ST-PRIMACY-FLAG	KEY	CHAR	1	10	99				DBA	0005
C7 ST-ANY-DATA-LAST-UPDATE		DATE	6	60	20				GEN	
C9 ST-INV-LAST-UPDATE		DATE	6	60	20				GEN	
C13 ST-VIO-LAST-UPDATE		DATE	6	60	20				GEN	
C15 ST-ENF-LAST-UPDATE		DATE	6	60	20				GEN	
C17 ST-VE-LAST-UPDATE		DATE	6	60	20				GEN	
C19 ST-RECON-FLAG	KEY	CHAR	1	10	99				GEN	0019
C29 ST-SAMPLE-LAST-UPDATE		DATE	6	60	20				GEN	
C100 PWS-SUMMARY										
	***	RECORD	***	Level: 1	Family: ALL	Parent: C0				Hist
C101 PWS-ID	KEY	CHAR	9	21	99	1	Grant	A2		
C102 PWS-GRANT-ELIGIBLE	KEY	CHAR	1	10	99				GEN	0102
C103 PWS-STATUS	KEY	CHAR	3	10	99				GEN	Hist 0103
C105 PWS-TYPE	KEY	CHAR	1	10	99	2	Grant	A2		0105
C107 PWS-ACTIVITY-FLAG	KEY	CHAR	1	10	99	2	Grant	A2		0107
C109 PWS-HISTORY-FLAG	KEY	CHAR	1	10	99				GEN	0109
C111 PWS-SYSTEM-BEGIN-YMM		INT	4	61	18			A2		
C113 PWS-DEACT-YMM		INT	4	61	18	4		A2		Hist
C115 PWS-POP-CATEGORY	KEY	CHAR	1	10	99				GEN	Hist 0115
C117 PWS-RETAIL-POP-SERVED		INT	8	30	08	2	Grant	A2		
C119 PWS-PRIMARY-SOURCE	KEY	CHAR	1	10	99				GEN	Hist 0119
C121 PWS-PCT-SURFACE		INT	3	30	17			A2		
C123 PWS-PCT-GROUND		INT	3	30	17			A2		
C125 PWS-PCT-PUR-SURFACE		INT	3	30	17			A2		
C127 PWS-PCT-PUR-GROUND		INT	3	30	17			A2		
C129 PWS-TREATMENT-CLASS	KEY	CHAR	1	10	99				GEN	Hist 0129
C131 PWS-SYSTEM-NAME		CHAR	40	01	99		Grant	A1		Hist
C133 PWS-SYSTEM-ADDR-LINE-1		CHAR	40	01	99			A1		
C135 PWS-SYSTEM-ADDR-LINE-2		CHAR	40	01	99			A1		
C137 PWS-SYSTEM-CITY	KEY	CHAR	40	01	99		Grant	A1		
C139 PWS-SYSTEM-STATE		CHAR	2	10	99		Grant	A1		1002
C141 PWS-SYSTEM-ZIP	KEY	CHAR	9	70	59		Grant	A1		
C143 PWS-PHONE		CHAR	10	71	61			A1		
C145 PWS-METERS		INT	7	30	07					
C147 PWS-SERVICE-CONNECTIONS	KEY	INT	7	30	07	2	Grant	A2		Hist
C149 PWS-AVG-DAILY-PROD		INT	10	30	10					
C151 PWS-TOT-DESIGN-CAPACITY		INT	10	30	10					
C153 PWS-TOT-EMERGENCY-PROD		INT	10	30	10					
C155 PWS-TOT-STORAGE-CAPACITY		INT	10	30	10					
C157 PWS-MAX-DAILY-PROD		INT	10	30	10					
C159 PWS-SEASON-BEGIN-MMDD		INT	4	62	18			Cond A2		
C161 PWS-SEASON-END-MMDD		INT	4	62	18			Cond A2		
C163 PWS-OWNER-TYPE	KEY	CHAR	1	10	99			A2		0163
C165 PWS-REGULATING-ENTITY		CHAR	1	10	99			A2		0165
C167 PWS-INV-LAST-UPDATE	KEY	DATE	6	60	20				GEN	
C168 PWS-INSERT-DATE		DATE	6	60	20				GEN	
C169 PWS-ANY-DATA-LAST-UPDATE	KEY	DATE	6	60	20				GEN	
C171 PWS-RECON-FLAG	KEY	CHAR	1	10	99				GEN	0171
C173 PWS-FYNN-TRACKER		CHAR	60	01	99				GEN	

III B. FRDS-II Comprehensive Data Element Table (continued)

Element Number and Name	Key	Type	Lth.	Dec.	Cat.	Mask	Print Regist.	Requirement Grant	--Source-- Form Other	Hist Kept	Tble ID
-----Data-----											
C300 PWS-ADDRESS-DATA	***	RECORD	***	Level: 2	Family: 1	Parent: C100					
C301 PWS-AD-ID		INT	1	20	99	3			A3		
C303 PWS-AD-TYPE	KEY	CHAR	1	10	99				A3		0303
C305 PWS-AD-NAME		CHAR	40	01	99				A3		
C307 PWS-AD-ADDR-LINE-1		CHAR	40	01	99				A3		
C309 PWS-AD-ADDR-LINE-2		CHAR	40	01	99				A3		
C311 PWS-AD-CITY	KEY	CHAR	40	01	99				A3		
C313 PWS-AD-STATE		CHAR	2	10	99				A3		1002
C315 PWS-AD-ZIP	KEY	CHAR	9	70	59				A3		
C400 PWS-SOURCE-ENTITY-INFO	***	RECORD	***	Level: 2	Family: 2	Parent: C100					
C401 PWS-SE-ID		INT	3	20	99	1			B1		
C403 PWS-SE-NAME		CHAR	40	01	99				B1		
C405 PWS-SE-RECORD-TYPE	KEY	CHAR	1	10	99	1			B1		0405
C407 PWS-SE-CODE	KEY	CHAR	1	10	99	2			B1		1010
C409 PWS-SE-AVAILABILITY		CHAR	1	10	99				B1		0409
C411 PWS-SE-SELLER-PWS-ID		CHAR	9	21	99				B1		0003
C413 PWS-SE-DATA-ORIGIN		CHAR	1	10	99				GEN		1007
C415 PWS-SE-LATITUDE	KEY	INT	6	72	21	4			B1		
C417 PWS-SE-LONGITUDE	KEY	INT	7	73	22	4			B1		
C418 PWS-SE-MERIDIAN-NAME		CHAR	40	01	99	4			B1		
C419 PWS-SE-TOWNSHIP		CHAR	4	74	52	4			B1		
C421 PWS-SE-RANGE		CHAR	4	75	53	4			B1		
C423 PWS-SE-SECTION		INT	2	76	19	4			B1		
C425 PWS-SE-QTR-SECTION		CHAR	2	10	55	4			B1		1011
C426 PWS-SE-QTR-SECTION		CHAR	2	10	55				B1		1011
C427 PWS-SE-RIVER-REACH-NUM	KEY	CHAR	11	10	62				B1		0427
C429 PWS-SE-ON-REACH		CHAR	1	10	99				B1		0429
C431 PWS-SE-REACH-MILES		DEC	6	2	41	13			B1		
C480 PWS-SE-TREATMENT-DATA	***	RECORD	***	Level: 3	Family: 2	Parent: C400					
C481 PWS-SE-TREATMENT-ID		INT	2	20	99	3			B2		
C483 PWS-SE-TREATMENT-OBJECTIVE	KEY	CHAR	1	10	99	3			B2		1005
C485 PWS-SE-TREATMENT-PROCESS	KEY	INT	3	10	99	3			B2		1003
C500 PWS-GEOGRAPHIC-AREAS-SERVED	***	RECORD	***	Level: 2	Family: 3	Parent: C100					
C501 PWS-GA-ID		INT	2	20	99	3			C1		
C503 PWS-GA-ADMIN-REGION		CHAR	2	02	99				C1		
C505 PWS-GA-ADMIN-DIST		CHAR	2	02	99				C1		
C507 PWS-GA-CONGRESSIONAL-DIST		CHAR	2	10	51				C1		0507
C508 PWS-GA-STATE-COUNTY-CODE		CHAR	3	15	54				C1		0508
C509 PWS-GA-FIPS-COUNTY-CODE		CHAR	3	10	54				C1		0509
C511 PWS-GA-MSA-CODE	KEY	CHAR	4	10	99				GEN		0511
C513 PWS-GA-CITY-SERVED	KEY	CHAR	40	01	99				C1		
C515 PWS-GA-IND-RES-CODE	KEY	CHAR	5	10	54				C1		1001
C517 PWS-GA-DATA-ORIGIN		CHAR	1	10	99				GEN		1007
C600 PWS-SERVICE-AREAS	***	RECORD	***	Level: 2	Family: 4	Parent: C100					
C601 PWS-SERV-ID		INT	2	20	99	3			C2		
C603 PWS-SERV-CATEGORY	KEY	CHAR	2	10	99	3			C2		0603
C605 PWS-SERV-PRIMARY-FLAG	KEY	CHAR	1	10	99	4			C2		0605

III B. FRDS-II Comprehensive Data Element Table (continued)

Element Number and Name	Key	Type	Lth.	Dec.	Cat.	Mask	Print	Requirement-	--Source--	Hist	Tble
							Regist.	Grant	Form	Other	Kept ID
C700 PWS-ON-SITE-VISITS	***	RECORD	***	Level: 2	Family: 5	Parent: C100					
C701 PWS-VISIT-ID		INT	2	20	99	3			C3		
C703 PWS-VISIT-DATE		DATE	6	60	20				C3		
C705 PWS-VISIT-REASON	KEY	CHAR	2	10	99				C3		0705
C800 PWS-MILESTONES-EVENTS	***	RECORD	***	Level: 2	Family: 13	Parent: C100					
C801 PWS-MILESTONE-ID		CHAR	4	25	99	3			C4		
C803 PWS-MILESTONE-DATE		DATE	6	60	20	2			C4		
C805 PWS-MILESTONE-CODE	KEY	CHAR	4	10	99	2			C4		0805
C809 PWS-MILESTONE-ORIGIN		CHAR	1	10	99					GEN	ID07
C811 PWS-MILESTONE-INSERT-DATE		DATE	6	60	20					GEN	
C813 PWS-MILESTONE-COMMENT		CHAR	40	01	99				C4		
C815 PWS-MILESTONE-VALUE		DEC	15	8	41	14	4		C4		
C900 PWS-HISTORY	***	RECORD	***	Level: 2	Family: 6	Parent: C100					
C901 PWS-HIST-CHANGED-ITEM	KEY	CHAR	4	02	99					GEN	
C903 PWS-HIST-CHANGE-DATE		DATE	6	60	20					GEN	
C905 PWS-HIST-OLD-VALUE		CHAR	40	01	99					GEN	
C907 PWS-HIST-NEW-VALUE		CHAR	40	01	99					GEN	
C1000 NON-COMPLIANCE-DATA	***	RECORD	***	Level: 2	Family: 7/9	Parent: C100					
C1001 NCD-RECON-FLAG	KEY	CHAR	1	10	99					GEN	1001
C1100 VIOLATION-DATA	***	RECORD	***	Level: 3	Family: 7	Parent: C1000					
C1101 VIO-ID		CHAR	7	22	56	3			D1		
C1103 VIO-CONTAMINANT	KEY	CHAR	4	10	99	4			D1		ID06
C1105 VIO-TYPE	KEY	CHAR	2	10	99	2			D1		ID08
C1107 VIO-COMP-PERIOD-BEGIN-DATE	KEY	DATE	6	60	20	2			D1		
C1109 VIO-COMP-PERIOD-END-DATE	KEY	DATE	6	60	20	4			D1		
C1111 VIO-COMP-PERIOD-MONTHS		INT	3	30	03	4			D1		
C1115 VIO-AWARE-DATE	KEY	DATE	6	60	20	4			D1		
C1117 VIO-INSERT-DATE	KEY	DATE	6	60	20					GEN	
C1121 VIO-ANALYSIS-METHOD		CHAR	3	10	99				D1		1121
C1123 VIO-ANALYSIS-RESULT		DEC	15	8	41	14	4		D1		
C1125 VIO-MCL-VIOLATED		DEC	15	8	41	14	4		D1		
C1127 VIO-SAMPLES-REQUIRED		INT	3	30	03				D1		
C1129 VIO-SAMPLES-TAKEN		INT	3	30	03	4			D1		
C1131 VIO-MAJOR-VIOLATION-FLAG	KEY	CHAR	1	10	99	4			D1		1131
C1133 VIO-LAST-UPDATE	KEY	DATE	6	60	20					GEN	
C1135 VIO-FY	KEY	INT	2	31	99					GEN	
C1137 VIO-DATA-ORIGIN		CHAR	1	10	99					GEN	ID07
C1143 VIO-SE-ID		INT	3	31	99				D1		
C1180 VIO-ENFORCEMENTS	***	RECORD	***	Level: 4	Family: 7	Parent: C1100					
C1181 VIO-LINK-ENF-ID		CHAR	7	23	56					GEN	
C1183 VIO-LINK-ENF-DATE		DATE	6	60	20					GEN	
C1185 VIO-LINK-FOLLOW-UP-ACTION	KEY	CHAR	3	10	99					GEN	ID09

III B. FRDS-II Comprehensive Data Element Table (continued)

Element Number and Name	Key	Type	Lth.	Dec.	Cat.	Mask	Print Regist.	Requirement- Grant	--Source-- Form Other	Hist Kept	Tble ID
C1200 ENFORCEMENT-DATA	*** RECORD ***						Level: 3 Family: 3 Parent: C1000				
C1201 ENF-ID	CHAR		7		23	56	3		E1		
C1203 ENF-ACTION-DATE	KEY DATE		6		60	20	2		E1		
C1205 ENF-FOLLOW-UP-ACTION	KEY CHAR		3		10	99	2		E1		ID09
C1207 ENF-LAST-UPDATE	KEY DATE		6		60	20				GEN	
C1209 ENF-FY	KEY INT		2		31	99				GEN	
C1211 ENF-DATA-ORIGIN	KEY CHAR		1		10	99				GEN	ID07
C1213 ENF-INSERT-DATE	DATE		6		60	20				GEN	
C1215 ENF-COMMENT	CHAR		40		01	99			E1		
C1280 ENF-VIOLATIONS	*** RECORD ***						Level: 4 Family: 3 Parent: C1200				
C1281 ENF-LINK-VIO-ID	CHAR		7		22	56			E1		
C1283 ENF-LINK-RANGE-BEGIN	DATE		6		60	20			E1		
C1285 ENF-LINK-RANGE-END	DATE		6		60	20			E1		
C1287 ENF-LINK-PERIOD-BEGIN	DATE		6		60	20			E1		
C1289 ENF-LINK-VIO-TYPE	CHAR		2		10	99			E1		ID08
C1291 ENF-LINK-CONTAMINANT	CHAR		4		10	99			E1		ID06
C1293 ENF-LINK-TYPE	KEY CHAR		1		10	99			E1		1293
C1300 NCP-CNTL-NODE	*** RECORD ***						Level: 3 Family: 9 Parent: C1000				
C1350 NON-COMPLIANCE-PROFILE	*** RECORD ***						Level: 4 Family: 9 Parent: C1300				
C1351 NCP-WINDOW-BEGIN-YMM	KEY INT		4		61	18				GEN	
C1353 NCP-WINDOW-MONTHS	INT		3		30	03				DBA	
C1355 NCP-WINDOW-PURPOSE	CHAR		40		01	99				DBA	
C1357 NCP-CONTAMINANT	KEY CHAR		4		10	99				DBA	ID06
C1359 NCP-MCL-VIOLATIONS	INT		3		30	03				GEN	
C1361 NCP-MCL-DURATION	INT		3		30	03				GEN	
C1363 NCP-MON-VIOLATIONS	INT		3		30	03				GEN	
C1365 NCP-MON-DURATION	INT		3		30	03				GEN	
C1367 NCP-ENF-ACTIONS	INT		3		30	03				GEN	
C2000 SAMPLE-DATA-CNTL-NODE	*** RECORD ***						Level: 2 Family: 14 Parent: C100				
C2100 SAMPLE-DATA	*** RECORD ***						Level: 3 Family: 14 Parent: C2000				
C2101 SAMPLE-ID	CHAR		5		26	99	3		H1		
C2103 SAMPLE-BEGIN-DATE	DATE		6		60	20	2		H1		
C2105 SAMPLE-END-DATE	DATE		6		60	20	2		H1		
C2107 SAMPLE-CONTAMINANT	KEY CHAR		4		10	99	2		H1		2107
C2111 SAMPLE-ANALYSIS-RESULT	DEC		15	8	41	14	2		H1		
C2117 SAMPLE-FY	KEY INT		2		31	02				GEN	
C3000 VARIANCE-EXEMPTION-DATA	*** RECORD ***						Level: 2 Family: 10 Parent: C100				
C3001 VE-ID	CHAR		7		24	56	3		F1		
C3003 VE-CONTAMINANT	CHAR		4		10	99	4		F1		ID06
C3005 VE-RECORD-TYPE	KEY CHAR		2		10	99	2		F1		3005
C3007 VE-EFFECTIVE-DATE	DATE		6		60	20	4		F1		
C3009 VE-EXPIRATION-DATE	DATE		6		60	20	4		F1		
C3011 VE-STATUS-CODE	CHAR		1		10	99	4		F1		3011
C3013 VE-MOD-MCL	DEC		15	8	41	14	4		F1		

III B. FRDS-II Comprehensive Data Element Table (continued)

Element Number and Name	-----Data-----					Print	-Requirement-		--Source--	Hist	Tble
	Key	Type	Lth.	Dec.	Cat.	Mask	Regist.	Grant	Form		
C3015 VE-TREATMENT-PROCESS		INT	3		10	99			F1		ID04
C3017 VE-ALT-PROCESS		INT	3		10	99	4		F1		ID04
C3019 VE-REASON-CODE		INT	3		10	99	4		F1		3019
C3021 VE-LAST-UPDATE	KEY	DATE	6		60	20				GEN	
C3023 VE-FY	KEY	INT	2		31	99				GEN	
C3025 VE-DATA-ORIGIN		CHAR	1		10	99				GEN	ID07
C3027 VE-VUL-FLAG		CHAR	1		10	99			F1		3027
C3029 VE-ALT-MON-FREQ		INT	3		30	03			F1		
C3031 VE-SE-ID		INT	3		20	99			F1		
C3033 VE-INSERT-DATE		DATE	6		60	20				GEN	
C3100 VE-SCHEDULE	*** RECORD *** Level: 3 Family: 10 Parent: C3000										
C3101 VE-SCHED-ID		INT	2		20	99	3		F2		
C3103 VE-SCHED-ACTION		CHAR	2		10	99			F2		3103
C3105 VE-SCHED-DATE		DATE	6		60	20			F2		
C3107 VE-SCHED-ACCOMP-DATE		DATE	6		60	20			F2		
C4000 STATE-DISCRETIONARY-DATA	*** RECORD *** Level: 2 Family: 11 Parent: C100										
C4001 SDD-ID		INT	3		20	99	3		G1		
C4003 SDD-NAME	KEY	CHAR	40		01	99			G1		
C4005 SDD-VALUE		CHAR	40		01	99			G1		
C4007 SDD-QUANTITY		DEC	15	8	41	14			G1		
C4009 SDD-DATE		DATE	6		60	20			G1		
C4050 DBA-DATA	*** RECORD *** Level: 2 Family: 12 Parent: C100										
C4051 DBA-NAME	KEY	CHAR	40		01	99				DBA	
C4053 DBA-VALUE	KEY	CHAR	40		01	99				DBA	
C4055 DBA-DATE	KEY	DATE	6		60	20				DBA	
C4057 DBA-COMMENT		CHAR	99		01	99				DBA	
C4059 DBA-ID		INT	3		20	99				DBA	
C4061 DBA-SNC-CRITERIA		CHAR	40		01	99				DBA	

III C. Name to Number Cross Reference

Element Number and Name	Element Number and Name
C4057 DBA-COMMENT	C515 PWS-GA-IND-RES-CODE
C4050 DBA-DATA	C511 PWS-GA-NSA-CODE
C4055 DBA-DATE	C508 PWS-GA-STATE-COUNTY-CODE
C4059 DBA-ID	C500 PWS-GEOGRAPHIC-AREAS-SERVED
C4051 DBA-NAME	C102 PWS-GRANT-ELIGIBLE
C4061 DBA-SNC-CRITERIA	C903 PWS-HIST-CHANGE-DATE
C4053 DBA-VALUE	C901 PWS-HIST-CHANGED-ITEM
C1203 ENF-ACTION-DATE	C907 PWS-HIST-NEW-VALUE
C1215 ENF-COMMENT	C905 PWS-HIST-OLD-VALUE
C1211 ENF-DATA-ORIGIN	C900 PWS-HISTORY
C1205 ENF-FOLLOW-UP-ACTION	C109 PWS-HISTORY-FLAG
C1209 ENF-FY	C101 PWS-ID
C1201 ENF-ID	C168 PWS-INSERT-DATE
C1213 ENF-INSERT-DATE	C167 PWS-INV-LAST-UPDATE
C1207 ENF-LAST-UPDATE	C157 PWS-MAX-DAILY-PROD
C1291 ENF-LINK-CONTAMINANT	C145 PWS-METERS
C1287 ENF-LINK-PERIOD-BEGIN	C805 PWS-MILESTONE-CODE
C1283 ENF-LINK-RANGE-BEGIN	C813 PWS-MILESTONE-COMMENT
C1285 ENF-LINK-RANGE-END	C803 PWS-MILESTONE-DATE
C1293 ENF-LINK-TYPE	C801 PWS-MILESTONE-ID
C1281 ENF-LINK-VIO-ID	C811 PWS-MILESTONE-INSERT-DATE
C1289 ENF-LINK-VIO-TYPE	C809 PWS-MILESTONE-ORIGIN
C1280 ENF-VIOLATIONS	C815 PWS-MILESTONE-VALUE
C1200 ENFORCEMENT-DATA	C800 PWS-MILESTONES-EVENTS
C1001 NCD-RECON-FLAG	C700 PWS-ON-SITE-VISITS
C1300 NCP-CNTL-NODE	C163 PWS-OWNER-TYPE
C1357 NCP-CONTAMINANT	C123 PWS-PCT-GROUND
C1367 NCP-ENF-ACTIONS	C127 PWS-PCT-PUR-GROUND
C1361 NCP-MCL-DURATION	C125 PWS-PCT-PUR-SURFACE
C1359 NCP-MCL-VIOLATIONS	C121 PWS-PCT-SURFACE
C1365 NCP-MON-DURATION	C143 PWS-PHONE
C1363 NCP-MON-VIOLATIONS	C115 PWS-POP-CATEGORY
C1351 NCP-WINDOW-BEGIN-YYMM	C119 PWS-PRIMARY-SOURCE
C1353 NCP-WINDOW-MONTHS	C171 PWS-RECON-FLAG
C1355 NCP-WINDOW-PURPOSE	C165 PWS-REGULATING-ENTITY
C1000 NON-COMPLIANCE-DATA	C117 PWS-RETAIL-POP-SERVED
C1350 NON-COMPLIANCE-PROFILE	C409 PWS-SE-AVAILABILITY
C107 PWS-ACTIVITY-FLAG	C407 PWS-SE-CODE
C307 PWS-AD-ADDR-LINE-1	C413 PWS-SE-DATA-ORIGIN
C309 PWS-AD-ADDR-LINE-2	C401 PWS-SE-ID
C311 PWS-AD-CITY	C415 PWS-SE-LATITUDE
C301 PWS-AD-ID	C417 PWS-SE-LONGITUDE
C305 PWS-AD-NAME	C418 PWS-SE-MERIDIAN-NAME
C313 PWS-AD-STATE	C403 PWS-SE-NAME
C303 PWS-AD-TYPE	C429 PWS-SE-ON-REACH
C315 PWS-AD-ZIP	C426 PWS-SE-QTR-QTR-SECTION
C300 PWS-ADDRESS-DATA	C425 PWS-SE-QTR-SECTION
C169 PWS-ANY-DATA-LAST-UPDATE	C421 PWS-SE-RANGE
C149 PWS-AVG-DAILY-PROD	C431 PWS-SE-REACH-MILES
C113 PWS-DEACT-YYMM	C405 PWS-SE-RECORD-TYPE
C173 PWS-FYNN-TRACKER	C427 PWS-SE-RIVER-REACH-NUM
C505 PWS-GA-ADMIN-DIST	C423 PWS-SE-SECTION
C503 PWS-GA-ADMIN-REGION	C411 PWS-SE-SELLER-PWS-ID
C513 PWS-GA-CITY-SERVED	C419 PWS-SE-TOWNSHIP
C507 PWS-GA-CONGRESSIONAL-DIST	C480 PWS-SE-TREATMENT-DATA
C517 PWS-GA-DATA-ORIGIN	C481 PWS-SE-TREATMENT-ID
C509 PWS-GA-FIPS-COUNTY-CODE	C483 PWS-SE-TREATMENT-OBJECTIVE
C501 PWS-GA-ID	C485 PWS-SE-TREATMENT-PROCESS

III C. Name to Number Cross Reference (continued)

Element Number and Name	Element Number and Name
C159 PWS-SEASON-BEGIN-MMDD	C3009 VE-EXPIRATION-DATE
C161 PWS-SEASON-END-MMDD	C3023 VE-FY
C603 PWS-SERV-CATEGORY	C3001 VE-ID
C601 PWS-SERV-ID	C3033 VE-INSERT-DATE
C605 PWS-SERV-PRIMARY-FLAG	C3021 VE-LAST-UPDATE
C600 PWS-SERVICE-AREAS	C3013 VE-MOD-MCL
C147 PWS-SERVICE-CONNECTIONS	C3019 VE-REASON-CODE
C400 PWS-SOURCE-ENTITY-INFO	C3005 VE-RECORD-TYPE
C103 PWS-STATUS	C3107 VE-SCHED-ACCOMP-DATE
C100 PWS-SUMMARY	C3103 VE-SCHED-ACTION
C133 PWS-SYSTEM-ADDR-LINE-1	C3105 VE-SCHED-DATE
C135 PWS-SYSTEM-ADDR-LINE-2	C3101 VE-SCHED-ID
C111 PWS-SYSTEM-BEGIN-Yymm	C3100 VE-SCHEDULE
C137 PWS-SYSTEM-CITY	C3031 VE-SE-ID
C131 PWS-SYSTEM-NAME	C3011 VE-STATUS-CODE
C139 PWS-SYSTEM-STATE	C3015 VE-TREATMENT-PROCESS
C141 PWS-SYSTEM-ZIP	C3027 VE-VUL-FLAG
C151 PWS-TOT-DESIGN-CAPACITY	C1121 VIO-ANALYSIS-METHOD
C153 PWS-TOT-EMERGENCY-PROD	C1123 VIO-ANALYSIS-RESULT
C155 PWS-TOT-STORAGE-CAPACITY	C1115 VIO-AWARE-DATE
C129 PWS-TREATMENT-CLASS	C1107 VIO-COMP-PERIOD-BEGIN-DATE
C105 PWS-TYPE	C1109 VIO-COMP-PERIOD-END-DATE
C703 PWS-VISIT-DATE	C1111 VIO-COMP-PERIOD-MONTHS
C701 PWS-VISIT-ID	C1103 VIO-CONTAMINANT
C705 PWS-VISIT-REASON	C1137 VIO-DATA-ORIGIN
C2111 SAMPLE-ANALYSIS-RESULT	C1180 VIO-ENFORCEMENTS
C2103 SAMPLE-BEGIN-DATE	C1135 VIO-FY
C2107 SAMPLE-CONTAMINANT	C1101 VIO-ID
C2100 SAMPLE-DATA	C1117 VIO-INSERT-DATE
C2000 SAMPLE-DATA-CNTL-NODE	C1133 VIO-LAST-UPDATE
C2105 SAMPLE-END-DATE	C1183 VIO-LINK-ENF-DATE
C2117 SAMPLE-FY	C1181 VIO-LINK-ENF-ID
C2101 SAMPLE-ID	C1185 VIO-LINK-FOLLOW-UP-ACTION
C4009 SDD-DATE	C1131 VIO-MAJOR-VIOLATION-FLAG
C4001 SDD-ID	C1125 VIO-MCL-VIOLATED
C4003 SDD-NAME	C1127 VIO-SAMPLES-REQUIRED
C4007 SDD-QUANTITY	C1129 VIO-SAMPLES-TAKEN
C4005 SDD-VALUE	C1143 VIO-SE-ID
C7 ST-ANY-DATA-LAST-UPDATE	C1105 VIO-TYPE
C15 ST-ENF-LAST-UPDATE	C1100 VIOLATION-DATA
C4 ST-IND-RES-CODE	
C9 ST-INV-LAST-UPDATE	
C5 ST-PRIMACY-FLAG	
C19 ST-RECON-FLAG	
C1 ST-REGION-CODE	
C29 ST-SAMPLE-LAST-UPDATE	
C3 ST-STATE-CODE	
C17 ST-VE-LAST-UPDATE	
C13 ST-VIO-LAST-UPDATE	
C4000 STATE-DISCRETIONARY-DATA	
C0 STATE-SUMMARY	
C3000 VARIANCE-EXEMPTION-DATA	
C3029 VE-ALT-MON-FREQ	
C3017 VE-ALT-PROCESS	
C3003 VE-CONTAMINANT	
C3025 VE-DATA-ORIGIN	
C3007 VE-EFFECTIVE-DATE	

III D. Data Element Requirements

Element Number	Element Name	Registration Requirement	Grant Requirement	Record Number
C101	PWS-ID	1	YES	C100
C105	PWS-TYPE	2	YES	C100
C107	PWS-ACTIVITY-FLAG	2	YES	C100
C113	PWS-DEACT-YYMM	4		C100
C117	PWS-RETAIL-POP-SERVED	2	YES	C100
C131	PWS-SYSTEM-NAME		YES	C100
C137	PWS-SYSTEM-CITY		YES	C100
C139	PWS-SYSTEM-STATE		YES	C100
C141	PWS-SYSTEM-ZIP		YES	C100
C147	PWS-SERVICE-CONNECTIONS	2	YES	C100
C159	PWS-SEASON-BEGIN-MMDD		COND	C100
C161	PWS-SEASON-END-MMDD		COND	C100
C301	PWS-AD-ID	3		C300
C401	PWS-SE-ID	1		C400
C405	PWS-SE-RECORD-TYPE	1		C400
C407	PWS-SE-CODE	2		C400
C415	PWS-SE-LATITUDE	4		C400
C417	PWS-SE-LONGITUDE	4		C400
C418	PWS-SE-MERIDIAN-NAME	4		C400
C419	PWS-SE-TOWNSHIP	4		C400
C421	PWS-SE-RANGE	4		C400
C423	PWS-SE-SECTION	4		C400
C425	PWS-SE-QTR-SECTION	4		C400
C481	PWS-SE-TREATMENT-ID	3		C480
C483	PWS-SE-TREATMENT-OBJECTIVE	3		C480
C485	PWS-SE-TREATMENT-PROCESS	3		C480
C501	PWS-GA-ID	3		C500
C601	PWS-SERV-ID	3		C600
C603	PWS-SERV-CATEGORY	3		C600
C605	PWS-SERV-PRIMARY-FLAG	4		C600
C701	PWS-VISIT-ID	3		C700
C801	PWS-MILESTONE-ID	3		C800
C803	PWS-MILESTONE-DATE	2		C800
C805	PWS-MILESTONE-CODE	2		C800
C815	PWS-MILESTONE-VALUE	4		C800
C1101	VIO-ID	3		C1100
C1103	VIO-CONTAMINANT	4		C1100
C1105	VIO-TYPE	2		C1100
C1107	VIO-COMP-PERIOD-BEGIN-DATE	2		C1100
C1109	VIO-COMP-PERIOD-END-DATE	4		C1100
C1111	VIO-COMP-PERIOD-MONTHS	4		C1100
C1115	VIO-AWARE-DATE	4		C1100
C1123	VIO-ANALYSIS-RESULT	4		C1100
C1125	VIO-MCL-VIOLATED	4		C1100
C1129	VIO-SAMPLES-TAKEN	4		C1100
C1131	VIO-MAJOR-VIOLATION-FLAG	4		C1100
C1201	ENF-ID	3		C1200
C1203	ENF-ACTION-DATE	2		C1200
C1205	ENF-FOLLOW-UP-ACTION	2		C1200
C2101	SAMPLE-ID	3		C2100
C2103	SAMPLE-BEGIN-DATE	2		C2100
C2105	SAMPLE-END-DATE	2		C2100
C2107	SAMPLE-CONTAMINANT	2		C2100
C2111	SAMPLE-ANALYSIS-RESULT	2		C2100
C3001	VE-ID	3		C3000
C3003	VE-CONTAMINANT	4		C3000
C3005	VE-RECORD-TYPE	2		C3000

III D. Data Element Requirements (continued)

----- Element Number -----	----- Element Name -----	----- Registration Requirement -----	----- Grant Requirement -----	----- Record Number -----
C3007	VE-EFFECTIVE-DATE	4		C3000
C3009	VE-EXPIRATION-DATE	4		C3000
C3011	VE-STATUS-CODE	4		C3000
C3013	VE-MOD-MCL	4		C3000
C3017	VE-ALT-PROCESS	4		C3000
C3019	VE-REASON-CODE	4		C3000
C3101	VE-SCNED-ID	3		C3100
C4001	SDD-ID	3		C4000

Section IV

FRDS 1.5 Versus FRDS-II Comparison Tables

Section IV FRDS 1.5 Versus FRDS-II Comparison Tables

Section IV contains information on the conversion of FRDS 1.5 to FRDS-II. Since this material remains unchanged from Release 1.00 of the FRDS-II Data Element Dictionary, and is considered no longer relevant, it has not been included in Release 2.00. A section cover sheet, however, has been provided for this section enabling the user to insert Section IV, Release 1.00, in the new release document if so desired.

Section V

FRDS 1.5 To FRDS-II Conversion Rules

Section V FRDS 1.5 To FRDS-II Conversion Rules

Section V contains information on the conversion of FRDS 1.5 to FRDS-II. Since this material remains unchanged from Release 1.00 of the FRDS-II Data Element Dictionary, and is considered no longer relevant, it has not been included in Release 2.00. A section cover sheet, however, has been provided for this section enabling the user to insert Section V, Release 1.00, in the new release document if so desired.

Section VI

Lists Of Acceptable Code Values With Associated Descriptions

Section VI Lists of Acceptable Code Values with Associated Descriptions

A. Introduction

Section VI contains comprehensive lists (i.e., tables) of acceptable code values along with each code's description and other related comments, as appropriate, for each of the FRDS-II data elements that have code values.

In addition to this introduction, Section VI consists of an index to each of the code tables utilized by FRDS-II (Section VI B.) with the individual code tables (Section VI C.) immediately following. The Legend for the noted items in VI, B., is on page V - 9.

The index and the individual code tables are listed in code table ID sequence. Thus, table IDs ID01 through ID11 appear first, followed by table IDs 0001 through 3103.

Except as designated below, the codes within individual tables are listed in sequence by code value. The exceptions are as follows:

- The following code tables are listed by code value within USPS Postal State Code:

Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Table 0507, FIPS PUB 9, Federal Congressional District Codes

Table 0508, State-specific County Codes

Table 0509, FIPS PUB 6-4, County Codes

- The following code table is listed by code value within Treatment Objective Code:

Table ID03, Combined Treatment Objective and Treatment Process Codes

- The following code tables are listed by code value within Contaminant Group Code:

Table ID06, Contaminant Identification Codes

Table 1121, Analysis Method Codes

- The following code table is listed by code value within Source/Entity Record Type Code:

Table ID10, Combined Source / Entity Record Type and Source / Entry Point / Plant Type Codes

- The following code table is listed by code value within U.S. Water Resources Council Region:

Table 0427, FIPS PUB 103, Hydrologic Unit Codes

Table IDs which begin with the letters "ID" are known as "Common Tables." Common tables are used when either of two circumstances exist:

- More than a single data element utilizes the same set of code values.

For example: Acceptable values for data elements C139, PWS-SYSTEM-STATE, and C313, PWS-AD-STATE, are USPS Postal State Codes. Rather than having two identical code tables (one for C139 and one for C313), table ID02 was established.

- The code values for two different data elements are combined together. This is necessary when there exists a set of valid combinations of two data elements' values.

For example: Table 0405 consists of valid codes for data element C405, PWS-SE-RECORD-TYPE, and table 0407 consists of valid codes for data element C407, PWS-SE-CODE. However, only certain C407 code values are valid for each C405 code value. Thus, table ID10 was established.

Table IDs that consist of 4 numeric digits are known as "Data Element Tables." The table ID for a data element table is the same as the data element number for which the table is established. For example: The code values for data element C3, ST-STATE-CODE, are maintained in code table 0003. Please note that leading zeros have been added to the code table ID to ensure that it is 4 numeric digits. Each of the following data element numbers are synonymous when referring to ST-STATE-CODE: C3, C03, C003, and C0003.

The remainder of this introduction contains explanatory notes relative to the "Associated Description" and/or "Comments" column(s) in Section VI., C., where further explanation is appropriate. If the contents of these columns are self-explanatory, no further details are provided herein.

Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

"County"	The FIPS county code. See table 0509.
"Class"	<p>A descriptive categorization of the type of Indian reservation or Alaska remote village.</p> <ul style="list-style-type: none">• D1 identifies a Federally-administered reservation.• D4 identifies a State-administered reservation that does not serve as a minor civil division (MCD).• D5 identifies a State-administered reservation that is serving as an MCD equivalent.• D9 identifies an Indian Historic Reservation Area.• E1 identifies an Alaska remote village not serving as a census designated place (CDP) and not identically named and coincident with an incorporated place.• E2 identifies an Alaska remote village serving as a CDP.• E6 identifies an Alaska remote village with the same name and coincident with an incorporated place.

Table ID02, USPS Postal State Codes

"ZIP code Prefix"	The 1st digit of the ZIP code.
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Table ID06, Contaminant Identification Codes

"Regulated"	The contaminant has a Federal MCL and Monitoring requirement if the letter "R" appears in the comments column beneath "Regulated."
"Monitoring Only"	The contaminant has a Federal Monitoring requirement ONLY if the letter "M" appears in the comments column beneath "Monitoring Only."

Table 0003, FIPS PUB 5-2, Alphabetic State Codes and Selected EPA Region Codes

"CONUS" An acronym for the Contiguous United States. If the State is NOT in the contiguous United States (lower 48 states), an "N" appears in the comments column beneath "CONUS."

Table 0427, FIPS PUB 103, Hydrologic Unit Codes

For each the Planning Subregion, Accounting Unit, and Cataloging Unit, the "Associated Description" column shows the approximate square miles encompassed by the area.

For each U.S. Water Resources Council Region, Planning Subregion, Accounting Unit, and Cataloging Unit, the "Comments" column identifies the State or States in which the area is located.

For each the Planning Subregion, Accounting Unit, and Cataloging Unit, the "Comments" column shows the minimum and maximum latitude and the minimum and maximum longitude of the area in which the entity is located.

Table 0508, State-specific County Codes

"FIPS Code" The FIPS county code equivalent of the State-specific county code.

Table 0509, FIPS PUB 6-4, County Codes

For each county in the Contiguous United States, the "Comments" column shows the minimum and maximum latitude and the minimum and maximum longitude of the area in which the county is located.

Table 0511, FIPS PUB 8-5, Metropolitan Statistical Area (MSA) Codes, with PMSAs, NECMAs, & CMSAs

"2-digit CMSA" An alternate coding scheme for identifying the CMSA.

- "Pop. Level"** The 1980 census population of the area.
- Identifies areas of 1 million or more persons.
 - Identifies areas of 250,000 or more, but less than 1 million persons.
 - Identifies areas of 100,000 or more, but less than 250,000 persons.
 - Identifies areas of less than 100,000 persons.

