

Domain Tables Technical Reference

FEMA Spatial Databases

February 2019



Domain Tables Technical Reference

For more information, visit the FEMA [Guidelines and Standards for Flood Risk Analysis and Mapping](#) webpage at FEMA.gov. Copies of the Standards for Flood Risk Analysis and Mapping policy, related guidance, technical references, and other information about the guidelines and standards development process are available here. You can also search directly by document title at www.fema.gov/library.

Implementation Instructions

This version of the Technical Reference must be used on projects as described below. Generally, the changes in this version may also be implemented on any project, in coordination with the FEMA Project and Contracting Officer's Representative.

| Revision Date | Implementation |
|---------------|---|
| February 2019 | Implemented for all new projects initiated in FY19 and later. Levee Seclusion domain for S_Submittal_Info should be implemented for all projects that have not entered QR5 as of April 1, 2019. |

Table of Revisions

The following summary of changes details revisions to this document subsequent to its most recent version in February 2018.

| Affected Section or Subsection | Revision Date | Revision Description |
|--------------------------------|---------------|---|
| D_CBRS_Typ | February 2019 | Domain table removed |
| D_Label_Type | February 2019 | Removed Coastal Barrier Resource System (CBRS) |
| D_Levee_Analysis_Type | February 2019 | Added analysis types for non-accredited levees. |
| D_Levee_Status | February 2019 | Updated domains |
| D_Task_Typ | February 2019 | Levee Seclusion coded domain added. |
| Section 2 | February 2019 | Added various domains to Discovery database |

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1.0 Document Overview

The Domain Tables Technical Reference is intended as a central repository for all allowable domain values referenced in spatial databases in the Guidelines and Standards for Flood Risk Analysis and Mapping. All domain tables and their allowable values are listed in alphabetical order in this document.

Mapping Partners must use this document as a reference to identify valid values for appropriate domain tables in databases.

Note: In the “Applies to Database Schema” column:

- “FIRM” indicates that a value is only acceptable in the Flood Insurance Rate Map (FIRM) Database schema.
- “FRD” indicates that a value is only acceptable in the Flood Risk Database (FRD) schema.
- “FIRM, FRD” indicates that it is acceptable for both the FIRM and FRD database schemas.
- “NFHL” indicates this domain value is only used in the National Flood Hazard Layer (NFHL) database schema.

2.0 Domain Tables

2.1 D_AOMI_Class

This domain table is referenced in the FRD database schema.

| Coded Value | Area of Mitigation Interest Description | Applies to Database Schema |
|-------------|---|----------------------------|
| RIV | Riverine | FRD |
| COAS | Coastal | FRD |
| OTH | Other | FRD |
| NP | NP | FRD |

2.2 D_AOMI_Typ

This domain table is referenced in the FRD database schema.

| Coded Value | Area of Mitigation Interest Type Description | Applies to Database Schema |
|-------------|--|----------------------------|
| 0200 | Non-Accredited Levees | FRD |
| 0300 | Coastal Structures | FRD |
| 0400 | Streamflow Constrictions | FRD |

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| Coded Value | Area of Mitigation Interest Type Description | Applies to Database Schema |
|-------------|--|----------------------------|
| 0500 | Key Emergency Routes Overtopped | FRD |
| 0600 | Past Claims Hot Spot | FRD |
| 0800 | Significant Land Use Change | FRD |
| 1000 | Non-Levee Embankments | FRD |
| 1100 | At Risk Essential Facilities | FRD |
| 9000 | Other | FRD |
| NP | NP | FRD |

2.3 D_Area_Units

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Area Unit | Applies to Database Schema |
|-------------|-------------------|----------------------------|
| 1000 | Acres | FIRM |
| 1010 | Hectares | FIRM |
| 1020 | Square Feet | FIRM |
| 1030 | Square Meters | FIRM |
| 1040 | Square Yards | FIRM |
| 1050 | Square Miles | FIRM |
| 1060 | Square Kilometers | FIRM |
| NP | NP | FIRM |

2.4 D_Basemap_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Base Map | Applies to Database Schema |
|-------------|------------------|----------------------------|
| 1000 | Orthophoto | FIRM, Discovery |
| 2000 | Vector | FIRM, Discovery |
| NP | NP | FIRM, Discovery |

2.5 D_BeachSet

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Beach Setting | Applies to Database Schema |
|-------------|---|----------------------------|
| 1050 | Cobble, Gravel, Shingle, or Mixed Grain Sized Beach and Berms | FIRM |
| 1020 | Erodible Coastal Bluffs | FIRM |
| 1030 | Non-Erodible Coastal Cliffs and Bluffs | FIRM |
| 1000 | Sandy Beach Backed by Low Sand Berm or High Sand Dune Formation | FIRM |
| 1010 | Sandy Beach Backed by Shore Protection Structures | FIRM |
| 1040 | Tidal Flats and Wetlands | FIRM |
| NP | NP | FIRM |

2.6 D_Breach_Pt_Typ

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Breach | Applies to Database Schema |
|-------------|--|----------------------------|
| H | Community-supplied, historical | FRD |
| O | Community-supplied, overtopping | FRD |
| P | Community-supplied, potential engineered breach location | FRD |
| A | Armored overtopping | FRD |
| NP | NP | FRD |

2.7 D_Carto_Trans_Code

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Cartographic Code Used for Symbolization Description | Applies to Database Schema |
|-------------|--|----------------------------|
| 0100 | Interstates | FIRM, FRD |
| 0200 | US Highways | FIRM, FRD |
| 0300 | State Highways | FIRM, FRD |
| 0400 | County Roads | FIRM, FRD |

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| Coded Value | Cartographic Code Used for Symbolization Description | Applies to Database Schema |
|-------------|--|----------------------------|
| 0500 | Local Roads | FIRM, FRD |
| 0700 | Railroads | FIRM, FRD |
| 0800 | Airports | FIRM, FRD |
| 0900 | User-Defined | FRD |
| 9000 | Other | FRD |
| -8888 | -8888 | FRD |
| NP | NP | FIRM |

2.8 D_Cert_Status

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Certification Status Description | Applies to Database Schema |
|-------------|--|----------------------------|
| 1000 | Meets Existing FEMA Accreditation Policy | FIRM |
| 1010 | Certified Prior to Existing FEMA Policy | FIRM |
| 1020 | Certified by Another Federal Agency | FIRM |
| 2000 | Not Certified: Failure of Vertical Structure | FIRM |
| 2010 | Not Certified: Failure of Revetment | FIRM |
| 2030 | Not Certified: Failure of Levee | FIRM |
| 3000 | Not Applicable | FIRM |
| NP | NP | FIRM |

2.9 D_Change

This domain table is referenced in the FRD database schema.

| Coded Value | Changes Since Last FIRM Subtypes Description | Applies to Database Schema |
|-------------|--|----------------------------|
| I | Increase | FRD |
| D | Decrease | FRD |
| N | Negligible | FRD |
| Z | None (Zero) | FRD |
| U | Unknown | FRD |

2.10 D_Const_Typ

This domain table is referenced in the FRD database schema.