Section VI
Lists of Acceptable Code Values with Associated Descriptions
B. Index to Code Tables

See Note	Table ID	Table Description	Code values and Associated Descriptions for		Page VI-
			D.E.	Data Element Name	
1	ID01	FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes	C4	ST-IND-RES-CODE	10
			C515	PWS-GA-IND-RES-CODE	
	ID02	USPS Postal State Codes	C139	PWS-SYSTEM-STATE	51
			C313	PWS-AD-STATE	
2	ID03	Combined Treatment Objective and Treatment Process Codes	C483	PWS-SE-TREATMENT-OBJECTIVE combined with	53
			C485	PWS-SE-TREATMENT-PROCESS	
	ID04	Treatment Process Codes	C485	PWS-SE-TREATMENT-PROCESS	71
			C3015	VE-TREATMENT-PROCESS	
			C3017	VE-ALT-PROCESS	
3	ID05	Treatment Objective Codes	C483	PWS-SE-TREATMENT-OBJECTIVE	74
	ID06	Contaminant Identification Codes	C1103	VIO-CONTAMINANT	75
			C1291	ENF-LINK-CONTAMINANT	
			C1357	NCP-CONTAMINANT	
			C3003	VE-CONTAMINANT	
	ID07	Record Data Origin Codes	C413	PWS-SE-DATA-ORIGIN	87
			C517	PWS-GA-DATA-ORIGIN	
			C809	PWS-MILESTONE-ORIGIN	
			C1137	VIO-DATA-ORIGIN	
			C1211	ENF-DATA-ORIGIN	
			C3025	VE-DATA-ORIGIN	
	ID08	Violation Type Codes	C1105	VIO-TYPE	88
			C1289	ENF-LINK-VIO-TYPE	
	ID09	Enforcement Follow-up Action Codes	C1185	VIO-LINK-FOLLOW-UP-ACTION	89
			C1205	ENF-FOLLOW-UP-ACTION	
4	ID10	Combined Source/Entity Record Type and Source/ Entry Point/Plant Type Codes	C405	PWS-SE-RECORD-TYPE combined with	99
			C407	PWS-SE-CODE	
	ID11	Township/Range Quarter Section and Quarter-Quarter Section Codes	C425	PWS-SE-QTR-SECTION	100
			C426	PWS-SE-QTR-QTR-SECTION	
	0001	EPA Region Codes	C1	ST-REGION-CODE	101

B. Index to Code Tables (Continued)

See Note	Table ID	Table Description	Code values and Associated Descriptions for		Page VI -
			D.E.	Data Element Name	
	0003	FIPS PUB 5-2, Alphabetic State Codes and Selected EPA Region Codes	C3	ST-STATE-CODE	102
	0005	Primacy Flag Codes	C5	ST-PRIMACY-FLAG	105
	0019	State Reconciliation Flag Codes	C19	ST-RECON-FLAG	106
	0102	Grant Eligibility Codes	C102	PWS-GRANT-ELIGIBLE	107
	0103	PWS Status Codes	C103	PWS-STATUS	108
	0105	PWS Type Codes	C105	PWS-TYPE	109
	0107	PWS Activity Flag Codes	C107	PWS-ACTIVITY-FLAG	110
	0109	History Flag Codes	C109	PWS-HISTORY-FLAG	111
	0115	Population Category Codes	C115	PWS-POP-CATEGORY	112
	0119	Primary Source Type Codes	C119	PWS-PRIMARY-SOURCE	113
	0129	Treatment Class Codes	C129	PWS-TREATMENT-CLASS	114
	0163	PWS Owner Type Codes	C163	PWS-OWNER-TYPE	115
	0165	Regulating Entity Codes	C165	PWS-REGULATING-ENTITY	116
	0171	PWS Reconciliation Flag Codes	C171	PWS-RECON-FLAG	117
	0303	Addressee Type Codes	C303	PWS-AD-TYPE	118
	0405	Source/Entity Record Type Codes	C405	PWS-SE-RECORD-TYPE	119
	0407	Source/Entry Point/Plant Type Codes	C407	PWS-SE-CODE	120
	0409	Source Availability Codes	C409	PWS-SE-AVAILABILITY	121
5	0427	FIPS PUB 103, Hydrologic Unit Codes	C427	PWS-SE-RIVER-REACH-NUM	122
	0429	On Reach Flag Codes	C429	PWS-SE-ON-REACH	385

B. Index to Code Tables (Continued)

See Note	Table ID	Table Description	Code values and Associated Descriptions for		Page VI -
			D.E.	Data Element Name	
1	0507	FIPS PUB 9, Federal Congressional District Codes	C507	PWS-GA-CONGRESSIONAL-DIST	386
1	0508	State-specific County Codes	C508	PWS-GA-STATE-COUNTY-CODE	447
1	0509	FIPS PUB 6-4, County Codes	C509	PWS-GA-FIPS-COUNTY-CODE	512
6	0511	FIPS PUB 8-5, Metropolitan Statistical Area (MSA) Codes, with PMSAs, NECMAs, & CMSAs	C511	PWS-GA-MSA-CODE	639
	0603	Service Area Category Codes	C603	PWS-SERV-CATEGORY	643
	0605	Primary Service Area Flag Codes	C605	PWS-SERV-PRIMARY-FLAG	644
	0705	On-site Visit Reason Codes	C705	PWS-VISIT-REASON	645
	0805	Pb/Cu Milestone Event Codes	C805	PWS-MILESTONE-CODE	646
	1001	Non-compliance Data Reconciliation Flag Codes	C1001	NCD-RECON-FLAG	647
3	1121	Analysis Method Codes	C1121	VIO-ANALYSIS-METHOD	648
	1131	Major/Minor Violation Flag Codes	C1131	VIO-MAJOR-VIOLATION-FLAG	654
	1293	Enforcement Link Type Codes	C1293	ENF-LINK-TYPE	655
	2107	Sample Contaminant Identification Codes	C2107	SAMPLE-CONTAMINANT	656
	3005	Variance/Exemption/Other Record Type Codes	C3005	VE-RECORD-TYPE	657
	3011	Variance/Exemption/Other Status Codes	C3011	VE-STATUS-CODE	658
	3019	Variance/Exemption/Other Reason Codes	C3019	VE-REASON-CODE	659
	3027	Variance/Exemption/Other Vulnerability Flag Codes	C3027	VE-VUL-FLAG	660
	3103	Variance/Exemption/Other Schedule Action Codes	C3103	VE-SCHED-ACTION	661

Note Legend

<u>Note</u>	<u>Description</u>
1	Values for this code table are listed by USPS Postal State Code.
2	Values for this code table are listed by Treatment Objective Code.
3	Values for this code table are listed by Contaminant Group Code.
4	Values for this code table are listed by Source/Entity Record Type Code.
5	Values for this code table are listed by U.S. Water Resources Council Region.
6	This code table is incomplete at this time.

Section VI. Lists of Acceptable Code Values with Associated Descriptions
C. Detailed Lists of Code Values

Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations and Alaska Remote Villages of Alaska (AK)	County	Class (See Section VI., A.)
00430	Afognak (ANV) ANV701	150	E1
00655	Akhiok (ANV) ANV703	150	E6
00765	Akiachak (ANV) ANV704	050	E1
00875	Akiak (ANV) ANV705	050	E6
01095	Akutan (ANV) ANV707		E6
01205	Alakanuk (ANV) ANV708	270	E6
01310	Alatna (ANV) (Included In Allakaket) ANV709		E1
01425	Aleknagik (ANV) ANV711		E6
01640	Alexander (ANV) ANV713	170	E1
01870	Allakaket (ANV) ANV716		E6
01975	Ambler (ANV) ANV718	188	E6
02085	Anaktuvuk Pass (ANV) ANV720	185	E6
03330	Andreafsky (ANV) (Included In Saint Mary's) ANV721	270	E1
03445	Angoon (ANV) ANV722		E6
03555	Aniak (ANV) ANV723	050	E6
03800	Annette Islands Reserve (Indian Reservation)	201	D1 (Federally-administered)
03885	Anvik (ANV) ANV726		E6
03990	Arctic Village (ANV) ANV727		E2
04210	Atka (ANV) ANV728		E2
04300	Atkasook (Variant: Atkasuk) (ANV) ANV729	185	E2
04435	Atmautluak (ANV) ANV730	050	E6
05205	Barrow (Utkiavi) (ANV) ANV732	185	E6
05750	Beaver (ANV) ANV733		E2
05980	Belkofsky (Belkofski) (ANV) ANV735		E1
06525	Bethel (ANV) ANV737	050	E6
07410	Bill Moore's (ANV) ANV739	270	E1
07620	Birch Creek (ANV) ANV741		E2
08745	Brevig Mission (ANV) ANV743	180	E6
09605	Buckland (ANV) ANV744	188	E6
10150	Cantwell (ANV) ANV746		E2
11800	Chalkyitsik (ANV) ANV748		E2
12685	Chefornak (ANV) ANV750	050	E6
13235	Chevak (ANV) ANV752	270	E6
13560	Chignik (ANV) ANV754		E6

**Section VI. Lists of Acceptable Code Values with Associated Descriptions
C. Detailed Lists of Code Values**

Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
Note: This list begins on VI - 10			
Indian Reservations and Alaska Remote Villages of Alaska (AK)		County	Class (See Section VI., A.)
13670	Chignik Lagoon (ANV) ANV755		E2
13780	Chignik Lake (ANV) ANV756		E2
13830	Chilkat (ANV) (Native name for Klukwan) ANV757		E1
14000	Chistochina (ANV) ANV758	261	E2
14110	Chitina (ANV) ANV759	261	E2
14880	Circle (ANV) ANV762		E2
15455	Clark's Point (ANV) ANV763		E6
17300	Copper Center (ANV) ANV764	261	E2
17745	Craig (ANV) ANV766	201	E6
17850	Crooked Creek (ANV) ANV767	050	E2
18515	Deering (ANV) ANV769	188	E6
18955	Dillingham (ANV) ANV771		E6
19720	Dot Lake (ANV) ANV773		E2
20390	Eagle (ANV) ANV775		E1
21045	Eek (ANV) ANV776	050	E6
21150	Egegik (ANV) ANV777		E2
21480	Eklutna (ANV) (Included In Anchorage) ANV778	020	E1
21700	Ekluk (ANV) ANV779		E1
21815	Ekwok (ANV) ANV780		E6
22255	Elim (ANV) ANV781	180	E6
22915	Emmonak (ANV) ANV782	270	E6
23130	English Bay (ANV) ANV783	122	E2
23790	Evansville (ANV) ANV784		E2
24670	False Pass (ANV) ANV786		E2
26765	Fort Yukon (ANV) ANV788		E6
27420	Gakona (ANV) ANV789	261	E2
27535	Galena (ANV) ANV790		E6
27645	Gambell (ANV) ANV791	180	E6
28350	Georgetown (ANV) ANV792	050	E1
29185	Golovin (ANV) ANV794	180	E6
29295	Goodnews Bay (ANV) ANV795	050	E6
30065	Grayling (ANV) ANV796		E6
30500	Gulkana (ANV) ANV797	261	E2
31380	Hamilton (ANV) ANV799	270	E1

**Section VI. Lists of Acceptable Code Values with Associated Descriptions
C. Detailed Lists of Code Values**

Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
Note: This list begins on VI - 10			
Indian Reservations and Alaska Remote Villages of Alaska (AK)		County	Class (See Section VI., A.)
32310	Healy Lake (ANY) ANV800		E2
33035	Holy Cross (ANY) ANV801		E6
33365	Hoonah (ANY) ANV802		E6
33475	Hooper Bay (ANY) ANV803	270	E6
33915	Hughes (ANY) ANV804		E6
34355	Huslia (ANY) ANV805		E6
34465	Hydaburg (ANY) ANV806	201	E6
34790	Igiugig (ANY) ANV807		E2
35120	Iliamna (ANY) ANV808		E2
35170	Inalik (ANY) (Native name for Diomede) ANV809	180	E1
35890	Ivanof Bay (ANY) ANV810		E1
36660	Kaguyak (ANY) ANV812	150	E1
36775	Kake (ANY) ANV813	280	E6
36995	Kaktovik (ANY) ANV814	185	E6
37320	Kalskag (ANY) (Native name for Upper Kalskag) ANV815	050	E1
37435	Kaltag (ANY) ANV816		E6
37540	Karluk (ANY) ANV817	150	E2
37655	Kasaan (ANY) ANV818	201	E6
37980	Kesigluk (ANY) ANV819	050	E6
39305	Kiana (ANY) ANV822	188	E6
39415	King Cove (ANY) ANV823		E6
39965	Kivalina (ANY) ANV826	188	E6
40405	Klawock (ANY) ANV827	201	E6
40620	Knik (ANY) ANV828	170	E1
40845	Kobuk (ANY) ANV829	188	E6
41280	Kokhanok (ANY) ANV831		E2
41500	Koliganek (ANY) ANV832		E2
41610	Kongiganak (ANY) ANV833	050	E2
41725	Kotlik (ANY) ANV834	270	E6
41835	Kotzebue (ANY) ANV835	188	E6
41945	Koyuk (ANY) ANV836	180	E6
42055	Koyukuk (ANY) ANV837		E6
42385	Kwethluk (ANY) ANV839	050	E6
42490	Kwigillingok (ANY) ANV840	050	E2

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
Note: This list begins on VI - 10			
Indian Reservations and Alaska Remote Villages of Alaska (AK)		County	Class (See Section VI., A.)
43045	Larsen Bay (ANV) ANV842	150	E6
43810	Levelock (ANV) ANV843		E2
44030	Lime Village (ANV) ANV845	050	E2
45465	Lower Kalskag (ANV) ANV848	050	E6
46015	McGrath (ANV) ANV849		E6
46780	Manley Hot Springs (ANV) ANV850		E2
46895	Manokotak (ANV) ANV851		E6
47000	Marshall (ANV) (Native name for Fortuna Ledge) ANV852	270	E1
47220	Mary's Igloo (ANV) ANV853	180	E1
47995	Mekoryuk (ANV) ANV855	050	E6
48540	Mentasta Lake (ANV) ANV856	261	E2
49530	Minto (ANV) ANV857		E2
51185	Mountain Village (ANV) ANV859	270	E6
52060	Naknek (ANV) ANV860	060	E2
52250	Napaumute (ANV) ANV861	050	E1
52395	Napakiaik (ANV) ANV862	050	E6
52725	Napaskiak (ANV) ANV863	050	E6
52940	Nelson Lagoon (ANV) ANV864		E2
53055	Nenana (ANV) ANV865		E6
53275	Newhalen (ANV) ANV861		E6
53715	New Stuyahok (ANV) ANV869		E6
53830	Newtok (ANV) ANV870	050	E1
53935	Nightmute (ANV) ANV871	050	E6
54155	Nikolai (ANV) ANV872		E6
54260	Nikolski (ANV) ANV873		E2
54480	Ninilchik (ANV) ANV874	122	E2
54700	Noatak (ANV) ANV876	188	E2
55035	Nondalton (ANV) ANV878		E6
55145	Noorvik (ANV) ANV880	188	E6
56240	Northway (ANV) ANV882		E2
56325	Nuiqsut (ANV) ANV883	185	E6
56355	Nulato (ANV) ANV884		E6
56680	Numapitchuk (ANV) (Included In Akolmiut) ANV885	050	E1
57060	Ohogamiut (ANV) ANV886	270	E1

Section VI. Lists of Acceptable Code Values with Associated Descriptions
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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 10			
Indian Reservations and Alaska Remote Villages of Alaska (AK)		County	Class (See Section VI., A.)
57345	Old Harbor (ANV) ANV887	150	E6
58330	Oscarville (ANV) ANV889	050	E2
58555	Ouzinkie (ANV) ANV890	150	E6
58600	Paimiut (ANV) ANV891	270	E1
58990	Pauloff Harbor (ANV) ANV892		E1
59540	Pedro Bay (ANV) ANV893		E2
60200	Perryville (ANV) ANV895		E2
60640	Pilot Point (ANV) ANV897		E2
60755	Pilot Station (ANV) ANV898	270	E6
60860	Pitkas Point (ANV) (P.O. Name Pitkas's Point) ANV899	270	E2
61085	Platinum (ANV) ANV901	050	E6
61635	Point Hope (ANV) ANV903	185	E6
61700	Point Lay (ANV) ANV903	185	E2
62290	Portage Creek (ANV) ANV905		E2
63280	Port Graham (ANV) ANV907	122	E2
63395	Port Heiden (ANV) ANV908		E6
63615	Port Lions (ANV) ANV909	150	E6
64605	Quinhagak (ANV) ANV913	050	E6
64820	Rampart (ANV) ANV914		E2
64930	Red Devil (ANV) ANV916	050	E2
65595	Ruby (ANV) ANV918		E6
65720	Russian Mission-Kuskokwim (ANV) (Chunthbaluk) ANV919	050	E1
65740	Russian Mission-Yukon (ANV) (Russian Mission) ANV920	270	E1
65810	St. George (ANV) (P.Q. Name St. George Island) ANV921		E6
66145	St. Mary's (ANV) ANV922	270	E6
66365	St. Michael (ANV) ANV923	180	E6
66475	St. Paul (ANV) (P.O. Name St. Paul Island) ANV924		E6
66510	Salamatof (ANV) ANV926	122	E2
67025	Sand Point (ANV) ANV927		E6
67465	Savoonga (ANV) ANV929	180	E6
67575	Saxman (ANV) ANV930	130	E6
67685	Scagmon Bay (ANV) ANV931	270	E6

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
Note: This list begins on VI - 10			
Indian Reservations and Alaska Remote Villages of Alaska (AK)		County	Class (See Section VI., A.)
68235	Selawik (ANV) ANV933	188	E6
68345	Seldovia (ANV) ANV934	122	E6
68675	Shageluk (ANV) ANV936		E6
68895	Shaktolik (ANV) ANV937	180	E6
69270	Sheldon's Point (ANV) ANV938	270	E1
69775	Shishmaref (ANV) ANV940	180	E6
70105	Shungnak (ANV) ANV942	188	E6
70930	Slana (ANV) ANV945	261	E2
71090	Sleetmute (ANV) ANV946	050	E2
71750	Solomon (ANV) ANV948	180	E1
72190	South Naknek (ANV) ANV950	060	E2
72965	Stebbins (ANV) ANV952	180	E6
73290	Stevens Village (ANV) ANV953		E2
73400	Stony River (ANV) ANV954	050	E2
74610	Takotna (ANV) ANV956		E2
75050	Tanacross (ANV) ANV957		E2
75165	Tanana (ANV) ANV958		E6
75380	Tatitlek (ANV) ANV960	261	E2
75490	Tazlina (ANV) ANV961	261	E2
75820	Telida (ANV) ANV963		E2
75935	Teller (ANV) ANV964	180	E6
76590	Tetlin (ANV) ANV965		E2
77695	Togiak (ANV) ANV967		E6
78245	Toksook Bay (ANV) ANV969	050	E6
78795	Tuluksak (ANV) ANV971	050	E6
79120	Tuntutuliak (ANV) ANV972	050	E2
79235	Tununak (ANV) ANV973	050	E6
79780	Twin Hills (ANV) ANV975		E2
79890	Tyonek (ANV) ANV976	122	E2
80110	Ugashik (ANV) ANV978		E1
80180	Ukivok (ANV) ANV979	180	E1
80665	Unalakleet (ANV) ANV981	180	E6
80775	Unalaska (ANV) ANV982		E6
80890	Unga (ANV) ANV983		E1
81980	Uyak (ANV) ANV985	150	E1
82420	Venetie (ANV) ANV987		E2

**Section VI. Lists of Acceptable Code Values with Associated Descriptions
C. Detailed Lists of Code Values**

Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 10		
Indian Reservations and Alaska Remote Villages of Alaska (AK)		
	County	Class (See Section VI., A.)
82755	Wainwright (ANV) ANV988	185 E6
82865	Wales (ANV) ANV989	180 E6
84075	White Mountain (ANV) ANV991	180 E6
86270	Woody Island (ANV) ANV993	150 E1
86495	Yakutat (ANV) ANV995	E6

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Arizona (AZ)	County	Class (See Section VI., A.)
09760	Camp Verde Indian Reservation	025	D1 (Federally-administered)
14660	Cocopah Indian Reservation	027	D1 (Federally-administered)
14940	Colorado River Indian Reservation (Also CA)	012	D1 (Federally-administered)
24320	Fort Apache Indian Reservation	001	D1 (Federally-administered)
24880	Fort McDowell Indian Reservation	013	D1 (Federally-administered)
24910	Fort Mojave Indian Reservation (Also CA)	015	D1 (Federally-administered)
25100	Fort Yuma Indian Reservation (Also CA)	027	D1 (Federally-administered)
27120	Gila Bend Indian Reservation	013	D1 (Federally-administered)
27330	Gila River Indian Reservation	013	D1 (Federally-administered)
31740	Havasupai Indian Reservation	005	D1 (Federally-administered)
33560	Hopi Indian Reservation	005	D1 (Federally-administered)
34470	Hualapai Indian Reservation	005	D1 (Federally-administered)
36570	Kaibab Indian Reservation	005	D1 (Federally-administered)
44480	Maricopa Indian Reservation (Ak Chin)	021	D1 (Federally-administered)
48730	Navajo Indian Reservation (Also NM)	001	D1 (Federally-administered)
52650	Papago Indian Reservation	013	D1 (Federally-administered)
53420	Pasqua Yaqui Indian Reservation	019	D1 (Federally-administered)
53720	Payson Community of Yavapai-Apache (Indian Reservation)	007	D1 (Federally-administered)
62770	Salt River Indian Reservation	013	D1 (Federally-administered)
62980	San Carlos Indian Reservation	007	D1 (Federally-administered)
64450	San Xavier Indian Reservation	019	D1 (Federally-administered)
85120	Yavapai Indian Reservation	025	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of California (CA)	County	Class (See Section VI., A.)
00422	Agua Caliente Indian Reservation	065	D1 (Federally-administered)
01448	Alturas Rancheria (Indian Reservation)	049	D1 (Federally-administered)
03214	Augustina Indian Reservation	065	D1 (Federally-administered)
03974	Barona Rancheria (Indian Reservation)	073	D1 (Federally-administered)
05353	Benton Paiute Indian Reservation	051	D1 (Federally-administered)
06074	Berry Creek Indian Reservation	007	D1 (Federally-administered)
06480	Big Bend Rancheria (Indian Reservation)	089	D1 (Federally-administered)
06578	Big Lagoon Rancheria (Indian Reservation)	023	D1 (Federally-administered)
06630	Big Pine Rancheria (Indian Reservation)	027	D1 (Federally-administered)
06840	Bishop Rancheria (Indian Reservation)	027	D1 (Federally-administered)
08244	Bridgeport Colony (Indian Reservation)	051	D1 (Federally-administered)
09367	Cabazon Indian Reservation	065	D1 (Federally-administered)
09424	Cachil Deha Rancheria (Indian Reservation)	011	D1 (Federally-administered)
09528	Cahuilla Indian Reservation	065	D1 (Federally-administered)
10522	Campo Indian Reservation	073	D1 (Federally-administered)
11030	Capitan Grande Indian Reservation	073	D1 (Federally-administered)
12342	Cedarville Rancheria (Indian Reservation)	049	D1 (Federally-administered)
12786	Chemehuevi Indian Reservation	071	D1 (Federally-administered)
14458	Cold Springs Rancheria (Indian Reservation)	019	D1 (Federally-administered)
14876	Colorado River Indian Reservation (Also AZ)	065	D1 (Federally-administered)
16494	Cortina Rancheria (Indian Reservation)	011	D1 (Federally-administered)
16819	Coyote Valley Rancheria (Indian Reservation)	045	D1 (Federally-administered)
17732	Cuyapaipe Indian Reservation	073	D1 (Federally-administered)
19966	Dry Creek Rancheria (Indian Reservation)	097	D1 (Federally-administered)
22738	Enterprise Rancheria (Indian Reservation)	007	D1 (Federally-administered)
25044	Fort Bidwell Indian Reservation	049	D1 (Federally-administered)
25100	Fort Independence Indian Reservation	027	D1 (Federally-administered)
25184	Fort Mojave Indian Reservation (Also NV)	071	D1 (Federally-administered)
25324	Fort Yuma Indian Reservation (Also AZ)	025	D1 (Federally-administered)
31294	Grindstone Creek Rancheria (Indian Reservation)	021	D1 (Federally-administered)

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Table ID01. FIPS PUB 55-2. Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
Note: This list begins on VI - 18			
	Indian Reservations of California (CA)	County	Class (See Section VI., A.)
34554	Hoop Valley (Indian Reservation)	023	D1 (Federally-administered)
34558	Hoop Valley Extension Indian Reservation	015	D1 (Federally-administered)
34659	Hopland Rancheria (Indian Reservation)	045	D1 (Federally-administered)
36316	Inaja-Cosmit Indian Reservation	073	D1 (Federally-administered)
37000	Jackson Rancheria (Indian Reservation)	005	D1 (Federally-administered)
39374	La Jolla Indian Reservation	073	D1 (Federally-administered)
40317	La Posta Indian Reservation	073	D1 (Federally-administered)
40932	Laytonville Rancheria (Indian Reservation)	045	D1 (Federally-administered)
41394	Likely Rancheria (Indian Reservation)	049	D1 (Federally-administered)
42594	Lone Pine Rancheria (Indian Reservation)	027	D1 (Federally-administered)
43130	Lookout Rancheria (Indian Reservation)	049	D1 (Federally-administered)
44070	Los Coyotes Indian Reservation	073	D1 (Federally-administered)
45390	Manchester Rancheria (Indian Reservation)	045	D1 (Federally-administered)
45582	Manzanita Indian Reservation	073	D1 (Federally-administered)
47056	Mesa Grande Indian Reservation	073	D1 (Federally-administered)
47336	Middletown Rancheria (Indian Reservation)	033	D1 (Federally-administered)
49002	Montgomery Creek Rancheria (Indian Reservation)	089	D1 (Federally-administered)
49334	Morongo Indian Reservation	065	D1 (Federally-administered)
55062	Pala Indian Reservation	073	D1 (Federally-administered)
56164	Pauma Indian Reservation	073	D1 (Federally-administered)
56330	Pechanga Indian Reservation	065	D1 (Federally-administered)
59150	Ramona Indian Reservation	065	D1 (Federally-administered)
60347	Resighini Rancheria (Indian Reservation)	015	D1 (Federally-administered)
60823	Rincon Indian Reservation	073	D1 (Federally-administered)
62146	Roaring Creek Rancheria (Indian Reservation)	089	D1 (Federally-administered)
63162	Round Valley Indian Reservation	045	D1 (Federally-administered)
63306	Rumsey Rancheria (Indian Reservation)	113	D1 (Federally-administered)
68188	San Manuel Indian Reservation	071	D1 (Federally-administered)
68312	San Pasqual Indian Reservation	073	D1 (Federally-administered)
70112	Santa Rosa Indian Reservation	065	D1 (Federally-administered)
70122	Santa Rosa Rancheria (Indian Reservation)	031	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 18			
Indian Reservations of California (CA)		County	Class (See Section VI., A.)
70186	Santa Ynez Indian Reservation	083	D1 (Federally-administered)
70210	Santa Ysabel Indian Reservation	073	D1 (Federally-administered)
71306	Sheep Ranch Rancheria (Indian Reservation)	009	D1 (Federally-administered)
71518	Sherwood Valley Rancheria (Indian Reservation)	045	D1 (Federally-administered)
71558	Shingle Springs Rancheria (Indian Reservation)	017	D1 (Federally-administered)
72468	Soboba Indian Reservation	065	D1 (Federally-administered)
74162	Stewart's Point Rancheria (Indian Reservation)	097	D1 (Federally-administered)
75652	Sulphur Bank Rancheria (Indian Reservation)	033	D1 (Federally-administered)
77368	Susenville Indian Reservation	035	D1 (Federally-administered)
77524	Sycuan Indian Reservation	073	D1 (Federally-administered)
80028	Torres-Martinez Indian Reservation	025	D1 (Federally-administered)
80452	Trinidad Rancheria (Indian Reservation)	023	D1 (Federally-administered)
80714	Tule River Indian Reservation	107	D1 (Federally-administered)
80774	Tuolumne Rancheria (Indian Reservation)	109	D1 (Federally-administered)
81002	Twenty-Nine Palms Indian Reservation	071	D1 (Federally-administered)
82655	Viejas Rancheria (Indian Reservation)	073	D1 (Federally-administered)
86276	Woodfords Community (Indian Reservation)	003	D1 (Federally-administered)
86657	XL Ranch Indian Reservation	049	D1 (Federally-administered)

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Table 1001, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Colorado (CO)	County	Class (See Section VI., A.)
72340	Southern Ute Indian Reservation	007	01 (federally-administered)
79930	Ute Mountain Indian Reservation (Also NM)	067	01 (federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Connecticut (CT)	County	Class (See Section VI., A.)
21560	Eastern Pequot Indian Reservation	011	D4 (State-administered)
31700	Golden Hill Indian Reservation	001	D4 (State-administered)
67230	Schaghticoke Indian Reservation	005	D4 (State-administered)
82130	Western Pequot Indian Reservation	011	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Florida (FL)	County	Class (See Section VI., A.)
06400	Big Cypress Indian Reservation	051	D1 (Federally-administered)
08550	Brighton Indian Reservation	043	D1 (Federally-administered)
32125	Hollywood Indian Reservation	011	D1 (Federally-administered)
45310	Miccosukee Indian Reservation	011	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Georgia (GA)	County	Class (See Section VI., A.)
75454	Tama Indian Reservation	131	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Iowa (IA)	County	Class (See Section VI., A.)
59092	Omaha Indian Reservation	133	D1 (Federally-administered)
69600	Sac and Fox Indian Reservation	171	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Idaho (ID)	County	Class (See Section VI., A.)
16840	Coeur d'Alene Indian Reservation	009	D1 (Federally-administered)
23050	Duck Valley Indian Reservation (Also NV)	073	D1 (Federally-administered)
28450	Fort Hall Indian Reservation	005	D1 (Federally-administered)
44220	Kootenai Indian Reservation	021	D1 (Federally-administered)
57340	Nez Perce Indian Reservation	035	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Kansas (KS)	County	Class (See Section VI., A.)
34462	Iowa Indian Reservation (Also NE)	013	D1 (Federally-administered)
36725	Kickapoo Indian Reservation	013	D1 (Federally-administered)
57262	Pottawatomie Indian Reservation	085	D1 (Federally-administered)
62037	Sac and Fox Indian Reservation (Also NE)	013	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Louisiana (LA)	County	Class (See Section VI., A.)
15060	Chitimacha Indian Reservation	101	D1 (Federally-administered)
18065	Coushatta Indian Reservation	003	D1 (Federally-administered)
76660	Tunica-Biloxi Indian Reservation	009	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Massachusetts (MA)	County	Class (See Section VI., A.)
29141	Hassanamisco Indian Reservation	027	D4 (State-administered)
72720	Wampanoag Indian Reservation	005	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
		County	Class (See Section VI., A.)
	Indian Reservations of Maine (ME)		
34750	Indian Township Indian Reservation	029	D5 (State-administered)
57955	Penobscot Indian Island Indian Reservation	019	D5 (State-administered)
59635	Pleasant Point Indian Reservation	029	D5 (State-administered)

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Code Value	Associated Description	Comment(s)	
	Indian Reservations of Michigan (MI)	County	Class (See Section VI., A.)
06080	Bay Mills Indian Reservation	033	D1 (Federally-administered)
36370	Hannahville Community (Indian Reservation)	109	D1 (Federally-administered)
41180	Isabella Indian Reservation	073	D1 (Federally-administered)
45580	L'Anse Indian Reservation	013	D1 (Federally-administered)
60884	Ontonagon Indian Reservation	131	D1 (Federally-administered)
64244	Pine Creek Indian Reservation	025	D4 (State-administered)
71745	Sault Ste. Marie Indian Reservation	033	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Minnesota (MN)	County	Class (See Section VI., A.)
06874	Bois Forte (Nett Lake) Indian Reservation	071	D1 (Federally-administered)
15208	Deer Creek Indian Reservation	061	D1 (Federally-administered)
21590	Fond Du Lac Indian Reservation	017	D1 (Federally-administered)
25082	Grand Portage Indian Reservation	031	D1 (Federally-administered)
36242	Leech Lake Indian Reservation	007	D1 (Federally-administered)
38348	Lower Sioux Community (Indian Reservation)	127	D1 (Federally-administered)
42200	Mille Lacs Indian Reservation	001	D1 (Federally-administered)
43135	Minnesota Chippewa Trust Lands (Indian Reservation)	001	D1 (Federally-administered)
52288	Prairie Island Community (Indian Reservation)	049	D1 (Federally-administered)
53512	Red Lake Indian Reservation	007	D1 (Federally-administered)
58459	Sandy Lake Indian Reservation	001	D1 (Federally-administered)
59356	Shakopee Community (Indian Reservation)	139	D1 (Federally-administered)
66316	Upper Sioux Community (Indian Reservation)	173	D1 (Federally-administered)
66856	Vermillion Lake Indian Reservation	137	D1 (Federally-administered)
70042	White Earth Indian Reservation	005	D1 (Federally-administered)

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Code Value	Associated Description	Comment(s)	
	Indian Reservations of Mississippi (MS)	County	Class (See Section VI., A.)
47980	Mississippi Choctaw Indian Reservation	007	01 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Montana (MT)	County	Class (See Section VI., A.)
06081	Big Horn Other Reservation Land	003	01 (Federally-administered)
07225	Blackfeet Indian Reservation	035	01 (Federally-administered)
18325	Crow Indian Reservation	003	01 (Federally-administered)
26650	Flathead Indian Reservation	029	01 (Federally-administered)
27925	Fort Belknap Indian Reservation	005	01 (Federally-administered)
28525	Fort Peck Indian Reservation	019	01 (Federally-administered)
54550	Northern Cheyenne Indian Reservation	003	01 (Federally-administered)
63925	Rocky Boy's Indian Reservation	015	01 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of North Carolina (NC)	County	Class (See Section VI., A.)
19390	Eastern Cherokee Indian Reservation	039	01 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of North Dakota (ND)	County	Class (See Section VI., A.)
27340	Fort Berthold Indian Reservation	025	D1 (Federally-administered)
27780	Fort Totten Indian Reservation	005	D1 (Federally-administered)
73460	Sisseton Indian Reservation (Also SD)	077	D1 (Federally-administered)
75300	Standing Rock Indian Reservation (Also SD)	085	D1 (Federally-administered)
80020	Turtle Mountain Indian Reservation	079	D1 (Federally-administered)

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Code Value	Associated Description	Comment(s)	
	Indian Reservations of Nebraska (NE)	County	Class (See Section VI., A.)
24160	Iowa Indian Reservation (Also KS)	147	D1 (Federally-administered)
37035	Omaha Indian Reservation	021	D1 (Federally-administered)
42900	Sac and Fox Indian Reservation (Also KS)	147	D1 (Federally-administered)
43545	Santee Indian Reservation	107	D1 (Federally-administered)
53310	Winnebago Indian Reservation	051	D1 (Federally-administered)

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Code Value	Associated Description	Comment(s)	
Indian Reservations of New Mexico (NM)		County	Class (See Section VI., A.)
00660	Acoma Pueblo (Indian Reservation)	006	D1 (Federally-administered)
01815	Alamo Indian Reservation	053	D1 (Federally-administered)
11240	Canoncito Indian Reservation	001	D1 (Federally-administered)
16630	Cochiti Pueblo (Indian Reservation)	043	D1 (Federally-administered)
34690	Isleta Pueblo (Indian Reservation)	001	D1 (Federally-administered)
35180	Jemez Pueblo (Indian Reservation)	043	D1 (Federally-administered)
35390	Jicarilla Apache Indian Reservation	039	D1 (Federally-administered)
37210	Laguna Pueblo (Indian Reservation)	001	D1 (Federally-administered)
47990	Mescalero Apache Indian Reservation	035	D1 (Federally-administered)
51000	Nambe Pueblo (Indian Reservation)	049	D1 (Federally-administered)
51560	Navajo Indian Reservation (Also UT)	031	D1 (Federally-administered)
56880	Picuris Pueblo (Indian Reservation)	055	D1 (Federally-administered)
58700	Pojoaque Pueblo (Indian Reservation)	049	D1 (Federally-administered)
61290	Ramah Community (Indian Reservation)	006	D1 (Federally-administered)
67000	Sandia Pueblo (Indian Reservation)	001	D1 (Federally-administered)
67380	San Felipe Pueblo (Indian Reservation)	043	D1 (Federally-administered)
67470	San Felipe/Santa Ana Joint Area	043	D1 (Federally-administered)
67490	San Felipe/Santo Domingo Joint Area	043	D1 (Federally-administered)
67940	San Ildefonso Pueblo (Indian Reservation)	043	D1 (Federally-administered)
68780	San Juan Pueblo (Indian Reservation)	039	D1 (Federally-administered)
70180	Santa Ana Pueblo (Indian Reservation)	043	D1 (Federally-administered)
70320	Santa Clara Pueblo (Indian Reservation)	039	D1 (Federally-administered)
70740	Santo Domingo Pueblo (Indian Reservation)	043	D1 (Federally-administered)
76340	Taos Pueblo (Indian Reservation)	055	D1 (Federally-administered)
77110	Tesuque Pueblo (Indian Reservation)	049	D1 (Federally-administered)
81380	Ute Mountain Indian Reservation (Also CO)	045	D1 (Federally-administered)
86350	Zia Pueblo (Indian Reservation)	043	D1 (Federally-administered)
86630	Zuni Pueblo (Indian Reservation)	006	D1 (Federally-administered)

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Code Value	Associated Description	Comment(s)	
	Indian Reservations of Nevada (NV)	County	Class (See Section VI., A.)
10000	Carson Colony (Indian Reservation)	510	D1 (Federally-administered)
19550	Dresslerville Colony (Indian Reservation)	005	D1 (Federally-administered)
19900	Duck Valley (Western Shoshone) Indian Reservation (Also ID)	007	D1 (Federally-administered)
20300	Duckwater Indian Reservation	023	D1 (Federally-administered)
23550	Ely Colony (Indian Reservation)	033	D1 (Federally-administered)
24200	Fallon Colony (Indian Reservation)	001	D1 (Federally-administered)
24300	Fallon Indian Reservation	001	D1 (Federally-administered)
25500	Fort McDermitt Indian Reservation (Also OR)	013	D1 (Federally-administered)
25550	Fort Mojave Indian Reservation (Also AZ)	003	D1 (Federally-administered)
29900	Goshute Indian Reservation (Also UT)	033	D1 (Federally-administered)
40300	Las Vegas Colony (Indian Reservation)	003	D1 (Federally-administered)
43050	Lovelock Colony (Indian Reservation)	027	D1 (Federally-administered)
47800	Moapa River Indian Reservation	003	D1 (Federally-administered)
58800	Pyramid Lake Indian Reservation	019	D1 (Federally-administered)
60650	Reno-Sparks Colony (Indian Reservation)	031	D1 (Federally-administered)
71000	Summit Lake Indian Reservation	013	D1 (Federally-administered)
72200	Te-Moak Indian Reservation	007	D1 (Federally-administered)
81200	Walker River Indian Reservation	001	D1 (Federally-administered)
82200	Washoe Indian Reservation	005	D1 (Federally-administered)
84850	Winnemucca Colony (Indian Reservation)	013	D1 (Federally-administered)
85600	Yerington Indian Reservation	019	D1 (Federally-administered)
85800	Yomba Indian Reservation	023	D1 (Federally-administered)

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Code Value	Associated Description	Comment(s)	
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	Indian Reservations of New York (NY)	County	Class (See Section VI., A.)
01308	Allegany Indian Reservation	009	D5 (State-administered)
13035	Cattaraugus Indian Reservation	009	D5 (State-administered)
54523	Oil Springs Indian Reservation	003	D5 (State-administered)
54980	Onondaga Indian Reservation	067	D5 (State-administered)
59106	Poospatuck Indian Reservation	103	D5 (State-administered)
64727	St. Regis Mohawk Indian Reservation	033	D5 (State-administered)
67059	Shinnecock Indian Reservation	103	D5 (State-administered)
75011	Tonawanda Indian Reservation	029	D5 (State-administered)
75748	Tuscarora Indian Reservation	063	D5 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Oklahoma (OK)	County	Class (See Section VI., A.)
55075	Oklahoma Historic Reservation Area	001	D9
56300	Osage Indian Reservation	113	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Oregon (OR)	County	Class (See Section VI., A.)
09825	Burns Indian Reservation	025	D1 (Federally-administered)
26475	Fort McDermitt Indian Reservation (Also NV)	045	D1 (Federally-administered)
75750	Umatilla Indian Reservation	059	D1 (Federally-administered)
78650	Wasa Springs Indian Reservation	005	D1 (Federally-administered)

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Table 1001, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of South Carolina (SC)	County	Class (See Section VI., A.)
12455	Catawba Indian Reservation	091	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
-----	-----	-----	-----
	Indian Reservations of South Dakota (SD)	County	Class (See Section VI., A.)
11860	Cheyenne River Indian Reservation	041	D1 (Federally-administered)
14860	Crow Creek Indian Reservation	017	D1 (Federally-administered)
21620	Flandreau Indian Reservation	101	D1 (Federally-administered)
39220	Lower Brule Indian Reservation	085	D1 (Federally-administered)
49700	Pine Ridge Indian Reservation	007	D1 (Federally-administered)
55980	Rosebud Indian Reservation	053	D1 (Federally-administered)
59340	Sisseton Indian Reservation	029	D1 (Federally-administered)
	(Also ND)		
61260	Standing Rock Indian Reservation	031	D1 (Federally-administered)
	(Also ND)		
73100	Yankton Indian Reservation	023	D1 (Federally-administered)

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Table 1D01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Texas (TX)	County	Class (See Section VI., A.)
01556	Alabama-Coushatta Indian Reservation	373	D4 (State-administered)
72986	Tigua Indian Reservation	141	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Utah (UT)	County	Class (See Section VI., A.)
30350	Goshute Indian Reservation (Also NV)	023	D1 (Federally-administered)
53780	Navajo Indian Reservation (Also AZ)	037	D1 (Federally-administered)
69420	Skull Valley Indian Reservation	045	D1 (Federally-administered)
70795	Southern Paiute Indian Reservation	021	D4 (State-administered)
77920	Uintah And Ouray Indian Reservation	007	D1 (Federally-administered)

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Table 1D01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Virginia (VA)	County	Class (See Section VI., A.)
50160	Mattaponi Indian Reservation	101	D4 (State-administered)
60496	Pamunkey Indian Reservation	101	D4 (State-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
-----		-----	
	Indian Reservations of Washington (WA)	County	Class (See Section VI., A.)
11510	Chehalis Indian Reservation	027	D1 (Federally-administered)
14240	Colville Indian Reservation	019	D1 (Federally-administered)
31565	Hoh Indian Reservation	031	D1 (Federally-administered)
34715	Kalispel Indian Reservation	051	D1 (Federally-administered)
40575	Lower Elwha Indian Reservation	009	D1 (Federally-administered)
40665	Lummi Indian Reservation	073	D1 (Federally-administered)
42205	Makah Indian Reservation	009	D1 (Federally-administered)
47700	Muckleshoot Indian Reservation	033	D1 (Federally-administered)
49205	Nisqually Indian Reservation	053	D1 (Federally-administered)
49285	Nooksack Indian Reservation	073	D1 (Federally-administered)
52470	Ozette Indian Reservation	009	D1 (Federally-administered)
55610	Port Gamble Indian Reservation	035	D1 (Federally-administered)
55715	Port Madison Indian Reservation	035	D1 (Federally-administered)
56720	Puyallup Indian Reservation	053	D1 (Federally-administered)
57010	Quileute Indian Reservation	009	D1 (Federally-administered)
57080	Quinault Indian Reservation	027	D1 (Federally-administered)
61402	Sauk-Suiattle Indian Reservation	061	D1 (Federally-administered)
63910	Shoalwater Indian Reservation	049	D1 (Federally-administered)
64785	Skokomish Indian Reservation	045	D1 (Federally-administered)
67105	Spokane Indian Reservation	043	D1 (Federally-administered)
67350	Squaxin Island Indian Reservation	045	D1 (Federally-administered)
69310	Swinomish Indian Reservation	057	D1 (Federally-administered)
72730	Tulalip Indian Reservation	061	D1 (Federally-administered)
73652	Upper Skagit Indian Reservation	057	D1 (Federally-administered)
80045	Yakima Indian Reservation	039	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Wisconsin (WI)	County	Class (See Section VI., A.)
04225	Bad River Indian Reservation	003	D1 (Federally-administered)
40650	Lac Courte Oreilles Indian Reservation	113	D1 (Federally-administered)
40725	Lac du Flambeau Indian Reservation	051	D1 (Federally-administered)
50985	Menominee Indian Reservation	078	D1 (Federally-administered)
60025	Oneida Indian Reservation	009	D1 (Federally-administered)
64600	Potawatomi Indian Reservation	041	D1 (Federally-administered)
66600	Red Cliff Indian Reservation	007	D1 (Federally-administered)
70600	St. Croix Indian Reservation	005	D1 (Federally-administered)
74540	Sokaogan Chippewa Community (Indian Reservation)	041	D1 (Federally-administered)
77450	Stockbridge Indian Reservation	115	D1 (Federally-administered)
88212	Wisconsin Minnabago Indian Reservation	053	D1 (Federally-administered)

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Table ID01, FIPS PUB 55-2, Indian Reservation and Alaska Remote Village Codes

Code Value	Associated Description	Comment(s)	
	Indian Reservations of Wyoming (WY)	County	Class (See Section VI., A.)
84200	Wind River Indian Reservation	013	01 (Federally-administered)

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Table ID02, USPS Postal State Codes

Code Value	Associated Description	Comment(s)	
		ZIPcode Prefix	Telephone Area Code(s) (As of 11/92)
AK	Alaska	9	907
AL	Alabama	3	205
AR	Arkansas	7	501
AS	American Samoa	9	684
AZ	Arizona	8	602
CA	California	9	209 213 310 408 415 510 619 707 714 805 818 909 916
CO	Colorado	8	303 719
CT	Connecticut	0	203
DC	District of Columbia	2	202
DE	Delaware	1	302
FL	Florida	3	305 407 813 904
FM	Federated States of Micronesia	9	
GA	Georgia	3	404 706 912
GU	Guam	9	671
HI	Hawaii	9	808
IA	Iowa	5	319 515 712
ID	Idaho	8	208
IL	Illinois	6	217 309 312 618 708 815
IN	Indiana	4	219 317 812
KS	Kansas	6	316 913
KY	Kentucky	4	502 606
LA	Louisiana	7	318 504
MA	Massachusetts	8	413 508 617
MD	Maryland	2	301 410
ME	Maine	8	207
MH	Marshall Islands, Republic of the	9	
MI	Michigan	4	313 517 616 906
MN	Minnesota	5	218 507 612
MO	Missouri	6	314 417 816
MP	Northern Mariana Islands	9	234(Susupe) 433(Tinian) 532(Rota) 670(Saipan)
MS	Mississippi	3	601
MT	Montana	5	406
NC	North Carolina	2	704 919
ND	North Dakota	5	701
NE	Nebraska	6	308 402
NH	New Hampshire	0	603

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Table ID02, USPS Postal State Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 51			
		ZIPcode	Telephone
		Prefix	Area Code(s) (As of 11/92)
NJ	New Jersey	0	201 609 908
NM	New Mexico	8	505
NV	Nevada	8	702
NY	New York	1	212 315 516 518 607 716 718 914 917
OH	Ohio	4	216 419 513 614
OK	Oklahoma	7	405 918
OR	Oregon	9	503
PA	Pennsylvania	1	215 412 717 814
PR	Puerto Rico	0	809
PW	Palau, Republic of	9	
RI	Rhode Island	0	401
SC	South Carolina	2	803
SD	South Dakota	5	605
TN	Tennessee	3	615 901
TX	Texas	7	210 214 409 512 713 806 817 915
UT	Utah	8	801
VA	Virginia	2	703 804
VI	Virgin Islands of the U.S.	0	809
VT	Vermont	0	802
WA	Washington	9	206 509
WI	Wisconsin	5	414 608 715
WV	West Virginia	2	304
WY	Wyoming	8	307

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Table ID03. Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Additional Treatment Elsewhere Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
A996	Treatment Applied by Seller	In addition to other treatment(s)
A997	Treatment Applied at Plant	In addition to other treatment(s)
A998	Treatment Applied at Entry Point	In addition to other treatment(s)

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Disinfection By-products Control Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
B121	Activated Carbon, Granular	
B125	Activated Carbon, Powdered	
B141	Aeration, Cascade	
B143	Aeration, Diffused	
B145	Aeration, Packed Tower	
B147	Aeration, Slat Tray	
B149	Aeration, Spray	
B160	Algae Control	
B200	Chloramines	
B220	Chlorine Dioxide	
B240	Coagulation	
B344	Filtration, Pressure Sand	
B345	Filtration, Rapid Sand	
B360	Flocculation	
B500	Lime - Soda Ash Addition	
B541	Ozonation, Post	
B543	Ozonation, Pre	
B600	Rapid Mix	
B640	Reverse Osmosis	
B660	Sedimentation	
B720	Ultraviolet Radiation	
B741	pH Adjustment, Post	
B742	pH Adjustment, Pre	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Corrosion Control Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
C441	Inhibitor, Bimetallic Phosphate	
C443	Inhibitor, Hexametaphosphate	
C445	Inhibitor, Orthophosphate	
C447	Inhibitor, Polyphosphate	
C449	Inhibitor, Silicate	
C680	Sequestration	
C740	pH Adjustment	
C741	pH Adjustment, Post	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Disinfection Treatment Processes	This table contains valid combinations of values for data elements C483 & C485
		Pos. 1 = C483 Pos. 2 - 4 = C485
D190	Brominization (Special Use)	
D200	Chloramines	
D220	Chlorine Dioxide	
D346	Filtration, Slow Sand	
D401	Gaseous Chlorination, Post	
D403	Gaseous Chlorination, Pre	
D421	Hypochlorination, Post	
D423	Hypochlorination, Pre	
D455	Iodine	
D541	Ozonation, Post	
D543	Ozonation, Pre	
D720	Ultraviolet Radiation	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Dechlorination Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
E121	Activated Carbon, Granular	
E141	Aeration, Cascade	
E143	Aeration, Diffused	
E145	Aeration, Packed Tower	
E147	Aeration, Slat Tray	
E149	Aeration, Spray	
E620	Reducing Agents	
E623	Reducing Agent, Sodium Bisulfate	
E625	Reducing Agent, Sodium Sulfite	
E627	Reducing Agent, Sulfur Dioxide	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Iron Removal Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
F141	Aeration, Cascade	
F143	Aeration, Diffused	
F145	Aeration, Packed Tower	
F147	Aeration, Slat Tray	
F149	Aeration, Spray	
F300	Distillation	
F343	Filtration, Greensand	
F344	Filtration, Pressure Sand	
F345	Filtration, Rapid Sand	
F403	Gaseous Chlorination, Pre	
F423	Hypochlorination, Pre	
F543	Ozonation, Pre	
F560	Permanganate	
F580	Peroxide	
F640	Reverse Osmosis	
F660	Sedimentation	
F680	Sequestration	
F700	Sludge Treatment	
F740	pH Adjustment	
F742	pH Adjustment, Pre	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Inorganics Removal Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
I100	Activated Alumina	
I121	Activated Carbon, Granular	
I180	Bone Char	
I240	Coagulation	
I300	Distillation	
I320	Electrodialysis	
I344	Filtration, Pressure Sand	
I345	Filtration, Rapid Sand	
I360	Flocculation	
I460	Ion Exchange	
I500	Lime - Soda Ash Addition	
I600	Rapid Mix	
I640	Reverse Osmosis	
I660	Sedimentation	
I680	Sequestration	
I700	Sludge Treatment	
I742	pH Adjustment, Pre	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Manganese Removal Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
M300	Distillation	
M343	Filtration, Greensand	
M403	Gaseous Chlorination, Pre	
M423	Hypochlorination, Pre	
M543	Ozonation, Pre	
M640	Reverse Osmosis	
M680	Sequestration	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	No Treatment at Source Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
N000	No Treatment / Not Applicable	
N349	Unfiltered, Avoiding Filtration	
N350	Unfiltered, Must Install Filtration	
N351	Not Subject to SHTR	
N996	Treatment Applied by Seller	
N997	Treatment Applied at Plant	
N998	Treatment Applied at Entry Point	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Organics Removal Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
0121	Activated Carbon, Granular	
0125	Activated Carbon, Powdered	
0141	Aeration, Cascade	
0143	Aeration, Diffused	
0145	Aeration, Packed Tower	
0147	Aeration, Slat Tray	
0149	Aeration, Spray	
0160	Algae Control	
0240	Coagulation	
0300	Distillation	
0345	Filtration, Rapid Sand	
0360	Flocculation	
0403	Gaseous Chlorination, Pre	
0423	Hypochlorination, Pre	
0543	Ozonation, Pre	
0560	Permanganate	
0580	Peroxide	
0620	Reducing Agents	
0640	Reverse Osmosis	
0660	Sedimentation	
0742	pH Adjustment, Pre	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Particulate Removal Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
P240	Coagulation	
P300	Distillation	
P341	Filtration, Cartridge	
P342	Filtration, Diatomaceous Earth	
P344	Filtration, Pressure Sand	
P345	Filtration, Rapid Sand	
P346	Filtration, Slow Sand	
P347	Filtration, Ultrafiltration	
P348	Filtered	
P360	Flocculation	
P520	Microscreening	
P600	Rapid Mix	
P660	Sedimentation	
P700	Sludge Treatment	
P742	pH Adjustment, Pre	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Radionuclides Removal Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
R100	Activated Alumina	
R121	Activated Carbon, Granular	
R141	Aeration, Cascade	
R143	Aeration, Diffused	
R145	Aeration, Packed Tower	
R147	Aeration, Slat Tray	
R149	Aeration, Spray	
R180	Bone Char	
R240	Coagulation	
R300	Distillation	
R320	Electrodialysis	
R344	Filtration, Pressure Sand	
R345	Filtration, Rapid Sand	
R360	Flocculation	
R460	Ion Exchange	
R500	Lime - Soda Ash Addition	
R600	Rapid Mix	
R640	Reverse Osmosis	
R660	Sedimentation	
R680	Sequestration	
R700	Sludge Treatment	
R742	pH Adjustment, Pre	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Softening (Hardness Removal) Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
S240	Coagulation	
S300	Distillation	
S344	Filtration, Pressure Sand	
S345	Filtration, Rapid Sand	
S360	Flocculation	
S460	Ion Exchange	
S500	Lime - Soda Ash Addition	
S600	Rapid Mix	
S640	Reverse Osmosis	
S660	Sedimentation	
S680	Sequestration	
S700	Sludge Treatment	
S742	pH Adjustment, Pre	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Taste / Odor Control Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
T121	Activated Carbon, Granular	
T125	Activated Carbon, Powdered	
T141	Aeration, Cascade	
T143	Aeration, Diffused	
T145	Aeration, Packed Tower	
T147	Aeration, Slat Tray	
T149	Aeration, Spray	
T160	Algae Control	
T403	Gaseous Chlorination, Pre	
T423	Hypochlorination, Pre	
T543	Ozonation, Pre	
T560	Pernanganate	
T580	Peroxide	

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Treatment Unknown Treatment Processes (Converted FRDS 1.5)	This table contains valid combinations of values for data elements C403 & C405 Pos. 1 = C403 Pos. 2 - 4 = C405
X001	Treatment Not Reported	'X001' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Treated Treatment Processes (Converted FRDS 1.5)	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
Y081	Aeration (Converted FRDS 1.5)	'Y081' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y082	Prechlorination (Converted FRDS 1.5)	'Y082' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y083	Coagulation (Converted FRDS 1.5)	'Y083' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y084	Sedimentation (Converted FRDS 1.5)	'Y084' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y085	Filtration (Converted FRDS 1.5)	'Y085' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y086	Corrosion Control (Converted FRDS 1.5)	'Y086' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y087	Softening (Converted FRDS 1.5)	'Y087' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y088	Taste / Odor Control (Converted FRDS 1.5)	'Y088' may not be used on any FRDS-II input transaction. It was assigned by

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 68		
Treated Treatment Processes (Converted FRDS 1.5)		This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
Previous page is continued on next line		
Y088		the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y089	Iron Removal (Converted FRDS 1.5)	'Y089' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y090	Ammoniation (Converted FRDS 1.5)	'Y090' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y091	Fluoride Adjustment (Converted FRDS 1.5)	'Y091' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y092	Disinfection (Converted FRDS 1.5)	'Y092' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y093	Other Treatment (Converted FRDS 1.5)	'Y093' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.

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Table ID03, Combined Treatment Objective and Treatment Process Codes

Code Value	Associated Description	Comment(s)
	Other Treatment Processes	This table contains valid combinations of values for data elements C483 & C485 Pos. 1 = C483 Pos. 2 - 4 = C485
Z380	Fluoridation	

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Table ID04, Treatment Process Codes

Code Value	Associated Description	Comment(s)
		See Table ID03 for valid combinations of these codes in conjunction with Treatment Objective (C483) codes
000	No Treatment / Not Applicable	
001	Treatment Not Reported (Converted 1.5)	'001' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
081	Aeration (Converted FRDS 1.5)	'081' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
082	Prechlorination (Converted FRDS 1.5)	'082' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
083	Coagulation (Converted FRDS 1.5)	'083' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
084	Sedimentation (Converted FRDS 1.5)	'084' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
085	Filtration (Converted FRDS 1.5)	'085' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
086	Corrosion Control (Converted FRDS 1.5)	'086' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.

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Table ID04, Treatment Process Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 71		
		See Table ID03 for valid combinations of these codes in conjunction with Treatment Objective (C483) codes
087	Softening (Converted FRDS 1.5)	'087' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
088	Taste / Odor Control (Converted FRDS 1.5)	'088' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
089	Iron Removal (Converted FRDS 1.5)	'089' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
090	Ammoniation (Converted FRDS 1.5)	'090' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
091	Fluoride Adjustment (Converted FRDS 1.5)	'091' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
092	Disinfection (Converted FRDS 1.5)	'092' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
093	Other Treatment (Converted FRDS 1.5)	'093' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
100	Activated Alumina	

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Table ID04, Treatment Process Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 71		
See Table ID03 for valid combinations of these codes in conjunction with Treatment Objective (C483) codes		
121	Activated Carbon, Granular	
125	Activated Carbon, Powdered	
141	Aeration, Cascade	
143	Aeration, Diffused	
145	Aeration, Packed Tower	
147	Aeration, Slat Tray	
149	Aeration, Spray	
160	Algae Control	
180	Bone Char	
190	Brominization (Special Use)	
200	Chloramines	
220	Chlorine Dioxide	
240	Coagulation	
300	Distillation	
320	Electrodialysis	
341	Filtration, Cartridge	
342	Filtration, Diatomaceous Earth	
343	Filtration, Greensand	
344	Filtration, Pressure Sand	
345	Filtration, Rapid Sand	
346	Filtration, Slow Sand	
347	Filtration, Ultrafiltration	
348	Filtered	
349	Unfiltered, Avoiding Filtration	
350	Unfiltered, Must Install Filtration	
351	Not Subject to SWTR	
360	Flocculation	
380	Fluoridation	
401	Gaseous Chlorination, Post	
403	Gaseous Chlorination, Pre	
421	Hypochlorination, Post	
423	Hypochlorination, Pre	
441	Inhibitor, Bimetallic Phosphate	
443	Inhibitor, Hexametaphosphate	
445	Inhibitor, Orthophosphate	

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Table ID04, Treatment Process Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 71		
		See Table ID03 for valid combinations of these codes in conjunction with Treatment Objective (C483) codes
447	Inhibitor, Polyphosphate	
449	Inhibitor, Silicate	
455	Iodine	
460	Ion Exchange	
500	Lime - Soda Ash Addition	
520	Microscreening	
541	Ozonation, Post	
543	Ozonation, Pre	
560	Permanganate	
580	Peroxide	
600	Rapid Mix	
620	Reducing Agents	
623	Reducing Agent, Sodium Bisulfate	
625	Reducing Agent, Sodium Sulfite	
627	Reducing Agent, Sulfur Dioxide	
640	Reverse Osmosis	
660	Sedimentation	
680	Sequestration	
700	Sludge Treatment	
720	Ultraviolet Radiation	
740	pH Adjustment	
741	pH Adjustment, Post	
742	pH Adjustment, Pre	
996	Treatment Applied by Seller	
997	Treatment Applied at Plant	
998	Treatment Applied at Entry Point	

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Table ID05, Treatment Objective Codes

Code Value	Associated Description	Comment(s)
		See Table ID03 for valid combinations of these codes in conjunction with Treatment Process (C485) codes
A	Additional Treatment Elsewhere	
B	Disinfection By-products Control	
C	Corrosion Control	
D	Disinfection	
E	Dechlorination	
F	Iron Removal	
I	Inorganics Removal	
M	Manganese Removal	
N	No Treatment at Source	
O	Organics Removal	
P	Particulate Removal	
R	Radionuclides Removal	
S	Softening (Hardness Removal)	
T	Taste / Odor Control	
X	Treatment Unknown (Converted FRDS 1.5)	'X' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Y	Treated (Converted FRDS 1.5)	'Y' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
Z	Other	

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)
	Non-compliance Profile Related	
GRND	All Contaminants	GRND is used in FRDS-II NCP records to identify a summary containing all violation and enforcement counts for all contaminants and periods of time for each PWS having a violation or enforcement.
	Also, see 1---, 2---, & 4--- (listed subsequently) for other NCP related codes	

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	
-----	-----	-----	-----
Physical Contaminants		Regulated	Monitoring Only
		-R-	-M-
0100	Turbidity	R	

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)
	Inorganic Contaminants	Regulated Monitoring Only -R- -M-
1***	All NIPDWR Inorganic Contaminants	1*** may be used for M&R violations which occurred before 1/1/93 ONLY Group Contaminant Codes may not be used after 12/31/92 1*** includes Arsenic, Barium, Cadmium, Chromium, Fluoride, Lead, Mercury, Nitrate, Selenium, and Silver
1---	All Inorganic Contaminants	1--- is used in FRDS-II NCP records to identify a summary containing all Inorganic violation and enforcement counts for a given window of time in which a PWS had a violation or enforcement.
1002	Aluminum	
1003	Nitrogen-Ammonia as (N)	
1005	Arsenic	R
1006	Chloramine	
1007	Chlorate	
1008	Chlorine Dioxide	
1009	Chlorite	
1010	Barium	R
1012	Residual Chlorine	
1015	Cadmium	R
1016	Calcium	
1017	Chloride	
1018	Carbon, Total	
1020	Chromium	R
1021	Hydroxide as Calcium Carbonate	
1022	Copper	R
1024	Cyanide	R
1025	Fluoride	R
1026	Bicarbonate as HCO3	
1027	Hydrogen Sulfide	
1028	Iron	
1029	Iron, Suspended	

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 76			
	Inorganic Contaminants	Regulated -R-	Monitoring Only -M-
1030	Lead	R	
1031	Magnesium		
1032	Manganese		
1033	Manganese, Suspended		
1035	Mercury	R	
1036	Nickel	R	
1037	Total Kjeldahl Nitrogen (in Water mg/l)		
1038	Nitrate-Nitrite		
1040	Nitrate	R	
1041	Nitrite	R	
1042	Potassium		
1043	Phosphate, Total		
1044	Orthophosphate		
1045	Selenium	R	
1049	Silica		
1050	Silver		
1051	Strontium		
1052	Sodium		M
1055	Sulfate		M
1057	Residue, Total, Filterable		
1058	Residue, Filterable-Volatile		
1059	Residue, Filterable-Fixed		
1060	Residue, Total-Volatile		
1061	Residue, Total-Fixed		
1063	Residue, Nonfilterable-Fixed		
1064	Conductivity @ 25 C U-MHO		
1066	pH, CaCO3 Stability S.U.		
1067	Alkalinity CaCO3, Stabl		
1068	Acidity Total, CaCO3		
1069	Acidity M.O., CaCO3		
1070	Residue, Total		
1071	Residue, Settleable (by Weight)		
1072	Phosphorus Sol		
1073	Phosphate, Reactive		
1074	Antimony, Total	R	
1075	Beryllium, Total	R	

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 76			
	Inorganic Contaminants	Regulated -R-	Monitoring Only -M-
1076	COD mg/l		
1077	Residue, Nonfilterable, Volatile		
1078	Bismuth, Total		
1079	Boron, Total		
1080	Chromium, Hex		
1081	Cobalt, Total		
1082	Iron, Dissolved		
1083	Lithium, Total		
1084	Molybdenum, Total		
1085	Thallium, Total	R	
1086	Tin, Total		
1087	Titanium, Total		
1088	Vanadium, Total		
1089	MBAS		
1090	Oil-Grease, Total		
1091	BOD, 5-Day mg/l		
1092	TOD mg/l		
1093	Phosphorus, Total		
1094	Asbestos	R	
1095	Zinc		
1901	Carbon Dioxide		
1905	Color		
1910	Corrosivity		
1915	Hardness, Total (as CaCO3)		M
1916	Hardness, Carbonate		
1917	Hardness, Noncarbonate		
1918	Hardness, Calcium Magnesium		
1919	Calcium		
1920	Odor		
1925	pH		M
1927	Alkalinity, Total		M
1928	Alkalinity,-Bicarbonate		
1929	Alkalinity, Carbonate		
1930	Total Dissolved Solids (TDS)		M
1931	Alkalinity, Phenolphthalein		
1993	Stability Index		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 76			
Inorganic Contaminants		Regulated	Monitoring Only
		-R-	-M-
1994	Aggressive Index		M
1995	Scale Forming		
1996	Temperature (Centigrade)		M
1997	Langelier Index (PHS)		M
1998	Saturation Index		
1999	Note: (Reserved by MSIS)		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)
	Organic Contaminants	Regulated Monitoring Only -R- -M-
2***	All NIPDWR Organic Contaminants	2*** may be used for M&R violations which occurred before 1/1/93 ONLY Group Contaminant Codes may not be used after 12/31/92 2*** includes Endrin, Lindane, Methoxychlor, Toxaphene, 2,4-D, and 2,4-TP (Silvex)
2---	All Organic Contaminants	2--- is used in FRDS-II NCP records to identify a summary containing all Organic violation and enforcement counts for a given window of time in which a PWS had a violation or enforcement.
2A01	Gasoline	
2A02	#2 Fuel Oil	
2A03	Jet Fuel	
2A04	#4 Fuel Oil	
2A05	#5 Fuel Oil	
2A06	Motor Oil	
2A07	Submersible Pump Oil	
2A08	Varsol	
2A09	Propane	
2U15	15 Unregulated Phase I VOCs	2U15 may be used for M&R violations which occurred before 1/1/93 ONLY Group Contaminant Codes may not be used after 12/31/92 During early 1994, each occurrence of 2U15 in the data base will be replaced with 15 individual M&R violations M&R violations
2U34	34 Unregulated Phase I VOCs	2U34 may be used for M&R violations

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 78		
Organic Contaminants		
Regulated Monitoring Only		
-R- -M-		
Previous page is continued on next line		
2U34		<p>which occurred before 1/1/93 ONLY</p> <p>Group Contaminant Codes may not be used after 12/31/92</p> <p>During early 1994, each occurrence of 2U34 in the data base will be replaced with 34 individual M&R violations</p> <p>M&R violations</p>
2U36	36 Unregulated Phase I VOCs	<p>2U36 may be used for M&R violations which occurred before 1/1/93 ONLY</p> <p>Group Contaminant Codes may not be used after 12/31/92</p> <p>During early 1994, each occurrence of 2U36 in the data base will be replaced with 36 individual M&R violations</p> <p>M&R violations</p>
2V07	7 Regulated Phase I VOCs	<p>2V07 may be used for M&R violations which occurred before 1/1/93 ONLY</p> <p>Group Contaminant Codes may not be used after 12/31/92</p> <p>During early 1994, each occurrence of 2V07 in the data base will be replaced with 7 individual M&R violations</p> <p>violations</p>
2V08	8 Regulated Phase I VOCs	<p>2V08 may be used for M&R violations which occurred before 1/1/93 ONLY</p> <p>Group Contaminant Codes may not be used after 12/31/92</p> <p>During early 1994, each occurrence of</p>

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 78			
Organic Contaminants		Regulated -R-	Monitoring Only -M-
Previous page is continued on next line			
2V08		2V08 in the data base will be replaced with 8 individual M&R violations violations	
2005	Endrin	R	
2010	BHC-gamma (Lindane)	R	
2015	Methoxychlor	R	
2020	Toxaphene	R	
2021	Carbaryl		M
2022	Methomyl		M
2030	P-Isopropyltoluene (P-Cymene)		M
2031	Dalapon	R	
2032	Diquat	R	
2033	Endothall	R	
2034	Glyphosate	R	
2035	Di (2-Ethylhexyl) Adipate	R	
2036	Oxamyl (Vydate)	R	
2037	Simazine	R	
2038	PAH's		
2039	Di (2-Ethylhexyl) Phthalate	R	
2040	Picloram	R	
2041	Dinoseb	R	
2042	Hexachlorocyclopentadiene	R	
2043	Aldicarb Sulfoxide		M
2044	Aldicarb Sulfone		M
2045	Metolachlor		M
2046	Carbofuran	R	
2047	Aldicarb		M
2048	Hypochlorite Ion		
2049	1,4-Dioxane		
2050	Atrazine	R	
2051	Alachlor (Easso)	R	
2052	EPTC (Eptam)		
2053	Butylate (Sutan)		
2054	Cyanazine (Bladex)		
2055	Trifluralin		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 78			
Organic Contaminants		Regulated	Monitoring Only
		-R-	-M-
2056	Diazinon (Spectracide)		
2057	Lorsban (Chlorpyrifos)		
2058	Malathion		
2059	Azinphos-Methyl (Guthion)		
2060	Isofenphos (Oflanol)		
2061	Trithion		
2062	Ethion		
2063	2,3,7,8-TCDD (Dioxin)	R	
2064	Parathion (Ethyl)		
2065	Heptachlor	R	
2066	3-Hydroxycarbofuran		M
2067	Heptachlor Epoxide	R	
2068	Endosulfan I		
2069	para-para DDE		
2070	Dieldrin		M
2071	para-para DDD		
2072	Endosulfan II		
2073	Phosdrin		
2074	Endosulfan Sulfate		
2075	para-para DDT		
2076	Butachlor (Machete)		M
2077	Propachlor (Ramrod)		M
2078	Cryptosporidium		
2079	Dibromoacetanitrile		
2080	Cyanogen Chloride		
2081	Amyl Acetate		
2082	Butane		
2083	Butyl Acetate		
2084	n-Butyl Alcohol		
2085	sec-Butyl Alcohol		
2086	1-Chlorobutane		
2087	1-Chlorohexane		
2088	Ethyl Acetate		
2089	Ethyl Alcohol		
2090	Ethyl Ether		
2091	Iso-Octane		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 78			
	Organic Contaminants	Regulated -R-	Monitoring Only -M-
2092	Isobutyl Acetate		
2093	Isobutyl Alcohol		
2094	Isopropyl Acetate		
2095	Isopropyl Alcohol		
2105	2,4-D	R	
2110	2,4,5-TP (Silvex)	R	
2111	2,4,5-T		
2200	2-Nitroaniline		
2201	3-Nitroaniline		
2202	Dibenzofuran		
2203	4-Nitroaniline		
2204	Azobenzene		
2210	Methylchloride (Chloroemethane)		M
2212	Dichlorodifluoromethane		M
2214	Bromomethane		M
2216	Chloroethane		M
2218	Trichlorofluoromethane (Fluorotrichloromethane)		M
2219	Trichloroacetonitrile		
2222	bis (2-Chloroethyl) Ether		
2223	Di-N-Octylphthalate		
2224	trans-1,3-Dichloropropene		
2225	Hexachloroethane		
2226	trans-1,2-Dichloropropene		
2227	2-Methyl-4,6-Dinitrophenol		
2228	cis-1,3-Dichloropropene		
2229	n-Nitrosodiphenylamine		
2230	Aniline		
2231	Benzyl Alcohol		
2232	1,2-Dibromoethylene		
2233	2-Methylphenol		
2234	2-Chloroethylvinyl Ether		
2235	4-Methylphenol		
2236	Diiodomethane		
2237	Benzoic Acid		
2238	Acrolein		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 78			
	Organic Contaminants	Regulated -R-	Monitoring Only -M-
2239	4-Chloroaniline		
2240	Acrylonitrile		
2241	2-Methyl Naphthalene		
2242	2,4,5-Trichlorophenol		
2243	Acetone		
2244	bis (2-Chloroisopropyl) Ether		
2245	Isopropyl Ether		
2246	Hexachlorobutadiene		M
2247	Methyl Ethyl Ketone		
2248	Naphthalene		M
2249	Methyl Isobutyl Ketone		
2250	bis (2-Chloroethoxy) Methane		
2251	Methyl-Tert-Butyl-Ether		
2254	Nitrobenzene		
2257	Epichlorohydrin	Has Treatment Technique Requirement	
2258	2-Chloronaphthalene		
2260	Acenaphthylene		
2261	Acenaphthene		
2262	Isophorone		
2263	Tetrahydrofuran		
2264	Fluorene		
2265	Acrylamide	Has Treatment Technique Requirement	
2266	2,6-Dinitrotoluene		
2268	1,2-Diphenylhydrazine		
2270	2,4-Dinitrotoluene		
2274	Hexachlorobenzene (HCB)		
2276	4-Bromophenyl Phenyl Ether		
2278	Phenanthrene		
2280	Anthracene		
2282	Dimethylphthalate		
2284	Diethylphthalate		
2286	Fluoranthene		
2288	Pyrene		
2290	Di-N-Butylphthalate		
2292	Benzidine		
2294	Butyl Benzylphthalate		

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Table 1006, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 78			
	Organic Contaminants	Regulated -R-	Monitoring Only -M-
2295	Methyl Methacrylate		
2296	Chrysene		
2298	bis (2-Ethylhexyl) Phthalate		
2300	Benzo (A) Anthracene		
2302	Benzo (B) Fluoranthene		
2304	Benzo (K) Fluoranthene		
2306	Benzo (A) Pyrene	R	
2308	Ideno (1,2,3-Cd) Pyrene		
2310	Dibenzo (A,H) Anthracene		
2312	Benzo (G,H,I) Perylene		
2314	n-Nitrosodimethylamine		
2316	n-Nitrosodi-N-Propylamine		
2318	4-Chloro-Phenyl-Phenyl Ether		
2320	3,3-Dichlorobenzidine		
2324	bis (Chloromethyl) Ether		
2325	Pentane		
2326	Pentachlorophenol	R	
2327	Pentachloroethane		
2328	2,4-Dinitrophenol		
2330	p-Chloro-M-Cresol		
2332	2,4,6-Trichlorophenol		
2334	2,4-Dichlorophenol		
2336	2,4-Dimethylphenol		
2340	2-Nitrophenol		
2342	4-Nitrophenol		
2344	2-Chlorophenol		
2346	4,6-Dinitro-O-Cresol		
2348	alpha-BHC		
2350	beta-BHC		
2354	delta-BHC		
2356	Aldrin		M
2365	ortho-para DDE		
2367	ortho-para DDD		
2369	ortho-para DDT		
2370	Kelthane (Dicofal)		
2371	Tedion		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 78			
	Organic Contaminants	Regulated -R-	Monitoring Only -M-
2372	Endrin Aldehyde		
2374	Kerosene		
2376	n-Hexene		
2378	1,2,4-Trichlorobenzene	R	
2380	cis-1,2-Dichloroethylene	R	
2383	Total Polychlorinated Biphenyls (PCB)	R	
2384	Dechlorobiphenyl		
2388	Aroclor 1016		
2390	Aroclor 1221		
2392	Aroclor 1232		
2394	Aroclor 1242		
2396	Aroclor 1248		
2398	Aroclor 1254		
2399	PCB 1262		
2400	Aroclor 1260		
2401	Total Dichlorobenzenes		
2408	Dibromomethane		M
2410	1,1-Dichloropropene		M
2412	1,3-Dichloropropene		M
2413	1,3-Dichloropropene		M
2414	1,2,3-Trichloropropene		M
2416	2,2-Dichloropropene		M
2418	1,2,4-Trimethylbenzene		M
2420	1,2,3-Trichlorobenzene		M
2422	n-Butylbenzene		M
2424	1,3,5-Trimethylbenzene		M
2426	tert-Butylbenzene		M
2428	sec-Butylbenzene		M
2430	Bromochloromethane		M
2440	Dicamba		M
2441	Methane		
2442	Methyl Acetate		
2443	Methyl Alcohol		
2444	Methyl Cellosolve		
2445	Propyl Acetate		
2446	n-Propyl Alcohol		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 78			
	Organic Contaminants	Regulated -R-	Monitoring Only -M-
2447	Vinyl Acetate		
2520	Vinyl 2 Chloroethyl Ether		
2545	Counter (Terbufos)		
2570	Dyfonate		
2590	Mocap		
2595	Metribuzin (Sencor)		M
2605	Phorate (Thimet)		
2615	Prowl		
2620	Amiben		
2635	Jolstar		
2650	Dichloroethylene, Total		
2655	1,3-Dichloropropylene, Total		
2904	Trichlorotrifluoroethane (Freon 113)		
2905	Foaming Agents (Surfactants)		
2910	Phenols		
2920	Carbon, Total-Organic		
2930	Kepone		
2931	1,2 Dibromo-3-Chloropropane (DBCP)	R	
2932	Mirex		
2940	HMPA		
2941	Chloroform		M
2942	Bromoform		M
2943	Bromodichloromethane		M
2944	Dibromochloromethane (Chlorodibromomethane)		M
2946	Ethylene Dibromide (EDB)	R	
2949	Maximum Total Trihalomethane Potential		
2950	TTHM	R	
2955	Xylenes, Total	R	
2959	Chlordane	R	
2960	Ethylene Glycol		
2961	Formaldehyde		
2962	p-Xylene		
2964	Methylene Chloride (Dichloromethane)	R	
2965	o-Chlorotoluene		M
2966	p-Chlorotoluene		M

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	
Note: This list begins on VI - 78			
	Organic Contaminants	Regulated -R-	Monitoring Only -M-
2967	m-Dichlorobenzene		M
2968	o-Dichlorobenzene	R	
2969	p-Dichlorobenzene	R	
2975	Dichloroiodomethane		
2976	Vinyl Chloride	R	
2977	1,1-Dichloroethylene	R	
2978	1,1-Dichloroethane		M
2979	trans-1,2-Dichloroethylene	R	
2980	1,2-Dichloroethane	R	
2981	1,1,1-Trichloroethane	R	
2982	Carbon Tetrachloride	R	
2983	1,2-Dichloropropane	R	
2984	Trichloroethylene	R	
2985	1,1,2-Trichloroethane	R	
2986	1,1,1,2-Tetrachloroethane		M
2987	Tetrachloroethylene	R	
2988	1,1,2,2-Tetrachloroethane		M
2989	Monochlorobenzene (Chlorobenzene)	R	
2990	Benzene	R	
2991	Toluene	R	
2992	Ethylbenzene	R	
2993	Bromobenzene		M
2994	Isopropylbenzene		M
2995	m-Xylene		
2996	Styrene	R	
2997	o-Xylene		
2998	n-Propylbenzene		M
2999	Note: (Reserved by MSIS)		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	
		Regulated -R-	Monitoring Only -M-
	Bacteriological Contaminants		
3000	Coliform (Pre-TCR)		
3001	Heterotrophic Bacteria (HPC or SPC)		
3002	Enterococci /100 ml		
3003	Fecal Streptococcus		
3004	Staphylococcus		
3005	Non-coliform Growth Identification		
3006	Iron Bacteria Id		
3007	Salmonella-Shigella		
3008	Giardia Lamblia		
3009	Fungus /ml		
3010	Virus PFU/gal		
3011	Actinomycetes /ml		
3012	Legionella		
3013	Fecal Coliform		
3100	Coliform (TCR)		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	
		Regulated -R-	Monitoring Only -M-
4---	All Radiological Contaminants	4--- is used in FRDS-II NCP records to identify a summary containing all Radiological violation and enforcement counts for a given window of time in which a PWS had a violation or enforcement.	
4000	Gross Alpha, Excl. Radon & U	R	
4002	Gross Alpha, Incl. Radon & U		
4004	Radon		
4006	Combined Uranium		
4007	Uranium-234		
4008	Uranium-235		
4009	Uranium-238		
4010	Combined Radium (-226 & -228)	R	
4012	Photon Emitters		
4020	Radium-226		
4030	Radium-228		
4040	Alpha, Dissolved		
4041	Alpha, Suspended		
4042	Beta, Dissolved		
4043	Beta, Suspended		
4044	Potassium-40, Total		
4100	Gross Beta Particle Activity	R	
4101	Man-Made Beta Particle & Photon Emitters		
4102	Tritium		M
4104	4-Beryllium-7		
4106	4-Beryllium-10		
4108	6-Carbon-14		
4109	Gross Alpha Particle Activity		
4110	11-Sodium-22		
4112	15-Phosphorus-32		
4114	16-Sulfur-35		
4116	17-Chlorine-36		
4118	20-Calcium-45		
4120	20-Calcium-47		
4122	21-Scandium-46		
4124	21-Scandium-47		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 84			
	Radiological Contaminants	Regulated -R-	Monitoring Only -M-
4126	21-Scandium-48		
4128	23-Vanadium-48		
4130	24-Chromium-51		
4132	25-Manganese-54		
4134	26-Iron-55		
4136	26-Iron-59		
4138	27-Cobalt-57		
4140	27-Cobalt-58		
4142	27-Cobalt-60		
4144	28-Nickel-59		
4146	28-Nickel-63		
4148	30-Zinc-65		
4150	32-Geranium-71		
4152	33-Arsenic-73		
4154	33-Arsenic-74		
4156	33-Arsenic-76		
4158	33-Arsenic-77		
4160	34-Selenium-75		
4162	34-Selenium-79		
4164	35-Bromide-82		
4166	37-Rubidium-86		
4168	37-Rubidium-87		
4170	38-Strontium-85		
4172	38-Strontium-89		M
4174	38-Strontium-90		M
4176	39-Yttrium-90		
4178	39-Yttrium-91		
4180	39-Yttrium-91M		
4182	40-Zirconium-93		
4184	40-Zirconium-95		
4186	41-Niobium-93		
4188	41-Niobium-95		
4190	42-Molybdenum-93		
4192	42-Molybdenum-99		
4194	43-Technetium-96		
4196	43-Technetium-97M		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 84			
	Radiological Contaminants	Regulated	Monitoring Only
		-R-	-M-
4198	43-Technetium-97		
4200	43-Technetium-99		
4202	43-Technetium-99M		
4204	44-Ruthenium-97		
4206	44-Ruthenium-103		
4208	44-Ruthenium-106		
4210	45-Rhodium-105		
4212	46-Palladium-103		
4214	46-Palladium-107		
4216	47-Silver-105M		
4218	47-Silver-110M		
4220	47-Silver-110		
4222	47-Silver-111		
4224	48-Cadmium-109		
4226	48-Cadmium-113M		
4228	48-Cadmium-115M		
4230	48-Cadmium-115		
4232	49-Indium-115		
4234	50-Tin-113		
4236	50-Tin-123		
4238	50-Tin-125		
4240	51-Antimony-122		
4242	51-Antimony-124		
4244	51-Antimony-125		
4246	51-Antimony-127		
4248	52-Tellurium-125M		
4250	52-Tellurium-127M		
4252	52-Tellurium-127		
4254	52-Tellurium-129M		
4256	52-Tellurium-129		
4258	52-Tellurium-132		
4260	53-Iodine-126		
4262	53-Iodine-129		
4264	53-Iodine-131		M
4266	55-Cesium-131		
4270	55-Cesium-134		M

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	

Note: This list begins on VI - 84			
	Radiological Contaminants	Regulated -R-	Monitoring Only -M-
4272	55-Cesium-135		
4274	55-Cesium-136		
4276	55-Cesium-137		
4278	56-Barium-140		
4280	57-Lanthanum-140		
4282	58-Cerium-141		
4284	58-Cerium-143		
4286	58-Cerium-144		
4288	56-Praseodymium-143		
4290	60-Neodymium-147		
4292	61-Promethium-147		
4294	61-Promethium-148		
4296	61-Promethium-148M		
4298	61-Promethium-149		
4300	62-Samarium-151		
4302	62-Samarium-153		
4304	63-Europium-152		
4306	63-Europium-154		
4308	63-Europium-155		
4310	63-Europium-156		
4312	64-Gadolinium-153		
4314	65-Terbium-160		
4316	66-Dysprosium-166		
4318	67-Holmium-166		
4320	67-Holmium-166M		
4322	68-Erbium-169		
4324	69-Thulium-170		
4326	69-Thulium-171		
4328	70-Ytterbium-175		
4330	71-Lutetium-177		
4332	72-Hafnium-181		
4334	73-Tantalum-182		
4336	74-Tungsten-181		
4338	74-Tungsten-185		
4340	74-Tungsten-187		
4342	75-Rhenium-183		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	
Note: This list begins on VI - 84			
	Radiological Contaminants	Regulated -R-	Monitoring Only -M-
4344	75-Rhenium-186		
4346	75-Rhenium-187		
4348	76-Osmium-185		
4350	76-Osmium-191		
4352	76-Osmium-193		
4354	77-Iridium-190		
4356	77-Iridium-192		
4358	78-Platinum-191		
4360	78-Platinum-193M		
4362	78-Platinum-193		
4364	79-Gold-196		
4366	79-Gold-198		
4368	81-Thallium-204		
4370	82-Lead-203		
4372	82-Lead-210		
4374	83-Bismuth-206		
4376	83-Bismuth-207		
4378	83-Bismuth-210		
4380	84-Polonium-210		
4382	91-Protactinium-233		
4999	Note: (Reserved by MSIS)		

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Table ID06, Contaminant Identification Codes

Code Value	Associated Description	Comment(s)	
	Lead and Copper Rule	Regulated -R-	Monitoring Only -M-
5000	Lead & Copper Rule	R	

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Table ID07, Record Data Origin Codes

Code Value	Associated Description	Comment(s)
H	Headquarters (EPA) supplied data	EPA Use Only
R	Region (EPA) supplied data	EPA Use Only
S	State supplied data	

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Table ID08, Violation Type Codes

Code Value	Associated Description	Comment(s)
01	MCL, Single Sample	
02	MCL, Average	
03	Monitoring, Regular	
04	Monitoring, Check/Repeat/Confirmation	
05	Notification, State	
06	Notification, Public	
07	Treatment Techniques	
08	Variance/Exemption/Other Compliance Schedule	
09	Record Keeping	
10	Operations Report	
21	MCL, Acute (TCR)	
22	MCL, Monthly (TCR)	
23	Monitoring, Routine Major (TCR)	
24	Monitoring, Routine Minor (TCR)	
25	Monitoring, Repeat Major (TCR)	
26	Monitoring, Repeat Minor (TCR)	
28	Sanitary Survey (TCR)	
31	Monitoring, Routine/Repeat (SWTR-Unfilt)	
36	Monitoring, Routine/Repeat (SWTR-Filter)	
41	Treatment Technique (SWTR)	
51	Initial Tap Sampling for Pb and Cu	
52	Follow-up and Routine Tap Sampling	
53	Initial Water Quality Parameter WQP M&R	
54	Follow-up & Routine E.P. WQP M&R	
55	Follow-up & Routine Tap WQP M&R	
56	Initial, Follow-up, or Routine SOWT M&R	
57	OCCT Study Recommendation	
58	OCCT Installation/Demonstration	
59	WQP Entry Point Non-Compliance	
60	WQP Tap Non-Compliance	
61	SOWT Recommendation	
62	SOWT Installation	
63	MPL Non-Compliance	
64	Lead Service Line Replacement (LSLR)	
65	Public Education	

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
Federal Enforcement Actions		
EF<	Fed CFP issued	Federal Complaint for Penalty issued An administrative action in which EPA seeks to collect up to \$5,000 for violation of a final administrative order.
EF&	Fed Crim Case referred to DOJ	Federal Criminal Case referred to the U.S. Department of Justice The sending of the required litigation report and other documents to the U.S. Department of Justice for the filing of a criminal case in an appropriate U.S. District Court
EF!	Fed PAO issued	Federal Proposed Administrative Order issued An order issued by EPA under the authority of Section 1414 of the SDWA to a PWS which proposes to require compliance with the national primary drinking water regulations. The proposed order provides the opportunity for a hearing on the violations and the schedule allowed for achieving compliance.
EF-	Fed CFP Consent Order/Decree w/penalty	Federal CFP Consent Order or Consent Decree An agreement signed by both the PWS and EPA as a result of the issuance of Complaint for Penalty (CFP). It specifies the payment of a penalty by the PWS for violation of the final administrative order.
EF/	Fed 1431 (Emergency) Order	Federal 1431 Emergency Administrative Order