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| Coded Value | Construction Type Description | Applies to Database Schema |
|-------------|-------------------------------|----------------------------|
| ARCH | Arch | FRD |
| ARGV | Arch-Gravity | FRD |
| ASCN | Asphalt-Concrete | FRD |
| BARR | Barrage | FRD |
| CLAY | Clay | FRD |
| CONC | Concrete of Masonry | FRD |
| ERFL | Earth-Fill | FRD |
| FMIX | Fill Mix (clay/silt/sand) | FRD |
| GRAV | Gravity | FRD |
| RKFL | Rock-Fill | FRD |
| OTH | Other | FRD |
| NP | NP | FRD |

2.11 D_Cst_Struct

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Coastal Structure Classification | Applies to Database Schema |
|-------------|--|----------------------------|
| 1000 | Beach Stabilization Structure | FIRM |
| 2000 | Coastal Armoring Structure | FIRM |
| 3000 | Miscellaneous Structure | FIRM |
| NP | NP | FIRM |

2.12 D_Cst_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Coastline | Applies to Database Schema |
|-------------|-------------------|----------------------------|
| 1000 | Open Coast | FIRM |

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| Coded Value | Type of Coastline | Applies to Database Schema |
|-------------|--|----------------------------|
| 2000 | Sheltered Waters | FIRM |
| 3000 | Combined Open Coast and Sheltered Waters | FIRM |
| NP | NP | FIRM |

2.13 D_Discharge_Units

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Discharge Unit | Applies to Database Schema |
|-------------|------------------------|----------------------------|
| CFS | CFS | FIRM |
| CMS | CMS | FIRM |
| NP | NP | FIRM |

CFS = Cubic feet per second

CMS = Cubic meters per second

2.14 D_Erosion

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Erosion Description | Applies to Database Schema |
|-------------|-----------------------------|----------------------------|
| 1010 | Not Applied | FIRM |
| 1020 | Dune Removal | FIRM |
| 1030 | Dune Retreat | FIRM |
| 1040 | K-D | FIRM |
| 1050 | MK-A | FIRM |
| 1060 | SBEACH | FIRM |
| 9000 | Other | FIRM |
| NP | NP | FIRM |

2.15 D_Esmt_Typ

This domain table is referenced in the FRD database schema.

| Coded Value | Easement Type | Applies to Database Schema |
|-------------|---------------|----------------------------|
| CONS | CONSERVATION | FRD |

Domain Tables Technical Reference

| Coded Value | Easement Type | Applies to Database Schema |
|-------------|---------------|----------------------------|
| DRAN | DRAINAGE | FRD |
| FLOW | FLOWAGE | FRD |
| NP | NP | FRD |

2.16 D_Event

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | FIRM Event Type Description | FRD Event Type Description | Applies to Database Schema |
|-------------|------------------------------------|---------------------------------------|----------------------------|
| AvgAnn | - | Average Annual | FRD |
| 50pct | 50-Percent-Chance | 50-Percent-Chance (2-yr) | FIRM, FRD |
| 20pct | 20-Percent-Chance | 20-Percent-Chance (5-yr) | FRD |
| 10pct | 10-Percent-Chance | 10-Percent-Chance (10-yr) | FIRM, FRD |
| 04pct | 4-Percent-Chance | 4-Percent-Chance (25-yr) | FIRM, FRD |
| 02pct | 2-Percent-Chance | 2-Percent-Chance (50-yr) | FIRM, FRD |
| 01plus | 1-Percent-Plus-Chance | 1-Percent-Plus-Chance | FIRM, FRD |
| 01minus | 1-Percent-Minus-Chance | 1-Percent-Minus-Chance | FIRM, FRD |
| 01pct | 1-Percent-Chance | 1-Percent-Chance (100-yr) | FIRM, FRD |
| 0_2pct | 0.2-Percent-Chance | 0.2-Percent-Chance (500-yr) | FIRM, FRD |
| 0_5pct | - | 0.5-Percent-Chance (200-yr) | FRD |
| 01pctfut | 1-Percent-Chance Future Conditions | - | FIRM |
| PMF | - | Probable Maximum Flood | FRD |
| PMF14 | - | 1/4 of Probable Maximum Flood | FRD |
| PMF13 | - | 1/3 of Probable Maximum Flood | FRD |
| PMF12 | - | 1/2 of Probable Maximum Flood | FRD |
| PMF34 | - | 3/4 of Probable Maximum Flood | FRD |
| PMP | - | Probable Maximum Precipitation | FRD |
| PMP14 | - | 1/4 of Probable Maximum Precipitation | FRD |
| PMP13 | - | 1/3 of Probable Maximum Precipitation | FRD |
| PMP12 | - | 1/2 of Probable Maximum Precipitation | FRD |
| PMP34 | - | 3/4 of Probable Maximum Precipitation | FRD |
| SUN | - | Sunny Day | FRD |

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| Coded Value | FIRM Event Type Description | FRD Event Type Description | Applies to Database Schema |
|-------------|-----------------------------|----------------------------|----------------------------|
| FOR | - | Flood of Record | FRD |
| OTH | - | Other | FRD |

2.17 D_Flooding_Source

This domain table is referenced in the FRD database schema.

| Coded Value | Flooding Source Type | Applies to Database Schema |
|-------------|----------------------|----------------------------|
| R | Riverine | FRD |
| C | Coastal | FRD |
| D | Dam | FRD |
| O | Other | FRD |
| NP | NP | FRD |

2.18 D_Flood_Typ

This domain table is referenced in the FIRM and FRD database schema.

| Coded Value | Type of Flooding | Applies to Database Schema |
|-------------|------------------|----------------------------|
| 1000 | Riverine | FIRM, FRD, Discovery |
| 1010 | Coastal | FIRM, FRD, Discovery |
| 1020 | Alluvial | FIRM, FRD, Discovery |
| 1030 | Lacustrine | FIRM, FRD, Discovery |
| 1040 | Ponding | FIRM, FRD, Discovery |

2.19 D_Font

This domain table is referenced in the FIRM database schema.

| Coded Value | Font Description | Applies to Database Schema |
|-------------|------------------------|----------------------------|
| 1000 | Arial | FIRM |
| 1010 | Arial Narrow | FIRM |
| 2000 | Franklin Gothic Book | FIRM |
| 2010 | Franklin Gothic Medium | FIRM |

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| Coded Value | Font Description | Applies to Database Schema |
|-------------|-----------------------------|----------------------------|
| 2020 | Franklin Gothic Medium Cond | FIRM |
| 3000 | Times New Roman | FIRM |
| 4000 | Verdana | FIRM |
| NP | NP | FIRM |

2.20 D_Font_Style

This domain table is referenced in the FIRM database schema.

| Coded Value | Font Style | Applies to Database Schema |
|-------------|-------------|----------------------------|
| 1000 | Regular | FIRM |
| 2000 | Bold | FIRM |
| 3000 | Italic | FIRM |
| 4000 | Bold Italic | FIRM |
| NP | NP | FIRM |

2.21 D_Gage_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Gage | Applies to Database Schema |
|-------------|---------------------------|----------------------------|
| 1000 | Flow | FIRM |
| 1010 | Flow / Stage | FIRM |
| 1020 | Stage | FIRM |
| 1100 | Fixed Interval | FIRM |
| 1110 | Instantaneous | FIRM |
| 1200 | Wave Height | FIRM |
| 1210 | Wind Direction | FIRM |
| 1220 | Wind Speed | FIRM |
| 1230 | Wind Speed and Direction | FIRM |
| 1240 | Tide | FIRM |
| 1120 | Tipping | FIRM |
| 1250 | Wave Height and Direction | FIRM |
| NP | NP | FIRM |

2.22 D_HAZ_Class

This domain table is referenced in the FRD database schema.