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 89		
Federal Enforcement Actions		
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EF/		An order issued by EPA under the authority of Section 1431 of the SDWA. Section 1431 enables EPA to act whenever there is an "imminent and substantial endangerment" to the health of persons. EPA may order the measures necessary to protect public health, including the provision of bottled water.
EF%	Fed Civil Case concluded	Federal Civil Case concluded Federal civil case resolved through verdict, pleas, injunction, EPA/DOJ decision to drop the case, etc.
EF=	Fed CFP Default Judgement	Federal CFP Default Judgement An administrative judgement, entered as a consequence of the failure of the owner/operator of a PMS to respond to a Complaint for Penalty or to appeal at the administrative hearing.
EFG	Fed Public Notif issued	Public Notification issued by EPA Public notification issued by EPA. It may be issued in response to violations about which the supplier failed to notify the public, or where EPA believes there is a risk to health. It may be issued simultaneously with a Boil Water Order.
EFH	Fed Boil Water Order	Federally issued Boil Water Order Order which notifies the system's

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 89		
Federal Enforcement Actions		
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EFH		customers/users of a deficiency (MCL or M/R violation(s)) that could result in an acute risk to health, and that they (the users) should boil water before using it (for drinking, cooking, possibly bodily contact). This would be issued generally only where EPA is acting as the primacy agency, or as part of a Federal AO.
EFJ	Fed Formal NOV issued	Federally issued Notice of Violation A notice issued under the authority of Section 1414 of the SDWA to the PWS and the State that the system is in violation of the national primary drinking water regulations and that if the State does not commence an appropriate enforcement action within 30 days, EPA will either issue an order or file a civil case.
EFK	Fed BCA signed	Federal EPA Bilateral Compliance Agreement signed An agreement signed by both EPA and the PWS that contains a schedule to return the system to compliance. The agreement should comport with OGDWM guidance on the use of BCAs.
EFL	Fed FAO issued	Federal Final Administrative Order Federal Final Administrative Order issued An order issued by EPA under the authority of Section 1414 of the SDWA. The order requires compliance with the national primary drinking water

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 89		
Federal Enforcement Actions		
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EFL		regulations and may specify a reasonable time for the PWS to achieve compliance. If the order is violated, EPA may administratively assess a penalty of up to \$5,000 or assess up to \$25,000 in a civil action.
EFN	Fed Show-cause Hearing	A hearing held to provide opportunity for the violator to present information to the Federal EPA and the public on reasons for not complying. Such hearings often result in compliance agreements or other formal actions. This would be issued generally only where EPA is acting as the primacy agency.
EFQ	Fed Civil Case filed	Federal Civil Case filed in an appropriate U.S. District Court The action by the U.S. Department of Justice to place the civil case on the docket of the appropriate U.S. District Court.
EFR	Fed Consent Decree/Judgement	Federal Consent Decree or Consent Judgement A formal agreement between EPA and the PWS that settles a civil case. The decree contains the actions the PWS must take to return to compliance with the national primary drinking water regulations and the SDWA, and a schedule for those actions. The decree usually assesses a penalty for past violations and specifies the penalties a PWS will pay for violations of the consent decree. Jurisdiction is retained by the court

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Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 89		
Federal Enforcement Actions		
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EFR		to oversee compliance with the Decree/Judgement provisions.
EFS	Fed Default Judgement	Federal Default Judgement A Federal court judgement that is rendered as a consequence of the non-appearance of the system owner/operator.
EFT	Fed Injunction	Federal Injunction An order issued by the Federal court that directs the PWS to take certain actions (or forbids the PWS to take certain actions). An injunction usually contains penalties for violations of its terms.
EFU	Fed Temp Restrain Order/Prelim Injunc	Federal Temporary Restraining Order/Preliminary Injunction An immediate, non-final order issued by the Federal court that forbids the PWS from taking certain actions, or orders the PWS to take some. Often used in emergency situations.
EFV	Fed Crim Case filed	Federal Criminal Case filed in a Federal court The action taken by the U.S. Department of Justice to place a criminal case on the docket of the appropriate U.S. District Court. (Occurs after indictments)
EFW	Fed Crim Case concluded	Federal Criminal Case concluded

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
	<p>Note: This list begins on VI - 89</p> <p>Federal Enforcement Actions</p> <p>Previous page is continued on next line</p>	
EFW		Federal criminal case resolved through verdict, pleas, injunction, etc.
EF9	Fed Civil Case referred to DOJ	<p>Federal Civil Case referred to the U.S. Department of Justice</p> <p>The sending of the litigation report and other required documents to the U.S. Department of Justice for filing of a civil case in an appropriate U.S. District Court.</p>
EIA	Fed Violation/Reminder Notice	<p>Informal written or oral notification that a violation occurred, explaining what the violation was (MCL, M/R, etc.). It may specify that public notification should occur.</p> <p>Includes Violation Notice, Reminder Letter, Warning Letter.</p> <p>A Reminder Letter is an informal written notification that a violation has occurred.</p> <p>A Warning Letter contains all the same elements as a Reminder Letter but also specifies what legal or administrative actions may occur if the system does not return to compliance.</p> <p>This code should generally be used only where EPA is acting as the primacy agency.</p>
E18	Fed Compliance Meeting conducted	Meeting between EPA officials and representatives of the PWS to discuss the violation and to explain the requirements for compliance. This

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
	Note: This list begins on VI - 89	
	Federal Enforcement Actions	
	Previous page is continued on next line	
EIB		serves as an informative meeting about requirements of the SDWA, as opposed to an enforcement meeting.
EIC	Fed Tech Assistance Visit	Technical Assistance Visit or Meeting Meeting between EPA officials and representatives of the PWS to discuss the system's status, the requirements for monitoring and reporting, and operational problems. This visit is usually triggered by a complaint or request from a system owner/operator. EPA usually provides assistance of a technical nature to return the system to compliance (e.g. calibrating equipment, a lesson in "how" to take samples).
EID	Fed Site Visit (enforcement)	Site visit for enforcement purposes A visit to the PWS in which a Federal official attempts to confirm or discover additional violations. This visit could include discussion of regulatory requirements and the system's violations, collection of samples using full chain-of-custody quality assurance procedures, discussion of penalties if compliance is not achieved, etc. A site visit can be considered a preliminary step for a formal enforcement action.
EIE	Fed Public Notif requested	Public Notification requested of system Request by EPA for a supplier to give public notification that a violation of the national primary drinking water regulations has occurred. This

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Code Value	Associated Description	Comment(s)
	Note: This list begins on VI - 89	
	Federal Enforcement Actions	
	Previous page is continued on next line	
EIE		request can be oral or written and would generally follow the violation notice.
EIF	Fed Public Notif received	Public Notif received from system Receipt of public notification issued by the supplier in response to a violation.
EO+	Fed No addtl Formal Action needed	Additional Formal Action unnecessary EPA has determined that no additional formal Federal action will be needed to bring a PWS back into compliance.
EOX	Fed Compliance achieved	Required for chemical/radiological violators only. For M/R violations, the submission of monitoring result. For MCL violations, the submission of monitoring results demonstrating contaminant levels below the maximum contaminant levels (MCLs). Used when compliance is achieved as a result of Federal action.
EOY	Fed Variance/Exemption issued	Fed Variance or Exemption issued The issuance to a PWS by EPA of a variance, as allowed by Section 1415 of the SDWA, or and exemption, as allowed by Section 1416 of the SDWA. Only used where EPA is acting as the primacy agency.

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Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 89		
Federal Enforcement Actions		
E02	Fed Turbidity Waiver issued	The issuance to the PWS by EPA of a waiver that increases the allowable turbidity limit for the system, as allowed by 40 CFR 141.13. Only used where EPA is acting as the primacy agency.
E06	Fed Intentional no-action	EPA has reviewed the public water system's compliance history and has decided to take no action in response to this specific violation.
E07	Fed Unresolved	No action has been taken by EPA in response to this violation. There has been no general review of the PWS's compliance history and no decision not to proceed.
E08	Fed Other	An action has been taken by EPA that cannot be placed into one of the other categories. This code should be used very infrequently.

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Code Value	Associated Description	Comment(s)
	State Enforcement Actions	
SF&	St Crim Case referred to AG	State Criminal Case referred to the State Attorney General The sending of the required litigation report and other documents to the State Attorney General for the filing of a criminal case in State court.
SF%	St Civil Case concluded	State Civil Case concluded State civil case resolved through verdict, pleas, injunction, etc.
SFG	St Public Notif issued	Public notification issued by the primacy agent. It may be issued in response to violations about which the supplier did not notify the public or where the State feels there is a risk to health. It may be issued simultaneously with a Boil Water Order.
SFH	St Boil Water Order	State issued Boil Water Order Order which notifies the system's customers/users of a deficiency (MCL and/or M/R violation(s)) that could result in an acute risk to health, and that they (the users of the water) should boil the water before using it (for drinking, cooking, possibly bodily contact).
SFJ	St Formal NOV issued	State issued Formal Notice of Violation A formal notification to a public water system that it is in violation of a drinking water regulation, that the PWS must take some action to rectify its problem (e.g., disinfect, give public notification, take samples correctly, report results), and that

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on 'VI - 94		
State Enforcement Actions		
Previous page is continued on next line		
SFJ		formal legal action may follow if the specified actions are not taken. A NOV may specify dates by which actions should be taken.
SFK	St BCA signed	State Bilateral Compliance Agreement signed An agreement signed by both the State and the Public Water System that contains a schedule to return the system to compliance. The agreement should comport with OGNOW guidance on the use of BCAs.
SFL	St AO (w/o penalty) issued	State Administrative Order/Compliance Order issued without penalty An order issued by the Executive branch of the State government that orders the PWS to come into compliance or to undertake remedial actions. No penalty is assessed.
SFM	St Admin Penalty assessed	State Administrative Penalty assessed A penalty (usually monetary) assessed by a non-judicial body (e.g., program director or field staff, depending on specific legislative authorities) in response to a violation of the regulations or failure to take actions ordered by the primacy agent to achieve compliance. Most often issued after a State has issued an AO/CO without penalty and the system violates that order.
SFN	St Show-cause Hearing	A hearing held to provide opportunity

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
<p>Note: This list begins on 'VI - 94</p> <p>State Enforcement Actions</p> <p>Previous page is continued on next line</p>		
SFN		for the violator to present information to the State and the public on its reasons for not complying with the State SDWA and/or regulations. Such hearings often result in compliance agreements or other formal actions.
SFO	St AO (w/penalty) issued	<p>State Administrative Order/Compliance Order issued with Penalty</p> <p>An order issued by the Executive branch of the State government, that orders the PWS to come into compliance or to undertake remedial actions. A penalty is assessed.</p>
SFP	St Civil Case under development	<p>State Civil Case under development</p> <p>Technical/legal staff are preparing documents to refer a civil case to the State Attorney General.</p>
SFQ	St Civil Case filed	<p>State Civil Case filed in State court</p> <p>The action by the State Attorney General to place the civil case on the docket of the appropriate State court.</p>
SFR	St Consent Decree/Judgement	<p>State Consent Decree or Consent Judgement</p> <p>A formal agreement filed in a State court between the PWS and the primacy agency that settles a civil case and that specifies the actions and a schedule for those actions that must be taken by the PWS to achieve compliance with the regulations. The</p>

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on 'VI - 94		
State Enforcement Actions		
Previous page is continued on next line		
SFR		decree generally also contains the actions that the primacy agent may take if the system fails to comply with the terms of the Consent Decree. It generally includes penalties for each day of violation of the schedule. Jurisdiction is retained by the court to oversee compliance with the Decree/Judgement provisions.
SFS	St Default Judgement	State Default Judgement A State court judgement that is rendered, in accordance with State civil procedure, generally as a consequence of the non-appearance of the system owner/operator.
SFT	St Injunction	State Injunction A final order issued by the State court that directs the PWS to take certain actions (or forbids the PWS to take certain actions). An Injunction usually contains penalties for violations of its terms.
SFU	St Temp Restrain Order/Prelim Injunc	State Temporary Restraining Order/ Preliminary Injunction An immediate, non-final order issued by the State court that forbids the PWS to take certain actions, or orders the PWS to take certain actions. Often used in emergency situations.
SFV	St Crim Case filed	State Criminal Case filed in State court The action by the State Attorney General

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on 'VI - 94		
State Enforcement Actions		
Previous page is continued on next line		
SFV		to place a criminal case on the docket of the appropriate State court.
SFW	St Crim Case concluded	State Criminal Case concluded State criminal case resolved through verdict, pleas, injunction, etc.
SF3	St Case appealed	The PWS has filed an appeal relating to the decision in or outcome of a previous State administrative, civil or criminal action.
SF4	St Case dropped	Civil or criminal action against the PWS has been discontinued by the primacy agent. This code should only be used where actions concerning civil or criminal cases (SFP, SF9, SFQ, SFZ, SFR, SFS, SFT, SFU, SFA, SFV and/or SFW) have been reported.
SF5	St Hook-up/Extension Ban	An order by the State, County or local health agency that bans further connections to the water system, extensions of water system to serve new customers, or bans issuance of septic tank/building permit/occupancy permits.
SF9	St Civil Case referred to AG	State Civil Case referred to State Attorney General The sending of the required litigation report and other documents to the State Attorney General for the filing of a civil case in State court.

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on 'VI - 94		
State Enforcement Actions		
SIA	St Violation/Reminder Notice	<p>Informal written or oral notification to representatives of the public water system (PWS) from State officials that a violation has occurred, explaining what the violation was (MCL, M/R, etc.). It may specify that public notification should occur.</p> <p>Includes Violation Notice, Reminder Letter, Warning Letter.</p> <p>A Reminder Letter is an informal written notification that a violation has occurred (e.g., a sample was missed).</p> <p>A Warning Letter contains all the same elements as a Reminder Letter but also specifies what legal or administrative actions may occur if the system does not return to compliance.</p>
SIB	St Compliance Meeting conducted	<p>Meeting between State officials and representatives of the PWS to discuss the violation(s) and to explain the requirements for compliance. This serves as an informative meeting about the requirements of the SDWA, as opposed to an enforcement meeting.</p>
SIC	St Tech Assistance Visit	<p>Technical Assistance Visit or Meeting</p> <p>Meeting between State officials and representatives of the PWS to discuss the system's status, the requirements for monitoring and reporting, and operational problems. This visit is usually triggered by a complaint or request from a system owner/operator. The State usually provides assistance of a technical nature to return the system to compliance (e.g., calibrate equipment, a lesson in "how" to take</p>

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
	Note: This list begins on 'VI - 94	
	State Enforcement Actions	
	Previous page is continued on next line	
SIC		samples).
SID	St Site Visit (enforcement)	Site visit for enforcement purposes A visit to the PWS in which a State official attempts to confirm or discover additional regulatory violations. This visit could include discussion of requirements and the system's violations, collection of samples using full chain-of-custody quality assurance procedures, discussion of penalties if compliance is not achieved, etc. A site visit can be considered a preliminary step for a formal enforcement action.
SIE	St Public Notif requested	Public Notification requested of system Request by the State for a supplier to give public notification that a violation of the regulations has occurred. This request can be oral or written and would generally follow the violation notice.
SIF	St Public Notif received	Public Notification received from system Receipt of public notification issued by the supplier in response to a violation.
SO+	St No addtl Formal Action needed	Additional Formal Action unnecessary The State has determined that no additional formal State action will be needed to bring a PWS back into compliance.

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on 'VI - 94		
State Enforcement Actions		
SOX	St Compliance achieved	<p>Required for chemical/radiological violators only.</p> <p>For M/R violations, the submission of the code SOX indicates that the system is monitoring and reporting properly in accordance with the criteria for compliance.</p> <p>For MCL violations, the submission of the code SOX means that subsequent monitoring of the system indicates that the system is operating below the maximum contaminant level (MCL) and is thus in compliance with the MCL.</p>
SOY	St Variance/Exemption issued	<p>St Variance or Exemption issued</p> <p>The issuance to a PWS by a State of a variance as allowed by Section 1415 of the SDWA or an exemption as allowed by Section 1416 of the SDWA.</p>
SOZ	St Turbidity Waiver issued	The issuance to the PWS by a State of a waiver that increases the allowable turbidity limit for the system, as allowed by 40 CFR 141.13.
SO6	St Intentional no-action	The State has reviewed the public water system's compliance history and has decided to take no enforcement action in response to this specific violation.
SO7	St Unresolved	No action has been taken by the State in response to this violation. There has been no general review of the PWS's compliance history, and no decision not to proceed.

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Table ID09, Enforcement Follow-up Action Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on 'VI - 94		
State Enforcement Actions		
908	St Other	An action has been taken by the State that cannot be placed into one of the other categories. This code should rarely be used.

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Table ID10, Combined Source/Entity Record Type and Source/Entry Point/Plant Type Codes

Code Value	Associated Description	Comment(s)

		This table contains valid combinations of values for data elements C405 & C407
		Pos. 1 = C405 Pos. 2 = C407
	Entry Point Records	
	Source/Entry Point/Plant Type Codes	
EA	Surface, Permanent	
EB	Surface, Non-permanent	
EC	Groundwater, Permanent	
ED	Groundwater, Non-permanent	
	Plant/Facility Records	
	Source/Entry Point/Plant Type Codes	
PH	Well Head	
PI	Intake	
PM	Pumping Facility	
PO	Other Plant or Facility	
PR	Storage Facility	
PT	Treatment Plant	
	Source Records	
	Source/Entry Point/Plant Type Codes	
SG	Groundwater, Non-purchased	
SP	Surface, Purchased	
SS	Surface, Non-purchased	
SW	Groundwater, Purchased	
SY	Groundwater (UDI), Non-purchased	
SZ	Groundwater (UDI), Purchased	

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Table ID11, Township/Range Quarter Section and Quarter-Quarter Section Codes

Code Value	Associated Description	Comment(s)
NE	Northeast Quarter	
NW	Northwest Quarter	
SE	Southeast Quarter	
SW	Southwest Quarter	

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Table 0001. EPA Region Codes

Code Value	Associated Description	Comment(s)
		States within EPA Region
01	Boston, EPA Region I	CT ME MA NH RI VT
02	New York, EPA Region II	NJ NY PR VI 02
03	Philadelphia, EPA Region III	DC DE MD PA VA WV
04	Atlanta, EPA Region IV	AL FL GA KY MS NC SC TN 04
05	Chicago, EPA Region V	IL IN MI MN OH WI 05
06	Dallas, EPA Region VI	AR LA NM OK TX 06
07	Kansas City, EPA Region VII	IA KS MO NE 07
08	Denver, EPA Region VIII	CO MT ND SD UT WY 08
09	San Francisco, EPA Region IX	AS AZ CA FM GU HI MH MP NV PW 09
10	Seattle, EPA Region X	AK ID OR WA 10

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Table 0003, FIPS PUB 5-2, Alphabetic State Codes and Selected EPA Region Codes.

Code Value	Associated Description	Comment(s)
FIPS PUB 5-2, Alphabetic State Codes		
		EPA Region in which State is Located
		Number of Federal Congressional Districts
		C O N U S
AK	Alaska	X 1 N
AL	Alabama	IV 7
AR	Arkansas	VI 4
AS	American Samoa	IX 1 N
AZ	Arizona	IX 6
CA	California	IX 52
CO	Colorado	VIII 6
CT	Connecticut	I 6
DC	District of Columbia	III 1
DE	Delaware	III 1
FL	Florida	IV 23
FM	Federated States of Micronesia	IX 0 N
GA	Georgia	IV 11
GU	Guam	IX 1 N
HI	Hawaii	IX 2 N
IA	Iowa	VII 5
ID	Idaho	X 2
IL	Illinois	V 20
IN	Indiana	V 10
KS	Kansas	VII 4
KY	Kentucky	IV 6
LA	Louisiana	VI 7
MA	Massachusetts	I 10
MD	Maryland	III 8
ME	Maine	I 2
MH	Marshall Islands, Republic of the	IX 0 N
MI	Michigan	V 16
MN	Minnesota	V 8
MO	Missouri	VII 9
MP	Northern Mariana Islands	IX 0 N
MS	Mississippi	IV 5
MT	Montana	VIII 1
NC	North Carolina	IV 12
ND	North Dakota	VIII 1

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Table 0003, FIPS PUB 5-2, Alphabetic State Codes and Selected EPA Region Codes

Code Value	Associated Description	Comment(s)		
Note: This list begins on VI - 102				
FIPS PUB 5-2, Alphabetic State Codes				
		EPA Region in which State is Located	Number of Federal Congressional Districts	C O N U S
NE	Nebraska	VII	3	
NH	New Hampshire	I	2	
NJ	New Jersey	II	13	
NM	New Mexico	VI	3	
NV	Nevada	IX	2	
NY	New York	II	31	
OH	Ohio	V	19	
OK	Oklahoma	VI	6	
OR	Oregon	X	5	
PA	Pennsylvania	III	21	
PR	Puerto Rico	II	1	N
PW	Palau, Republic of	IX	0	N
RI	Rhode Island	I	2	
SC	South Carolina	IV	6	
SD	South Dakota	VIII	1	
TN	Tennessee	IV	9	
TX	Texas	VI	30	
UM	U.S. Minor Outlying Islands	Not Applicable	0	N
UT	Utah	VIII	3	
VA	Virginia	III	11	
VI	Virgin Islands of the U.S.	II	1	N
VT	Vermont	I	1	
WA	Washington	X	9	
WI	Wisconsin	V	9	
WV	West Virginia	III	3	
WY	Wyoming	VIII	1	

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Table 0003, FIPS PUB 5-2, Alphabetic State Codes and Selected EPA Region Codes

Code Value	Associated Description	Comment(s)

Selected EPA Region Codes		
02	New York, EPA Region II	
04	Atlanta, EPA Region IV	
05	Chicago, EPA Region V	
06	Dallas, EPA Region VI	
07	Kansas City, EPA Region VII	
08	Denver, EPA Region VIII	
09	San Francisco, EPA Region IX	
10	Seattle, EPA Region X	

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Table 0005, Primacy Flag Codes

Code Value	Associated Description	Comment(s)
N	Native Entity has Primacy	Indian Tribe/Reservation
R	EPA Region has Primacy	
S	State Agency has Primacy	

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Table 0019, State Reconciliation Flag Codes

Code Value	Associated Description	Comment(s)
N	Reconciliation NOT Needed for State	
Y	Reconciliation Needed for State	

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Table 0102, Grant Eligibility Codes

Code Value	Associated Description	Comment(s)
N	PMS NOT Grant Eligible	
Y	PMS Grant Eligible	

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Table 0103, PWS Status Codes

Code Value	Associated Description	Comment(s)
CAC	CWS, Active, Current	Community PWSs
CAH	CWS, Active, Historical	Community PWSs
CIC	CWS, Inactive, Current	Community PWSs
CIH	CWS, Inactive, Historical	Community PWSs
NAC	TNCWS, Active, Current	Transient Non-community PWSs
NAH	TNCWS, Active, Historical	Transient Non-community PWSs
NIC	TNCWS, Inactive, Current	Transient Non-community PWSs
NIH	TNCWS, Inactive, Historical	Transient Non-community PWSs
PAC	NTNCWS, Active, Current	Non-transient Non-community PWSs
PAH	NTNCWS, Active, Historical	Non-transient Non-community PWSs
PIC	NTNCWS, Inactive, Current	Non-transient Non-community PWSs
PIH	NTNCWS, Inactive, Historical	Non-transient Non-community PWSs

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Table 0105, PWS Type Codes

Code Value	Associated Description	Comment(s)
C	Community PWS (CWS)	
N	Transient Non-community PWS (TNCWS)	
P	Non-transient Non-community PWS (NTNCWS)	

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Table 0107, PMS Activity Flag Codes

Code Value	Associated Description	Comment(s)
A	Active PMS	
I	Inactive PMS	

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Table 0109, History Flag Codes

Code Value	Associated Description	Comment(s)
C	Current Inventory	
H	Historical Inventory	

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Table 0115, Population Category Codes

Code Value	Associated Description	Comment(s)
A	Under 101 persons served	
B	101-500 persons served	
C	501-1,000 persons served	
D	1,001-2,500 persons served	
E	2,501-3,300 persons served	
F	3,301-5,000 persons served	
G	5,001-10,000 persons served	
H	10,001-50,000 persons served	
I	50,001-75,000 persons served	
J	75,001-100,000 persons served	
K	Over 100,000 persons served	

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Table 0119, Primary Source Type Codes

Code Value	Associated Description	Comment(s)
G	Groundwater, Non-purchased	
P	Surface, Purchased	
S	Surface, Non-purchased	
H	Groundwater, Purchased	
Y	Groundwater (UDI), Non-purchased	
Z	Groundwater (UDI), Purchased	

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Table 0129, Treatment Class Codes

Code Value	Associated Description	Comment(s)
M	Mixed Treated/Untreated	Some sources have treatment applied but not all
T	Treated	All sources have treatment applied
U	Untreated	No sources have treatment applied

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Table 0163, PMS Owner Type Codes

Code Value	Associated Description	Comment(s)
+	Not Reported by State	'+' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
1	Federal Government	
2	Private	Subdivisions, Investors, Trusts, Cooperatives, Water Associations, etc.
3	State Government	
4	Local Government	Authorities, Commissions, Districts, Municipalities, Cities, Towns, Counties, etc.
5	Mixed Public/Private	
6	Native American	Indian Tribes & Reservations, Alaska Remote Villages

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Table 0165, Regulating Entity Codes

Code Value	Associated Description	Comment(s)
B	Both State & Federal Governments	
F	Federal Government Only	
N	Neither State nor Federal Govt.	
S	State Government Only	

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Table 0171, PWS Reconciliation Flag Codes

Code Value	Associated Description	Comment(s)
N	Reconciliation NOT Needed for PWS	
Y	Reconciliation Needed for PWS	

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Table 0303, Addressee Type Codes

Code Value	Associated Description	Comment(s)
D	Distribution Facility	
E	Employee	
L	Laboratory	
M	Mailing	
O	System Owner/Responsible Party	
P	Pumping Facility	
R	Operator	
S	Storage Facility	
T	Water Treatment Plant/Facility	
V	Vendor	
X	Other	

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Table 0405, Source/Entity Record Type Codes

Code Value	Associated Description	Comment(s)
		See Table ID10 for valid combinations of these codes in conjunction with Source/Entry Point/Plant Type (C407) codes
E	Entry Point Record	Surface or Groundwater, and Permanent or Non-permanent
P	Plant/Facility Record	Treatment Plant, Storage, Pumping, and Distribution Facilities, Well Head, Intake, etc.
S	Source Record	Surface, Groundwater, Purchased Source

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Table 0407, Source/Entry Point/Plant Type Codes

Code Value	Associated Description	Comment(s)
		See Table ID10 for valid combinations of these codes in conjunction with Source/Entity Record Type (C405) codes
		Record Type to which Applicable
A	Surface, Permanent	Entry Point
B	Surface, Non-permanent	Entry Point
C	Groundwater, Permanent	Entry Point
D	Groundwater, Non-permanent	Entry Point
G	Groundwater, Non-purchased	Source
H	Well Head	Plant/Facility
I	Intake	Plant/Facility
M	Pumping Facility	Plant/Facility
O	Other Plant or Facility	Plant/Facility
P	Surface, Purchased	Source
R	Storage Facility	Plant/Facility
S	Surface, Non-purchased	Source
T	Treatment Plant	Plant/Facility
W	Groundwater, Purchased	Source
Y	Groundwater (UDI), Non-purchased	Source
Z	Groundwater (UDI), Purchased	Source

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Table 0409, Source Availability Codes

Code Value	Associated Description	Comment(s)
E	Emergency Utilization	
I	Interim Utilization	
O	Other Utilization	
P	Permanent Utilization	
S	Seasonal Utilization	

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Table 0429, On Reach Flag Codes

Code Value	Associated Description	Comment(s)
N	Intake NOT on defined River Reach	
Y	Intake on defined River Reach	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Alaska (AK)	
00	At Large (AK)	One Representative

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Alabama (AL)		
01	1st District (AL)	
02	2nd District (AL)	
03	3rd District (AL)	
04	4th District (AL)	
05	5th District (AL)	
06	6th District (AL)	
07	7th District (AL)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Arkansas (AR)		
01	1st District (AR)	
02	2nd District (AR)	
03	3rd District (AR)	
04	4th District (AR)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	American Samoa (AS)	U.S. Possession
98	Non-voting Delegate (AS)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Arizona (AZ)		
01	1st District (AZ)	
02	2nd District (AZ)	
03	3rd District (AZ)	
04	4th District (AZ)	
05	5th District (AZ)	
06	6th District (AZ)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
State of California (CA)		
01	1st District (CA)	
02	2nd District (CA)	
03	3rd District (CA)	
04	4th District (CA)	
05	5th District (CA)	
06	6th District (CA)	
07	7th District (CA)	
08	8th District (CA)	
09	9th District (CA)	
10	10th District (CA)	
11	11th District (CA)	
12	12th District (CA)	
13	13th District (CA)	
14	14th District (CA)	
15	15th District (CA)	
16	16th District (CA)	
17	17th District (CA)	
18	18th District (CA)	
19	19th District (CA)	
20	20th District (CA)	
21	21st District (CA)	
22	22nd District (CA)	
23	23rd District (CA)	
24	24th District (CA)	
25	25th District (CA)	
26	26th District (CA)	
27	27th District (CA)	
28	28th District (CA)	
29	29th District (CA)	
30	30th District (CA)	
31	31st District (CA)	
32	32nd District (CA)	
33	33rd District (CA)	
34	34th District (CA)	
35	35th District (CA)	
36	36th District (CA)	
37	37th District (CA)	
38	38th District (CA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 391		
State of California (CA)		
39	39th District (CA)	
40	40th District (CA)	
41	41st District (CA)	
42	42nd District (CA)	
43	43rd District (CA)	
44	44th District (CA)	
45	45th District (CA)	
46	46th District (CA)	
47	47th District (CA)	
48	48th District (CA)	
49	49th District (CA)	
50	50th District (CA)	
51	51st District (CA)	
52	52nd District (CA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Colorado (CO)		
01	1st District (CO)	
02	2nd District (CO)	
03	3rd District (CO)	
04	4th District (CO)	
05	5th District (CO)	
06	6th District (CO)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
State of Connecticut (CT)		
01	1st District (CT)	
02	2nd District (CT)	
03	3rd District (CT)	
04	4th District (CT)	
05	5th District (CT)	
06	6th District (CT)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	District of Columbia (DC)	
98	Non-voting Delegate (DC)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Delaware (DE)	
00	At Large (DE)	One Representative

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Florida (FL)	
01	1st District (FL)	
02	2nd District (FL)	
03	3rd District (FL)	
04	4th District (FL)	
05	5th District (FL)	
06	6th District (FL)	
07	7th District (FL)	
08	8th District (FL)	
09	9th District (FL)	
10	10th District (FL)	
11	11th District (FL)	
12	12th District (FL)	
13	13th District (FL)	
14	14th District (FL)	
15	15th District (FL)	
16	16th District (FL)	
17	17th District (FL)	
18	18th District (FL)	
19	19th District (FL)	
20	20th District (FL)	
21	21st District (FL)	
22	22nd District (FL)	
23	23rd District (FL)	

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Code Value	Associated Description	Comment(s)
	Federated States of Micronesia (FM)	Freely Associated State
99	No Representative (FM)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Georgia (GA)		
01	1st District (GA)	
02	2nd District (GA)	
03	3rd District (GA)	
04	4th District (GA)	
05	5th District (GA)	
06	6th District (GA)	
07	7th District (GA)	
08	8th District (GA)	
09	9th District (GA)	
10	10th District (GA)	
11	11th District (GA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	Guam (GU)	U.S. Possession
98	Non-voting Delegate (GU)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Hawaii (HI)	
01	1st District (HI)	
02	2nd District (HI)	

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Table 0507; FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Iowa (IA)		
01	1st District (IA)	
02	2nd District (IA)	
03	3rd District (IA)	
04	4th District (IA)	
05	5th District (IA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Idaho (ID)	
01	1st District (ID)	
02	2nd District (ID)	

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Table 0507. FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Illinois (IL)	
01	1st District (IL)	
02	2nd District (IL)	
03	3rd District (IL)	
04	4th District (IL)	
05	5th District (IL)	
06	6th District (IL)	
07	7th District (IL)	
08	8th District (IL)	
09	9th District (IL)	
10	10th District (IL)	
11	11th District (IL)	
12	12th District (IL)	
13	13th District (IL)	
14	14th District (IL)	
15	15th District (IL)	
16	16th District (IL)	
17	17th District (IL)	
18	18th District (IL)	
19	19th District (IL)	
20	20th District (IL)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Indiana (IN)	
01	1st District (IN)	
02	2nd District (IN)	
03	3rd District (IN)	
04	4th District (IN)	
05	5th District (IN)	
06	6th District (IN)	
07	7th District (IN)	
08	8th District (IN)	
09	9th District (IN)	
10	10th District (IN)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Kansas (KS)		
01	1st District (KS)	
02	2nd District (KS)	
03	3rd District (KS)	
04	4th District (KS)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

Commonwealth of Kentucky (KY)		
01	1st District (KY)	
02	2nd District (KY)	
03	3rd District (KY)	
04	4th District (KY)	
05	5th District (KY)	
06	6th District (KY)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Louisiana (LA)		
01	1st District (LA)	
02	2nd District (LA)	
03	3rd District (LA)	
04	4th District (LA)	
05	5th District (LA)	
06	6th District (LA)	
07	7th District (LA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
Commonwealth of Massachusetts (MA)		
01	1st District (MA)	
02	2nd District (MA)	
03	3rd District (MA)	
04	4th District (MA)	
05	5th District (MA)	
06	6th District (MA)	
07	7th District (MA)	
08	8th District (MA)	
09	9th District (MA)	
10	10th District (MA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Maryland (MD)		
01	1st District (MD)	
02	2nd District (MD)	
03	3rd District (MD)	
04	4th District (MD)	
05	5th District (MD)	
06	6th District (MD)	
07	7th District (MD)	
08	8th District (MD)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Maine (ME)	
01	1st District (ME)	
02	2nd District (ME)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	Republic of the Marshall Islands (MH)	Freely Associated State
99	No Representative (MH)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Michigan (MI)	
01	1st District (MI)	
02	2nd District (MI)	
03	3rd District (MI)	
04	4th District (MI)	
05	5th District (MI)	
06	6th District (MI)	
07	7th District (MI)	
08	8th District (MI)	
09	9th District (MI)	
10	10th District (MI)	
11	11th District (MI)	
12	12th District (MI)	
13	13th District (MI)	
14	14th District (MI)	
15	15th District (MI)	
16	16th District (MI)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Minnesota (MN)	
01	1st District (MN)	
02	2nd District (MN)	
03	3rd District (MN)	
04	4th District (MN)	
05	5th District (MN)	
06	6th District (MN)	
07	7th District (MN)	
08	8th District (MN)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Missouri (MO)		
01	1st District (MO)	
02	2nd District (MO)	
03	3rd District (MO)	
04	4th District (MO)	
05	5th District (MO)	
06	6th District (MO)	
07	7th District (MO)	
08	8th District (MO)	
09	9th District (MO)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	Northern Mariana Islands (MP)	U.S. Possession
99	No Representative (MP)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Mississippi (MS)	
01	1st District (MS)	
02	2nd District (MS)	
03	3rd District (MS)	
04	4th District (MS)	
05	5th District (MS)	

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Table 0507. FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Montana (MT)	
00	At Large (MT)	One Representative

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of North Carolina (NC)		
01	1st District (NC)	
02	2nd District (NC)	
03	3rd District (NC)	
04	4th District (NC)	
05	5th District (NC)	
06	6th District (NC)	
07	7th District (NC)	
08	8th District (NC)	
09	9th District (NC)	
10	10th District (NC)	
11	11th District (NC)	
12	12th District (NC)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of North Dakota (ND)	
00	At Large (ND)	One Representative

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Nebraska (NE)		
01	1st District (NE)	
02	2nd District (NE)	
03	3rd District (NE)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress).

Code Value	Associated Description	Comment(s)
	State of New Hampshire (NH)	
01	1st District (NH)	
02	2nd District (NH)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of New Jersey (NJ)		
01	1st District (NJ)	
02	2nd District (NJ)	
03	3rd District (NJ)	
04	4th District (NJ)	
05	5th District (NJ)	
06	6th District (NJ)	
07	7th District (NJ)	
08	8th District (NJ)	
09	9th District (NJ)	
10	10th District (NJ)	
11	11th District (NJ)	
12	12th District (NJ)	
13	13th District (NJ)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of New Mexico (NM)		
01	1st District (NM)	
02	2nd District (NM)	
03	3rd District (NM)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Nevada (NV)	
01	1st District (NV)	
02	2nd District (NV)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
State of New York (NY)		
01	1st District (NY)	
02	2nd District (NY)	
03	3rd District (NY)	
04	4th District (NY)	
05	5th District (NY)	
06	6th District (NY)	
07	7th District (NY)	
08	8th District (NY)	
09	9th District (NY)	
10	10th District (NY)	
11	11th District (NY)	
12	12th District (NY)	
13	13th District (NY)	
14	14th District (NY)	
15	15th District (NY)	
16	16th District (NY)	
17	17th District (NY)	
18	18th District (NY)	
19	19th District (NY)	
20	20th District (NY)	
21	21st District (NY)	
22	22nd District (NY)	
23	23rd District (NY)	
24	24th District (NY)	
25	25th District (NY)	
26	26th District (NY)	
27	27th District (NY)	
28	28th District (NY)	
29	29th District (NY)	
30	30th District (NY)	
31	31st District (NY)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Ohio (OH)	
01	1st District (OH)	
02	2nd District (OH)	
03	3rd District (OH)	
04	4th District (OH)	
05	5th District (OH)	
06	6th District (OH)	
07	7th District (OH)	
08	8th District (OH)	
09	9th District (OH)	
10	10th District (OH)	
11	11th District (OH)	
12	12th District (OH)	
13	13th District (OH)	
14	14th District (OH)	
15	15th District (OH)	
16	16th District (OH)	
17	17th District (OH)	
18	18th District (OH)	
19	19th District (OH)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Oklahoma (OK)		
01	1st District (OK)	
02	2nd District (OK)	
03	3rd District (OK)	
04	4th District (OK)	
05	5th District (OK)	
06	6th District (OK)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Oregon (OR)	
01	1st District (OR)	
02	2nd District (OR)	
03	3rd District (OR)	
04	4th District (OR)	
05	5th District (OR)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
Commonwealth of Pennsylvania (PA)		
01	1st District (PA)	
02	2nd District (PA)	
03	3rd District (PA)	
04	4th District (PA)	
05	5th District (PA)	
06	6th District (PA)	
07	7th District (PA)	
08	8th District (PA)	
09	9th District (PA)	
10	10th District (PA)	
11	11th District (PA)	
12	12th District (PA)	
13	13th District (PA)	
14	14th District (PA)	
15	15th District (PA)	
16	16th District (PA)	
17	17th District (PA)	
18	18th District (PA)	
19	19th District (PA)	
20	20th District (PA)	
21	21st District (PA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	Commonwealth of Puerto Rico (PR)	U.S. Possession
98	Non-voting Delegate (PR)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	Republic of Palau (PW)	U.S. Possession
99	No Representative (PW)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Rhode Island (RI)	
01	1st District (RI)	
02	2nd District (RI)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of South Carolina (SC)		
01	1st District (SC)	
02	2nd District (SC)	
03	3rd District (SC)	
04	4th District (SC)	
05	5th District (SC)	
06	6th District (SC)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
-----	-----	-----
	State of South Dakota (SD)	
00	At Large (SD)	One Representative

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Tennessee (TN)		
01	1st District (TN)	
02	2nd District (TN)	
03	3rd District (TN)	
04	4th District (TN)	
05	5th District (TN)	
06	6th District (TN)	
07	7th District (TN)	
08	8th District (TN)	
09	9th District (TN)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Texas (TX)		
01	1st District (TX)	
02	2nd District (TX)	
03	3rd District (TX)	
04	4th District (TX)	
05	5th District (TX)	
06	6th District (TX)	
07	7th District (TX)	
08	8th District (TX)	
09	9th District (TX)	
10	10th District (TX)	
11	11th District (TX)	
12	12th District (TX)	
13	13th District (TX)	
14	14th District (TX)	
15	15th District (TX)	
16	16th District (TX)	
17	17th District (TX)	
18	18th District (TX)	
19	19th District (TX)	
20	20th District (TX)	
21	21st District (TX)	
22	22nd District (TX)	
23	23rd District (TX)	
24	24th District (TX)	
25	25th District (TX)	
26	26th District (TX)	
27	27th District (TX)	
28	28th District (TX)	
29	29th District (TX)	
30	30th District (TX)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	U.S. Minor Outlying Areas (UM)	U.S. Possessions
99	No Representative (UM)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Utah (UT)	
01	1st District (UT)	
02	2nd District (UT)	
03	3rd District (UT)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress).