Domain Tables Technical Reference

| Coded Value | Hazard Class Description | Applies to Database Schema |
|-------------|--------------------------|----------------------------|
| HIGH | High | FRD |
| SIG | Significant | FRD |
| LOW | Low | FRD |
| NP | NP | FRD |

2.23 D_Horiz_Datum

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Type of Horizontal Datum | Applies to Database Schema |
|-------------|--------------------------------|----------------------------|
| NAD27 | North American Datum 1927 | FIRM, FRD |
| NAD83 | North American Datum 1983 | FIRM, FRD |
| 83HARN | North American Datum 1983 HARN | FIRM, FRD |
| WGS84 | World Geodetic System 1984 | FRD, NFHL |
| NSRS07 | NAD83 (NSRS2007) | FIRM, FRD |
| NP | NP | FIRM, FRD |

2.24 D_Hydra_Mdl

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Hydraulic Model Description | Applies to Database Schema |
|-------------|---|----------------------------|
| 0110 | CHAN for Windows v. 2.03 (1997) | FIRM, FRD |
| 0120 | Culvert Master v. 2.0 (September 2000) and up | FIRM, FRD |
| 1001 | DHM 21 and 34 (Aug. 1987) | FIRM, FRD |
| 0140 | FAN | FIRM, FRD |
| 1002 | FEQ 8.92 (1999) and FEQ 9.98 (2005) | FIRM, FRD |
| 1003 | FEQUTL 4.68 (1999) and FEQUTL 5.46 (2005) | FIRM, FRD |
| 1004 | FESWMS 2DH 1.1 and up (Jun. 1995) | FIRM, FRD |
| 1005 | FLDWAV (Nov. 1998) | FIRM, FRD |
| 1006 | FLO-2D v. 2007.06 and 2009.06 | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Hydraulic Model Description | Applies to Database Schema |
|-------------|---|----------------------------|
| 1007 | FLO-2D V.2003.6, 2004.10 and 2006.1 | FIRM, FRD |
| 1008 | Gage Analysis | FIRM, FRD |
| 1009 | HCSWMM 4.31B (August 2000) | FIRM, FRD |
| 1010 | HEC-2 4.6.2 (May 1991) | FIRM, FRD |
| 1012 | HEC-RAS 3.1.1 and up | FIRM, FRD |
| 1014 | HEC-RAS 5.0 and up | FIRM, FRD |
| 1013 | HY8 4.1 and up (Nov. 1992) | FIRM, FRD |
| 1000 | ICPR 2.20 (Oct. 2000), 3.02 (Nov. 2002), and 3.10 (April 2008) with PercPack Option | FIRM, FRD |
| 1015 | MIKE 11 HD (2002 D, 2004) | FIRM, FRD |
| 1030 | MIKE 11 HD v.2009 SP4 | FIRM, FRD |
| 0260 | MIKE Flood HD (2002 D and 2004) | FIRM, FRD |
| 1028 | MIKE URBAN Collection Systems (MOUSE) Release 2009, date June 2010 | FIRM, FRD |
| 0262 | MIKE Flood HD v.2009 SP4 | FIRM, FRD |
| 0270 | NETWORK (June 2002) | FIRM, FRD |
| 0280 | PondPack v. 8 (May 2002) and up | FIRM, FRD |
| 1017 | QUICK-2 1.0 and up (Jan. 1995) | FIRM, FRD |
| 0300 | S2DMM (Feb 2008) | FIRM, FRD |
| 0401 | SMS ADH v11.1 and up | FIRM, FRD |
| 0402 | SMS ADCIRC v11.1 and up | FIRM, FRD |
| 0403 | SMS BOUSS-2D v11.1 and up | FIRM, FRD |
| 0404 | SMS CGWAVE v11.1 and up | FIRM, FRD |
| 0405 | SMS CMS Flow v11.1 and up | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Hydraulic Model Description | Applies to Database Schema |
|-------------|---|----------------------------|
| 0406 | SMS CMS Wave v11.1 and up | FIRM, FRD |
| 0407 | SMS FESWMS v11.1 and up | FIRM, FRD |
| 0408 | SMS HYDRO_AS-2D | FIRM, FRD |
| 0409 | SMS GENCADE v11.1 and up | FIRM, FRD |
| 0410 | SMS PTM v11.1 and up | FIRM, FRD |
| 0411 | SMS RiverFlow2D v11.2 and up | FIRM, FRD |
| 0412 | SMS RMA2 v11.1 and up | FIRM, FRD |
| 0413 | SMS RMA4 v11.1 and up | FIRM, FRD |
| 0414 | SMS SRH-2D v11.2 and up | FIRM, FRD |
| 0415 | SMS STWAVE v11.1 and up | FIRM, FRD |
| 0416 | SMS TUFLOW v11.1 and up | FIRM, FRD |
| 0417 | SMS TUFLOW AD v11.1 and up | FIRM, FRD |
| 0418 | SMS TUFLOW Multiple Domains v11.1 and up | FIRM, FRD |
| 0419 | SMS TUFLOW FV v11.1 and up | FIRM, FRD |
| 0420 | SMS WAM v11.1 and up | FIRM, FRD |
| 0310 | StormCAD v.4 (June 2002) and up | FIRM, FRD |
| 1021 | SWMM 4.30 (MAY 1994) | FIRM, FRD |
| 1022 | SWMM 4.31 (JANUARY 1997) | FIRM, FRD |
| 0322 | SWMM 5 Version 5.0.005 (May 2005) and up | FIRM, FRD |
| 1023 | TABS RMA2 v. 4.3 and up (Oct. 1996) | FIRM, FRD |
| 1024 | TABS RMA4 v. 4.5 and up (July 2000) | FIRM, FRD |
| 1029 | TUFLOW Release Version 2010-10 (October 2010) | FIRM, FRD |
| 1025 | UNET 4.0 (April 2001) | FIRM, FRD |

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| Coded Value | Hydraulic Model Description | Applies to Database Schema |
|-------------|--|----------------------------|
| 1026 | WSPGW 12.96 (OCTOBER 2000) | FIRM, FRD |
| 1027 | WSPRO (Jun. 1988 and up) | FIRM, FRD |
| 0370 | Xpstorm 10.0 (May 2006) | FIRM, FRD |
| 0362 | XPSWMM 2D/XPStorm 2D v. 12.00 (May 2010) | FIRM, FRD |
| 0360 | XP-SWMM 8.52 and up | FIRM, FRD |
| 9000 | Other | FIRM, FRD |

2.25 D_Hydro_Mdl

This domain table is referenced in the FIRM and FRD database schema.

| Coded Value | Hydrologic Model Description | Applies to Database Schema |
|-------------|----------------------------------|----------------------------|
| 2000 | AHYMO 97 (Aug. 1997) | FIRM, FRD |
| 2001 | CUHPF/PC (May 1996 and May 2002) | FIRM, FRD |
| 2006 | HEC-1 4.0.1 and up 1 (May 1991) | FIRM, FRD |
| 2005 | HEC-FFA 3.1 (February 1995) | FIRM, FRD |
| 2008 | HEC-HMS 3.0 and up (Dec 2005) | FIRM, FRD |
| 2040 | HEC-SSP 1.1 (April 2009) and up | FIRM, FRD |
| 2018 | HSPF 10.10 (Dec 1993) and up | FIRM, FRD |
| 2042 | MIKE 11 (2009 SP4) | FIRM, FRD |
| 2022 | MIKE 11 RR (2009 SP4) | FIRM, FRD |
| 2023 | MIKE 11 UHM (2002 D and 2004) | FIRM, FRD |
| 2024 | PEAKFQ 2.4 (April 1998) and up | FIRM, FRD |
| 0190 | PondPack v.8 (May 2002) and up | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Hydrologic Model Description | Applies to Database Schema |
|-------------|--|----------------------------|
| 0200 | PRMS Version 2.1 (Jan 1996) | FIRM, FRD |
| 2029 | Regression Equations | FIRM, FRD |
| 2031 | SWMM (RUNOFF) 4.30 (May1994) | FIRM, FRD |
| 2032 | SWMM (RUNOFF) 4.31 (Jan 1997) | FIRM, FRD |
| 0222 | SWMM 5 Version 5.0.005 (May 2005) and up | FIRM, FRD |
| 2033 | TR-20 Win (Feb 1992) | FIRM, FRD |
| 0231 | TR-20 Win 1.00 (Jan 2005) | FIRM, FRD |
| 0240 | TR-55 (JUNE 1986) | FIRM, FRD |
| 2041 | VCRat 2.6 (Dec. 2008) | FIRM, FRD |
| 2034 | WinTR-55 1.0.08 (Jan 2005) | FIRM, FRD |
| 0260 | Xpstorm 10.0 (May 2006) | FIRM, FRD |
| 0250 | XP-SWMM 8.52 and up | FIRM, FRD |
| 9000 | OTHER | FIRM, FRD |

2.26 D_Jurisdiction_Typ

This domain table is referenced in the FIRM and FRD database schema.

| Coded Value | Jurisdiction Type | Applies to Database Schema |
|-------------|------------------------|----------------------------|
| 0100 | All Jurisdictions | FIRM, FRD |
| 0200 | And Incorporated Areas | FIRM, FRD |
| 0300 | Independent City | FIRM, FRD |
| 0900 | Unincorporated Areas | FIRM, FRD |
| 9000 | Other | FRD |

2.27 D_Label_Typ

This domain table is referenced in the FIRM database schema.

Domain Tables Technical Reference

| Coded Value | Type of Feature to Which the Labels and Leaders Apply | Applies to Database Schema |
|-------------|---|----------------------------|
| 1000 | Ortho-Transportation | FIRM |
| 1001 | Ortho-Water | FIRM |
| 1002 | S_Trnsport_Ln | FIRM |
| 1003 | S_Wtr_Ar | FIRM |
| 1004 | S_Wtr_Ln | FIRM |
| 1005 | Notes and Map Collar | FIRM |
| 1006 | S_BFE | FIRM |
| 1008 | S_Cst_Tsct_Ln | FIRM |
| 1009 | S_FIRM_Pan | FIRM |
| 1010 | S_Fld_Haz_Ar | FIRM |
| 1011 | S_Fld_Haz_Ln | FIRM |
| 1012 | S_Gage | FIRM |
| 1013 | S_Gen_Struct | FIRM |
| 1014 | S_Levee | FIRM |
| 1015 | S_LiMWA | FIRM |
| 1016 | S_PFD_Ln | FIRM |
| 1017 | S_PLSS_Ar | FIRM |
| 1018 | S_Pol_Ar | FIRM |
| 1019 | S_Profil_Basln | FIRM |
| 1020 | S_Riv_Mrk | FIRM |
| 1021 | S_Tsct_Basln | FIRM |
| 1022 | S_XS | FIRM |
| NP | NP | FIRM |

2.28 D_Length_Units

This domain table is referenced in the FIRM and FRD database schema.

| Coded Value | Type of Length Unit | Applies to Database Schema |
|-------------|---------------------|----------------------------|
| CM | Centimeters | FIRM, FRD |
| FT | Feet | FIRM, FRD |
| IN | Inches | FIRM |
| KM | Kilometers | FIRM |
| M | Meters | FIRM |
| MI | Miles | FIRM |
| MM | Millimeters | FIRM |
| USFT | U.S. Survey Feet | FIRM, FRD |
| NP | NP | FIRM, FRD |

2.29 D_Levee_Accreditation

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Accreditation | Applies to Database Schema |
|-------------|--------------------------|----------------------------|
| A | Accredited | FRD |
| P | Provisionally Accredited | FRD |
| N | Non-Accredited | FRD |
| NP | NP | FRD |

2.30 D_Levee_Analysis_Type

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Levee Analysis | Applies to Database Schema |
|-------------|-------------------------------|----------------------------|
| NV | Natural Valley | FIRM, FRD |
| SBI | Structural-Based Inundation | FIRM, FRD |
| OVR | Overtopping | FIRM, FRD |
| FD | Freeboard Deficient | FIRM, FRD |
| SR | Sound Reach | FIRM, FRD |
| BBT | BFE Below Toe | FIRM, FRD |
| NHS | Not Hydraulically Significant | FIRM, FRD |
| OTH | Other | FIRM, FRD |
| NP | NP | FIRM, FRD |

2.31 D_Levee_Event

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Event | Applies to Database Schema |
|-------------|-------------------------------|----------------------------|
| 0_2 | 0.2% Annual Chance Event | FRD |
| 01 | 1% Annual Chance Event | FRD |
| 01P | 1% Plus Annual Chance Event | FRD |
| 02 | 2% Annual Chance Event | FRD |
| 04 | 4% Annual Chance Event | FRD |
| 10 | 10% Annual Chance Event | FRD |
| HIS | Historical Flood Event | FRD |
| LS | Levee Shadow | FRD |
| OVT | Overtop | FRD |
| TOE | Levee Toe (wet side of levee) | FRD |

Domain Tables Technical Reference

| Coded Value | Type of Event | Applies to Database Schema |
|-------------|---------------|----------------------------|
| LC | Levee Crest | FRD |
| LT | Landward Toe | FRD |
| NP | NP | FRD |