Code Value	Associated Description	Comment(s)
Commonwealth of Virginia (VA)		
01	1st District (VA)	
02	2nd District (VA)	
03	3rd District (VA)	
04	4th District (VA)	
05	5th District (VA)	
06	6th District (VA)	
07	7th District (VA)	
08	8th District (VA)	
09	9th District (VA)	
10	10th District (VA)	
11	11th District (VA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	Virgin Islands of the U.S. (VI)	U.S. Possession
98	Non-voting Delegate (VI)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Vermont (VT)	
00	At Large (VT)	One Representative

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of Washington (WA)	
01	1st District (WA)	
02	2nd District (WA)	
03	3rd District (WA)	
04	4th District (WA)	
05	5th District (WA)	
06	6th District (WA)	
07	7th District (WA)	
08	8th District (WA)	
09	9th District (WA)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

State of Wisconsin (WI)		
01	1st District (WI)	
02	2nd District (WI)	
03	3rd District (WI)	
04	4th District (WI)	
05	5th District (WI)	
06	6th District (WI)	
07	7th District (WI)	
08	8th District (WI)	
09	9th District (WI)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)

	State of West Virginia (WV)	
01	1st District (WV)	
02	2nd District (WV)	
03	3rd District (WV)	

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Table 0507, FIPS PUB 9, Federal Congressional District Codes (103rd Congress)

Code Value	Associated Description	Comment(s)
	State of Wyoming (WY)	
00	At Large (WY)	One Representative

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Table 0508, State-specific County Codes

Code Value -----	Associated Description -----	Comment(s) -----
	Boroughs/Census Areas of Alaska (AK)	FIPS codes utilized - See Table 0509
	Counties of Alabama (AL)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Arkansas (AR)	FIPS Code
001	Arkansas (AR)	001
002	Ashley (AR)	003
003	Baxter (AR)	005
004	Benton (AR)	007
005	Boone (AR)	009
006	Bradley (AR)	011
007	Calhoun (AR)	013
008	Carroll (AR)	015
009	Chicot (AR)	017
010	Clark (AR)	019
011	Clay (AR)	021
012	Cleburne (AR)	023
013	Cleveland (AR)	025
014	Columbia (AR)	027
015	Conway (AR)	029
016	Craighead (AR)	031
017	Crawford (AR)	033
018	Crittenden (AR)	035
019	Cross (AR)	037
020	Dallas (AR)	039
021	Desha (AR)	041
022	Drew (AR)	043
023	Faulkner (AR)	045
024	Franklin (AR)	047
025	Fulton (AR)	049
026	Garland (AR)	051
027	Grant (AR)	053
028	Greene (AR)	055
029	Hempstead (AR)	057
030	Hot Spring (AR)	059
031	Howard (AR)	061
032	Independence (AR)	063
033	Izard (AR)	065
034	Jackson (AR)	067
035	Jefferson (AR)	069
036	Johnson (AR)	071
037	Lafayette (AR)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 448		
	Counties of Arkansas (AR)	FIPS Code
038	Lawrence (AR)	075
039	Lee (AR)	077
040	Lincoln (AR)	079
041	Little River (AR)	081
042	Logan (AR)	083
043	Lonoke (AR)	085
044	Madison (AR)	087
045	Marion (AR)	089
046	Miller (AR)	091
047	Mississippi (AR)	093
048	Monroe (AR)	095
049	Montgomery (AR)	097
050	Nevada (AR)	099
051	Newton (AR)	101
052	Quachita (AR)	103
053	Perry (AR)	105
054	Phillips (AR)	107
055	Pike (AR)	109
056	Poinsett (AR)	111
057	Polk (AR)	113
058	Pope (AR)	115
059	Prairie (AR)	117
060	Pulaski (AR)	119
061	Randolph (AR)	121
062	St Francis (AR)	123
063	Saline (AR)	125
064	Scott (AR)	127
065	Searcy (AR)	129
066	Sebastian (AR)	131
067	Sevier (AR)	133
068	Sharp (AR)	135
069	Stone (AR)	137
070	Union (AR)	139
071	Van Buren (AR)	141
072	Washington (AR)	143
073	White (AR)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 448		
Counties of Arkansas (AR)		FIPS Code
074	Woodruff (AR)	147
075	Yell (AR)	149

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
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	Districts/Islands of American Samoa (AS)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Arizona (AZ)	FIPS Code
01	Apache (AZ)	001
02	Cochise (AZ)	003
03	Coconino (AZ)	005
04	Gila (AZ)	007
05	Graham (AZ)	009
06	Greenlee (AZ)	011
07	Maricopa (AZ)	013
08	Mohave (AZ)	015
09	Navajo (AZ)	017
10	Pima (AZ)	019
11	Pinal (AZ)	021
12	Santa Cruz (AZ)	023
13	Yavapai (AZ)	025
14	Yuma (AZ)	027
15	La Paz (AZ)	012
19	Maricopa (AZ)	013
	County 07 (Maricopa) Overflow	
20	Pima (AZ)	019
	County 10 (Pima) Overflow	

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of California (CA)	FIPS Code
001	Alameda (CA)	001
002	Alpine (CA)	003
003	Amador (CA)	005
004	Butte (CA)	007
005	Calaveras (CA)	009
006	Colusa (CA)	011
007	Contra Costa (CA)	013
008	Del Norte (CA)	015
009	El Dorado (CA)	017
010	Fresno (CA)	019
011	Glenn (CA)	021
012	Humboldt (CA)	023
013	Imperial (CA)	025
014	Inyo (CA)	027
015	Kern (CA)	029
016	Kings (CA)	031
017	Lake (CA)	033
018	Lassen (CA)	035
019	Los Angeles (CA)	037
020	Madera (CA)	039
021	Marin (CA)	041
022	Mariposa (CA)	043
023	Mendocino (CA)	045
024	Merced (CA)	047
025	Modoc (CA)	049
026	Mono (CA)	051
027	Monterey (CA)	053
028	Napa (CA)	055
029	Nevada (CA)	057
030	Orange (CA)	059
031	Placer (CA)	061
032	Plumas (CA)	063
033	Riverside (CA)	065
034	Sacramento (CA)	067
035	San Benito (CA)	069
036	San Bernardino (CA)	071
037	San Diego (CA)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 453		
	Counties of California (CA)	FIPS Code
038	San Francisco (CA)	075
039	San Joaquin (CA)	077
040	San Luis Obispo (CA)	079
041	San Mateo (CA)	081
042	Santa Barbara (CA)	083
043	Santa Clara (CA)	085
044	Santa Cruz (CA)	087
045	Shasta (CA)	089
046	Sierra (CA)	091
047	Siskiyou (CA)	093
048	Solano (CA)	095
049	Sonoma (CA)	097
050	Stanislaus (CA)	099
051	Sutter (CA)	101
052	Tahama (CA)	103
053	Trinity (CA)	105
054	Tulare (CA)	107
055	Tuolumne (CA)	109
056	Ventura (CA)	111
057	Yolo (CA)	113
058	Yuba (CA)	115

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Colorado (CO)	FIPS Code
001	Adams (CO)	001
002	Alamosa (CO)	003
003	Arapahoe (CO)	005
004	Archuleta (CO)	007
005	Baca (CO)	009
006	Bent (CO)	011
007	Boulder (CO)	013
008	Chaffee (CO)	015
009	Cheyenne (CO)	017
010	Clear Creek (CO)	019
011	Conejos (CO)	021
012	Costilla (CO)	023
013	Crowley (CO)	025
014	Custer (CO)	027
015	Delta (CO)	029
016	Denver (CO)	031
017	Dolores (CO)	033
018	Douglas (CO)	035
019	Eagle (CO)	037
020	Elbert (CO)	039
021	El Paso (CO)	041
022	Fremont (CO)	043
023	Garfield (CO)	045
024	Gilpin (CO)	047
025	Grand (CO)	049
026	Gunnison (CO)	051
027	Hinsdale (CO)	053
028	Huerfano (CO)	055
029	Jackson (CO)	057
030	Jefferson (CO)	059
031	Kiowa (CO)	061
032	Kit Carson (CO)	063
033	Lake (CO)	065
034	La Plata (CO)	067
035	Larimer (CO)	069
036	Las Animas (CO)	071
037	Lincoln (CO)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 455		
Counties of Colorado (CO)		FIPS Code
038	Logan (CO)	075
039	Mesa (CO)	077
040	Mineral (CO)	079
041	Moffat (CO)	081
042	Montezuma (CO)	083
043	Montrose (CO)	085
044	Morgan (CO)	087
045	Otero (CO)	089
046	Ouray (CO)	091
047	Park (CO)	093
048	Phillips (CO)	095
049	Pitkin (CO)	097
050	Prowers (CO)	099
051	Pueblo (CO)	101
052	Rio Blanco (CO)	103
053	Rio Grande (CO)	105
054	Routt (CO)	107
055	Saguache (CO)	109
056	San Juan (CO)	111
057	San Miguel (CO)	113
058	Sedgwick (CO)	115
059	Summit (CO)	117
060	Teller (CO)	119
061	Washington (CO)	121
062	Weld (CO)	123
063	Yuma (CO)	125

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Connecticut (CT)	FIPS codes utilized - See Table 0509
	County Equivalent for the District of Columbia (DC)	FIPS codes utilized - See Table 0509
	Counties of Delaware (DE)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Florida (FL)	FIPS Code
01	Alachua (FL)	001
02	Baker (FL)	003
03	Bay (FL)	005
04	Bradford (FL)	007
05	Brevard (FL)	009
06	Broward (FL)	011
07	Calhoun (FL)	013
08	Charlotte (FL)	015
09	Citrus (FL)	017
10	Clay (FL)	019
11	Collier (FL)	021
12	Columbia (FL)	023
13	Dade (FL)	025
14	DeSoto (FL)	027
15	Dixie (FL)	029
16	Duval (FL)	031
17	Escambia (FL)	033
18	Flagler (FL)	035
19	Franklin (FL)	037
20	Gadsden (FL)	039
21	Gilchrist (FL)	041
22	Glades (FL)	043
23	Gulf (FL)	045
24	Hamilton (FL)	047
25	Hardee (FL)	049
26	Hendry (FL)	051
27	Hernando (FL)	053
28	Highlands (FL)	055
29	Hillsborough (FL)	057
30	Holmes (FL)	059
31	Indian River (FL)	061
32	Jackson (FL)	063
33	Jefferson (FL)	065
34	Lafayette (FL)	067
35	Lake (FL)	069
36	Lee (FL)	071
37	Leon (FL)	073

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Table 0506, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 458		
	Counties of Florida (FL)	FIPS Code
38	Levy (FL)	075
39	Liberty (FL)	077
40	Madison (FL)	079
41	Manatee (FL)	081
42	Marion (FL)	083
43	Martin (FL)	085
44	Monroe (FL)	087
45	Nassau (FL)	089
46	Okaloosa (FL)	091
47	Okeechobee (FL)	093
48	Orange (FL)	095
49	Osceola (FL)	097
50	Palm Beach (FL)	099
51	Pasco (FL)	101
52	Pinellas (FL)	103
53	Polk (FL)	105
54	Putnam (FL)	107
55	St Johns (FL)	109
56	St Lucie (FL)	111
57	Santa Rosa (FL)	113
58	Sarasota (FL)	115
59	Seminole (FL)	117
60	Sumter (FL)	119
61	Suwannee (FL)	121
62	Taylor (FL)	123
63	Union (FL)	125
64	Volusia (FL)	127
65	Wakulla (FL)	129
66	Walton (FL)	131
67	Washington (FL)	133

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	States of the Federated States of Micronesia (FM)	FIPS codes utilized - See Table 0509
	Counties of Georgia (GA)	FIPS codes utilized - See Table 0509
	County Equivalent for Guam (GU)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Hawaii (HI)	FIPS Code
001	Hawaii (HI)	001
002	Maui (HI)	009
	Maui includes Kalawao (HI)	005
003	Honolulu (HI)	003
004	Kauai (HI)	007

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Iowa (IA)	FIPS Code
01	Adair (IA)	001
02	Adams (IA)	003
03	Allamakee (IA)	005
04	Appanoose (IA)	007
05	Audubon (IA)	009
06	Benton (IA)	011
07	Black Hawk (IA)	013
08	Boone (IA)	015
09	Bremer (IA)	017
10	Buchanan (IA)	019
11	Buena Vista (IA)	021
12	Butler (IA)	023
13	Calhoun (IA)	025
14	Carroll (IA)	027
15	Cass (IA)	029
16	Cedar (IA)	031
17	Cerro Gordo (IA)	033
18	Cherokee (IA)	035
19	Chickasaw (IA)	037
20	Clarke (IA)	039
21	Clay (IA)	041
22	Clayton (IA)	043
23	Clinton (IA)	045
24	Crawford (IA)	047
25	Dalles (IA)	049
26	Davis (IA)	051
27	Decatur (IA)	053
28	Delaware (IA)	055
29	Des Moines (IA)	057
30	Dickinson (IA)	059
31	Dubuque (IA)	061
32	Emmet (IA)	063
33	Fayette (IA)	065
34	Floyd (IA)	067
35	Franklin (IA)	069
36	Fremont (IA)	071
37	Greene (IA)	073

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Table .0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 462		
	Counties of Iowa (IA)	FIPS Code
38	Grundy (IA)	075
39	Guthrie (IA)	077
40	Hamilton (IA)	079
41	Hancock (IA)	081
42	Hardin (IA)	083
43	Harrison (IA)	085
44	Henry (IA)	087
45	Howard (IA)	089
46	Humboldt (IA)	091
47	Ide (IA)	093
48	Iowa (IA)	095
49	Jackson (IA)	097
50	Jasper (IA)	099
51	Jefferson (IA)	101
52	Johnson (IA)	103
53	Jones (IA)	105
54	Keokuk (IA)	107
55	Kossuth (IA)	109
56	Lee (IA)	111
57	Linn (IA)	113
58	Louis (IA)	115
59	Lucas (IA)	117
60	Lyon (IA)	119
61	Madison (IA)	121
62	Mahaska (IA)	123
63	Marion (IA)	125
64	Marshall (IA)	127
65	Mills (IA)	129
66	Mitchell (IA)	131
67	Monona (IA)	133
68	Monroe (IA)	135
69	Montgomery (IA)	137
70	Muscatine (IA)	139
71	O'Brien (IA)	141
72	Osceola (IA)	143
73	Page (IA)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 462		
	Counties of Iowa (IA)	FIPS Code
74	Palo Alto (IA)	147
75	Plymouth (IA)	149
76	Pocahontas (IA)	151
77	Polk (IA)	153
78	Pottawattamie (IA)	155
79	Poweshiek (IA)	157
80	Ringgold (IA)	159
81	Sac (IA)	161
82	Scott (IA)	163
83	Shelby (IA)	165
84	Sioux (IA)	167
85	Story (IA)	169
86	Tama (IA)	171
87	Taylor (IA)	173
88	Union (IA)	175
89	Van Buren (IA)	177
90	Wapello (IA)	179
91	Warren (IA)	181
92	Washington (IA)	183
93	Wayne (IA)	185
94	Webster (IA)	187
95	Winnebago (IA)	189
96	Winnebago (IA)	191
97	Woodbury (IA)	193
98	Worth (IA)	195
99	Wright (IA)	197

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Idaho (ID)	FIPS codes utilized - See Table 0509
	Counties of Illinois (IL)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Indiana (IN)	FIPS Code
001	Adams (IN)	001
002	Allen (IN)	003
003	Bartholomew (IN)	005
004	Benton (IN)	007
005	Blackford (IN)	009
006	Boone (IN)	011
007	Brown (IN)	013
008	Carroll (IN)	015
009	Cass (IN)	017
010	Clark (IN)	019
011	Clay (IN)	021
012	Clinton (IN)	023
013	Crawford (IN)	025
014	Daviess (IN)	027
015	Dearborn (IN)	029
016	Decatur (IN)	031
017	De Kalb (IN)	033
018	Delaware (IN)	035
019	Dubois (IN)	037
020	Elkhart (IN)	039
021	Fayette (IN)	041
022	Floyd (IN)	043
023	Fountain (IN)	045
024	Franklin (IN)	047
025	Fulton (IN)	049
026	Gibson (IN)	051
027	Grant (IN)	053
028	Greene (IN)	055
029	Hamilton (IN)	057
030	Hancock (IN)	059
031	Harrison (IN)	061
032	Hendricks (IN)	063
033	Henry (IN)	065
034	Howard (IN)	067
035	Huntington (IN)	069
036	Jackson (IN)	071
037	Jasper (IN)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 466		
Counties of Indiana (IN)		FIPS Code
038	Jay (IN)	075
039	Jefferson (IN)	077
040	Jennings (IN)	079
041	Johnson (IN)	081
042	Knox (IN)	083
043	Kosciusko (IN)	085
044	LaGrange (IN)	087
045	Lake (IN)	089
046	La Porte (IN)	091
047	Lawrence (IN)	093
048	Madison (IN)	095
049	Marion (IN)	097
050	Marshall (IN)	099
051	Martin (IN)	101
052	Miami (IN)	103
053	Monroe (IN)	105
054	Montgomery (IN)	107
055	Morgan (IN)	109
056	Newton (IN)	111
057	Noble (IN)	113
058	Ohio (IN)	115
059	Orange (IN)	117
060	Owen (IN)	119
061	Parke (IN)	121
062	Perry (IN)	123
063	Pike (IN)	125
064	Porter (IN)	127
065	Posey (IN)	129
066	Pulaski (IN)	131
067	Putnam (IN)	133
068	Randolph (IN)	135
069	Ripley (IN)	137
070	Rush (IN)	139
071	St Joseph (IN)	141
072	Scott (IN)	143
073	Shelby (IN)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 466		
	Counties of Indiana (IN)	FIPS Code
074	Spencer (IN)	147
075	Starke (IN)	149
076	Steuben (IN)	151
077	Sullivan (IN)	153
078	Switzerland (IN)	155
079	Tippecanoe (IN)	157
080	Tipton (IN)	159
081	Union (IN)	161
082	Vanderburgh (IN)	163
083	Vermillion (IN)	165
084	Vigo (IN)	167
085	Wabash (IN)	169
086	Warren (IN)	171
087	Warrick (IN)	173
088	Washington (IN)	175
089	Wayne (IN)	177
090	Wells (IN)	179
091	White (IN)	181
092	Whitley (IN)	183

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
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	Counties of Kansas (KS)	FIPS codes utilized - See Table 0509.

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Kentucky (KY)	FIPS Code
001	Adair (KY)	001
002	Allen (KY)	003
003	Anderson (KY)	005
004	Ballard (KY)	007
005	Barren (KY)	009
006	Bath (KY)	011
007	Bell (KY)	013
008	Boone (KY)	015
009	Bourbon (KY)	017
010	Boyd (KY)	019
011	Boyle (KY)	021
012	Bracken (KY)	023
013	Breathitt (KY)	025
014	Breckinridge (KY)	027
015	Bullitt (KY)	029
016	Butler (KY)	031
017	Caldwell (KY)	033
018	Calloway (KY)	035
019	Campbell (KY)	037
020	Carlisle (KY)	039
021	Carroll (KY)	041
022	Carter (KY)	043
023	Casey (KY)	045
024	Christian (KY)	047
025	Clark (KY)	049
026	Clay (KY)	051
027	Clinton (KY)	053
028	Crittenden (KY)	055
029	Cumberland (KY)	057
030	Daviess (KY)	059
031	Edmonson (KY)	061
032	Elliott (KY)	063
033	Estill (KY)	065
034	Fayette (KY)	067
035	Fleming (KY)	069
036	Floyd (KY)	071
037	Franklin (KY)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 470		
	Counties of Kentucky (KY)	FIPS Code
038	Fulton (KY)	075
039	Gallatin (KY)	077
040	Garrard (KY)	079
041	Grant (KY)	081
042	Graves (KY)	083
043	Grayson (KY)	085
044	Green (KY)	087
045	Greenup (KY)	089
046	Hancock (KY)	091
047	Hardin (KY)	093
048	Harlan (KY)	095
049	Harrison (KY)	097
050	Hart (KY)	099
051	Henderson (KY)	101
052	Henry (KY)	103
053	Hickman (KY)	105
054	Hopkins (KY)	107
055	Jackson (KY)	109
056	Jefferson (KY)	111
057	Jessamine (KY)	113
058	Johnson (KY)	115
059	Kenton (KY)	117
060	Knott (KY)	119
061	Knox (KY)	121
062	LaRue (KY)	123
063	Laurel (KY)	125
064	Lawrence (KY)	127
065	Lee (KY)	129
066	Leslie (KY)	131
067	Letcher (KY)	133
068	Lewis (KY)	135
069	Lincoln (KY)	137
070	Livingston (KY)	139
071	Logan (KY)	141
072	Lyon (KY)	143
073	McCracken (KY)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 470		
Counties of Kentucky (KY)		FIPS Code
074	McCreary (KY)	147
075	McLean (KY)	149
076	Madison (KY)	151
077	Magoffin (KY)	153
078	Marion (KY)	155
079	Marshall (KY)	157
080	Martin (KY)	159
081	Mason (KY)	161
082	Meade (KY)	163
083	Menifee (KY)	165
084	Mercer (KY)	167
085	Metcalf (KY)	169
086	Monroe (KY)	171
087	Montgomery (KY)	173
088	Morgan (KY)	175
089	Muhlenberg (KY)	177
090	Nelson (KY)	179
091	Nicholas (KY)	181
092	Ohio (KY)	183
093	Oldham (KY)	185
094	Owen (KY)	187
095	Owsley (KY)	189
096	Pendleton (KY)	191
097	Perry (KY)	193
098	Pike (KY)	195
099	Powell (KY)	197
100	Pulaski (KY)	199
101	Robertson (KY)	201
102	Rockcastle (KY)	203
103	Rowan (KY)	205
104	Russell (KY)	207
105	Scott (KY)	209
106	Shelby (KY)	211
107	Simpson (KY)	213
108	Spencer (KY)	215
109	Taylor (KY)	217

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 470		
Counties of Kentucky (KY)		FIPS Code
110	Todd (KY)	219
111	Trigg (KY)	221
112	Trimble (KY)	223
113	Union (KY)	225
114	Warren (KY)	227
115	Washington (KY)	229
116	Wayne (KY)	231
117	Webster (KY)	233
118	Whitley (KY)	235
119	Wolfe (KY)	237
120	Woodford (KY)	239

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Parishes of Louisiana (LA)	FIPS codes utilized - See Table 0509
	Counties of Massachusetts (MA).	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Counties of Maryland (MD)		FIPS Code
001	Allegany (MD)	001
002	Anne Arundel (MD)	003
003	Baltimore (MD)	005
004	Calvert (MD)	009
005	Caroline (MD)	011
006	Carroll (MD)	013
007	Cecil (MD)	015
008	Charles (MD)	017
009	Dorchester (MD)	019
010	Frederick (MD)	021
011	Garrett (MD)	023
012	Harford (MD)	025
013	Howard (MD)	027
014	Kent (MD)	029
015	Montgomery (MD)	031
016	Prince George's (MD)	033
017	Queen Anne's (MD)	035
018	St Mary's (MD)	037
019	Somerset (MD)	039
020	Talbot (MD)	041
021	Washington (MD)	043
022	Wicomico (MD)	045
023	Worcester (MD)	047
Independent Cities of Maryland (MD)		FIPS Code
030	Baltimore City (MD)	510

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Maine (ME)	FIPS codes utilized - See Table 0509
	Municipalities/Islands/Atolls of the Republic of the Marshall Islands (MH)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Michigan (MI)	FIPS Code
001	Alcona (MI)	001
002	Alger (MI)	003
003	Allegan (MI)	005
004	Alpena (MI)	007
005	Antrim (MI)	009
006	Arenac (MI)	011
007	Baraga (MI)	013
008	Barry (MI)	015
009	Bay (MI)	017
010	Benzie (MI)	019
011	Berrien (MI)	021
012	Branch (MI)	023
013	Calhoun (MI)	025
014	Cass (MI)	027
015	Charlevoix (MI)	029
016	Cheboygan (MI)	031
017	Chippewa (MI)	033
018	Clare (MI)	035
019	Clinton (MI)	037
020	Crawford (MI)	039
021	Delta (MI)	041
022	Dickinson (MI)	043
023	Eaton (MI)	045
024	Emmet (MI)	047
025	Genesee (MI)	049
026	Gladwin (MI)	051
027	Gogebic (MI)	053
028	Grand Traverse (MI)	055
029	Gratiot (MI)	057
030	Hillsdale (MI)	059
031	Houghton (MI)	061
032	Huron (MI)	063
033	Ingham (MI)	065
034	Ionia (MI)	067
035	Iosco (MI)	069
036	Iron (MI)	071
037	Isabella (MI)	073

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Table 0508. State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 477		
	Counties of Michigan (MI)	FIPS Code
038	Jackson (MI)	075
039	Kalamazoo (MI)	077
040	Kalamazoo (MI)	079
041	Kent (MI)	081
042	Keweenaw (MI)	083
043	Lake (MI)	085
044	LaPeer (MI)	087
045	Leelanau (MI)	089
046	Lenawee (MI)	091
047	Livingston (MI)	093
048	Luce (MI)	095
049	Mackinac (MI)	097
050	Mecomb (MI)	099
051	Manistee (MI)	101
052	Marquette (MI)	103
053	Mason (MI)	105
054	Mecosta (MI)	107
055	Menominee (MI)	109
056	Midland (MI)	111
057	Missaukee (MI)	113
058	Monroe (MI)	115
059	Montcalm (MI)	117
060	Montmorency (MI)	119
061	Muskegon (MI)	121
062	Newaygo (MI)	123
063	Oakland (MI)	125
064	Oceana (MI)	127
065	Ogemaw (MI)	129
066	Ontonagon (MI)	131
067	Osceola (MI)	133
068	Oscoda (MI)	135
069	Otsego (MI)	137
070	Ottawa (MI)	139
071	Presque Isle (MI)	141
072	Roscommon (MI)	143
073	Saginaw (MI)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 477		
	Counties of Michigan (MI)	FIPS Code
074	St Clair (MI)	147
075	St Joseph (MI)	149
076	Sanilac (MI)	151
077	Schoolcraft (MI)	153
078	Shiawassee (MI)	155
079	Tuscola (MI)	157
080	Van Buren (MI)	159
081	Washtenaw (MI)	161
082	Wayne (MI)	163
083	Wexford (MI)	165

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Minnesota (MN)	FIPS codes utilized - See Table 0509
	Counties of Missouri (MO)	FIPS codes utilized - See Table 0509
	Independent Cities of Missouri (MO)	FIPS codes utilized - See Table 0509
	Municipalities of the Northern Mariana Islands (MP)	FIPS codes utilized - See Table 0509
	Counties of Mississippi (MS)	FIPS codes utilized - See Table 0509
	Counties of Montana (MT)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of North Carolina (NC)	FIPS Code
000	Yancey (NC)	199
001	Alamance (NC)	001
002	Alexander (NC)	003
003	Alleghany (NC)	005
004	Anson (NC)	007
005	Ashe (NC)	009
006	Avery (NC)	011
007	Beaufort (NC)	013
008	Bertie (NC)	015
009	Bladen (NC)	017
010	Brunswick (NC)	019
011	Buncombe (NC)	021
012	Burke (NC)	023
013	Cabarrus (NC)	025
014	Caldwell (NC)	027
015	Camden (NC)	029
016	Carteret (NC)	031
017	Caswell (NC)	033
018	Catawba (NC)	035
019	Chatham (NC)	037
020	Cherokee (NC)	039
021	Chowan (NC)	041
022	Clay (NC)	043
023	Cleveland (NC)	045
024	Columbus (NC)	047
025	Craven (NC)	049
026	Cumberland (NC)	051
027	Currituck (NC)	053
028	Dare (NC)	055
029	Davidson (NC)	057
030	Davie (NC)	059
031	Duplin (NC)	061
032	Durham (NC)	063
033	Edgecombe (NC)	065
034	Forsyth (NC)	067
035	Franklin (NC)	069
036	Gaston (NC)	071

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 481		
	Counties of North Carolina (NC)	FIPS Code
037	Gates (NC)	073
038	Graham (NC)	075
039	Granville (NC)	077
040	Greene (NC)	079
041	Guilford (NC)	081
042	Halifax (NC)	083
043	Harnett (NC)	085
044	Haywood (NC)	087
045	Henderson (NC)	089
046	Hertford (NC)	091
047	Hoke (NC)	093
048	Hyde (NC)	095
049	Iredell (NC)	097
050	Jackson (NC)	099
051	Johnston (NC)	101
052	Jones (NC)	103
053	Lee (NC)	105
054	Lenoir (NC)	107
055	Lincoln (NC)	109
056	McDowell (NC)	111
057	Macon (NC)	113
058	Madison (NC)	115
059	Martin (NC)	117
060	Mecklenburg (NC)	119
061	Mitchell (NC)	121
062	Montgomery (NC)	123
063	Moore (NC)	125
064	Nash (NC)	127
065	New Hanover (NC)	129
066	Northampton (NC)	131
067	Onslow (NC)	133
068	Orange (NC)	135
069	Pamlico (NC)	137
070	Pasquotank (NC)	139
071	Pender (NC)	141
072	Perquimans (NC)	143

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 481		
	Counties of North Carolina (NC)	FIPS Code
073	Person (NC)	145
074	Pitt (NC)	147
075	Polk (NC)	149
076	Randolph (NC)	151
077	Richmond (NC)	153
078	Robeson (NC)	155
079	Rockingham (NC)	157
080	Rowan (NC)	159
081	Rutherford (NC)	161
082	Sampson (NC)	163
083	Scotland (NC)	165
084	Stanly (NC)	167
085	Stokes (NC)	169
086	Surry (NC)	171
087	Swain (NC)	173
088	Transylvania (NC)	175
089	Tyrrell (NC)	177
090	Union (NC)	179
091	Vance (NC)	181
092	Wake (NC)	183
093	Warren (NC)	185
094	Washington (NC)	187
095	Watauga (NC)	189
096	Wayne (NC)	191
097	Wilkes (NC)	193
098	Wilson (NC)	195
099	Yadkin (NC)	197

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of North Dakota (ND)	FIPS Code
001	Adams (ND)	001
002	Barnes (ND)	003
003	Benson (ND)	005
004	Billings (ND)	007
005	Bottineau (ND)	009
006	Bowman (ND)	011
007	Burke (ND)	013
008	Burleigh (ND)	015
009	Cass (ND)	017
010	Cavalier (ND)	019
011	Dickey (ND)	021
012	Divide (ND)	023
013	Dunn (ND)	025
014	Eddy (ND)	027
015	Emons (ND)	029
016	Foster (ND)	031
017	Golden Valley (ND)	033
018	Grand Forks (ND)	035
019	Grant (ND)	037
020	Griggs (ND)	039
021	Hettinger (ND)	041
022	Kidder (ND)	043
023	LaMoure (ND)	045
024	Logan (ND)	047
025	McHenry (ND)	049
026	McIntosh (ND)	051
027	McKenzie (ND)	053
028	McLean (ND)	055
029	Mercer (ND)	057
030	Morton (ND)	059
031	Mountrail (ND)	061
032	Nelson (ND)	063
033	Oliver (ND)	065
034	Pembina (ND)	067
035	Pierce (ND)	069
036	Ramsey (ND)	071
037	Ransom (ND)	073

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Table 0508. State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 484		
Counties of North Dakota (ND)		FIPS Code
038	Renville (ND)	075
039	Richland (ND)	077
040	Rolette (ND)	079
041	Sargent (ND)	081
042	Sheridan (ND)	083
043	Sioux (ND)	085
044	Slope (ND)	087
045	Stark (ND)	089
046	Steele (ND)	091
047	Stutsman (ND)	093
048	Towner (ND)	095
049	Traill (ND)	097
050	Walsh (ND)	099
051	Ward (ND)	101
052	Wells (ND)	103
053	Williams (ND)	105

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Table 0508, State-specific County Codes

Code Value	Associated Description~	Comment(s)
	Counties of Nebraska (NE)	FIPS Code
01	Adams (NE)	001
02	Antelope (NE)	003
03	Arthur (NE)	005
04	Banner (NE)	007
05	Blaine (NE)	009
06	Boone (NE)	011
07	Box Butte (NE)	013
08	Boyd (NE)	015
09	Brown (NE)	017
10	Buffalo (NE)	019
11	Burt (NE)	021
12	Butler (NE)	023
13	Cass (NE)	025
14	Cedar (NE)	027
15	Chase (NE)	029
16	Cherry (NE)	031
17	Cheyenne (NE)	033
18	Clay (NE)	035
19	Colfax (NE)	037
20	Cuming (NE)	039
21	Custer (NE)	041
22	Dakota (NE)	043
23	Dawes (NE)	045
24	Dawson (NE)	047
25	Deuel (NE)	049
26	Dixon (NE)	051
27	Dodge (NE)	053
28	Douglas (NE)	055
29	Dundy (NE)	057
30	Fillmore (NE)	059
31	Franklin (NE)	061
32	Frontier (NE)	063
33	Furnas (NE)	065
34	Gage (NE)	067
35	Garden (NE)	069
36	Garfield (NE)	071
37	Gosper (NE)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 486		
	Counties of Nebraska (NE)	FIPS Code
38	Grant (NE)	075
39	Greeley (NE)	077
40	Hall (NE)	079
41	Hamilton (NE)	081
42	Harlan (NE)	083
43	Hayes (NE)	085
44	Hitchcock (NE)	087
45	Holt (NE)	089
46	Hooker (NE)	091
47	Howard (NE)	093
48	Jefferson (NE)	095
49	Johnson (NE)	097
50	Kearney (NE)	099
51	Keith (NE)	101
52	Keya Paha (NE)	103
53	Kimball (NE)	105
54	Knox (NE)	107
55	Lancaster (NE)	109
56	Lincoln (NE)	111
57	Logan (NE)	113
58	Loup (NE)	115
59	Madison (NE)	119
60	McPherson (NE)	117
61	Merrick (NE)	121
62	Morrill (NE)	123
63	Nance (NE)	125
64	Nemaha (NE)	127
65	Nuckolls (NE)	129
66	Otoe (NE)	131
67	Pawnee (NE)	133
68	Perkins (NE)	135
69	Phelps (NE)	137
70	Pierce (NE)	139
71	Platte (NE)	141
72	Polk (NE)	143
73	Red Willow (NE)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 486		
Counties of Nebraska (NE)		FIPS Code
74	Richardson (NE)	147
75	Rock (NE)	149
76	Saline (NE)	151
77	Sarpy (NE)	153
78	Saunders (NE)	155
79	Scotts Bluff (NE)	157
80	Seward (NE)	159
81	Sheridan (NE)	161
82	Sherman (NE)	163
83	Sioux (NE)	165
84	Stanton (NE)	167
85	Thayer (NE)	169
86	Thomas (NE)	171
87	Thurston (NE)	173
88	Valley (NE)	175
89	Washington (NE)	177
90	Wayne (NE)	179
91	Webster (NE)	181
92	Wheeler (NE)	183
93	York (NE)	185

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of New Hampshire (NH)	FIPS codes utilized - See Table 0509
	Counties of New Jersey (NJ)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of New Mexico (NM)	FIPS Code
01	Bernalillo (NM)	001
02	Catron (NM)	003
03	Chaves (NM)	005
04	Colfax (NM)	007
05	Curry (NM)	009
06	DeSaca (NM)	011
07	Dona Ana (NM)	013
08	Eddy (NM)	015
09	Grant (NM)	017
10	Guadalupe (NM)	019
11	Harding (NM)	021
12	Hidalgo (NM)	023
13	Lea (NM)	025
14	Lincoln (NM)	027
15	Los Alamos (NM)	028
16	Luna (NM)	029
17	McKinley (NM)	031
18	Mora (NM)	033
19	Otero (NM)	035
20	Quay (NM)	037
21	Rio Arriba (NM)	039
22	Roosevelt (NM)	041
23	Sandoval (NM)	043
24	San Juan (NM)	045
25	San Miguel (NM)	047
26	Santa Fe (NM)	049
27	Sierra (NM)	051
28	Socorro (NM)	053
29	Taos (NM)	055
30	Torrance (NM)	057
31	Union (NM)	059
32	Valencia (NM)	061
33	Cibola (NM)	006

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Nevada (NV)	FIPS codes utilized - See Table 0509
	Independent Cities of Nevada (NV)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of New York (NY)	FIPS Code
001	Albany (NY)	001
002	Allegany (NY)	003
003	Broome (NY)	007
004	Cattaraugus (NY)	009
005	Cayuga (NY)	011
006	Chautauqua (NY)	013
007	Chemung (NY)	015
008	Chenango (NY)	017
009	Clinton (NY)	019
010	Columbia (NY)	021
011	Cortland (NY)	023
012	Delaware (NY)	025
013	Dutchess (NY)	027
014	Erie (NY)	029
015	Essex (NY)	031
016	Franklin (NY)	033
017	Fulton (NY)	035
018	Genesee (NY)	037
019	Greene (NY)	039
020	Hamilton (NY)	041
021	Herkimer (NY)	043
022	Jefferson (NY)	045
023	Kings (NY)	047
024	Lewis (NY)	049
025	Livingston (NY)	051
026	Madison (NY)	053
027	Monroe (NY)	055
028	Montgomery (NY)	057
029	Nassau (NY)	059
030	New York (NY)	061
031	Niagara (NY)	063
032	Oneida (NY)	065
033	Onondaga (NY)	067
034	Ontario (NY)	069
035	Orange (NY)	071
036	Orleans (NY)	073
037	Oswego (NY)	075

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Table 0506, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 492		
Counties of New York (NY)		FIPS Code
038	Otsego (NY)	077
039	Putnam (NY)	079
040	Queens (NY)	081
041	Rensselaer (NY)	083
042	Richmond (NY)	085
043	Rockland (NY)	087
044	St Lawrence (NY)	089
045	Saratoga (NY)	091
046	Schenectady (NY)	093
047	Schoharie (NY)	095
048	Schuyler (NY)	097
049	Seneca (NY)	099
050	Steuben (NY)	101
051	Suffolk (NY)	103
052	Sullivan (NY)	105
053	Tioga (NY)	107
054	Tompkins (NY)	109
055	Ulster (NY)	111
056	Warren (NY)	113
057	Washington (NY)	115
058	Wayne (NY)	117
059	Westchester (NY)	119
060	Wyoming (NY)	121
061	Yates (NY)	123
999	Bronx (NY)	005

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Ohio (OH)	FIPS Code
001	Adams (OH)	001
002	Allen (OH)	003
003	Ashland (OH)	005
004	Ashtabula (OH)	007
005	Athens (OH)	009
006	Auglaize (OH)	011
007	Belmont (OH)	013
008	Brown (OH)	015
009	Butler (OH)	017
010	Carroll (OH)	019
011	Champaign (OH)	021
012	Clark (OH)	023
013	Clermont (OH)	025
014	Clinton (OH)	027
015	Columbiana (OH)	029
016	Coshocton (OH)	031
017	Crawford (OH)	033
018	Cuyahoga (OH)	035
019	Darke (OH)	037
020	Defiance (OH)	039
021	Delaware (OH)	041
022	Erie (OH)	043
023	Fairfield (OH)	045
024	Fayette (OH)	047
025	Franklin (OH)	049
026	Fulton (OH)	051
027	Gallia (OH)	053
028	Geauga (OH)	055
029	Greene (OH)	057
030	Guernsey (OH)	059
031	Hamilton (OH)	061
032	Hancock (OH)	063
033	Hardin (OH)	065
034	Harrison (OH)	067
035	Henry (OH)	069
036	Highland (OH)	071
037	Hocking (OH)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 494		
	Counties of Ohio (OH)	FIPS Code
038	Holmes (OH)	075
039	Huron (OH)	077
040	Jackson (OH)	079
041	Jefferson (OH)	081
042	Knox (OH)	083
043	Lake (OH)	085
044	Lawrence (OH)	087
045	Licking (OH)	089
046	Logan (OH)	091
047	Lorain (OH)	093
048	Lucas (OH)	095
049	Madison (OH)	097
050	Mahoning (OH)	099
051	Marion (OH)	101
052	Medina (OH)	103
053	Meigs (OH)	105
054	Mercer (OH)	107
055	Miami (OH)	109
056	Monroe (OH)	111
057	Montgomery (OH)	113
058	Morgan (OH)	115
059	Morrow (OH)	117
060	Muskingum (OH)	119
061	Noble (OH)	121
062	Ottawa (OH)	123
063	Paulding (OH)	125
064	Perry (OH)	127
065	Pickaway (OH)	129
066	Pike (OH)	131
067	Portage (OH)	133
068	Preble (OH)	135
069	Putnam (OH)	137
070	Richland (OH)	139
071	Ross (OH)	141
072	Sandusky (OH)	143
073	Scioto (OH)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 494		
Counties of Ohio (OH)		FIPS Code
074	Seneca (OH)	147
075	Shelby (OH)	149
076	Stark (OH)	151
077	Summit (OH)	153
078	Trumbull (OH)	155
079	Tuscarawas (OH)	157
080	Union (OH)	159
081	Van Wert (OH)	161
082	Vinton (OH)	163
083	Warren (OH)	165
084	Washington (OH)	167
085	Wayne (OH)	169
086	Williams (OH)	171
087	Wood (OH)	173
088	Wyandot (OH)	175

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Oklahoma (OK)	FIPS Code
001	Adair (OK)	001
002	Alfalfa (OK)	003
003	Atoka (OK)	005
004	Beaver (OK)	007
005	Beckham (OK)	009
006	Blaine (OK)	011
007	Bryan (OK)	013
008	Caddo (OK)	015
009	Canadian (OK)	017
010	Carter (OK)	019
011	Cherokee (OK)	021
012	Choctaw (OK)	023
013	Cimarron (OK)	025
014	Cleveland (OK)	027
015	Coal (OK)	029
016	Comanche (OK)	031
017	Cotton (OK)	033
018	Craig (OK)	035
019	Creek (OK)	037
020	Custer (OK)	039
021	Delaware (OK)	041
022	Dewey (OK)	043
023	Ellis (OK)	045
024	Garfield (OK)	047
025	Garvin (OK)	049
026	Grady (OK)	051
027	Grant (OK)	053
028	Greer (OK)	055
029	Harmon (OK)	057
030	Harper (OK)	059
031	Haskell (OK)	061
032	Hughes (OK)	063
033	Jackson (OK)-	065
034	Jefferson (OK)	067
035	Johnston (OK)	069
036	Key (OK)	071
037	Kingfisher (OK)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 497		
	Counties of Oklahoma (OK)	FIPS Code
038	Kiowa (OK)	075
039	Latimer (OK)	077
040	Le Flore (OK)	079
041	Lincoln (OK)	081
042	Logan (OK)	083
043	Love (OK)	085
044	Major (OK)	093
045	Marshall (OK)	095
046	Mayes (OK)	097
047	McClain (OK)	087
048	McCurtain (OK)	089
049	McIntosh (OK)	091
050	Murray (OK)	099
051	Muskogee (OK)	101
052	Noble (OK)	103
053	Nowata (OK)	105
054	Okfuskee (OK)	107
055	Oklahoma (OK)	109
056	Okmulgee (OK)	111
057	Osage (OK)	113
058	Ottawa (OK)	115
059	Pawnee (OK)	117
060	Payne (OK)	119
061	Pittsburg (OK)	121
062	Pontotoc (OK)	123
063	Pottawatomie (OK)	125
064	Pushmataha (OK)	127
065	Roger Mills (OK)	129
066	Rogers (OK)	131
067	Seminole (OK)	133
068	Sequoyah (OK)	135
069	Stephens (OK)	137
070	Texas (OK)	139
071	Tillman (OK)	141
072	Tulsa (OK)	143
073	Wagoner (OK)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 497		
Counties of Oklahoma (OK)		FIPS Code
074	Washington (OK)	147
075	Washita (OK)	149
076	Woods (OK)	151
077	Woodward (OK)	153

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Oregon (OR)	FIPS Code
001	Baker (OR)	001
002	Benton (OR)	003
003	Clackamas (OR)	005
004	Clatsop (OR)	007
005	Columbia (OR)	009
006	Coos (OR)	011
007	Crook (OR)	013
008	Curry (OR)	015
009	Deschutes (OR)	017
010	Douglas (OR)	019
011	Gilliam (OR)	021
012	Grant (OR)	023
013	Harney (OR)	025
014	Hood River (OR)	027
015	Jackson (OR)	029
016	Jefferson (OR)	031
017	Josephine (OR)	033
018	Klamath (OR)	035
019	Lake (OR)	037
020	Lane (OR)	039
021	Lincoln (OR)	041
022	Linn (OR)	043
023	Malheur (OR)	045
024	Marion (OR)	047
025	Morrow (OR)	049
026	Multnomah (OR)	051
027	Polk (OR)	053
028	Sherman (OR)	055
029	Tillamook (OR)	057
030	Umatilla (OR)	059
031	Union (OR)	061
032	Wallowa (OR)	063
033	Wasco (OR)	065
034	Washington (OR)	067
035	Wheeler (OR)	069
036	Yamhill (OR)	071

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Pennsylvania (PA)	FIPS codes utilized - See Table 0509
	Municipios of Puerto Rico (PR)	FIPS codes utilized - See Table 0509
	States of the Republic of Palau (PW)	FIPS codes utilized - See Table 0509
	Counties of Rhode Island (RI)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of South Carolina (SC)	FIPS Code
01	Abbeville (SC)	001
02	Aiken (SC)	003
03	Allendale (SC)	005
04	Anderson (SC)	007
05	Bamberg (SC)	009
06	Barnwell (SC)	011
07	Beaufort (SC)	013
08	Berkeley (SC)	015
09	Calhoun (SC)	017
10	Charleston (SC)	019
11	Cherokee (SC)	021
12	Chester (SC)	023
13	Chesterfield (SC)	025
14	Clarendon (SC)	027
15	Colleton (SC)	029
16	Darlington (SC)	031
17	Dillon (SC)	033
18	Dorchester (SC)	035
19	Edgefield (SC)	037
20	Fairfield (SC)	039
21	Florence (SC)	041
22	Georgetown (SC)	043
23	Greenville (SC)	045
24	Greenwood (SC)	047
25	Hampton (SC)	049
26	Horry (SC)	051
27	Jasper (SC)	053
28	Kershaw (SC)	055
29	Lancaster (SC)	057
30	Laurens (SC)	059
31	Lee (SC)	061
32	Lexington (SC)	063
33	Marion (SC)	067
34	Marlboro (SC)	069
35	McCormick (SC)	065
36	Newberry (SC)	071
37	Oconee (SC)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 502		
Counties of South Carolina (SC)		FIPS Code
38	Orangeburg (SC)	075
39	Pickens (SC)	077
40	Richland (SC)	079
41	Saluda (SC)	081
42	Spartanburg (SC)	083
43	Sumter (SC)	085
44	Union (SC)	087
45	Williamsburg (SC)	089
46	York (SC)	091

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of South Dakota (SD)	FIPS Code
AU	Aurora (SD)	003
BD	Beadle (SD)	005
BF	Buffalo (SD)	017
BG	Brookings (SD)	011
BH	Bon Homme (SD)	009
BL	Brule (SD)	015
BN	Brown (SD)	013
BT	Bennett (SD)	007
BU	Butte (SD)	019
CA	Campbell (SD)	021
CD	Codington (SD)	029
CK	Clark (SD)	025
CL	Clay (SD)	027
CM	Charles Mix (SD)	023
CN	Corson (SD)	031
CU	Custer (SD)	033
DA	Day (SD)	037
DG	Douglas (SD)	043
DN	Davison (SD)	035
DU	Deuel (SD)	039
DW	Dewey (SD)	041
ED	Edmunds (SD)	045
FA	Faulk (SD)	049
FR	Fall River (SD)	047
GT	Grant (SD)	051
GY	Gregory (SD)	053
HD	Hand (SD)	059
HK	Haakon (SD)	055
HM	Hamlin (SD)	057
HR	Harding (SD)	063
HS	Hanson (SD)	061
HT	Hutchinson (SD)	067
HU	Hughes (SD)	065
HY	Hyde (SD)	069
JA	Jackson (SD)	071
JE	Jerauld (SD)	073
JN	Jones (SD)	075

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 504		
	Counties of South Dakota (SD)	FIPS Code
KG	Kingsbury (SD)	077
LA	Lawrence (SD)	081
LK	Lake (SD)	079
LN	Lincoln (SD)	083
LY	Lyman (SD)	085
MA	Minnehaha (SD)	099
MC	McCook (SD)	087
MD	Meade (SD)	093
ML	Marshall (SD)	091
MP	McPherson (SD)	089
MR	Miner (SD)	097
MT	Mellette (SD)	095
MY	Moody (SD)	101
PE	Pennington (SD)	103
PK	Perkins (SD)	105
PT	Potter (SD)	107
RB	Roberts (SD)	109
SA	Sanborn (SD)	111
SN	Shannon (SD)	113
SP	Spink (SD)	115
ST	Stanley (SD)	117
SU	Sully (SD)	119
TD	Todd (SD)	121
TR	Tripp (SD)	123
TU	Turner (SD)	125
UN	Union (SD)	127
WL	Walworth (SD)	129
YA	Yankton (SD)	135
ZB	Ziebach (SD)	137

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Tennessee (TN)	FIPS codes utilized - See Table 0509

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Texas (TX)	FIPS Code
001	Anderson (TX)	001
002	Andrews (TX)	003
003	Angelina (TX)	005
004	Arenas (TX)	007
005	Archer (TX)	009
006	Armstrong (TX)	011
007	Atascosa (TX)	013
008	Austin (TX)	015
009	Bailey (TX)	017
010	Bandera (TX)	019
011	Bastrop (TX)	021
012	Baylor (TX)	023
013	Bee (TX)	025
014	Bell (TX)	027
015	Bexar (TX)	029
016	Blanco (TX)	031
017	Borden (TX)	033
018	Bosque (TX)	035
019	Bowie (TX)	037
020	Brazoria (TX)	039
021	Brazos (TX)	041
022	Brewster (TX)	043
023	Briscoe (TX)	045
024	Brooks (TX)	047
025	Brown (TX)	049
026	Burleson (TX)	051
027	Burnet (TX)	053
028	Caldwell (TX)	055
029	Calhoun (TX)	057
030	Callahan (TX)	059
031	Cameron (TX)	061
032	Camp (TX)	063
033	Carson (TX)	065
034	Cass (TX)	067
035	Castro (TX)	069
036	Chambers (TX)	071
037	Cherokee (TX)	073

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 507		
	Counties of Texas (TX)	FIPS Code
038	Childress (TX)	075
039	Clay (TX)	077
040	Cochran (TX)	079
041	Coke (TX)	081
042	Coleman (TX)	083
043	Collin (TX)	085
044	Collingsworth (TX)	087
045	Colorado (TX)	089
046	Comal (TX)	091
047	Comanche (TX)	093
048	Concho (TX)	095
049	Cooke (TX)	097
050	Coryell (TX)	099
051	Cottle (TX)	101
052	Crane (TX)	103
053	Crockett (TX)	105
054	Crosby (TX)	107
055	Culberson (TX)	109
056	Dallas (TX)	111
057	Dallas (TX)	113
058	Dawson (TX)	115
059	Deaf Smith (TX)	117
060	Delta (TX)	119
061	Denton (TX)	121
062	DeWitt (TX)	123
063	Dickens (TX)	125
064	Dimmit (TX)	127
065	Donley (TX)	129
066	Duval (TX)	131
067	Eastland (TX)	133
068	Ector (TX)	135
069	Edwards (TX)	137
070	Ellis (TX)	139
071	El Paso (TX)	141
072	Erath (TX)	143
073	Falls (TX)	145

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 507		
	Counties of Texas (TX)	FIPS Code
074	Fannin (TX)	147
075	Fayette (TX)	149
076	Fisher (TX)	151
077	Floyd (TX)	153
078	Foard (TX)	155
079	Fort Bend (TX)	157
080	Franklin (TX)	159
081	Freestone (TX)	161
082	Frio (TX)	163
083	Gaines (TX)	165
084	Galveston (TX)	167
085	Garza (TX)	169
086	Gillespie (TX)	171
087	Glasscock (TX)	173
088	Goliad (TX)	175
089	Gonzales (TX)	177
090	Gray (TX)	179
091	Grayson (TX)	181
092	Gregg (TX)	183
093	Grimes (TX)	185
094	Guadalupe (TX)	187
095	Hale (TX)	189
096	Hall (TX)	191
097	Hamilton (TX)	193
098	Hansford (TX)	195
099	Hardeman (TX)	197
100	Hardin (TX)	199
101	Harris (TX)	201
102	Harrison (TX)	203
103	Hartley (TX)	205
104	Haskell (TX)	207
105	Hays (TX)	209
106	Hemphill (TX)	211
107	Henderson (TX)	213
108	Hidalgo (TX)	215
109	Hill (TX)	217

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 507		
	Counties of Texas (TX)	FIPS Code
110	Hockley (TX)	219
111	Hood (TX)	221
112	Hopkins (TX)	223
113	Houston (TX)	225
114	Howard (TX)	227
115	Hudspeth (TX)	229
116	Hunt (TX)	231
117	Hutchinson (TX)	233
118	Irion (TX)	235
119	Jack (TX)	237
120	Jackson (TX)	239
121	Jasper (TX)	241
122	Jeff Davis (TX)	243
123	Jefferson (TX)	245
124	Jim Hogg (TX)	247
125	Jim Wells (TX)	249
126	Johnson (TX)	251
127	Jones (TX)	253
128	Karnes (TX)	255
129	Kaufman (TX)	257
130	Kendall (TX)	259
131	Kenedy (TX)	261
132	Kent (TX)	263
133	Kerr (TX)	265
134	Kimble (TX)	267
135	King (TX)	269
136	Kinney (TX)	271
137	Kleberg (TX)	273
138	Knox (TX)	275
139	Lamar (TX)	277
140	Lamb (TX)	279
141	Lampasas (TX)	281
142	La Salle (TX)	283
143	Lavaca (TX)	285
144	Lee (TX)	287
145	Leon (TX)	289

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 507		
	Counties of Texas (TX)	FIPS Code
146	Liberty (TX)	291
147	Limestone (TX)	293
148	Lipscomb (TX)	295
149	Live Oak (TX)	297
150	Llano (TX)	299
151	Loving (TX)	301
152	Lubbock (TX)	303
153	Lynn (TX)	305
154	McCulloch (TX)	307
155	McLennan (TX)	309
156	McMullen (TX)	311
157	Madison (TX)	313
158	Marion (TX)	315
159	Martin (TX)	317
160	Mason (TX)	319
161	Matagorda (TX)	321
162	Maverick (TX)	323
163	Medina (TX)	325
164	Menard (TX)	327
165	Midland (TX)	329
166	Milam (TX)	331
167	Mills (TX)	333
168	Mitchell (TX)	335
169	Montague (TX)	337
170	Montgomery (TX)	339
171	Moore (TX)	341
172	Morris (TX)	343
173	Motley (TX)	345
174	Nacogdoches (TX)	347
175	Navarro (TX)	349
176	Newton (TX)	351
177	Nolan (TX)	353
178	Nueces (TX)	355
179	Ochiltree (TX)	357
180	Oldham (TX)	359
181	Orange (TX)	361

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 507		
	Counties of Texas (TX)	FIPS Code
182	Palo Pinto (TX)	363
183	Penola (TX)	365
184	Parker (TX)	367
185	Parmer (TX)	369
186	Pecos (TX)	371
187	Polk (TX)	373
188	Potter (TX)	375
189	Presidio (TX)	377
190	Rains (TX)	379
191	Randall (TX)	381
192	Reagan (TX)	383
193	Real (TX)	385
194	Red River (TX)	387
195	Reeves (TX)	389
196	Refugio (TX)	391
197	Roberts (TX)	393
198	Robertson (TX)	395
199	Rockwall (TX)	397
200	Runnels (TX)	399
201	Rusk (TX)	401
202	Sabine (TX)	403
203	San Augustine (TX)	405
204	San Jacinto (TX)	407
205	San Patricio (TX)	409
206	San Saba (TX)	411
207	Schleicher (TX)	413
208	Scurry (TX)	415
209	Shackelford (TX)	417
210	Shelby (TX)	419
211	Sherman (TX)	421
212	Smith (TX)	423
213	Somervell (TX)	425
214	Starr (TX)	427
215	Stephens (TX)	429
216	Sterling (TX)	431
217	Stonewall (TX)	433

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 507		
	Counties of Texas (TX)	FIPS Code
218	Sutton (TX)	435
219	Swisher (TX)	437
220	Tarrant (TX)	439
221	Taylor (TX)	441
222	Terrell (TX)	443
223	Terry (TX)	445
224	Throckmorton (TX)	447
225	Titus (TX)	449
226	Tom Green (TX)	451
227	Travis (TX)	453
228	Trinity (TX)	455
229	Tyler (TX)	457
230	Upshur (TX)	459
231	Upton (TX)	461
232	Uvalde (TX)	463
233	Val Verde (TX)	465
234	Van Zandt (TX)	467
235	Victoria (TX)	469
236	Walker (TX)	471
237	Waller (TX)	473
238	Ward (TX)	475
239	Washington (TX)	477
240	Webb (TX)	479
241	Wharton (TX)	481
242	Wheeler (TX)	483
243	Wichita (TX)	485
244	Wilbarger (TX)	487
245	Willacy (TX)	489
246	Williamson (TX)	491
247	Wilson (TX)	493
248	Winkler (TX)	495
249	Wise (TX)	497
250	Wood (TX)	499
251	Yoakum (TX)	501
252	Young (TX)	503
253	Zapata (TX)	505

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)

	Note: This list begins on VI - 507	
	Counties of Texas (TX)	FIPS Code
254	Zavala (TX)	507

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Table 0508, State-specific County Codes

Code Value	Associated Description	Comment(s)
	Counties of Utah (UT)	FIPS codes utilized - See Table 0509
	Counties of Virginia (VA)	FIPS codes utilized - See Table 0509
	Independent Cities of Virginia (VA)	FIPS codes utilized - See Table 0509
	Islands of the Virgin Islands of the United States (VI)	FIPS codes utilized - See Table 0509
	Counties of Vermont (VT)	FIPS codes utilized - See Table 0509
	Counties of Washington (WA)	FIPS codes utilized - See Table 0509
	Counties of Wisconsin (WI)	FIPS codes utilized - See Table 0509
	Counties of West Virginia (WV)	FIPS codes utilized - See Table 0509
	Counties of Wyoming (WY)	FIPS codes utilized - See Table 0509

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Table 0509, FIPS PUB 6-4, County Codes

Code Value	Associated Description	Comment(s)
	Boroughs/Census Areas of Alaska (AK)	All Latitudes N All Longitudes W
013	Aleutians East (AK)	
016	Aleutian West (AK)	Census area within unorganized Borough
020	Anchorage (AK)	
050	Bethel (AK)	Census area within unorganized Borough
060	Bristol Bay (AK)	
068	Denali (AK)	
070	Dillingham (AK)	Census area within unorganized Borough
090	Fairbanks North Star (AK)	
100	Haines (AK)	
110	Juneau (AK)	
122	Kenai Peninsula (AK)	
130	Ketchikan Gateway (AK)	
150	Kodiak Island (AK)	
164	Lake and Peninsula (AK)	
170	Matanuska-Susitna (AK)	
180	Nome (AK)	Census area within unorganized Borough
185	North Slope (AK)	
188	Northwest Arctic (AK)	
201	Prince of Wales-Outer Ketchikan (AK)	Census area within unorganized Borough
220	Sitka (AK)	
232	Skagway-Hoonah-Angoon (AK)	Census area within unorganized Borough
240	Southeast Fairbanks (AK)	Census area within unorganized Borough
261	Valdez-Cordova (AK)	Census area within unorganized Borough
270	Wade Hampton (AK)	Census area within unorganized Borough
280	Wrangell-Petersburg (AK)	Census area within unorganized Borough
282	Yakutat (AK)	
290	Yukon-Koyukuk (AK)	Census area within unorganized Borough
999	Unorganized Borough (AK)	

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Table 0509, FIPS PUB 6-4, County Codes

Code Value	Associated Description	Comment(s)
	Districts/Islands of American Samoa (AS)	U.S. Possession All Latitudes S All Longitudes W
010	Eastern (AS)	District
020	Manu'a (AS)	District
030	Rose Island (AS)	
040	Swains Island (AS)	
050	Western (AS)	District

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Table 0509, FIPS PUB 6-4, County Codes

Code Value	Associated Description	Comment(s)
	States of the Federated States of Micronesia (FM)	Freely Associated State All Latitudes N All Longitudes E
002	Chuuk (FM)	
005	Kosrae (FM)	
040	Pohnpei (FM)	
060	Yap (FM)	

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Table 0509, FIPS PUB 6-4, County Codes

Code Value	Associated Description	Comment(s)			

Note: This list begins on VI.- 577					
Counties of Montana (MT)		Minimum Latitude	Maximum Latitude	Minimum Longitude	Maximum Longitude
075	Powder River (MT)	445801N	455025N	1045601W	1061716W
077	Powell (MT)	461324N	473737N	1121512W	1132935W
079	Prairie (MT)	463036N	471318N	1043313W	1060559W
081	Ravalli (MT)	452532N	464130N	1133008W	1143537W
083	Richland (MT)	471920N	481041N	1040048W	1051556W
085	Roosevelt (MT)	475709N	483551N	1040048W	1055142W
087	Rosebud (MT)	450935N	465355N	1060134W	1075424W
089	Sanders (MT)	470458N	481823N	1140751W	1160438W
091	Sheridan (MT)	482110N	490211N	1040048W	1050518W
093	Silver Bow (MT)	453512N	461212N	1120735W	1130624W
095	Stillwater (MT)	450828N	460943N	1084816W	1100531W
097	Sweet Grass (MT)	450837N	461454N	1092318W	1102014W
099	Teton (MT)	472759N	480931N	1112128W	1130053W
101	Toole (MT)	481021N	490149N	1111301W	1121457W
103	Treasure (MT)	454954N	463054N	1065340W	1074559W
105	Valley (MT)	473804N	490204N	1054512W	1072717W
107	Wheatland (MT)	461052N	464612N	1092105W	1101902W
109	Wibaux (MT)	463630N	472555N	1040046W	1043731W
111	Yellowstone (MT)	452553N	463136N	1072329W	1085742W
113	Yellowstone National Park (MT)	442720N	450748N	1095624W	1110857W
The portion of Yellowstone National Park in Montana is not located in any county					

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Table 0509, FIPS PUB 6-4, County Codes

Code Value	Associated Description	Comment(s)
	States of the Republic of Palau (PW)	U.S. Possession
	(Note: Palau is also known as Belau)	All Latitudes N All Longitudes E
002	Aimeliik (PW)	
004	Airai (PW)	
010	Angaur (PW)	
050	Hatobohei (PW)	
100	Kayangel (PW)	
150	Koror (PW)	
212	Melekeok (PW)	
214	Ngaraard (PW)	
218	Ngarchelong (PW)	
222	Ngardmau (PW)	
224	Ngatpang (PW)	
226	Ngchesar (PW)	
227	Ngeremlengui (PW)	
228	Ngimel (PW)	
350	Peleliu (PW)	
370	Sonsorol (PW)	

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Table 0511, FIPS PUB 8-5, Metropolitan Statistical Area (MSA) Codes, with PMSAs, NECHAs, & CMSAs

Code Value	Associated Description	Comment(s)		
	Metropolitan Statistical Area (MSA), Primary Metropolitan Statistical Area (PMSA), New England County Metro- politan Area (NECMA), and Consolidated Metropolitan Statistical Area (CMSA) Codes	CMSAs, PMSAs, and NECHAs ONLY have been provided at this time. MSAs will be included at a later date.		
		Type	2-digit CMSA	In CMSA Pop. Level
0080	Akron, OH	PMSA		1692 B
0360	Anaheim-Santa Clara, CA	PMSA		4472 A
0440	Ann Arbor, MI	PMSA		2162 B
0620	Aurora-Elgin, IL	PMSA		1602 B
0733	Bangor, ME	NECMA		C
0845	Beaver County, PA	PMSA		6262 C
0875	Bergen-Passaic, NJ	PMSA		5602 A
1120	Boston, MA	PMSA		1122 A
1122	Boston-Lawrence-Salem, MA-NH	CMSA	07	A
1123	Boston-Lawrence-Salem-Lowell-Brockton, MA	NECMA		A
1125	Boulder-Longmont, CO	PMSA		2082 C
1145	Brazoria, TX	PMSA		3362 C
1160	Bridgeport-Milford, CT	PMSA		5602 B
1163	Bridgeport-Stamford-Norwalk-Danbury, CT	NECMA		B
1170	Bristol, CT	PMSA		3282 B
1200	Brockton, MA	PMSA		1122 C
1280	Buffalo, NY	PMSA		1282 A
1282	Buffalo-Niagara Falls, NY	CMSA	10	A
1303	Burlington, VT	NECMA		C
1310	Caguas, PR	PMSA		7442 B
1600	Chicago, IL	PMSA		1602 A
1602	Chicago-Gary-Lake County, IL-IN-WI	CMSA	14	A
1640	Cincinnati, OH-KY-IN	PMSA		1642 A
1642	Cincinnati-Hamilton, OH-KY-IN	CMSA	21	A
1680	Cleveland, OH	PMSA		1692 A
1692	Cleveland-Akron-Lorain, OH	CMSA	28	A
1920	Dallas, TX	PMSA		1922 A
1922	Dallas-Fort Worth, TX	CMSA	31	A
1930	Danbury, CT	PMSA		5602 C

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Table 0511, FIPS PUB 8-5, Metropolitan Statistical Area (MSA) Codes, with PMSAs, NECMAs, & CMSAs

Code Value	Associated Description	Comment(s)
Note: This list begins on VI - 639		
CMSAs, PMSAs, and NECMAs ONLY have been provided at this time. MSAs will be included at a later date.		
		Type 2-digit CMSA In CMSA Pop. Level
2080	Denver, CO	PMSA 2082 A
2082	Denver-Boulder, CO	CMSA 34 A
2160	Detroit, MI	PMSA 2162 A
2162	Detroit-Ann Arbor, MI	CMSA 35 A
2480	Fall River, MA-RI	PMSA 6482 C
2680	Fort Lauderdale-Hollywood-Pompano Beach FL	PMSA 4992 A
2800	Fort Worth-Arlington, TX	PMSA 1922 B
2920	Galveston-Texas City, TX	PMSA 3362 C
2960	Gary-Hammond, IN	PMSA 1602 B
3200	Hamilton-Middletown, OH	PMSA 1642 B
3280	Hartford, CT	PMSA 3282 B
3282	Hartford-New Britain-Middletown, CT	CMSA 41 A
3283	Hartford-New Britain-Middletown-Bristol CT	NECMA A
3360	Houston, TX	PMSA 3362 A
3362	Houston-Galveston-Brazoria, TX	CMSA 42 A
3640	Jersey City, NJ	PMSA 5602 B
3690	Joliet, IL	PMSA 1602 B
3800	Kenosha, WI	PMSA 1602 C
3965	Lake County, IL	PMSA 1602 B
4160	Lawrence-Haverhill, MA-NH	PMSA 1122 B
4243	Lewiston-Auburn, ME	NECMA D
4440	Lorain-Elyria, OH	PMSA 1692 B
4472	Los Angeles-Anaheim-Riverside, CA	CMSA 49 A
4480	Los Angeles-Long Beach, CA	PMSA 4472 A
4560	Lowell, MA-NH	PMSA 1122 C
4763	Manchester-Nashua, NH	NECMA B
4992	Miami-Fort Lauderdale, FL	CMSA 56 A
5000	Miami-Hialeah, FL	PMSA 4992 A
5015	Middlesex-Somerset-Hunterdon, NJ	PMSA 5602 B
5020	Middletown, CT	PMSA 3282 D
5090	Milwaukee, WI	PMSA 5082 A
5082	Milwaukee-Racine, WI	CMSA 63 A

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Table 0511, FIPS PUB 8-5, Metropolitan Statistical Area (MSA) Codes, with PMSAs, NECMAs, & CMSAs

Code Value	Associated Description	Comment(s)			

Note: This list begins on VI - 639					
CMSAs, PMSAs, and NECMAs ONLY have been provided at this time. MSAs will be included at a later date.					
		Type	2-digit CMSA	In CMSA	Pop. Level
5190	Monmouth-Ocean, NJ	PMSA		5602	B
5350	Nashua, NH	PMSA		1122	C
5380	Nassau-Suffolk, NY	PMSA		5602	A
5403	New Bedford-Fall River-Attleboro, MA	NECMA			B
5440	New Britain, CT	PMSA		3282	C
5483	New Haven-Waterbury-Meriden, CT	NECMA			B
5523	New London-Norwich, CT	NECMA			C
5600	New York, NY	PMSA		5602	A
5602	New York-Northern New Jersey-Long Island NY-NJ-CT	CMSA	70		A
5640	Newark, NJ	PMSA		5602	A
5700	Niagara Falls, NY	PMSA		1282	C
5760	Norwalk, CT	PMSA		5602	C
5775	Oakland, CA	PMSA		7362	A
5950	Orange County, NY	PMSA		5602	B
6000	Oxnard-Ventura, CA	PMSA		4472	B
6060	Pawtucket-Moonsocket-Attleboro, RI-MA	PMSA		6482	B
6160	Philadelphia, PA-NJ	PMSA		6162	A
6162	Philadelphia-Wilmington-Trenton PA-NJ-DE-MD	CMSA	77		A
6280	Pittsburgh, PA	PMSA		6282	A
6282	Pittsburgh-Beaver Valley, PA	CMSA	78		A
6323	Pittsfield, MA	NECMA			C
6403	Portland, ME	NECMA			C
6440	Portland, OR	PMSA		6442	A
6442	Portland-Vancouver, OR-WA	CMSA	79		A
6453	Portsmouth-Dover-Rochester, NH	NECMA			B
6480	Providence, RI	PMSA		6482	B
6482	Providence-Pawtucket-Fall River, RI-MA	CMSA	80		A
6483	Providence-Pawtucket-Moonsocket, RI	NECMA			B
6600	Racine, WI	PMSA		5082	C
6780	Riverside-San Bernardino, CA	PMSA		4472	A
7090	Salem-Gloucester, MA	PMSA		1122	B
7360	San Francisco, CA	PMSA		7362	A

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Table 0511. FIPS PUB 8-5, Metropolitan Statistical Area (MSA) Codes, with PMSAs, NECHAs, & CMSAs

Code Value	Associated Description	Comment(s)			
Note: This list begins on VI - 639					
CMSAs, PMSAs, and NECHAs ONLY have been provided at this time. MSAs will be included at a later date.					
		Type	2-digit CMSA	In CMSA	Pop. Level
7362	San Francisco-Oakland-San Jose, CA	CMSA	84		A
7400	San Jose, CA	PMSA		7362	A
7440	San Juan, PR	PMSA		7442	A
7442	San Juan-Caguas, PR	CMSA	87		A
7485	Santa Cruz, CA	PMSA		7362	C
7500	Santa Rosa-Petaluma, CA	PMSA		7362	B
7600	Seattle, WA	PMSA		7602	A
7602	Seattle-Tacoma, WA	CMSA	91		A
8003	Springfield, MA	NECHA			B
8040	Stamford, CT	PMSA		5602	C
8200	Tacoma, WA	PMSA		7602	B
8480	Trenton, NJ	PMSA		6162	B
8720	Vallejo-Fairfield-Napa, CA	PMSA		7362	B
8725	Vancouver, WA	PMSA		6442	C
8760	Vineland-Millville-Bridgeton, NJ	PMSA		6162	C
9160	Wilmington, DE-NJ-MD	PMSA		6162	B
9243	Worcester-Fitchburg-Leominster, MA	NECHA			B

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Table 0603, Service Area Category Codes

Code Value	Associated Description	Comment(s)
		Major Category
01	Interstate Carrier	Other
02	Wholesaler (Sells Water)	Other
09	Other Area	Other
R1	Residential Area	Residential
R2	Mobile Home Park	Residential
R9	Other Residential Area	Residential
S1	School	Semi-residential
S2	Institution	Semi-residential
S3	Medical Facility	Semi-residential
S4	Industrial/Agricultural	Semi-residential
S5	Day Care Center	Semi-residential
S9	Other Semi-residential Area	Semi-residential
T1	Recreation Area	Transient
T2	Service Station	Transient
T3	Summer Camp	Transient
T4	Restaurant	Transient
T5	Highway Rest Area	Transient
T6	Hotel/Motel	Transient
T9	Other Transient Area	Transient

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Table 0605, Primary Service Area Flag Codes

Code Value	Associated Description	Comment(s)
N	Non-Primary Service Area	Secondary Service Area
Y	Primary Service Area	

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Table 0705, On-site Visit Reason Codes

Code Value	Associated Description	Comment(s)
1	Sanitary Survey	
2A	Training	
2C	Laboratory Certification	
2E	Emergency Assistance	
2G	Engineering Determination/Advice	
2I	Investigation (Complaint/Violation/etc.)	
2L	Laboratory Inspection	
2M	Informal System Inspection	
2O	Other	
2P	Permit (Qualification/Review/Compliance)	
2R	Regularly Scheduled	
2S	Sample Collection	
2T	Technical Assistance (Non-specific)	
2V	Variance/Exemption/Other Compliance Schedule Related	

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Table 0805, Pb/Cu Milestone Event Codes

Code Value	Associated Description	Comment(s)
CCSR	Corrosion Control Study Required	
CSSC	Corrosion Control Study Completed	
CU90	Copper Action Level Exceedance	
LSLR	Lead Service Line Replacement Required	
MPLS	Max. Permissible Levels in Source Water	
OTDE	OCCT Treatment Designated or Approved	
OTIN	OCCT Treatment Installed	
PB90	Lead 90th Action Level Exceedance	
STDE	SOWT Designated or Approved	
STIN	SOWT Treatment Installed	
WQPS	Water Quality Parameters	

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Table 1001, Non-compliance Data Reconciliation Flag Codes

Code Value	Associated Description	Comment(s)
NULL	Reconciliation NOT Needed for NCP/LINK	NULL implies no Data Base value
1	NCP Reconciliation Needed	
2	NCP and LINK Reconciliation Needed	

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Table 1121. Analysis Method Codes

Code Value	Associated Description	Comment(s)
	Analysis Methods for Physical Contaminants	
001	Nephelometric	
003	Nephelometric, with Styrene Diviny	

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Table 1121, Analysis Method Codes

Code Value	Associated Description	Comment(s)
	Analysis Methods for Inorganic Contaminants	
101	Atomic Absorption, Direct Aspiration	
103	Atomic Absorption, Flameless	
105	Brucine Colorimetric	
107	Electrode	
109	Cadmium Reduction	
111	Colorimetric, Preliminary Distillation	
113	Silver Diethyldithiocarbamate	
115	Alizarin Fluoride Blue	
116	Modified Alizarin Fluoride Blue	
117	Zirconium-Eriochrome Cyanine	
118	Automated Electrode (Fluoride)	
119	Automated Cold Vapor (Mercury)	
121	Automated Hydrazine Reduction	
122	Nitrate Ion Electrode (V Kimm)	
123	Hydride Generation (Atomic Absorption)	
124	Chromotropic Acid Method	
125	Graphite Furnace (Flameless AA)	
127	Potentiometric	
128	Silver Nitrate Method	
129	Platinum-Cobalt (Color)	
130	Thermometric (Temperature)	
131	Titrimetric Iodine	
133	Consistent Series (Odor)	
135	Glass Electrode (pH)	
136	Potentiometric	
137	Turbidimetric (Sulfate)	
138	Langelier Index (Corrosion)	
139	Total Filterable Residue (TDS)	
141	Edta Titrimetric Test	
142	Methyl Orange End Point pH 4.5	
143	Heteropoly Blue (Silica)	
144	Acidity Measurement (SM-401)	
145	Specific Conductants Meter	
147	Direct Thenate (Ammonia)	
149	Electrometric Titration	
151	Specific Conductivity	
153	Mercuric Nitrate	

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Table 1121, Analysis Method Codes

Code Value	Associated Description	Comment(s)

Note: This list begins on VI - 649		
Analysis Methods for Inorganic Contaminants		
155	Methylene Blue Colorimetric	
157	Titration-pH-Electrode-Endpoint	
159	Colorimetric Ferricyanide Auto	
161	Automated Colorimetric Method	
163	Automated Cadmium Reduction	
165	Flame Photometric (Sodium)	

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Table 1121. Analysis Method Codes

Code Value	Associated Description	Comment(s)
	Analysis Methods for Organic Contaminants	
201	Organochlorine Pesticides	
203	Chlorinated Phenoxy & Herbicides	
204	Organochlorine Pesticides	
205	Gas Chromatographic	
206	Chlorinated Phenoxy Acid Herbicides	
207	Methylene Blue (Foaming Agent)	
209	Chloroform Extract (Phenols)	
211	Colorimetric, Preliminary Distillation	
213	Purge & Trap Method (TTHM)	
215	Liquid/Liquid Extraction (TTHM)	
216	Purge & Trap GC (VOCs 502.1)	
217	Purge & Trap GC (VOCs 502.2)	
218	Purge & Trap GC (VOCs 503.1)	
219	Microextraction & GC (E0B & DBCP 504)	
220	Purge & Trap GC/MS (VOCs 524.1)	
221	Purge & Trap Cap.Col. GC/MS (VOCs 524.2)	

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Table 1121, Analysis Method Codes

Code Value	Associated Description	Comment(s)

	Analysis Methods for Microbiological Contaminants	
301	Dpn - Chlorine Residual	
302	408G-Facts, Syringaldazine	
303	Membrane Filter	
305	Fermentation Tube, 10 ml	
307	Fermentation Tube, 100 ml	

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Table 1121, Analysis Method Codes

Code Value	Associated Description	Comment(s)
	Analysis Methods for Radiological Contaminants	
401	Gross Alpha & Beta, Method 302	
402	Gross Alpha & Beta Analysis	
403	Strontium-89,90 Method 303	
404	Strontium 89,90 Analysis (NJ)	
405	Total Radium, Method 304	
407	Radium-226, Method 305	
409	Tritium, Method 306	
410	Tritium, Liquid Scintillation	
411	Cesium-134, ASTM D-2459	
413	Uranium, ASTM D-2907	
414	Iodine-131, Radiochemical Analysis	
415	Iodine-131, Precipitation	
416	Iodine-131, Gamma Procedure	
417	Radium-226, Radon Emination	
418	Radium-226,228 Sequential Method	
419	Radium-228, Brooks-Blanchard	
999	Other	

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Table 1131, Major/Minor Violation Flag Codes

Code Value	Associated Description	Comment(s)
N	Minor Monitoring Violation	
Y	Major Monitoring Violation	

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Table 1293, Enforcement Link Type Codes

Code Value	Associated Description	Comment(s)
X	Linked by Violation Date Range(s)	Via X5000 DTF transaction (Form E1)
Y	Linked by Violation ID(s)	Via Y5000 DTF transaction (Form E1)
Z	Linked by Violation Type/Contam./Date(s)	Via Z5000 DTF transaction (Form E1)

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Table 2107, Sample Contaminant Identification Codes

Code Value	Associated Description	Comment(s)
-----	-----	-----
PS90	Lead 90th Percentile Value	

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Table 3005, Variance/Exemption/Other Record Type Codes

Code Value	Associated Description	Comment(s)
EX	Exemption Record	
FR	Filtration Requirement Record (SNTR)	
TN	Turbidity Waiver Record	
VA	Variance Record	

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Table 3011, Variance/Exemption/Other Status Codes

Code Value	Associated Description	Comment(s)
A	Interest Expressed	In Variance/Exemption/Other
B	Completed, PWS in compliance	Variance/Exemption/Other
C	Application Received	For Variance/Exemption/Other
E	State Proposes to Deny	Variance/Exemption/Other Application
G	State Proposes to Grant	Variance/Exemption/Other Application
I	Hearing Scheduled on Proposal	
K	Hearing Held on Proposal	
M	Compliance Schedule Prescribed	
O	Hearing Scheduled on Compliance Schedule	
Q	Hearing Held on Compliance Schedule	
R	Additional Information Desired	
S	Request Granted	For Variance/Exemption/Other
T	Request Denied	For Variance/Exemption/Other
U	State Sets Monitoring Requirements	
V	EPA Sets Monitoring Requirements	
W	Notification given to Public	
X	Other	
Y	Notification given to EPA	
Z	Pending Deletion	

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Table 3019, Variance/Exemption/Other Reason Codes

Code Value	Associated Description	Comment(s)
001	Cannot Comply after Treatment	
003	Cannot Afford Facility Construction	
005	Funds Pending	
007	Facility Construction Pending	
009	Unable to Afford Treatment	
011	Treatment Unnecessary	
013	Treatment Impractical	
021	Source Water Coliform	Source Water Criteria under the SWTR
022	Source Water Turbidity	Source Water Criteria under the SWTR
031	Failure to Meet Daily CT	Site-specific Criteria under the SWTR
032	Residual Disinfectant <= 0.2 mg/l	Site-specific Criteria under the SWTR
033	Residual Disinfectant Not Detected	Site-Specific Criteria under the SWTR
034	Lack of Redundant Disinfection Equipment	Site-specific Criteria under the SWTR
035	Watershed Control is Inadequate	Site-specific Criteria under the SWTR
036	On-site Inspection Warrants Filtration	Site-specific Criteria under the SWTR
037	Waterborne Disease Outbreak	Site-specific Criteria under the SWTR
041	MCL, Monthly/Acute (TCR)	Violations of Other Rules (SWTR Related)
042	MCL, TTHM	Violations of Other Rules (SWTR Related)
043	MCL, Turbidity	Violations of Other Rules (SWTR Related)
051	PMS Opts to Install Filtration	Other
052	State Requires Installation (not NPDMR)	Other
098	Turbidity Waiver (Converted FRDS 1.5)	'098' may not be used on any FRDS-II input transaction. It was assigned by the FRDS-II computer system during the conversion of data from FRDS 1.5 to FRDS-II.
099	Other	

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Table 3027, Variance/Exemption/Other Vulnerability Flag Codes

Code Value	Associated Description	Comment(s)
N	PWS is NOT Vulnerable to Contaminant	
Y	PWS is Vulnerable to Contaminant	

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Table 3103, Variance/Exemption/Other Schedule Action Codes

Code Value	Associated Description	Comment(s)
01	Letter to PWS from State	
04	Administrative Hearing - PWS & State	
07	Other State Administrative Procedure	
19	Explore Alternate Sources of Water	
22	Explore Regional System Development	
25	Financial Aid Obtained	
28	Treatment System Designed	
31	Treatment System Approved	
34	Treatment System Built	
37	Periodic Monitoring Required	

Section VII

References

Section VII References

The following EPA documents provide the user with information helpful in understanding FRDS-II reporting requirements. They are readily available from regional offices or Headquarters.

FRDS REPORTING GUIDANCE

Memoranda

- Final Guidance on Reporting to FRDS Violations of the VOC (Phase I) Requirements (10/22/90)
- Reporting Enforcement Actions and "Compliance Achieved" to FRDS (11/13/90)
New Follow-up Actions, code values and definitions.
- Detailed FRDS Reporting Guidance for the Surface Water Treatment (SWT) and Total Coliform (TC) Rules (1991)
Implementation and FRDS reporting guidance for these two rules.
- Follow-up to the Review of the FRDS-II Grant Eligible Data Elements (5/12/91)
Re-definition of the FRDS-II grant eligible data elements superceeding Water Supply Guidance V-2
- Final Guidance for Phase II Rule (1992)
FRDS reporting guidance for Phase II.
- Final Guidance for the Lead and Copper Rule - Definitions of Federal Reporting for Milestones, Violations and SNC's (5/92).

ENFORCEMENT GUIDANCE

Memoranda

- Change in the PWSS Program's Definition of Timely and Appropriate Actions (4/20/90).
Changes the "Timely" definition of follow-up actions to be within six months of the discovery of a SNC for microbiological/turbidity/TTHM SNC's, and within 12 months for chemical/radiological SNC's.

- Revised Definition of Significant Noncomplier (SNC) and the Model for Escalating Responses to Violations for the PWSS Program (5/22/90).
Provides a modification to the SNC definition and clarifies the Office's expectations for State and federal responses to violations.
- Final SNC Definition for the TCR and Proposed SNC definition for SWTR (12/19/90).
- Final SNC Definition for the SWTR (2/28/91).

FRDS OPERATIONS

Guidance

- FY93 STARS Reporting Process and Schedule for the PWSS Program (11/16/92).

FRDS and STARS reporting schedules for FY93, including SNC creation and region/state/HQ STARS reporting schedules.

PWSS IMPLEMENTATION

Memoranda

- Data Verification Protocol (3/91).
Recommended methodology for the data audits of primacy agencies.
- FY 91 Compliance Report (3/91).
EPA HQ report on the status of PWS noncompliance during FY 91. This report is produced annually.

LEGAL INTERPRETATION OF SAFE DRINKING WATER ACT

Memoranda

- Definition of Public Water System (7/12/78).
Legal definition of PWS based upon its provision of water for human consumption.
- Definition of Non-Transient Non-Community Water System (9/16/87).
Definition of factors for identification of Non-Transient PWS.

Section VIII

Glossary Of Technical And Drinking Water Programmatic Terms

Section VIII Glossary Of Technical And Drinking Water Programmatic Terms**- A -****ACT**

The Public Health Service Act, as amended by the Safe Drinking Water Act (SDWA), and the SDWA amendments of 1986. Public Laws 93-523 and 99-339, respectively. See also: *SDWA, NPDWR, NRPDWR, NPDWR*.

ACTION LEVEL

The concentration of lead or copper in tap water [specified in §141.80(c)] which determines, in some cases, the treatment requirements [contained in subpart I (Control of Lead and Copper) of the NPDWRs] that a water system is required to complete. Contrast with: *MAXIMUM CONTAMINANT LEVEL*.

ACTIONS

A term used to refer to violation, enforcement action, and variance/exemption/other related data submitted as a part of a State's quarterly update to FRDS-II. When reported, Actions data must be segregated from Sample data, but may be reported individually or combined with Inventory data, as desired. Contact FRDS Production Control for additional details.

Actions data refers to that information which is stored in the following FRDS-II Data Base records:

C1100, VIOLATION-DATA
C1200, ENFORCEMENT-DATA
C3000, VARIANCE-EXEMPTION-DATA
C3100, VE-SCHEDULE

See also: *ENFORCEMENT ACTION, EXEMPTION, VARIANCE, VIOLATION*. Contrast with: *INVENTORY, SAMPLES*.

ACTIVE

A term used to refer to a public water system that is producing water on a regular basis (obtaining, treating, pumping, storing, and/or distributing).

The active versus inactive classification is often confused with the current versus historical classification. Classifying a public water system as active or inactive is exclusively at the State's discretion. It is the way in which the State indicates the present operational status of a public water system. Classifying a public water system as part of the current or historical inventory is performed automatically by the FRDS-II computer system. It indicates whether or not a public water system is embodied in the most recent inventory submission from the State.

See also: *ACTIVE WATER SYSTEM*. Contrast with: *CURRENT INVENTORY*, *HISTORICAL INVENTORY*, *INACTIVE*.

ACTIVE PWS

See *ACTIVE WATER SYSTEM*.

ACTIVE WATER SYSTEM

A public water system that is active. See also: *ACTIVE*. Contrast with: *INACTIVE WATER SYSTEM*.

ALPHABETIC

A term used to describe a class of data element values. An alphabetic data element's values consist of combinations of the letters A to Z and blank spaces. Contrast with: *ALPHANUMERIC*, *NUMERIC*. See also: *CHARACTER*, *TEXT*.

ALPHANUMERIC

A term used to describe a class of data element values. An alphanumeric data element's values can consist of combinations of the letters A to Z, blank spaces, the numbers zero through nine, and/or a set of special symbols used for punctuation or special meaning. Contrast with: *ALPHABETIC*, *NUMERIC*. See also: *CHARACTER*, *TEXT*.