2.32 D_Levee_Pt_Typ

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Levee Point | Applies to Database Schema |
|-------------|-------------------------|----------------------------|
| BOIL | Sand Boil Point | FRD |
| BORE | Borehole Point | FRD |
| CROSS | Levee Crossing Point | FRD |
| ENCR | Encroachment Point | FRD |
| FAIL | Levee Failure Point | FRD |
| FIGHT | Flood Fight Point | FRD |
| PIEZ | Piezometer Point | FRD |
| PUMP | Pump Station Point | FRD |
| RWP | Levee Relief Well Point | FRD |
| STA | Levee Station Point | FRD |
| CLOS | Closure Structure | FRD |
| GRAV | Gravity Drain | FRD |
| LEVST | Levee Station Point | FRD |
| TOE | Toe Drain | FRD |
| REHAB | Rehabilitation Line | FRD |
| NP | NP | FRD |

2.33 D_Levee_Scenario

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Levee Scenario | Applies to Database Schema |
|-------------|------------------------|----------------------------|
| R | With Right Levee | FIRM |
| L | With Left Levee | FIRM |
| B | With Both Levees | FIRM |

2.34 D_Levee_Status

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Levee Status | Applies to Database Schema |
|-------------|--------------------------|----------------------------|
| A | Accredited | FIRM |
| N | Non-Accredited | FIRM |
| P | Provisionally Accredited | FIRM |
| NP | NP | FIRM |

2.35 D_Levee_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Levee Structure | Applies to Database Schema |
|-------------|--------------------------|----------------------------|
| CLC | Coastal Levee Centerline | FIRM |
| LC | Levee Centerline | FIRM |
| FW | Floodwall | FIRM |
| CS | Closure Structure | FIRM |
| NP | NP | FIRM |

2.36 D_Ln_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Line | Applies to Database Schema |
|-------------|----------------------------|----------------------------|
| 2034 | SFHA / Flood Zone Boundary | FIRM |
| 1010 | Limit Lines | FIRM |
| 1020 | Other Boundary | FIRM |

SFHA / FLOOD ZONE BOUNDARY category includes any line that forms the boundary of a floodplain zone, floodway, Limit of Floodway not at terminus of SFHA, or Limit of Detailed Study not at terminus of SFHA. This category does not include Limit of Detailed Study / Limit of Study lines at terminus of SFHA and other boundaries.

LIMIT LINES category includes lines that form the Limit of Detailed Study at terminus and Limit of Study, but not the edge of a floodplain or other boundaries.

OTHER BOUNDARY category includes any line types that do not form the edge of a SFHA, Floodway, Limit of Detailed Study, Limit of Study, and Limit of Floodway. These other boundaries do not get shown on the map. Examples include end of spatial extent, apparent limit, and source boundary.

2.37 D_Loc_Accuracy

This domain table is referenced in the FIRM database schema.

| Coded Value | Locational Accuracy | Applies to Database Schema |
|-------------|---------------------|----------------------------|
| H | High | FIRM |
| M | Medium | FIRM |
| L | Low | FIRM |

HIGH locational accuracy includes any station start point that can be placed with a high degree of spatial accuracy and usually applies to all new models.

MEDIUM locational accuracy includes any station start point that can be obtained from old work maps with profile baselines or other source data which can be georeferenced to the new FIRM base map with a reasonable level of accuracy. This category usually applies to old models with good quality back-up data available at the FEMA Engineering Library.

LOW locational accuracy includes any station start point that cannot be placed accurately and for which only a text description exists, such as a note on the Floodway Data Table (FDT) or profile in the effective FIS. This category applies to old models with no or poor quality back-up data at the FEMA Engineering Library.

2.38 D_LOMC_Status

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Status Values for LOMCs | Applies to Database Schema |
|-------------|---------------------------------|----------------------------|
| 1000 | Superseded | FIRM |
| 1010 | Revalidated | FIRM |
| 1020 | Incorporated | FIRM |
| 1030 | Redetermined | FIRM |
| 1040 | Effective | FIRM |
| NP | NP | FIRM |

2.39 D_Method

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Elevation Source Method | Applies to Database Schema |
|-------------|---------------------------------|----------------------------|
| 1000 | Combo of Topo and Survey | FIRM |
| 1010 | Cut from Topo | FIRM |
| 1020 | Digitized from FIRM | FIRM |

Domain Tables Technical Reference

| Coded Value | Type of Elevation Source Method | Applies to Database Schema |
|-------------|---------------------------------|----------------------------|
| 1030 | Field Survey | FIRM |

2.40 D_MTFCC

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of US Census TIGER-Line Transportation Feature | Applies to Database Schema |
|-------------|--|----------------------------|
| R1011 | Railroad Feature (Main, Spur, or Yard) | FIRM, Discovery |
| R1051 | Carline, Streetcar Track, Monorail, Other Mass Transit Rail | FIRM, Discovery |
| R1052 | Cog Rail Line, Incline Rail Line, Tram | FIRM, Discovery |
| S1100 | Primary Road | FIRM, Discovery |
| S1200 | Secondary Road | FIRM, Discovery |
| S1400 | Local Neighborhood Road, Rural Road, City Street | FIRM, Discovery |
| S1500 | Vehicular Trail (4WD) | FIRM, Discovery |
| S1630 | Ramp | FIRM, Discovery |
| S1640 | Service Drive Usually Along a Limited Access Highway | FIRM, Discovery |
| S1710 | Walkway/Pedestrian Trail | FIRM, Discovery |
| S1720 | Stairway | FIRM, Discovery |
| S1730 | Alley | FIRM, Discovery |
| S1740 | Private Road for Service Vehicles (Logging, Oil Fields, Ranches, Etc.) | FIRM, Discovery |
| S1750 | Internal U.S. Census Bureau Use | FIRM, Discovery |
| S1780 | Parking Lot Road | FIRM, Discovery |
| S1820 | Bike Path or Trail | FIRM, Discovery |
| S1830 | Bridle Path | FIRM, Discovery |
| S2000 | Road Median | FIRM, Discovery |

Domain Tables Technical Reference

| Coded Value | Type of US Census TIGER-Line Transportation Feature | Applies to Database Schema |
|-------------|---|----------------------------|
| NP | NP | FIRM, Discovery |

2.41 D_Mtg_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Meeting | Applies to Database Schema |
|-------------|-------------------|----------------------------|
| 1000 | Final CCO | FIRM |
| 1010 | Flood Risk Review | FIRM |
| 1020 | Initial CCO | FIRM |
| 1030 | Intermediate CCO | FIRM |
| 1040 | Project Discovery | FIRM |
| 1050 | Resilience | FIRM |
| 1060 | Scoping | FIRM |
| 9000 | Other | FIRM |
| NP | NP | FIRM |

2.42 D_Node_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Node | Applies to Database Schema |
|-------------|------------------|----------------------------|
| 1000 | Diversion | FIRM |
| 1010 | Junction | FIRM |
| 1020 | Reservoir | FIRM |
| 1030 | Structure | FIRM |
| 1040 | Sub-Basin Outlet | FIRM |

2.43 D_Obscured

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Topographic Confidence Area | Applies to Database Schema |
|-------------|-------------------------------------|----------------------------|
| 1 | Low Confidence Area | FIRM |
| 2 | Acceptable Confidence Area | FIRM |
| NP | NP | FIRM |

2.44 D_Occupancy_Typ

This domain table is referenced in the FRD database schema.

| Coded Value | Hazard Type Description | Applies to Database Schema |
|-------------|--|----------------------------|
| AGR1 | Agriculture | FRD |
| COM1 | Retail Trade | FRD |
| COM2 | Wholesale Trade | FRD |
| COM3 | Personal and Repair Services | FRD |
| COM4 | Business/Professional/Technical Services | FRD |
| COM5 | Banks | FRD |
| COM6 | Hospital | FRD |
| COM7 | Medical Office/Clinic | FRD |
| COM8 | Entertainment & Recreation | FRD |
| COM9 | Theaters | FRD |
| COM10 | Parking | FRD |
| EDU1 | Schools/Libraries | FRD |
| EDU2 | Colleges/Universities | FRD |
| GOV1 | General Services | FRD |
| GOV2 | Emergency Services | FRD |
| IND1 | Heavy Industrial | FRD |
| IND2 | Light Industrial | FRD |
| IND3 | Food/Drugs/Chemicals | FRD |
| IND4 | Metals/Minerals Processing | FRD |
| IND5 | High Technology | FRD |
| IND6 | Construction | FRD |
| REL1 | Church/Membership Organization | FRD |
| RES1 | Single Family Dwelling | FRD |
| RES2 | Mobile Home | FRD |
| RES3A | Multi Family Dwelling - Duplex | FRD |
| RES3B | Multi Family Dwelling – 3-4 Units | FRD |
| RES3C | Multi Family Dwelling – 5-9 Units | FRD |
| RES3D | Multi Family Dwelling – 10-19 Units | FRD |

Domain Tables Technical Reference

| Coded Value | Hazard Type Description | Applies to Database Schema |
|-------------|-------------------------------------|----------------------------|
| RES3E | Multi Family Dwelling – 20-49 Units | FRD |
| RES3F | Multi Family Dwelling – 50+ Units | FRD |
| RES4 | Temporary Lodging | FRD |
| RES5 | Institutional Dormitory | FRD |
| RES6 | Nursing Home | FRD |
| NP | NP - Not Populated | FRD |

2.45 D_Panel_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Panel | Applies to Database Schema |
|-------------|--------------------------------|----------------------------|
| 1000 | Countywide, Panel Printed | FIRM, Discovery |
| 1010 | Countywide, Not Printed | FIRM, Discovery |
| 1020 | Community Based, Panel Printed | FIRM, Discovery |
| 1030 | Community Based, Not Printed | FIRM, Discovery |
| 1040 | Unmapped Community | FIRM, Discovery |
| 1050 | Statewide, Panel Printed | FIRM, Discovery |
| 1060 | Statewide, Not Printed | FIRM, Discovery |

2.46 D_PFD_Size

This domain table is referenced in the FRD database schema.

| Coded Value | Dune Size Description | Applies to Database Schema |
|-------------|-----------------------|----------------------------|
| SML | SMALL | FRD |
| LRG | LARGE | FRD |
| UNK | UNKNOWN | FRD |
| NP | NP | FRD |

2.47 D_Prof_BasLn_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Profile Baseline | Applies to Database Schema |
|-------------|--|----------------------------|
| 1000 | Profile Baseline | FIRM |
| 2000 | Profile Baseline and Stream Centerline | FIRM |
| 3000 | Hydraulic Link | FIRM |
| UNK | Unknown | FIRM |

2.48 D_Prof_Lbl_Adjust

This domain table is a placeholder in the FIRM database schema for future RASPlot integration.

| Coded Value | Adjustment of Text on Profile | Applies to Database Schema |
|-------------|-------------------------------|----------------------------|
| L | Left | FIRM |
| R | Right | FIRM |
| C | Center | FIRM |
| T | Top | FIRM |
| M | Middle | FIRM |
| B | Bottom | FIRM |

LEFT, RIGHT and CENTER are used for vertical profile text.
TOP, MIDDLE and BOTTOM are used for horizontal profile text.

2.49 D_Prof_Lbl_Orient

This domain table is a placeholder in the FIRM database schema for future RASPlot integration.

| Coded Value | Orientation of Text on Profile | Applies to Database Schema |
|-------------|--------------------------------|----------------------------|
| H | Horizontal | FIRM |
| V | Vertical | FIRM |

2.50 D_Proj_Unit

This domain table is referenced in the FIRM, FRD and NFHL database schemas.

| Coded Value | Type of Units for Projection System | Applies to Database Schema |
|-------------|-------------------------------------|----------------------------|
| USFT | US Survey Feet | FIRM, FRD |
| INTLFT | International Feet | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Units for Projection System | Applies to Database Schema |
|-------------|-------------------------------------|----------------------------|
| METER | Meters | FIRM, FRD |
| DECDEG | Decimal Degrees | NFHL, FRD |
| NP | NP | FIRM, FRD |

2.51 D_Projection

This domain table is referenced in the FIRM, FRD and NFHL database schemas.