AQUIFER

An aquifer, or water-bearing formation, is an underground layer of permeable rock or soil that permits the passage of water. Aquifers are either artesian (confined) or water table (unconfined) dependent upon the permeability of the surrounding material. See also: *ARTESIAN AQUIFER*, *WATER TABLE AQUIFER*, *ZONE OF SATURATION*, *GROUND WATER SOURCE*, *WELL*.

ARTESIAN AQUIFER

One of two general classifications of aquifers. An artesian aquifer consists of confined ground water that is under artesian pressure. In other words, when an overlying impermeable formation confines the water in the zone of saturation under a pressure greater than atmospheric pressure. Contrast with: *WATER TABLE AQUIFER*. See also: *AQUIFER, ZONE OF SATURATION, GROUND WATER SOURCE, WELL*.

AVAILABILITY

A term used to identify the way in which a source of water is utilized. For example, a source of water can be utilized on a permanent basis, seasonal basis, interim basis, or emergency basis. The availability of a source of water is used when the primary source of water of a public water system is determined, and when classifying a public water system as a surface, ground water, ground water UDISW, purchased surface, purchased ground water, or purchased ground water UDISW water system.

See also: *PRIMARY SOURCE, SURFACE WATER SYSTEM, GROUND WATER UDISW SYSTEM, GROUND WATER SYSTEM, PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM, PURCHASED GROUND WATER SYSTEM*.

- B -**BACTI**

An abbreviation used to refer to a microbiological, or bacterial, contaminant in drinking water. Contrast with: *TURBIDITY, CHEMS, RADS*. See also: *TOTAL COLIFORM BACTERIA, FECAL COLIFORM BACTERIA, HETEROTROPHIC BACTERIA, GIARDIA LAMBLIA, LEGIONELLAE, PATHOGENIC VIRUSES, CONTAMINANT*.

BASE LINE

A base line is an imaginary east-west surveyor's line which has been defined in conjunction with an imaginary north-south line (i.e., a principal meridian) from which township coordinates are determined.

Townships are plots of land, each approximately six miles to the side (i.e., 36 square miles) defined under the Rectangular Survey System of the U.S. Department of Interior, Bureau of Land Management. See also: *PRINCIPAL MERIDIAN*.

BAT

An abbreviation for Best Available Technology. See *BEST AVAILABLE TECHNOLOGY*.

BEST AVAILABLE TECHNOLOGY

The best technology, treatment techniques, or other means which the Administrator finds, after examination for efficacy under field conditions and not solely under laboratory conditions, are available (taking cost into consideration).

- C -

CDP

An abbreviation for a Census Designated Place. See *CENSUS DESIGNATED PLACE*.

CENSUS COUNTY DIVISION

A statistical area serving as a primary county division in twenty States which have no minor civil divisions appropriate for census use. See also: *MINOR CIVIL DIVISION, PRIMARY COUNTY DIVISION*.

CENSUS DESIGNATED PLACE

A populated place, not within the limits of an incorporated place, that has been delimited for census purposes; serves, in one instance, as a primary county division. See also: *INCORPORATED PLACE, POPULATED PLACE, PRIMARY COUNTY DIVISION*.

CENSUS SUBAREA

A statistical area in Alaska serving as a primary county division. See also: *PRIMARY COUNTY DIVISION*.

CENSUS SUBDISTRICT

A legally established statistical area in the Virgin Islands of the United States serving as a primary county division. See also: *PRIMARY COUNTY DIVISION*.

CHAR

See *CHARACTER*.

CHARACTER

A SYSTEM 2000™ data element data type. Character data element values are alphanumeric with all extraneous blank spaces (i.e., leading spaces, trailing spaces, multiple embedded spaces) removed. Contrast with: *TEXT*. See also: *INTEGER, DECIMAL, DATE, ALPHANUMERIC*.

CHEMS

An abbreviation used to refer to inorganic and organic contaminants in drinking water.

Contrast with: *BACTI*, *TURBIDITY*, *RADS*. See also: *INORGANIC CHEMS*, *ORGANIC CHEMS*, *SOCs*, *VOCs*, *CONTAMINANT*.

CMSA

An abbreviation for a Consolidated Metropolitan Statistical Area. A CMSA is a geographic area consisting of a large population nucleus together with adjacent communities having a high degree of economic and social integration with that nucleus.

To be classified as a CMSA, however, the area must serve more than one million people and meet certain other specific requirements. A CMSA is divided into major components which are referred to as primary metropolitan statistical areas (PMSAs). CMSAs and PMSAs are defined in Federal Information Processing Standard Publication (FIPS PUB) 8-5 entitled, Metropolitan Statistical Areas (Including CMSAs, PMSAs, and NECMAs). See also: *MSA*, *PMSA*, *NECMA*.

COAGULATION

A treatment process which uses coagulant chemicals and mixing by which colloidal and suspended material are destabilized and agglomerated in non-filterable flocs which settle.

COLIFORM BACTERIA

See *TOTAL COLIFORM BACTERIA*, *FECAL COLIFORM BACTERIA*.

COLIFORM-POSITIVE SAMPLE

A drinking water sample of 100 ml in which at least one coliform bacterium is detected by an EPA approved analytical method.

COMMUNITY PWS

See *COMMUNITY WATER SYSTEM*.

COMMUNITY WATER SYSTEM

A type of public water system. Community water system means a public water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

Contrast with: *TRANSIENT NON-COMMUNITY WATER SYSTEM*, *NON-TRANSIENT NON-COMMUNITY WATER SYSTEM*. See also: *NON-COMMUNITY WATER SYSTEM*, *CONSECUTIVE WATER SYSTEM*, *PUBLIC WATER SYSTEM*.

COMPLIANCE CYCLE

A 9-year calendar year cycle during which public water systems must monitor for chemical substances or compounds regulated in the NPDWRs. (This presently includes the Phase I, II, IIB, and V contaminants.)

Each compliance cycle consists of three 3-year compliance periods.

The first calendar year compliance cycle begins January 1, 1993, and ends December 31, 2001. The second calendar year compliance cycle begins January 1, 2002, and ends December 31, 2010. The third calendar year compliance cycle begins January 1, 2011, and ends December 31, 2019.

Contrast with: *COMPLIANCE PERIOD*. See also: *INITIAL COMPLIANCE PERIOD*, *REPEAT COMPLIANCE PERIOD*.

COMPLIANCE PERIOD

Compliance period can have two distinct definitions, one definition when we refer to the Standardized Monitoring Framework (SMF), which applies to the Phase I, II, IIB, and V contaminant monitoring requirements, and a completely separate definition when we refer to FRDS.

Under the SMF, a compliance period means a three-year period of time (calendar year based) within a nine-year compliance cycle. The first compliance period of the first compliance cycle begins 01/01/93 and ends 12/31/95; the second compliance period of the first compliance cycle begins 01/01/96 and ends 12/31/98; and the third compliance period of the first compliance cycle begins 01/01/99 and ends 12/31/2001.

In FRDS, a compliance period means the period of time during which monitoring was to have been performed, such as a quarter, a year, etc. For example, assume a public water system is required to monitor for contaminant X each calendar quarter. If this PWS fails to conduct the required monitoring for contaminant X for the first calendar quarter of 1993, a regular sampling M&R violation is incurred. When this M&R violation is reported to FRDS, the State must supply the beginning date of the compliance period, and either the ending date of the compliance period or the duration of the compliance period. The beginning date of the compliance period in this example would be 01/01/93, the ending date of the compliance period would be 03/31/93, and the duration of the compliance period would be three months.

Contrast with: *COMPLIANCE CYCLE*. See also: *INITIAL COMPLIANCE PERIOD*, *REPEAT COMPLIANCE PERIOD*.

COMPONENT

See *COMPONENT NAME, COMPONENT NUMBER, DATA ELEMENT NAME, DATA ELEMENT NUMBER.*

COMPONENT NAME

A name assigned to a particular piece of information, or data, in a SYSTEM 2000™ data base (e.g., In FRDS-II, PWS-ID is the component name used to refer to a public water system identification number). See also: *COMPONENT NUMBER, DATA ELEMENT NAME, DATA ELEMENT NUMBER.*

COMPONENT NUMBER

A number assigned to a particular piece of information, or data, in a SYSTEM 2000™ data base (e.g., In FRDS-II, C101 is the component number used to refer to a public water system identification number). See also: *COMPONENT NAME, DATA ELEMENT NAME, DATA ELEMENT NUMBER.*

COMPUTED CODE VALUE

See *COMPUTED VALUE.*

COMPUTED DATE VALUE

See *COMPUTED VALUE.*

COMPUTED NUMERIC VALUE

See *COMPUTED VALUE.*

COMPUTED VALUE

A code, date, number, or other value that is determined by the FRDS-II computer system during its normal course of operation. A computed value is generally not supplied by the State (i.e., there are a few data elements whose values will be computed only if the State does not supply them).

CONFLUENT GROWTH

Continuous bacterial growth covering the entire filtration area of a membrane filter, or a portion thereof, in which bacterial colonies are not discrete. Contrast with: *TOO NUMEROUS TO COUNT.*

CONSECUTIVE PWS

See *CONSECUTIVE WATER SYSTEM.*

CONSECUTIVE WATER SYSTEM

A public water system that is interconnected with another public water system. A public water system that buys water from another public water system is a consecutive water system. The public water system that sells the water is not consecutive. A consecutive public water system can be a community, a transient non-community, or a non-transient non-community public water system. However, monitoring requirements for consecutive public water systems may be modified to the extent that the interconnection of the system to another public water system justifies treating them as a single system.

In FRDS-II, the State may specify for each purchased source of water, the public water system identification number of the system from whom the water is purchased.

See also: *COMMUNITY WATER SYSTEM, NON-COMMUNITY WATER SYSTEM, TRANSIENT NON-COMMUNITY WATER SYSTEM, NON-TRANSIENT NON-COMMUNITY WATER SYSTEM, PUBLIC WATER SYSTEM.*

CONTAMINANT

Any physical, chemical, biological, or radiological substance or matter in water.

See also: *BACTI, TURBIDITY, CHEMS, INORGANIC CHEMS, ORGANIC CHEMS, SOCs, VOCs, TTHM, RADS.*

CONVENTIONAL FILTRATION

A series of treatment processes including coagulation, flocculation, sedimentation, and filtration.

CORROSION INHIBITOR

A substance capable of reducing the corrosivity of water toward metal plumbing materials, especially lead and copper, by forming a protective film on the interior surface of those materials. See also: *EFFECTIVE CORROSION INHIBITOR RESIDUAL.*

COUNTY EQUIVALENT

A primary division, other than a county, of a State or a State equivalent. For example, a parish in Louisiana, a borough or census area in Alaska, or an independent city in Maryland, Missouri, Nevada, or Virginia. See also: *STATE EQUIVALENT, INDEPENDENT CITY.*

CT

The product of residual disinfectant concentration (C) determined before or at the first customer, and the corresponding disinfectant contact time in minutes (T) (i.e., $C \times T$). See also: *DISINFECTANT CONTACT TIME, RESIDUAL DISINFECTANT CONCENTRATION*.

CURRENT INVENTORY

One of two general classifications of FRDS-II public water system related data.

The definition of current inventory is influenced by whether or not a State submitted a "total replacement" to its public water system inventory in the most recent reporting period.

If a State submits a "total inventory replacement", the term current inventory refers to those public water systems which were submitted in that most recent reporting period. Those systems that existed in the current inventory prior to the update, for which a replacement was not submitted, would become part of the historical inventory.

If a State submits "inventory updates only" to its inventory in the most recent reporting period, current inventory refers to those public water systems that existed in the current inventory prior to the update, plus any new public water systems which were reported in that most recent period.

The active versus inactive classification is often confused with the current versus historical classification. Classifying a public water system as active or inactive is exclusively at the State's discretion. It is the way in which the State indicates the present operational status of a public water system. Classifying a public water system as part of the current or historical inventory is performed automatically by the FRDS-II computer system. It indicates whether or not a public water system is embodied in the most recent inventory submission from the State.

Contrast with: *ACTIVE, HISTORICAL INVENTORY, INACTIVE*. See also: *TOTAL REPLACE UPDATE*.

CWS

An abbreviation for a Community public Water System. See *COMMUNITY WATER SYSTEM*.

- D -**DATA ELEMENT**

See *COMPONENT NAME, COMPONENT NUMBER, DATA ELEMENT NAME, DATA ELEMENT NUMBER*.

DATA ELEMENT NAME

The name used to refer to a particular piece of data. For example, ADDRESS-LINE-1 is the name of a data element which refers to a specific part of an address. See also: *COMPONENT NAME, COMPONENT NUMBER, DATA ELEMENT NUMBER*.

DATA ELEMENT NUMBER

A number assigned to a particular piece of information, or data, in a SYSTEM 2000™ data base (e.g., In FRDS-II, C101 is the data element number used to refer to a public water system identification number). See also: *COMPONENT NAME, COMPONENT NUMBER, DATA ELEMENT NAME*.

DATA BASE

An organized collection of related records and data elements that are treated as a whole. In FRDS-II, a hierarchically arranged set of records which contain information relating to the Public Water System Supervision Program. See also: *DATA BASE MANAGEMENT SYSTEM, DBMS, SYSTEM 2000™, DATA BASE RECORD, ACT, SDWA, NIPDWR, NRPDWR, NPDWR*.

DATA BASE FAMILY

A reference to a particular set of data base records that lie within a common path of the data base structure. A data base family includes all ascendant and descendant records to a given node. For example, the C400, PWS-SOURCE-ENTITY-INFO, record belongs to data base family 2. Each of its ascendant records (C100, PWS-SUMMARY, and C0, STATE-SUMMARY) belong to data base family 2, as does its sole descendant record (C480, PWS-SE-TREATMENT-DATA).

Please note that records C0, STATE-SUMMARY, and C100, PWS-SUMMARY, can belong to any data base family. This definition is FRDS-II specific and differs from the SYSTEM 2000™ definition for a data base family. See also: *SYSTEM 2000™, DATA BASE, DATA BASE RECORD, FRDS-II*.

DATA BASE MANAGEMENT SYSTEM

The entire collection of procedures, programs, operations, and functions that are devoted to the generation, collection, communication, storage, evaluation, retrieval, and

dissemination of information contained in a data base. See also: *DATA BASE*, *DBMS*, *SYSTEM 2000™*, *FRDS-II*.

DATA BASE RECORD

A group of logically related data elements. For example, the C500, PWS-GEOGRAPHIC-AREAS-SERVED, record contains 8 unique data elements which identify (from various perspectives) the geographic area(s) served in whole or in part by a public water system. In this particular example, the 8 unique data elements are: The State's administrative region; the State's administrative district; the Federal congressional district; the city served; a code which identifies the State county; a FIPS county code; a code which identifies the metropolitan statistical area (MSA), primary metropolitan statistical area (PMSA), or New England county metropolitan area (NECMA); and, if the public water system is on an Indian reservation or in an Alaska remote village, a code which identifies the Indian reservation, or the Alaska remote village. See also: *DATA BASE*, *DATA ELEMENT*.

DATA CATEGORY

A two-digit number which categorizes FRDS-II data elements into logical groupings. These data categories are used by the FRDS-II computer system during its normal course of operation. A complete list of data categories is provided in Section VII, References, of Release 1.00 of this document. Each data category falls into one of ten groups which are as follows:

0	Alphanumeric data element	5	Unassigned
1	Code value data element	6	Date data element
2	Identification number data element	7	Other data element
3	Numeric integer data element	8	Unassigned
4	Numeric real data element	9	Unassigned

Section VII, References, Release 1.00, specifically defines each data category that exists.

DATA TRANSFER FILE

A collection of logically related records formatted for input to the FRDS-II Computer System. See also: *DTF*. Contrast with: *DATA TRANSFER FORMAT*.

DATA TRANSFER FORMAT

The specific format in which the FRDS-II computer system expects to receive all data for verification and entry into its data base. The data transfer format does not resemble the FRDS-II data capture forms, but in fact, is quite different. The format is as follows:

<u>Positions</u>	<u>Contents</u>	<u>Comments / Example</u>
1 - 2	Form ID	The letter/number combination that appears in the left hand margin on the data capture forms.
3 - 11	Qualifier #1.	Is always the PWS-ID.
12 - 18	Qualifier #2	e.g., 017 (a source ID number).
19 - 25	Qualifier #3	e.g., 05 (a treatment ID number).
26 - 26	DIM Code	e.g., M (modify).
27 - 31	Data Element	e.g., C0483 (the data element for the treatment objective).
32 - 71	Data Value	e.g., D (code for disinfection).
72 - 74	Blank/Error	Blank on input, error code if transaction rejected
75 - 80	Batch Date	e.g., 061892 (a date).

See also: *DIM CODE*. Contrast with: *DATA TRANSFER FILE*.

DATE

A SYSTEM 2000™ data element data type. Date data element values are calendar dates. In FRDS-II, date data elements are presented in mm/dd/yy format. See also: *CHARACTER, TEXT, INTEGER, DECIMAL*.

DBMS

An abbreviation for a Data Base Management System. See also: *SYSTEM 2000™, DATA BASE MANAGEMENT SYSTEM, FRDS-II*.

DEACTIVATED

The process whereby a public water system is changed from an active water system to an inactive water system by explicit action of the State. See also: *ACTIVE, ACTIVE WATER SYSTEM, INACTIVE, INACTIVE WATER SYSTEM*.

DEC

See *DECIMAL*.

DECIMAL

A SYSTEM 2000™ data element data type. Decimal data element values are numeric real numbers (i.e., they may contain a decimal point). Contrast with: *INTEGER*. See also: *CHARACTER, TEXT, DATE, NUMERIC*.

DIATOMACEOUS EARTH FILTRATION

A treatment process which results in substantial particulate removal in which (1) a precoat cake of diatomaceous earth filter media is deposited on a support membrane (septum), and (2) while water is filtered by passing through the cake on the septum, additional filter media known as body feed is continuously added to the feed water, in order to maintain the permeability of the filter cake.

DIM CODE

An abbreviation for the Delete/Insert/Modify update action code on FRDS-II Data Transfer File (DTF) transactions. See also: *DATA TRANSFER FORMAT*.

DIRECT FILTRATION

A series of treatment processes including coagulation and filtration, but excluding sedimentation, which result in substantial particulate removal.

DISINFECTANT

Any oxidant, including but not limited to chlorine, chlorine dioxide, chloramines, and ozone added to water in any part of the treatment or distribution process, that is intended to kill or inactivate pathogenic microorganisms. See also: *PATHOGENIC*, *DISINFECTION*.

DISINFECTANT CONTACT TIME

The time in minutes that it takes for water to move from the point of disinfectant application or the previous point of disinfectant residual measurement to a point before or at the point where residual disinfectant concentration (C) is measured. See also: *CT*, *RESIDUAL DISINFECTANT CONCENTRATION*.

DISINFECTION

A treatment process which inactivates pathogenic organisms in water by chemical oxidants or equivalent agents. See also: *PATHOGENIC*, *DISINFECTANT*.

DISTRIBUTION SYSTEM

The means through which finished drinking water is conveyed from the point of its production to the consumer's tap (i.e., the network of water lines including, the prime conduit and the major, minor, and transmission arteries of the water conveyance system). More formally stated, the term applies specifically to the network of pipelines, distributing reservoirs, mains, service pipes, and the like.

DOMESTIC OR OTHER NON-DISTRIBUTION SYSTEM PLUMBING PROBLEM

A coliform contamination problem in a public water system with more than one service connection that is limited to the specific service connection from which a coliform-positive sample was taken.

DTF

An abbreviation for Data Transfer File. See also: *DATA TRANSFER FILE, DATA TRANSFER FORMAT.*

- E -**EFFECTIVE CORROSION INHIBITOR RESIDUAL**

This definition is applicable to those NPDWRs which apply to the Control of Lead and Copper.

A concentration sufficient to form a passivating film on the interior walls of a pipe. See also: *CORROSION INHIBITOR.*

ENFORCEMENT

See *ENFORCEMENT ACTION.*

ENFORCEMENT ACTION

Any action (formal or informal) taken against a public water system in response to a violation. See also: *ACTIONS.* Contrast with: *VIOLATION.*

ENTITY

In FRDS-II, an entity can be any facility which is related to a public water system. The term facility includes, but is not necessarily limited to, any of the following:

- Water collection apparatus (e.g., an intake, a well).
- Treatment plant (e.g., chlorinator at a well head, a large water treatment plant).
- Entry point to the distribution system.
- Water storage tank or holding area (e.g., elevated tank, reservoir, pressure tank, ground-level cistern).
- Auxiliary pumping equipment (e.g., a booster pump).

ENTRY POINT

The point at which drinking water enters the distribution system.

The term "Entry Point" is often confused with and incorrectly interchanged with "Point-of-Entry." In actuality, the two terms refer to completely different locations which are not interrelated.

If the water is treated, entry point refers to the point at which the water exits the treatment facility and enters the distribution system.

If treated or untreated water is stored, entry point refers to the point at which the water exits from the storage facility and enters the distribution system.

If the water is untreated, entry point refers to the point at which the water exits from the source and its facilities (e.g., its pump) and enters the distribution system.

Contrast with: *POINT-OF-ENTRY*, *POINT-OF-USE*. See also: *SERVICE CONNECTION*.

ETIOLOGIC

- Assigning or seeking to assign a cause.
- Of, or relating to, etiology.

See *GIARDIA LAMBLIA*.

ETIOLOGY

- All of the causes of a disease or abnormal condition.
- A branch of knowledge dealing with causes.

EPA

An abbreviation for the United States Environmental Protection Agency.

EXEMPTION

A means by which a public water system is exempted from a maximum contaminant level requirement, treatment requirement, or both, of an applicable primary drinking water regulation. An exemption may be granted if all of the following conditions are met:

- Due to compelling reasons (including economic factors), the public water system is unable to comply with the requirement.
- The public water system was in operation on the date on which the MCL or treatment requirement was effective.
- The granting of the exemption will not result in an unreasonable risk to health.

Contrast with: *VARIANCE, TURBIDITY WAIVER.*

- F -

FACILITY

See *ENTITY*.

FECAL COLIFORM BACTERIA

Coliform bacteria that are fecal in origin (fecal coliforms). Their presence in drinking water is strong evidence of recent sewage contamination and indicates that an urgent public health problem exists, since fecal pathogens often co-exist with fecal coliforms.

See also: *BACTI, TOTAL COLIFORM BACTERIA, HETEROTROPHIC BACTERIA, GIARDIA LAMBLIA, LEGIONELLAE, PATHOGENIC VIRUSES, CONTAMINANT.*

FILTRATION

A treatment process for removing particulate matter from water by passage through porous media.

FIPS

An abbreviation used to refer to a Federal Information Processing Standard.

FIPS PUBS

An abbreviation used to refer to the Federal Information Processing Standard PublicationS.

FIRST DRAW SAMPLE

A one-liter sample of tap water [collected in accordance with §141.86(b)(2)] that has been standing in plumbing pipes at least 6 hours and is collected without flushing the tap.

Contrast with: *SERVICE LINE SAMPLE.*

FLOCCULATION

A treatment process to enhance agglomeration or collection of smaller floc particles into larger, more easily settleable particles through gentle stirring by hydraulic or mechanical means.

FRDS

An abbreviation for the Federal Reporting Data System. See also: *FRDS-II*.

FRDS-DE

FRDS-DE (pronounced FERDY) is a PC-based data entry package developed and maintained by the Office of Ground Water and Drinking Water. FRDS-DE supports input of data contained on all FRDS-II Data Capture Forms and formats the entered data into the FRDS-II Data Transfer File (DTF) format. See also *DATA TRANSFER FORMAT*.

FRDS-II

The Federal Reporting Data System, version II. Operated and maintained by the U.S. EPA, Office of Ground Water and Drinking Water. A data base management system application that stores public water system inventory, violation, enforcement action, milestone, sample, variance/exemption/other related data, and State Discretionary Data.

Data contained in FRDS-II is reported to EPA by the States having jurisdiction over public water systems. When reported, this data fulfills the States' data reporting obligations as established in the National Primary Drinking Water Regulations. See also: *ACT, SDWA, NIPDWR, NRPDWR, NPDWR, STATE, PRIMACY AGENT, MSIS, SYSTEM 2000™, DATA BASE MANAGEMENT SYSTEM, DBMS*.

- G -

GIARDIA LAMBLIA

A protozoan that causes more waterborne disease outbreaks in the United States than any other single identified etiologic agent. Symptoms of giardiasis include diarrhea, fatigue, abdominal cramps, and possibly other gastrointestinal symptoms.

Filtration and disinfection requirements for surface water systems have been promulgated to protect against the potential adverse health affects of exposure to *Giardia lamblia*, pathogenic viruses, *Legionella*, and heterotrophic bacteria, as well as many other pathogenic organisms that are removed by these treatment techniques.

See also: *ETIOLOGIC, PATHOGENIC, BACTI, TOTAL COLIFORM BACTERIA, FECAL COLIFORM BACTERIA, HETEROTROPHIC BACTERIA, LEGIONELLAE, PATHOGENIC VIRUSES, CONTAMINANT.*

GGC

An abbreviation for Group Generation Code. See *GROUP GENERATION CODE*.

GRANT ELIGIBLE

A term used to refer to whether or not a public water system in the FRDS-II Data Base is to be counted in the computation of a State's grant allocation. See also: *GRANT REQUIREMENT*.

GRANT REQUIREMENT

In FRDS-II, certain data elements must contain a valid value for a public water system to be counted when the State's grant allocation is computed. If ANY of these data elements are not valued, the public water system will NOT be counted for grant allocation purposes. This is otherwise referred to as grant eligibility.

NOTE 13 in the Section II, Data Element Descriptions Introduction interprets the meaning of the several values which appear within Section II next to the heading which reads, "Grant Requirement," and Section III, Quick Reference, sub-section B, Comprehensive Data Element Table, identifies all data elements which must be valued for a public water system to be considered grant eligible. Contrast with: *REGISTRATION REQUIREMENT*. See also: *GRANT ELIGIBLE*.

GROUND WATER PWS

See *GROUND WATER SYSTEM*.

GROUND WATER SOURCE

An underground source of water (i.e., the water is extracted via a well). All water in the zone of saturation is referred to as ground water.

Contrast with: *SURFACE SOURCE, GROUND WATER UDISW SOURCE, PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE*. See also: *PRIMARY SOURCE, AQUIFER, ARTESIAN AQUIFER, WATER TABLE AQUIFER, ZONE OF SATURATION, WELL*.

GROUND WATER SYSTEM

A public water system which has a ground water primary source designation.

A ground water system is a public water system that obtains water from one or more permanently available non-purchased ground water sources, and does not obtain water from any permanently available surface or ground water UDISW sources (purchased or non-purchased).

In classifying a public water system as a ground water system, the way in which each source of water is utilized (i.e., the availability of the source) is of utmost importance.

Contrast with: *SURFACE WATER SYSTEM, GROUND WATER UDISW SYSTEM, PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM*. See also: *GROUND WATER SOURCE, PRIMARY SOURCE, AVAILABILITY*.

GROUND WATER UDISW PWS

See *GROUND WATER UDISW SYSTEM*.

GROUND WATER UDISW SOURCE

Note: UDISW is an abbreviation for, "Under the Direct Influence of Surface Water."

Any water beneath the surface of the ground with (1) significant occurrence of insects or other macroorganisms, algae, or large-diameter pathogens such as *Giardia lamblia*, or (2) significant and relatively rapid shifts in water characteristics such as turbidity, temperature, conductivity, or pH which closely correlate to climatological or surface water conditions.

Contrast with: *SURFACE SOURCE, GROUND WATER SOURCE, PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE*. See also: *PRIMARY SOURCE, AQUIFER, ARTESIAN AQUIFER, WATER TABLE AQUIFER, ZONE OF SATURATION, WELL*.

GROUND WATER UDISW SYSTEM

A public water system which has a ground water under the direct influence of surface water (UDISW) primary source designation.

A ground water UDISW system is a public water system that obtains water from one or more permanently available non-purchased ground water UDISW sources, and does not obtain water from any permanently available surface water sources (purchased or non-purchased).

In classifying a public water system as a ground water UDISW system, the way in which each source of water is utilized (i.e., the availability of the source) is of utmost importance.

Contrast with: *SURFACE WATER SYSTEM, GROUND WATER SYSTEM, PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM*. See also: *GROUND WATER UDISW SOURCE, PRIMARY SOURCE, AVAILABILITY*.

GROUP GENERATION CODE

A group generation code (GGC) is used to communicate to FRDS-II that the user wants the computer to automatically generate an ID number for a set of related data (e.g., the name, street, city, state, and zip code of an owner address) that is to be inserted into the FRDS-II Data Base.

In order to use a GGC, the user must specify the letter "G" in conjunction with a sequential number on all related items of data. Each data base record in the input file must have its own unique GGC. By design, the GGC itself is not retained in the FRDS-II Data Base, but serves in a temporary capacity only. When encountered during update processing, FRDS-II converts a GGC into the next available ID number (specific to an individual public water system) for the type of data encountered (e.g., source of water, geographic area served).

- H -

HETEROTROPHIC BACTERIA

A broad class of organisms which use organic nutrients for growth. This group includes virtually all of the bacterial pathogens as well as many other innocuous bacteria and those bacteria which infect when the host's defenses are weakened (opportunistic pathogens).

Filtration and disinfection requirements for surface water systems have been promulgated to protect against the potential adverse health affects of exposure to *Giardia lamblia*, pathogenic viruses, *Legionella*, and heterotrophic bacteria, as well as many other pathogenic organisms that are removed by these treatment techniques.

See also: *HETEROTROPHIC PLATE COUNT BACTERIA, HPC, PATHOGENIC, BACTI, TOTAL COLIFORM BACTERIA, FECAL COLIFORM BACTERIA, GIARDIA LAMBLIA, LEGIONELLAE, PATHOGENIC VIRUSES, CONTAMINANT*.

HETEROTROPHIC PLATE COUNT BACTERIA

A measurement of the population density of heterotrophic bacteria by the Heterotrophic Plate Count (HPC) analytical technique. HPC was previously known as the Standard Plate Count (SPC) technique. See *HETEROTROPHIC BACTERIA*, *HPC*.

HISTORICAL INVENTORY

One of two general classifications of FRDS-II public water system inventory data.

Historical inventory refers to those public water systems that were in the current inventory at one time, but were assigned to the historical inventory during the conversion from FRDS 1.5 to FRDS-II, were assigned to the historical inventory by explicit action of the FRDS Data Base Administrator, or were assigned to the historical inventory as a result of "total replacement" update processing as described below, and, consequently, are no longer part of the current inventory.

Conversion from FRDS 1.5 to FRDS-II

In FRDS 1.0 and 1.5, all inventory data relating to public water systems was maintained in separate fiscal year data bases ... one data base for each Federal fiscal year beginning with 1979. When this data was consolidated for entry into the FRDS-II Data Base, each public water system in the individual fiscal year data bases was checked to see if it existed in the most current fiscal year data base. If it did, the public water system was placed into the current inventory category. If not, the public water system was placed into the historical inventory category.

Assigned by explicit action of the FRDS Data Base Administrator

A public water system that has been inactive for a substantial period of time may be assigned to the historical inventory, at the discretion of the FRDS Data Base Administrator.

Total Replace Update Processing

If a State submitted a "total replacement" to its inventory of public water systems in the most recent reporting period, the term current inventory refers to those public water systems which were reported in that most recent period. Those systems that existed in the current inventory prior to the update, for which a replacement was not submitted, would become part of the historical inventory.

The active versus inactive classification is often confused with the current versus historical classification. Classifying a public water system as active or inactive is

exclusively at the State's discretion. It is the way in which the State indicates the present operational status of a public water system. Classifying a public water system as part of the current or historical inventory is performed automatically by the FRDS-II computer system. It indicates whether or not a public water system is embodied in the most recent inventory submission from the State.

Contrast with: *ACTIVE, CURRENT INVENTORY, INACTIVE*. See also: *TOTAL REPLACE UPDATE*.

HPC

An abbreviation for the Heterotrophic Plate Count analytical technique used to measure the population density of heterotrophic bacteria. HPC was previously known as the Standard Plate Count (SPC) technique. See *HETEROTROPHIC BACTERIA, HETEROTROPHIC PLATE COUNT BACTERIA*.

HUC CODE

An abbreviation for a Hydrologic Unit Code. See *HYDROLOGIC UNIT CODE*.

HYDROLOGIC UNIT CODE

A code that identifies a hydrologic system which divides the United States and the Caribbean into 21 major regions. These regions are further subdivided into approximately 2,150 units that delineate river basins having drainage areas usually greater than 700 square miles.

The HUC code provides a standardized base for use by water-resources organizations in the storage, retrieval, and exchange of hydrologic data; the indexing and inventorying of hydrologic data and information; the cataloging of water-data acquisition activities; and a variety of other applications.

The hydrologic unit code is eight digits in length, and consists of a two digit region, a two digit subregion, a two digit accounting unit, and a two digit cataloging unit. Each portion of the HUC code, respectively, defines a drainage basin, from largest to smallest in size. See also: *STORET, RIVER REACH*.

- I -**INACTIVE**

A term used to refer to a public water system that is not an active public water system. Such a system has discontinued operation.

A public water system that has closed permanently is an obvious example of a system that would be an inactive system.

A public water system that has closed temporarily, but for a substantial period of time, could be designated as inactive by the State, but not necessarily so. This decision depends upon State specific policy regarding such systems.

The active versus inactive classification is often confused with the current versus historical classification. Classifying a public water system as active or inactive is exclusively at the State's discretion. It is the way in which the State indicates the present operational status of a public water system. Classifying a public water system as part of the current or historical inventory is performed automatically by the FRDS-II computer system. It indicates whether or not a public water system is embodied in the most recent inventory submission from the State.

Contrast with: *ACTIVE, CURRENT INVENTORY, HISTORICAL INVENTORY*. See also: *INACTIVE WATER SYSTEM*.

INACTIVE PWS

See *INACTIVE WATER SYSTEM*.

INACTIVE WATER SYSTEM

A public water system that is inactive. Contrast with: *ACTIVE WATER SYSTEM*. See also: *INACTIVE*.

INCORPORATED PLACE

A populated place possessing legally defined boundaries and legally constituted governmental functions. May serve as a primary county division in some States. See also: *POPULATED PLACE, PRIMARY COUNTY DIVISION*.

INDEPENDENT CITY

An incorporated place not included in a county or another county equivalent. Serves as a county equivalent. See also: *INCORPORATED PLACE, COUNTY EQUIVALENT*.

INITIAL COMPLIANCE PERIOD

This definition is applicable only to the Phase I, II, IIB, and V contaminant monitoring requirements.

For those contaminants regulated prior to the Phase V rule (i.e., the Phase I rule, the Phase II rule, and the Phase IIB rule), the initial compliance period is the first full three-year compliance period which begins at least 18 months after promulgation.

For those contaminants regulated by the Phase V rule, the initial compliance period is dependent upon the number of service connections a public water system has, as follows:

- If the public water system has 150 or more service connections, the initial compliance period is the first full three-year compliance period after promulgation (i.e., January 1, 1993, to December 31, 1995).
- If the public water system has fewer than 150 service connections, the initial compliance period is the first full three-year period after the effective date of the regulation (i.e., January 1, 1996, to December 31, 1998).

Contrast with: *REPEAT COMPLIANCE PERIOD*. See also: *COMPLIANCE CYCLE*, *COMPLIANCE PERIOD*.

INORGANICS

See *INORGANIC CHEMS*.

INORGANIC CHEMS

Chemical substances that are characterized by the absence of the chemical element Carbon.

Contrast with: *ORGANIC CHEMS*, *RADS*. See also: *CONTAMINANT*.

INT

See *INTEGER*.

INTAKE

The point at which water is withdrawn from a surface water source. The term intake refers the intake structure itself (e.g., the float, inlet screen, and anchor).

INTEGER

A SYSTEM 2000™ data element data type. Integer data element values are numeric whole numbers (i.e., no decimal points are permitted). Contrast with: *DECIMAL*. See also: *CHARACTER, TEXT, DATE, NUMERIC*.

INVENTORY

A term used to refer to public water system inventory data submitted as a part of a State's quarterly update to FRDS-II. When reported, Inventory data must be segregated from Sample data, but may be reported individually or combined with Actions data, as desired. Contact FRDS Production Control for additional details.

Inventory data refers to that information stored in the following FRDS-II Data Base records:

C100, PWS-SUMMARY
C300, PWS-ADDRESS-DATA
C400, PWS-SOURCE-ENTITY-INFO
C480, PWS-SE-TREATMENT-DATA
C500, PWS-GEOGRAPHIC-DATA
C600, PWS-SERVICE-AREAS
C700, PWS-ON-SITE-VISITS
C800, PWS-MILESTONES-EVENTS
C4000, STATE-DISCRETIONARY-DATA

Contrast with: *ACTIONS, SAMPLES*.

IOC

An abbreviation for InOrganic Chemical. See: *INORGANIC CHEMS*.

IOCs

An abbreviation for InOrganic Chemicals. See: *INORGANIC CHEMS*.

- K -

KEY

A SYSTEM 2000™ term used to refer to a data element for which an internal index is maintained to optimize retrieval. Contrast with: *NON-KEY*.

- L -**LARGE WATER SYSTEM**

This definition is applicable to those NPDWRs which apply to the control of Lead and Copper.

A water system that serves more than 50,000 persons.

Contrast with: *MEDIUM-SIZE WATER SYSTEM*, *SMALL WATER SYSTEM*. See also: *PUBLIC WATER SYSTEM*.

LEAD AND COPPER RULE

Regulations promulgated on June 7, 1991, for controlling lead and copper in drinking water.

The rule encompasses monitoring requirements and treatment technique requirements that include corrosion control treatment, source water treatment, lead service line replacement, and public education.

LEAD SERVICE LINE

A service line made of lead which connects the water main to the building inlet and any lead pigtail, gooseneck, or other fitting which is connected to such lead line.

LEGIONELLAE

Bacteria that have been identified as the cause of legionellosis. It has been estimated that between 50,000 and 100,000 cases of this disease occur annually within the United States, and are caused primarily by 1 of the 26 currently recognized species of the genus *Legionella*.

Filtration and disinfection requirements for surface water systems have been promulgated to protect against the potential adverse health affects of exposure to *Giardia lamblia*, pathogenic viruses, *Legionella*, and heterotrophic bacteria, as well as many other pathogenic organisms that are removed by these treatment techniques.

See also: *PATHOGENIC*, *BACTI*, *TOTAL COLIFORM BACTERIA*, *FECAL COLIFORM BACTERIA*, *GIARDIA LAMBLIA*, *HETEROTROPHIC BACTERIA*, *PATHOGENIC VIRUSES*, *CONTAMINANT*.

- M -**MAJOR VIOLATION**

One of two general classifications of some monitoring and reporting (M&R) violations. Categorization of a violation as "Major" does not apply to sanitary survey M&R, maximum contaminant level (MCL), treatment technique, public notification (PN), and/or other types of violations associated with the Lead and Copper Rule.

The definition of what constitutes a major violation differs depending upon the rule in question. In the absence of a rule-specific definition, the general definition presented below applies.

TCR**Routine Samples** (i.e., violation type 23)

A system that fails to take all (takes no samples) of the required routine samples in a compliance period.

Repeat Samples (i.e., violation type 25)

A system that does not conduct follow-up monitoring after a total coliform-positive sample (i.e., takes no repeat samples and/or conducts no speciation for fecal/E. coli).

SWTR (i.e., violation types 31 and 36)

Systems that fail to take more than 10% of the required samples per reporting period.

GENERAL

An M&R violation in which no samples were collected and/or reported.

Applies only to regular monitoring violations (i.e., violation type 03). Does not apply to check/repeat/confirmation sampling violations (i.e., violation type 04).

Contrast with: *MINOR VIOLATION*.

MAXIMUM CONTAMINANT LEVEL

The maximum permissible level of a contaminant in water which is delivered to any user of a public water system.

MCD

An abbreviation for a Minor Civil Division. See *MINOR CIVIL DIVISION*.

MCL

An abbreviation for Maximum Contaminant Level. See *MAXIMUM CONTAMINANT LEVEL*.

MCLG

An abbreviation for Maximum Contaminant Level Goal. This term replaces the previously used term of RMCL (i.e., recommended maximum contaminant level). MCLGs are non-enforceable health goals which are set at the level at which no known or anticipated adverse effects on the health of persons occur and which allows an adequate margin of safety.

MEDIUM-SIZE WATER SYSTEM

This definition is applicable to those NPDWRs which apply to the Control of Lead and Copper.

A water system that serves greater than 3,300 persons and less than or equal to 50,000 persons.

Contrast with: *LARGE WATER SYSTEM*, *SMALL WATER SYSTEM*. See also: *PUBLIC WATER SYSTEM*.

MICROBIOLOGICAL

See *BACTI*.

MINOR CIVIL DIVISION

A political or administrative area of a county or county equivalent, other than an incorporated place, established by appropriate State or local government authorities and adopted as a primary county division. MCDs occur in 29 States and in several State equivalents (e.g., a township in Ohio or a town in Vermont). See also: *COUNTY EQUIVALENT*, *INCORPORATED PLACE*, *PRIMARY COUNTY DIVISION*, *STATE EQUIVALENT*.

MINOR VIOLATION

One of two general classifications of some monitoring and reporting (M&R) violations. Categorization of a violation as "Minor" does not apply to sanitary survey M&R, maximum contaminant level (MCL), treatment technique, public notification (PN), and/or other types of violations associated with the Lead and Copper Rule.

The definition of what constitutes a minor violation differs depending upon the rule in question. In the absence of a rule-specific definition, the general definition presented below applies.

TCR**Routine Samples** (i.e., violation type 24)

A system that fails to take some (but not all) of the required routine samples in a compliance period.

Repeat Samples (i.e., violation type 26)

A system that fails to take some of the required repeat samples and/or a system that fails to speciate at least one (but not all) total coliform-positive samples for fecal/E. coli.

SWTR (i.e., violation types 31 and 36)

Any other violators (i.e., the M&R violation is **NOT** a major violation)

GENERAL

An M&R violation in which some, but not all, of the samples required to be collected and reported were actually collected and/or reported.

Applies only to regular monitoring violations (i.e., violation type 03). Does not apply to check/repeat/confirmation sampling violations (i.e., violation type 04).

Contrast with: **MAJOR VIOLATION**.

MODEL STATE INFORMATION SYSTEM

Originally developed for the U.S. EPA, Office of Water Supply (now known as the Office of Ground Water and Drinking Water). MSIS is a management information system that was made available to the States to assist them in their data management activities relating to implementation of the Safe Drinking Water Act, and its associative National Primary Drinking Water Regulations. See also: *FRDS-II*, *ACT*, *SDWA*, *NIPDWR*, *NRPDWR*, *NPDWR*.