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|--|----------------------------|
| 0101 | STATE PLANE TRANSVERSE MERCATOR ALABAMA EAST ZONE | FIRM, FRD |
| 0101H | HARN STATE PLANE TRANSVERSE MERCATOR, ALABAMA EAST ZONE | FIRM, FRD |
| 0102 | STATE PLANE TRANSVERSE MERCATOR, ALABAMA WEST ZONE | FIRM, FRD |
| 0102H | HARN STATE PLANE TRANSVERSE MERCATOR, ALABAMA WEST ZONE | FIRM, FRD |
| 0201 | STATE PLANE TRANSVERSE MERCATOR, ARIZONA EAST ZONE | FIRM, FRD |
| 0201H | HARN STATE PLANE TRANSVERSE MERCATOR, ARIZONA EAST ZONE | FIRM, FRD |
| 0202 | STATE PLANE TRANSVERSE MERCATOR, ARIZONA CENTRAL ZONE | FIRM, FRD |
| 0202H | HARN STATE PLANE TRANSVERSE MERCATOR, ARIZONA CENTRAL ZONE | FIRM, FRD |
| 0203 | STATE PLANE TRANSVERSE MERCATOR, ARIZONA WEST ZONE | FIRM, FRD |
| 0203H | HARN STATE PLANE TRANSVERSE MERCATOR, ARIZONA WEST ZONE | FIRM, FRD |
| 0301 | STATE PLANE LAMBERT CONFORMAL CONIC, ARKANSAS NORTH ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 0302 | STATE PLANE LAMBERT CONFORMAL CONIC, ARKANSAS SOUTH ZONE | FIRM, FRD |
| 0401 | STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA I ZONE | FIRM, FRD |
| 0401H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA I ZONE | FIRM, FRD |
| 0402 | STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA II ZONE | FIRM, FRD |
| 0402H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA II ZONE | FIRM, FRD |
| 0403 | STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA III ZONE | FIRM, FRD |
| 0403H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA III ZONE | FIRM, FRD |
| 0404 | STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA IV ZONE | FIRM, FRD |
| 0404H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA IV ZONE | FIRM, FRD |
| 0405 | STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA V ZONE | FIRM, FRD |
| 0405H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA V ZONE | FIRM, FRD |
| 0406 | STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA VI ZONE | FIRM, FRD |
| 0406H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA VI ZONE | FIRM, FRD |
| 0501 | STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO CENTRAL ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 0501H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO CENTRAL ZONE | FIRM, FRD |
| 0502 | STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO NORTH ZONE | FIRM, FRD |
| 0502H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO NORTH ZONE | FIRM, FRD |
| 0503 | STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO SOUTH ZONE | FIRM, FRD |
| 0503H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO SOUTH ZONE | FIRM, FRD |
| 0600 | STATE PLANE LAMBERT CONFORMAL CONIC, CONNECTICUT ZONE | FIRM, FRD |
| 0600H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, CONNECTICUT ZONE | FIRM, FRD |
| 0700 | STATE PLANE TRANSVERSE MERCATOR, DELAWARE ZONE | FIRM, FRD |
| 0700H | HARN STATE PLANE TRANSVERSE MERCATOR, DELAWARE ZONE | FIRM, FRD |
| 0901 | STATE PLANE TRANSVERSE MERCATOR, FLORIDA EAST ZONE | FIRM, FRD |
| 0901H | HARN STATE PLANE TRANSVERSE MERCATOR, FLORIDA EAST ZONE | FIRM, FRD |
| 0902 | STATE PLANE TRANSVERSE MERCATOR, FLORIDA WEST ZONE | FIRM, FRD |
| 0902H | HARN STATE PLANE TRANSVERSE MERCATOR, FLORIDA WEST ZONE | FIRM, FRD |
| 0903 | STATE PLANE LAMBERT CONFORMAL CONIC, FLORIDA NORTH ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 0903H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, FLORIDA NORTH ZONE | FIRM, FRD |
| 1001 | STATE PLANE TRANSVERSE MERCATOR, GEORGIA EAST ZONE | FIRM, FRD |
| 1001H | HARN STATE PLANE TRANSVERSE MERCATOR, GEORGIA EAST ZONE | FIRM, FRD |
| 1002 | STATE PLANE TRANSVERSE MERCATOR, GEORGIA WEST ZONE | FIRM, FRD |
| 1002H | HARN STATE PLANE TRANSVERSE MERCATOR, GEORGIA WEST ZONE | FIRM, FRD |
| 1101 | STATE PLANE TRANSVERSE MERCATOR, IDAHO EAST ZONE | FIRM, FRD |
| 1101H | HARN STATE PLANE TRANSVERSE MERCATOR, IDAHO EAST ZONE | FIRM, FRD |
| 1102 | STATE PLANE TRANSVERSE MERCATOR, IDAHO CENTRAL ZONE | FIRM, FRD |
| 1102H | HARN STATE PLANE TRANSVERSE MERCATOR, IDAHO CENTRAL ZONE | FIRM, FRD |
| 1103 | STATE PLANE TRANSVERSE MERCATOR, IDAHO WEST ZONE | FIRM, FRD |
| 1103H | HARN STATE PLANE TRANSVERSE MERCATOR, IDAHO WEST ZONE | FIRM, FRD |
| 1201 | STATE PLANE TRANSVERSE MERCATOR, ILLINOIS EAST ZONE | FIRM, FRD |
| 1201H | HARN STATE PLANE TRANSVERSE MERCATOR, ILLINOIS EAST ZONE | FIRM, FRD |
| 1202 | STATE PLANE TRANSVERSE MERCATOR, ILLINOIS WEST ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 1202H | HARN STATE PLANE TRANSVERSE MERCATOR, ILLINOIS WEST ZONE | FIRM, FRD |
| 1301 | STATE PLANE TRANSVERSE MERCATOR, INDIANA EAST ZONE | FIRM, FRD |
| 1301H | HARN STATE PLANE TRANSVERSE MERCATOR, INDIANA EAST ZONE | FIRM, FRD |
| 1302 | STATE PLANE TRANSVERSE MERCATOR, INDIANA WEST ZONE | FIRM, FRD |
| 1302H | HARN STATE PLANE TRANSVERSE MERCATOR, INDIANA WEST ZONE | FIRM, FRD |
| 1401 | STATE PLANE LAMBERT CONFORMAL CONIC, IOWA NORTH ZONE | FIRM, FRD |
| 1402 | STATE PLANE LAMBERT CONFORMAL CONIC, IOWA SOUTH ZONE | FIRM, FRD |
| 1501 | STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS NORTH ZONE | FIRM, FRD |
| 1501H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS NORTH ZONE | FIRM, FRD |
| 1502 | STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS SOUTH ZONE | FIRM, FRD |
| 1502H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS SOUTH ZONE | FIRM, FRD |
| 1600 | STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY ZONE | FIRM, FRD |
| 1601 | STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY NORTH ZONE | FIRM, FRD |
| 1601H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY NORTH ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 1602 | STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY SOUTH ZONE | FIRM, FRD |
| 1602H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY SOUTH ZONE | FIRM, FRD |
| 1701 | STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA NORTH ZONE | FIRM, FRD |
| 1701H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA NORTH ZONE | FIRM, FRD |
| 1702 | STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA SOUTH ZONE | FIRM, FRD |
| 1702H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA SOUTH ZONE | FIRM, FRD |
| 1801 | STATE PLANE TRANSVERSE MERCATOR, MAINE EAST ZONE | FIRM, FRD |
| 1801H | HARN STATE PLANE TRANSVERSE MERCATOR, MAINE EAST ZONE | FIRM, FRD |
| 1802 | STATE PLANE TRANSVERSE MERCATOR, MAINE WEST ZONE | FIRM, FRD |
| 1802H | HARN STATE PLANE TRANSVERSE MERCATOR, MAINE WEST ZONE | FIRM, FRD |
| 1900 | STATE PLANE LAMBERT CONFORMAL CONIC, MARYLAND ZONE | FIRM, FRD |
| 1900H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, MARYLAND ZONE | FIRM, FRD |
| 2001 | STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS ISLAND ZONE | FIRM, FRD |
| 2001H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS ISLAND ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|--|----------------------------|
| 2002 | STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS MLAND ZONE | FIRM, FRD |
| 2002H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS MLAND ZONE | FIRM, FRD |
| 2111 | STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN NORTH ZONE | FIRM, FRD |
| 2111H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN NORTH ZONE | FIRM, FRD |