MSA

An abbreviation for a Metropolitan Statistical Area. An MSA is a geographic area, consisting of a large population nucleus together with adjacent communities having a high degree of economic and social integration with that nucleus. MSAs are defined in Federal Information Processing Standard Publication (FIPS PUB) 8-5 entitled, Metropolitan Statistical Areas (Including CMSAs, PMSAs, and NECMAs). See also: *CMSA*, *PMSA*, *NECMA*.

MSIS

An abbreviation for the Model State Information System. See **MODEL STATE INFORMATION SYSTEM**.

- N -**NCC**

An abbreviation for EPA's National Computer Center located at Research Triangle Park, North Carolina.

NCP

An abbreviation for Non Compliance Profile. See also: *NCP PROCESSING*, *NCP RECORD*, *NCP WINDOW*.

NCP PROCESSING

A process whereby the FRDS-II computer system re-generates NCP windows. See also: *NCP*, *NCP RECORD*, *NCP WINDOW*, *PUP*. Contrast with: *RECON*, *VALLINKS*.

NCP RECORD

The C1350 Data Base record of the FRDS-II Data Base. See also: *NCP*, *NCP PROCESSING*, *NCP WINDOW*.

NCP WINDOW

An NCP record which depicts a specific period of time (defined by the window begin date and the number of months in the window) for a specific contaminant.

For example: If one chose to examine those public water systems having two or more BACTI MCL violations during the third quarter of Federal fiscal year 1992, he/she could retrieve public water systems with:

Window begin date (C1351) = 9204 AND
Window months (C1353) = 3 AND
(Contaminant (C1357) = 3000 OR
Contaminant (C1357) = 3100) AND
MCL violations (C1359) > 1

Note: NCP windows do not address/incorporate violations for the following rules:

- TCR
- SWTR
- Lead/Copper

See also: *NCP*, *NCP PROCESSING*, *NCP RECORD*.

NCWS

An abbreviation for a Non-Community public Water System. See *NON-COMMUNITY WATER SYSTEM*.

NEAR THE FIRST SERVICE CONNECTION

One of the 20 percent of all service connections in the entire system that are nearest the water supply treatment facility, as measured by the water transport time within the distribution system. See also: *DISTRIBUTION SYSTEM*, *SERVICE CONNECTION*.

NECMA

An abbreviation for a New England County Metropolitan Area. A NECMA is a geographic area consisting of a large population nucleus together with adjacent communities having a high degree of economic and social integration with that nucleus. NECMAs, however, are for the New England States only. NECMAs are defined in Federal Information Processing Standard Publication (FIPS PUB) 8-5 entitled, Metropolitan Statistical Areas (Including CMSAs, PMSAs, and NECMAs). See also: *CMSA*, *MSA*, *PMSA*.

NIPDWR

An abbreviation for the National Interim Primary Drinking Water Regulations. Originally published in the Federal Register on December 24, 1976. Amended several times. Subsequent to the 1986 Amendments to the Safe Drinking Water Act, known as National Primary Drinking Water Regulations (NPDWR). See also: *NRPDWR*, *NPDWR*, *SDWA*, *ACT*, *PRIMARY REGULATION*, *SECONDARY REGULATION*.

NON-COMMUNITY PWS

See *NON-COMMUNITY WATER SYSTEM*.

NON-COMMUNITY WATER SYSTEM

A type of public water system that is not a community public water system.

There are two types of non-community public water systems; a transient non-community public water system and a non-transient non-community public water system.

Contrast with: *COMMUNITY WATER SYSTEM*. See also: *TRANSIENT NON-COMMUNITY WATER SYSTEM*, *NON-TRANSIENT NON-COMMUNITY WATER SYSTEM*, *CONSECUTIVE WATER SYSTEM*, *PUBLIC WATER SYSTEM*.

NON-KEY

A SYSTEM 2000™ term used to refer to a data element for which an internal index is NOT maintained to optimize retrieval. Contrast with: *KEY*.

NON-TRANSIENT NON-COMMUNITY PWS

See *NON-TRANSIENT NON-COMMUNITY WATER SYSTEM*.

NON-TRANSIENT NON-COMMUNITY WATER SYSTEM

A type of public water system. Non-transient non-community water system means a public water system that is not a community water system and that regularly serves at least 25 of the same persons over six months per year.

Contrast with: *COMMUNITY WATER SYSTEM, TRANSIENT NON-COMMUNITY SYSTEM*. See also: *NON-COMMUNITY WATER SYSTEM, CONSECUTIVE WATER SYSTEM, PUBLIC WATER SYSTEM*.

NON-PLACE COUNTY EQUIVALENT

A county equivalent that is not an independent city. See also: *COUNTY EQUIVALENT, INDEPENDENT CITY*.

NPDWR

An abbreviation for the National Primary Drinking Water Regulations.

Establishes primary regulations pursuant to Section 1412 of the Public Health Service Act, as amended by the Safe Drinking Water Act.

All National Interim Primary Drinking Water Regulations (NIPDWR) and National Revised Primary Drinking Water Regulations (NRPDWR) are known as National Primary Drinking Water Regulations subsequent to the 1986 Amendments to the Safe Drinking Water Act.

See also: *NIPDWR, NRPDWR, SDWA, ACT, PRIMARY REGULATION, SECONDARY REGULATION*.

NRPDWR

An abbreviation for the National Revised Primary Drinking Water Regulations. Originally intended to replace the National Interim Primary Drinking Water Regulations (NIPDWR). Subsequent to the 1986 Amendments to the Safe Drinking Water Act, known as National Primary Drinking Water Regulations (NPDWR). See also: *NIPDWR, NRPDWR, SDWA, ACT, PRIMARY REGULATION, SECONDARY REGULATION*.

NTNCWS

An abbreviation for a Non-Transient Non-Community public Water System. See *NON-TRANSIENT NON-COMMUNITY WATER SYSTEM*.

NUMERIC

A term used to describe a class of data element values. A numeric data element's values consist of combinations of the numbers zero through nine, and, if needed, a decimal point. There are two distinct types of numeric values ... integer values and real values. Contrast with: *ALPHABETIC*, *ALPHANUMERIC*. See also: *INTEGER*, *DECIMAL*.

- O -

OGWDW

An abbreviation for the Office of Ground Water and Drinking Water of the United States Environmental Protection Agency (EPA). Responsible for the establishment and maintenance of national drinking water regulations, as well as the operation and maintenance of the Federal Reporting Data System (FRDS-II). See also: *ACT*, *SDWA*, *NIPDWR*, *NRPDWR*, *NPDWR*, *FRDS-II*.

OPTIMAL CORROSION CONTROL TREATMENT

This definition is applicable to those NPDWRs which apply to the Control of Lead and Copper.

The corrosion control treatment that minimizes the lead and copper concentrations at users' taps while insuring that the treatment does not cause the water system to violate any national primary drinking water regulations.

ORGANICS

See *ORGANIC CHEMS*.

ORGANIC CHEMS

Chemical substances that are characterized by the presence of the chemical element Carbon in their compounds. The majority of regulated organic compounds are classified into either Synthetic Organic Chemicals (SOCs) or Volatile synthetic Organic Chemicals (VOCs). A third classification of regulated organic compounds are the Total trihalomethanes (TTHM), which are disinfection by-products.

Contrast with: *INORGANIC CHEMS*, *RADS*. See also: *SOCs*, *VOCs*, *TTHM*, *CONTAMINANT*.

- P -**PATHOGEN**

A specific causative agent (as a bacterium or virus) of disease. See also: *PATHOGENIC, PATHOGENIC VIRUSES*.

PATHOGENIC

Causing or capable of causing disease. See also: *PATHOGEN, PATHOGENIC VIRUSES*.

PATHOGENIC VIRUSES

Viruses are a class of infectious agents which are extremely small (smaller than bacteria) and reproduce only within cells of a suitable living host such as humans. They contain genetic material surrounded by a protein coat. Pathogenic viruses, by definition, are those that adversely affect health. See also: *PATHOGEN, PATHOGENIC, TOTAL COLIFORM BACTERIA, FECAL COLIFORM BACTERIA, HETEROTROPHIC BACTERIA, GIARDIA LAMBLIA, LEGIONELLAE, CONTAMINANT, VIRUS*.

Filtration and disinfection requirements for surface water systems have been promulgated to protect against the potential adverse health affects of exposure to *Giardia lamblia*, pathogenic viruses, *Legionella*, and heterotrophic bacteria, as well as many other pathogenic organisms that are removed by these treatment techniques.

See also: *PATHOGENIC, BACTI, TOTAL COLIFORM BACTERIA, FECAL COLIFORM BACTERIA, GIARDIA LAMBLIA, HETEROTROPHIC BACTERIA, LEGIONELLAE, PATHOGEN, CONTAMINANT*.

PHASE I RULE

Regulations promulgated on July 8, 1987 for 8 Volatile synthetic Organic Chemicals (VOCs) and 51 Unregulated Chemicals. Refer to 52 FR 25690. See also: *PHASE II RULE, PHASE IIB RULE, PHASE V RULE*.

PHASE II RULE

Regulations promulgated on January 30, 1991, for 10 Volatile synthetic Organic Chemicals (VOCs), 14 Synthetic Organic Chemicals (SOCs), 2 water treatment chemicals, 7 Inorganic Chemicals (IOCs), 24 Unregulated Organic Chemicals, and 6 Unregulated Inorganic Chemicals. Refer to 56 FR 3526. See also: *PHASE I RULE, PHASE IIB RULE, PHASE V RULE*.

PHASE IIB RULE

Regulations promulgated on July 1, 1991, for 4 Synthetic Organic Chemicals (SOCs) and 1 Inorganic Chemical (IOC), revisions to the monitoring requirements for the Phase I VOCs, and technical corrections/clarifications to the Phase II rule. Refer to 56 FR 30266. See also: *PHASE I RULE*, *PHASE II RULE*, *PHASE V RULE*.

PHASE V RULE

Regulations promulgated on July 17, 1992, for 3 Volatile synthetic Organic Chemicals (VOCs), 15 Synthetic Organic Chemicals (SOCs), and 5 Inorganic Chemicals (IOCs), revisions to the list of Unregulated Organic and Inorganic Chemicals, and technical corrections/clarifications to the Phase I, II, and IIB rules. Refer to 57 FR 31776. See also: *PHASE I RULE*, *PHASE II RULE*, *PHASE IIB RULE*.

PLANT

See *TREATMENT FACILITY*.

PMSA

An abbreviation for a Prietary Metropolitan Statistical Area. A PMSA is a geographic area consisting of a large population nucleus together with adjacent communities having a high degree of economic and social integration with that nucleus.

Unlike an MSA, however, PMSA is a subdivision or major component of a consolidated metropolitan statistical area (CMSA) which has more than one million people and meets certain other specific requirements. PMSAs and CMSAs are defined in Federal Information Processing Standard Publication (FIPS PUB) 8-5 entitled, Metropolitan Statistical Areas (Including CMSAs, PMSAs, and NECMAs). See also: *CMSA*, *MSA*, *NECMA*.

POINT OF DISINFECTANT APPLICATION

The point at which the water being disinfected is no longer subject to surface runoff.

POINT-OF-ENTRY

The point at which drinking water enters a house or building.

The term "Point-of-Entry" is often confused with and incorrectly interchanged with "Entry Point." In actuality, the two terms refer to completely different locations which are not interrelated.

Contrast with: *ENTRY POINT*, *POINT-OF-USE*. See also: *POINT-OF-ENTRY TREATMENT DEVICE*, *SERVICE CONNECTION*.

POINT-OF-ENTRY TREATMENT DEVICE

A treatment device applied to the drinking water entering a house or building for the purpose of reducing contaminants in the drinking water distributed throughout the house or building. Contrast with: *POINT-OF-USE TREATMENT DEVICE*. See also: *POINT-OF-ENTRY*.

POINT-OF-USE

The point at which drinking water is obtained from a single tap.

Contrast with: *ENTRY POINT*, *POINT-OF-ENTRY*. See also: *POINT-OF-USE TREATMENT DEVICE*, *SERVICE CONNECTION*.

POINT-OF-USE TREATMENT DEVICE

A treatment device applied to a single tap used for the purpose of reducing contaminants in drinking water at that one tap. Contrast with: *POINT-OF-ENTRY TREATMENT DEVICE*. See also: *POINT-OF-USE*.

POPULATED PLACE

A concentration of residential population.

PRIMACY

See *PRIMARY ENFORCEMENT RESPONSIBILITY*.

PRIMACY AGENT

The agency of the State government which has been granted primary enforcement responsibility (primacy) ... the agency which has jurisdiction over public water systems. See also: *STATE*, *PRIMARY ENFORCEMENT RESPONSIBILITY*.

PRIMARY COUNTY DIVISION

One of a set of principal territorial units into which a county or county equivalent is completely subdivided without overlap for census purposes. All counties and non-place county equivalents are so subdivided. See also: *COUNTY EQUIVALENT*, *NON-PLACE COUNTY EQUIVALENT*, *CENSUS COUNTY DIVISION*, *INCORPORATED PLACE*, *MINOR CIVIL DIVISION*, *UNORGANIZED TERRITORY*.

PRIMARY ENFORCEMENT RESPONSIBILITY

The primary responsibility for administration and enforcement of primary drinking water regulations and related requirements applicable to public water systems within a State. See also: *ACT*, *SDWA*, *NIPDWR*, *NRPDWR*, *NPDWR*, *PRIMACY AGENT*, *STATE*.

PRIMARY REGULATION

A drinking water regulation that applies to public water systems, and that specifies maximum contaminant levels and monitoring requirements for contaminants deemed to have an adverse effect on health. Related to the protection of the public health. Contrast with: *SECONDARY REGULATION*. See also: *NIPDWR*, *NRPDWR*, *NPDWR*.

PRIMARY SOURCE

A designation of the type of water system based upon the types of water sources that are utilized, as well as the way in which the sources are utilized. Used in compliance determination processing.

Determination of primary source is based upon two factors. The types of sources being utilized by a public water system, and the availability of those sources (e.g., used on a permanent, seasonal, interim, emergency basis).

A specific hierarchy is followed in determining the primary source. It is as follows:

- 1) Initially, all permanently available sources are examined.
- 2) If a non-purchased surface source is encountered, the public water system is considered to be a surface water system, and the determination process is complete.
- 3) If a purchased surface source is encountered, the public water system is considered to be a purchased surface water system, and the determination process is complete.
- 4) If a non-purchased ground water UDISW source is encountered, the public water system is considered to be a ground water UDISW system, and the determination process is complete.
- 5) If a purchased ground water UDISW source is encountered, the public water system is considered to be a purchased ground water UDISW system, and the determination process is complete.
- 6) If a non-purchased ground water source is encountered, the public water system is considered to be a ground water system, and the determination process is complete.
- 7) If a purchased ground water source is encountered, the public water system is considered to be a purchased ground water system, and the determination process is complete.

- 8) If there are no permanently available sources, all sources are treated equally, regardless of their individual availability, and steps 2 through 7 are repeated.

PRINCIPAL MERIDIAN

A principal meridian is an imaginary north-south surveyor's line which has been defined in conjunction with an imaginary east-west line (i.e., a base line) from which township coordinates are determined. By convention, principal meridians are identified by name. Townships are plots of land, each approximately six miles to the side (i.e., 36 square miles) defined under the Rectangular Survey System of the U.S. Department of Interior, Bureau of Land Management. See also: *BASE LINE*.

PUBLIC WATER SUPPLY

See *PUBLIC WATER SYSTEM*.

PUBLIC WATER SYSTEM

A system that provides piped water to the public for human consumption. To qualify as a public water system, a system must have 15 or more service connections, or regularly serve an average of at least 25 individuals 60 or more days per year.

Although some State regulations differ in the definition of what constitutes a public water system, drinking water obtained from individual household wells, and the like, generally are not public water systems.

Commonly known as a PWS.

According to the Federal definition, a public water system is either a community public water system, a transient non-community public water system, or a non-transient non-community public water system.

See also: *COMMUNITY WATER SYSTEM, NON-COMMUNITY WATER SYSTEM, TRANSIENT NON-COMMUNITY WATER SYSTEM, NON-TRANSIENT NON-COMMUNITY WATER SYSTEM, CONSECUTIVE WATER SYSTEM*.

PUP

An abbreviation for Post Update Processing.

After each update of the FRDS-II Data Base, three processes are performed (the PUPS), as needed. The re-generation of NCP records, reconciliation, and establishment or re-establishment of violation links to enforcements and enforcement links to violations. See also: *NCP PROCESSING, PUPS, RECON, VALLINKS*.

PUPS

An abbreviation for the three Post Update Processing functions. See also: *PUP*.

PURCHASED GROUND WATER PWS

See *PURCHASED GROUND WATER SYSTEM*.

PURCHASED GROUND WATER SOURCE

A source of water that is purchased from a supplier whose primary source is ground water.

Contrast with: *SURFACE SOURCE, GROUND WATER SOURCE, GROUND WATER UDISW SOURCE, PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER UDISW SOURCE*. See also: *PRIMARY SOURCE*.

PURCHASED GROUND WATER SYSTEM

A public water system which has a purchased ground water primary source designation.

A purchased ground water system is a public water system that obtains water from one or more permanently available purchased ground water sources, and does not obtain water from any permanently available surface or ground water UDISW sources (purchased or non-purchased), or from any permanently available non-purchased ground water sources.

In classifying a public water system as a purchased ground water system, the way in which each source of water is utilized (i.e., the availability of the source) is of utmost importance.

Contrast with: *SURFACE WATER SYSTEM, GROUND WATER SYSTEM, GROUND WATER UDISW SYSTEM, PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM*. See also: *PURCHASED GROUND WATER SOURCE, PRIMARY SOURCE, AVAILABILITY*.

PURCHASED GROUND WATER UDISW PWS

See *PURCHASED GROUND WATER UDISW SYSTEM*.

PURCHASED GROUND WATER UDISW SOURCE

A source of water that is purchased from a supplier whose primary source is ground water under the direct influence of surface water (UDISW).

Contrast with: *SURFACE SOURCE, GROUND WATER SOURCE, GROUND WATER UDISW SOURCE, PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE*. See also: *PRIMARY SOURCE*.

PURCHASED GROUND WATER UDISW SYSTEM

A public water system which has a purchased ground water UDISW primary source designation.

A purchased ground water UDISW system is a public water system that obtains water from one or more permanently available purchased ground water UDISW sources, and does not obtain water from any permanently available surface water sources (purchased or non-purchased), or from any permanently available non-purchased ground water UDISW sources.

In classifying a public water system as a purchased ground water UDISW system, the way in which each source of water is utilized (i.e., the availability of the source) is of utmost importance.

Contrast with: *SURFACE WATER SYSTEM, GROUND WATER SYSTEM, GROUND WATER UDISW SYSTEM, PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER SYSTEM*. See also: *PURCHASED GROUND WATER UDISW SOURCE, PRIMARY SOURCE, AVAILABILITY*.

PURCHASED SURFACE PWS

See *PURCHASED SURFACE WATER SYSTEM*.

PURCHASED SURFACE SOURCE

A source of water that is purchased from a supplier whose primary source is surface.

Contrast with: *SURFACE SOURCE, GROUND WATER SOURCE, GROUND WATER UDISW SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE*. See also: *PRIMARY SOURCE*.

PURCHASED SURFACE WATER SYSTEM

A public water system which has a purchased surface water primary source designation,

A purchased surface water system is a public water system that obtains water from one or more permanently available purchased surface water sources, and does not obtain water from any permanently available non-purchased surface water sources.

In classifying a public water system as a purchased surface water system, the way in which each source of water is utilized (i.e., the availability of the source) is of utmost importance.

Contrast with: *SURFACE WATER SYSTEM, GROUND WATER SYSTEM, GROUND WATER UDISW SYSTEM, PURCHASED GROUND WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM.* See also: *PURCHASED SURFACE WATER SOURCE, PRIMARY SOURCE, AVAILABILITY.*

PURCHASED PWS

See *PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM.*

PURCHASED SOURCE

See *PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE.*

PURCHASED WATER

See *PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE.*

PURCHASED WATER SOURCE

See *PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE.*

PURCHASED WATER SYSTEM

See *PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM.*

PWS

An abbreviation commonly used to refer to a Public Water System. See also: *PUBLIC WATER SYSTEM, COMMUNITY WATER SYSTEM, NON-COMMUNITY WATER SYSTEM, TRANSIENT NON-COMMUNITY WATER SYSTEM, NON-TRANSIENT NON-COMMUNITY WATER SYSTEM.*

- R -**RADIOLOGICAL**

See *RADS*.

RADS

An abbreviation used to refer to the natural occurring, man-made, and photon emitting radioactive contaminants in drinking water. Contrast with: *BACTI*, *TURBIDITY*, *CHEMS*. See also: *CONTAMINANT*.

RECON

A process whereby the FRDS-II computer system performs a "reconciliation" of generated data element values.

For example: If the State provided a new population served for a public water system, reconciliation results in the re-calculation of the value assigned to the population category.

See also: *PUP*. Contrast with: *NCP PROCESSING*, *VALLINKS*.

RECORD

See *DATA BASE RECORD*.

REGISTRATION REQUIREMENT

This term is used to characterize and delineate which FRDS-II data element values are necessary in order for a public water system, or some other event related to that public water system (e.g., violation, enforcement, variance/exemption, etc.), to get "recorded" into the FRDS-II Data Base. There are four different registration requirements. They are as follows:

1 Operationally required

The FRDS-II computer system cannot process data related to a public water system without a value for this data element.

Examples:

- PWS-ID to insert a new public water system
- PWS-SE-RECORD-TYPE to insert a new source or other entity

2 Programmatically required

Based upon programmatic need, EPA has determined that a value must always be reported for this data element for public water system inventory, violation, enforcement, sample, milestone, or variance/exemption/other related data to be inserted into the FRDS-II Data Base.

Examples:

- PWS-TYPE to insert a new public water system,
- PWS-SE-CODE to insert a new source or entity,
- VIO-TYPE to insert a new violation,
- ENF-ACTION-DATE to insert a new enforcement,
- VE-RECORD-TYPE to insert a new variance/exemption

3 Operationally required, conditionally

Under certain circumstances, the FRDS-II computer system cannot process data related to a public water system without a value for this data element.

Examples:

- VIO-ID if inserting a new violation,
- ENF-ID if inserting a new enforcement,
- VE-ID if inserting a new variance/exemption/other related data, turbidity waiver, or filtration requirement event

4 Programmatically required, conditionally

Based upon programmatic need, EPA has determined that, under certain circumstances, a value must be reported for this data element for public water system inventory, violation, enforcement, sample, milestone, or variance/exemption other related data to be inserted into the FRDS-II Data Base.

Examples:

- PWS-SEASON-BEGIN-MMDD and PWS-SEASON-END-MMDD if inserting a non-community PWS,
- VIO-CONTAMINANT if inserting an MCL or M/R violation

Section III, Quick Reference, sub-section B, Comprehensive Data Element Table, identifies all data elements which have a registration requirement.

Contrast with: *GRANT REQUIREMENT*.

REPEAT COMPLIANCE PERIOD

This definition is applicable only to the Phase I, II, IIB, and V contaminant monitoring requirements.

Any subsequent compliance period after the initial compliance period.

Contrast with: *INITIAL COMPLIANCE PERIOD*. See also: *COMPLIANCE CYCLE*, *COMPLIANCE PERIOD*.

RESIDUAL DISINFECTANT CONCENTRATION

The concentration of disinfectant measured in mg/l in a representative sample of water. See also: *CT*, *DISINFECTANT CONTACT TIME*.

RIVER REACH

River reaches are linear sections of streams, lakes, reservoirs, estuaries, etc. that are linked to form a skeletal structure which represents the branching patterns of surface water drainage systems. An individual river reach code is an 11 digit number which consists of an 8 digit USGS hydrologic unit code coupled with a 3 digit segment number defined by the U.S. EPA STORET office. Thus, the river reach is a subdivision of the hydrologic unit code.

The hydrologic unit code is comprised of a two digit region, a two digit subregion, a two digit accounting unit, and a two digit cataloging unit. Each portion of the HUC code, respectively, defines a drainage basin, from largest to smallest in size.

The segment number is arbitrarily assigned without regard for the hydrological relationships of the river reaches. However, reaches are linked in a hydrological sequence which allows analysis in either an upstream or downstream order.

See also: *STORET*, *HYDROLOGIC UNIT CODE*.

RMCL

An abbreviation for Recommended Maximum Contaminant Level. This term is no longer used in the setting of drinking water regulations. Instead, the term MCLG (i.e., maximum contaminant level goal) is used.

- S -**SAMPLES**

A term used to refer to Sample data submitted as a part of a State's quarterly update to FRDS-II. When reported, Sample data must be segregated from Inventory and Actions data (i.e., it must be reported individually). Contact FRDS Production Control for additional details.

Sample data refers to that information stored in the following FRDS-II Data Base record:

C2100, SAMPLE-DATA

Contrast with: *ACTIONS, INVENTORY.*

SANITARY SURVEY

An on-site review and evaluation of the water source, facilities, equipment, operation, and maintenance of a public water system for the purpose of evaluating the adequacy of such source, facilities, equipment, operation, and maintenance for producing and distributing safe drinking water.

SCHEMA

See *DATA BASE RECORD.*

SCHEMA RECORD

See *DATA BASE RECORD.*

SDWA

An abbreviation for the Safe Drinking Water Act, as amended in 1986. Public Laws 93-523 and 99-339, respectively. Amends the Public Health Service Act. See also: *ACT, NIPDWR, NRPDWR, NPDWR.*

SECONDARY REGULATION

A drinking water regulation that applies to public water systems, and that specifies maximum contaminant levels for any contaminant in drinking water that is deemed to have an adverse effect on the public welfare. Related to the aesthetic quality of water (e.g., color, taste, odor, etc.). Secondary regulations may vary from State to State and are not Federally enforceable. Contrast with: *PRIMARY REGULATION.* See also: *NIPDWR, NRPDWR, NPDWR.*

SEDIMENTATION

A treatment process for removal of solids before filtration by gravity or separation.

SERVICE CONNECTION

In general, the point at which the water distribution system pipe connects to a consumer's water meter in a home or building. This definition is not completely comprehensive, however, since water meters are not always present.

In the absence of water meters, the number of service connections is dependent upon the number of water bills that are paid.

For example, an apartment building that pays a single water bill for all of its residents (regardless of the number of residents) is said to have a single service connection. On the other hand, a duplex, whose 2 residents each pay their own water bill, is said to have 2 service connections.

See also: *NEAR THE FIRST SERVICE CONNECTION, SYSTEM WITH A SINGLE SERVICE CONNECTION, POINT-OF-ENTRY*. Contrast with: *ENTRY POINT, POINT-OF-USE*.

SERVICE LINE SAMPLE

A one-liter sample of water [collected in accordance with §141.86(b)(3)] that has been standing for at least 6 hours in a service line. Contrast with: *FIRST DRAW SAMPLE*.

SINGLE FAMILY STRUCTURE

This definition is applicable to those NPDWRs which apply to the Control of Lead and Copper.

A building constructed as a single-family residence that is currently used as either a residence or a place of business.

SLOW SAND FILTRATION

A treatment process involving passage of raw water through a bed of sand at low velocity resulting in substantial particulate removal by physical and biological mechanisms.

SMALL WATER SYSTEM

This definition is applicable to those NPDWRs which apply to the Control of Lead and Copper.

A water system that serves 3,300 persons or fewer.

Contrast with: *LARGE WATER SYSTEM, MEDIUM-SIZE WATER SYSTEM. See also: PUBLIC WATER SYSTEM.*

SNC

An abbreviation for Significant Non-Compliance (pronounced SNICK).

SNC status is assigned to a public water system when certain types of violations have been incurred over a specific period of time. The types of violations which result in the SNC designation are based upon the contaminant (e.g., coliform) or rule (e.g., Lead and Copper) in question.

SOC

An abbreviation for a Synthetic Organic Chemical. See *SOCs*.

SOCs

An abbreviation for Synthetic Organic Chemicals. One of three classifications of regulated organic chemical compounds. SOC's are used in the manufacture of a wide variety of agricultural and industrial products. Pesticides and herbicides are the best-known types of SOC's. Contrast with: *INORGANIC CHEMS, VOCs, TTHM, RADS. See also: ORGANIC CHEMS, CONTAMINANT.*

SOURCE OF WATER

See *SURFACE SOURCE, GROUND WATER UDISW SOURCE, GROUND WATER SOURCE, PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE, PRIMARY SOURCE, AVAILABILITY.*

STATE

The term State can mean any of the 50 United States, the District of Columbia, the Virgin Islands of the U.S., the Commonwealth of Puerto Rico, American Samoa, Guam, the Northern Mariana Islands, the Trust Territory of the Pacific Islands (presently known by its component entities which are the Federated States of Micronesia, the Republic of the Marshall Islands, and the Republic of Palau), any Indian reservation that has been granted primary enforcement responsibility, or any of the 10 EPA regional offices. It refers to the agency of the State government which has jurisdiction over public water systems.

If no State agency possesses such jurisdiction, the term State means the Regional Administrator, U.S. EPA. See also: *PRIMACY AGENT.*

STATE EQUIVALENT

For the purposes of FIPS PUB 55-2, Guideline: Codes for Named Populated Places, Primary County Divisions, and other Locational Entities of the United States and Outlying Areas, one of the following: District of Columbia, American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Minor Outlying Islands, Virgin Islands of the U.S., Federated States of Micronesia, Marshall Islands, or Palau.

STORET

An abbreviation for the U.S. EPA **STOR**age and **RETR**ieval system for Water Quality Data. EPA's STORET office developed the river reach concept that is utilized in FRDS-II. See also: *HYDROLOGIC UNIT CODE, RIVER REACH*.

SUB-SCHEMA

See *DATA BASE RECORD*.

SUB-SCHEMA RECORD

See *DATA BASE RECORD*.

SURFACE PWS

See *SURFACE WATER SYSTEM*.

SURFACE SOURCE

A surface source of water. Water which is open to the atmosphere and subject to surface runoff.

Water that has not entered the ground through infiltration or that has not been returned to the atmosphere by evaporation flows over the ground surface and is classified as direct run-off. Direct run-off is water that moves over saturated or impermeable surfaces, and in stream channels or other natural or artificial storage sites. Examples of surface water sources include sources such as an ocean, lake, pond, stream, river, reservoir, etc.

Contrast with: *GROUND WATER SOURCE, GROUND WATER UDISW SOURCE, PURCHASED SURFACE SOURCE, PURCHASED GROUND WATER SOURCE, PURCHASED GROUND WATER UDISW SOURCE*. See also: *PRIMARY SOURCE*.

SURFACE WATER SYSTEM

A public water system which has a surface water primary source designation.

A surface water system is a public water system that obtains water (in whole or in part) from one or more permanently available surface water sources.

In classifying a public water system as a surface water system, the way in which each source of water is utilized (i.e., the availability of the source) is of utmost importance.

Contrast with: *GROUND WATER SYSTEM, GROUND WATER UDISW SYSTEM, PURCHASED SURFACE WATER SYSTEM, PURCHASED GROUND WATER SYSTEM, PURCHASED GROUND WATER UDISW SYSTEM*. See also: *SURFACE WATER SOURCE, PRIMARY SOURCE, AVAILABILITY*.

SURFACE WATER TREATMENT RULE

Regulations promulgated on June 29, 1989, for public water systems using surface water sources or ground water under the direct influence of surface water that include:

- Criteria under which filtration is required and procedures by which the States are to determine which systems must install filtration
- Disinfection requirements.

The filtration and disinfection requirements are treatment technique requirements to protect against the potential adverse health effects of exposure to *Giardia lamblia*, viruses, *Legionella*, and heterotrophic bacteria, as well as many other pathogenic organisms that are removed by these treatment techniques.

Refer to 54 FR 27486.

See also: *FILTRATION, GIARDIA LAMBLIA, GROUND WATER UDISW SOURCE, HETEROTROPHIC BACTERIA, LEGIONELLAE, PATHOGENIC VIRUSES, VIRUS*.

SWTR

An abbreviation for the Surface Water Treatment Rule. See *SURFACE WATER TREATMENT RULE*.

SYSTEM

See *PUBLIC WATER SYSTEM*.

SYSTEM 2000™

A general purpose data base management system that is commercially available. S2K is currently marketed by the SAS Institute of Cary, North Carolina, and is licensed for use on the U.S. EPA's National Computer Center (NCC). FRDS-II is one of several EPA application systems that operate within the SYSTEM 2000™ DBMS environment. See also: *DATA BASE MANAGEMENT SYSTEM, DBMS, FRDS-II*.

SYSTEM WITH A SINGLE SERVICE CONNECTION

A system which supplies drinking water to consumers via a single service line. See also: *SERVICE CONNECTION*.

S2K

An abbreviation for the SYSTEM 2000™ data base management system. See also: *SYSTEM 2000™*.

- T -**TCR**

An abbreviation for the Total Coliform Rule. See *TOTAL COLIFORM RULE*.

TEXT

A SYSTEM 2000™ data element data type. Text data element values are alphanumeric with all extraneous blank spaces (i.e., leading spaces, trailing spaces, multiple embedded spaces) retained. Contrast with: *CHARACTER*. See also: *INTEGER*, *DECIMAL*, *DATE*, *ALPHANUMERIC*.

TNCWS

An abbreviation for a Transient Non-Community public Water System. See *TRANSIENT NON-COMMUNITY WATER SYSTEM*.

TNTC

An abbreviation for Too Numerous To Count. See *TOO NUMEROUS TO COUNT*.

TOO NUMEROUS TO COUNT

More than 200 bacterial colonies on a 47 mm diameter membrane filter used for coliform detection. Contrast with: *CONFLUENT GROWTH*.

TOTAL COLIFORM BACTERIA

A group of closely related organisms used to evaluate the effectiveness of water treatment, to determine the integrity of the distribution system, and to signal the possible presence of fecal contamination. Total coliforms, which include the fecal coliforms, are usually not pathogenic in themselves. However, their presence in drinking water indicates the potential presence of fecal pathogens which are frequently associated with waterborne disease outbreaks.

The measure of total coliform bacteria has been used by public health officials and professionals for decades as the primary means of assessing the microbiological quality of drinking water.

Total coliform is a primary contaminant in the National Primary Drinking Water Regulations.

See also: *BACTI, FECAL COLIFORM BACTERIA, HETEROTROPHIC BACTERIA, GIARDIA LAMBLIA, LEGIONELLAE, PATHOGENIC VIRUSES, PATHOGEN, CONTAMINANT, WATERBORNE DISEASE OUTBREAK.*

TOTAL COLIFORM RULE

Regulations promulgated on June 29, 1989, which amended the NPDWRs for total coliform bacteria, including fecal coliforms and *Escherichia coli* (*E.coli*).

See also: *BACTI, FECAL COLIFORM BACTERIA, HETEROTROPHIC BACTERIA, GIARDIA LAMBLIA, LEGIONELLAE, PATHOGENIC VIRUSES, PATHOGEN, CONTAMINANT, WATERBORNE DISEASE OUTBREAK.*

TOTAL REPLACE UPDATE

A process wherein a State chooses to replace its complete inventory of public water systems, actions (i.e., violations and enforcements), or samples maintained in FRDS-II with a set of inventory or actions data which they provide to EPA.

Historical data (i.e., C900) and DBA data (i.e., C4050) are generated by the FRDS-II computer system. As such, total inventory or actions replace processing may result in an update to, but does not replace this data.

Due to the nature of the data, on-site visit data (i.e., C700), variance and exemption data (i.e., C3000 and C3100), and state discretionary data (i.e., C4000) are not replaced during total inventory or actions replace processing. They may be modified ONLY through a traditional update.

See also: *CURRENT INVENTORY, HISTORICAL INVENTORY.* Contrast with: *TRADITIONAL UPDATE.*

TRADITIONAL UPDATE

A process whereby a State chooses to change its inventory, actions (i.e., violations and enforcements), variances & exemptions, and/or state discretionary data through the process of inserting new data (DIM code "I"), and modification and/or deletion of existing data (DIM code "M" and "D").

See also: *DIM CODE*. Contrast with: *TOTAL REPLACE UPDATE*.

TRANSIENT NON-COMMUNITY PWS

See *TRANSIENT NON-COMMUNITY WATER SYSTEM*.

TRANSIENT NON-COMMUNITY WATER SYSTEM

A type of public water system. Transient non-community water system means a public water system that is not a community water system and is not a non-transient non-community water system.

Contrast with: *COMMUNITY WATER SYSTEM, NON-TRANSIENT NON-COMMUNITY SYSTEM*. See also: *NON-COMMUNITY WATER SYSTEM, CONSECUTIVE WATER SYSTEM, PUBLIC WATER SYSTEM*.

TREATMENT FACILITY

A treatment facility refers to the site at which source water is treated. This encompasses a wide range ... from the large and complex metropolitan water treatment plant to a small and simple ground water well which has a chlorinator attached to disinfect the water.

TRIHALOMETHANES

See *THM*.

THM

An abbreviation for a TriHaloMethane. A trihalomethane is one of the families of organic compounds derived from methane wherein three of the four hydrogen atoms in the methane are each substituted by a halogen atom in the molecular structure. See *TTHM*.

TTHM

An abbreviation for Total TriHaloMethane. One of three classifications of regulated organic chemical compounds. Total trihalomethanes are by-products of disinfection. TTHM is the sum of the concentration (in mg/l) of the following trihalomethane compounds: trichloromethane (chloroform), dibromochloromethane, bromodichloromethane, and tribromomethane (bromoform). Contrast with: *INORGANIC CHEMS, SOCs, VOCs, RADS*. See also: *ORGANIC CHEMS, CONTAMINANT*.

TURBIDITY

Turbidity in water is a non-specific measure of suspended material in drinking water. It is measured by determining the degree of light scattering caused by particulates in a sample. Turbidity has been used for decades as an indicator of drinking water quality by indicating the presence of such particulates as clay, silt, finely divided organic and inorganic matter, and microorganisms. Contrast with: *BACTI, CHEMS, RADS*. See also: *CONTAMINANT*.

TURBIDITY WAIVER

The means by which a public water system is permitted to exceed the one turbidity unit (TU) monthly average maximum contaminant level requirement.

Up to five TUs may be allowed if the supplier of water can demonstrate to the State that the higher turbidity does not do any of the following:

- Interfere with disinfection.
- Prevent maintenance of an effective disinfectant agent throughout the distribution system.
- Interfere with microbiological determinations.

Contrast with: *VARIANCE, EXEMPTION*.

- U -

UDISW

An abbreviation for Under the Direct Influence of Surface Water. See also: *GROUND WATER UDISW SOURCE, GROUND WATER UDISW SYSTEM*.

UNORGANIZED TERRITORY

An area of a county or county equivalent, not subdivided into minor civil divisions or including any incorporated places, that has been bounded and named for census purposes. Occurs only in those States and State equivalents that have minor civil divisions. An unorganized territory always serves as a primary county division. See also: *COUNTY EQUIVALENT, MINOR CIVIL DIVISION, INCORPORATED PLACE, STATE EQUIVALENT, PRIMARY COUNTY DIVISION*.

UNREGULATED CONTAMINANT

A contaminant for which a monitoring requirement has been established in the NPDWR but for which a Maximum Contaminant Level has not been established. Unregulated contaminant monitoring requirements were promulgated in the Phase I and Phase II Rules.

USGS

An abbreviation for the United States Geological Survey. The agency who defined the list of acceptable hydrologic unit code values that have been adopted as a Federal Information Processing Standard (i.e., defined in FIPS PUB 103), and that are used in FRDS-II.

- V -

VALLINKS

A process whereby the FRDS-II computer system attempts to link each violation to its related enforcements and each enforcement to its related violations. See also: *PUP*. Contrast with: *NCP PROCESSING, RECON*.

VARIANCE

A means by which a public water system is permitted to vary from a maximum contaminant level requirement, treatment requirement, or both, of an applicable primary drinking water regulation.

A variance to a maximum contaminant level requirement may be granted if each of the following conditions are met:

- Due to the characteristics of the raw water sources which are reasonably available to the public water system, the public water system cannot meet the requirements respecting the maximum contaminant level despite application of the best technology, treatment techniques, or other means, which are found to be generally available (taking cost into consideration);
- The granting of the variance will not result in an unreasonable risk to the health of persons served by the public water system.

A variance to a treatment requirement may be granted upon a finding that the public water system applying for the variance has demonstrated that such treatment technique is not necessary to protect the health of the population served due to the nature of the raw water sources available to the public water system.

Contrast with: *EXEMPTION, TURBIDITY WAIVER.*

VIOLATION

A public water system's non-conformance to Federal or State drinking water regulations. See also: *ACTIONS.* Contrast with: *ENFORCEMENT ACTION.*

VIRUS

In terms of the national drinking water program, a virus is of fecal origin and is infectious to humans by waterborne transmission. See also: *PATHOGENIC VIRUSES.*

VOC

An abbreviation for a Volatile synthetic Organic Chemical. See *VOCs.*

VOCs

An abbreviation for Volatile synthetic Organic Chemicals. One of three classifications of regulated organic chemical compounds. VOCs are a broad class of synthetic chemical compounds used commercially as degreasing agents, paint thinners, varnishes, glues, dyes, and pesticides. They are most commonly used in urban industrial areas, where they can contaminate ground water if improperly disposed. Contrast with: *INORGANIC CHEMS, SOCs, TTHM, RADS.* See also: *ORGANIC CHEMS, CONTAMINANT.*

VULNERABLE

A term used to refer to the susceptibility of a public water system to a specific contaminant or group of contaminants. See also: *VULNERABILITY ANALYSIS.*

VULNERABILITY ANALYSIS

A process whereby a determination is made as to whether or not a public water system is vulnerable to contamination of a given type. See also: *VULNERABLE.*

- W -

WATER SYSTEM

See **PUBLIC WATER SYSTEM**.

WATER TABLE AQUIFER

One of two general classifications of aquifers. A water table aquifer consists of unconfined ground water (i.e., not confined by impermeable material) that is located in the upper surface of the zone of saturation. Contrast with: **ARTESIAN AQUIFER**. See also: **AQUIFER, ZONE OF SATURATION, GROUND WATER SOURCE, WELL**.

WATER TREATMENT PLANT

See **TREATMENT FACILITY**.

WATERBORNE DISEASE OUTBREAK

The significant occurrence of acute infectious illness, epidemiologically associated with the ingestion of water from a public water system which is deficient in treatment, as determined by the appropriate local or State agency.

WELL

A narrow shaft that can be used to extract ground water from an aquifer. The amount of water that can be pumped from a well depends on the character of the aquifer and the construction of the well. Common well construction methods include dug, bored, driven, drilled, or jetted. See also: **AQUIFER, ARTESIAN AQUIFER, WATER TABLE AQUIFER, GROUND WATER SOURCE**.

WELL HEAD

A term which refers to the location of a water well or well field.

- Z -

ZONE OF SATURATION

The zone located below the root zone where the ground water has reached a level at which all of the openings or voids in the earth's materials are filled. See also: **AQUIFER, ARTESIAN AQUIFER, WATER TABLE AQUIFER, GROUND WATER SOURCE**.