| 2112 | STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN CENTRAL ZONE | FIRM, FRD |
| 2112H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN CENTRAL ZONE | FIRM, FRD |
| 2113 | STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN SOUTH ZONE | FIRM, FRD |
| 2113H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN SOUTH ZONE | FIRM, FRD |
| 2201 | STATE PLANE LAMBERT CONFORMAL CONIC, MINNESOTA NORTH ZONE | FIRM, FRD |
| 2202 | STATE PLANE LAMBERT CONFORMAL CONIC, MINNESOTA CENTRAL ZONE | FIRM, FRD |
| 2203 | STATE PLANE LAMBERT CONFORMAL CONIC, MINNESOTA SOUTH ZONE | FIRM, FRD |
| 2301 | STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI EAST ZONE | FIRM, FRD |
| 2301H | HARN STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI EAST ZONE | FIRM, FRD |
| 2302 | STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI WEST ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|--|----------------------------|
| 2302H | HARN STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI WEST ZONE | FIRM, FRD |
| 2401 | STATE PLANE TRANSVERSE MERCATOR, MISSOURI EAST ZONE | FIRM, FRD |
| 2402 | STATE PLANE TRANSVERSE MERCATOR, MISSOURI CENTRAL ZONE | FIRM, FRD |
| 2403 | STATE PLANE TRANSVERSE MERCATOR, MISSOURI WEST ZONE | FIRM, FRD |
| 2500 | STATE PLANE LAMBERT CONFORMAL CONIC, MONTANA ZONE | FIRM, FRD |
| 2500H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, MONTANA ZONE | FIRM, FRD |
| 2600 | STATE PLANE LAMBERT CONFORMAL CONIC, NEBRASKA ZONE | FIRM, FRD |
| 2600H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, NEBRASKA ZONE | FIRM, FRD |
| 2701 | STATE PLANE TRANSVERSE MERCATOR, NEVADA EAST ZONE | FIRM, FRD |
| 2701H | HARN STATE PLANE TRANSVERSE MERCATOR, NEVADA EAST ZONE | FIRM, FRD |
| 2702 | STATE PLANE TRANSVERSE MERCATOR, NEVADA CENTRAL ZONE | FIRM, FRD |
| 2702H | HARN STATE PLANE TRANSVERSE MERCATOR, NEVADA CENTRAL ZONE | FIRM, FRD |
| 2703 | STATE PLANE TRANSVERSE MERCATOR, NEVADA WEST ZONE | FIRM, FRD |
| 2703H | HARN STATE PLANE TRANSVERSE MERCATOR, NEVADA WEST ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 2800 | STATE PLANE LAMBERT CONFORMAL CONIC, NEW HAMPSHIRE ZONE | FIRM, FRD |
| 2800H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, NEW HAMPSHIRE ZONE | FIRM, FRD |
| 2900 | STATE PLANE TRANSVERSE MERCATOR, NEW JERSEY ZONE | FIRM, FRD |
| 2900H | HARN STATE PLANE TRANSVERSE MERCATOR, NEW JERSEY ZONE | FIRM, FRD |
| 3001 | STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO EAST ZONE | FIRM, FRD |
| 3001H | HARN STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO EAST ZONE | FIRM, FRD |
| 3002 | STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO CENTRAL ZONE | FIRM, FRD |
| 3002H | HARN STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO CENTRAL ZONE | FIRM, FRD |
| 3003 | STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO WEST ZONE | FIRM, FRD |
| 3003H | HARN STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO WEST ZONE | FIRM, FRD |
| 3101 | STATE PLANE TRANSVERSE MERCATOR, NEW YORK EAST ZONE | FIRM, FRD |
| 3101H | HARN STATE PLANE TRANSVERSE MERCATOR, NEW YORK EAST ZONE | FIRM, FRD |
| 3102 | STATE PLANE TRANSVERSE MERCATOR, NEW YORK CENTRAL ZONE | FIRM, FRD |
| 3102H | HARN STATE PLANE TRANSVERSE MERCATOR, NEW YORK CENTRAL ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 3103 | STATE PLANE TRANSVERSE MERCATOR, NEW YORK WEST ZONE | FIRM, FRD |
| 3103H | HARN STATE PLANE TRANSVERSE MERCATOR, NEW YORK WEST ZONE | FIRM, FRD |
| 3104 | STATE PLANE LAMBERT CONFORMAL CONIC, NEW YORK LONG ISLAND ZONE | FIRM, FRD |
| 3104H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, NEW YORK LONG ISLAND ZONE | FIRM, FRD |
| 3200 | STATE PLANE LAMBERT CONFORMAL CONIC, NORTH CAROLINA ZONE | FIRM, FRD |
| 3301 | STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA NORTH ZONE | FIRM, FRD |
| 3301H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA NORTH ZONE | FIRM, FRD |
| 3302 | STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA SOUTH ZONE | FIRM, FRD |
| 3302H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA SOUTH ZONE | FIRM, FRD |
| 3401 | STATE PLANE LAMBERT CONFORMAL CONIC, OHIO NORTH ZONE | FIRM, FRD |
| 3401H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, OHIO NORTH ZONE | FIRM, FRD |
| 3402 | STATE PLANE LAMBERT CONFORMAL CONIC, OHIO SOUTH ZONE | FIRM, FRD |
| 3402H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, OHIO SOUTH ZONE | FIRM, FRD |
| 3501 | STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA NORTH ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 3501H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA NORTH ZONE | FIRM, FRD |
| 3502 | STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA SOUTH ZONE | FIRM, FRD |
| 3502H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA SOUTH ZONE | FIRM, FRD |
| 3601 | STATE PLANE LAMBERT CONFORMAL CONIC, OREGON NORTH ZONE | FIRM, FRD |
| 3601H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, OREGON NORTH ZONE | FIRM, FRD |
| 3602 | STATE PLANE LAMBERT CONFORMAL CONIC, OREGON SOUTH ZONE | FIRM, FRD |
| 3602H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, OREGON SOUTH ZONE | FIRM, FRD |
| 3701 | STATE PLANE LAMBERT CONFORMAL CONIC, PENNSYLVANIA NORTH ZONE | FIRM, FRD |
| 3702 | STATE PLANE LAMBERT CONFORMAL CONIC, PENNSYLVANIA SOUTH ZONE | FIRM, FRD |
| 3800 | STATE PLANE TRANSVERSE MERCATOR, RHODE ISLAND ZONE | FIRM, FRD |
| 3800H | HARN STATE PLANE TRANSVERSE MERCATOR, RHODE ISLAND ZONE | FIRM, FRD |
| 3900 | STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH CAROLINA ZONE | FIRM, FRD |
| 4001 | STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA NORTH ZONE | FIRM, FRD |
| 4001H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA NORTH ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|--|----------------------------|
| 4002 | STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA SOUTH ZONE | FIRM, FRD |
| 4002H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA SOUTH ZONE | FIRM, FRD |
| 4100 | STATE PLANE LAMBERT CONFORMAL CONIC, TENNESSEE ZONE | FIRM, FRD |
| 4100H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, TENNESSEE ZONE | FIRM, FRD |
| 4201 | STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH ZONE | FIRM, FRD |
| 4201H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH ZONE | FIRM, FRD |
| 4202 | STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH CENTRAL ZONE | FIRM, FRD |
| 4202H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH CENTRAL ZONE | FIRM, FRD |
| 4203 | STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS CENTRAL ZONE | FIRM, FRD |
| 4203H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS CENTRAL ZONE | FIRM, FRD |
| 4204 | STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH CENTRAL ZONE | FIRM, FRD |
| 4204H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH CENTRAL ZONE | FIRM, FRD |
| 4205 | STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH ZONE | FIRM, FRD |
| 4205H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 4301 | STATE PLANE LAMBERT CONFORMAL CONIC, UTAH NORTH ZONE | FIRM, FRD |
| 4301H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, UTAH NORTH ZONE | FIRM, FRD |
| 4302 | STATE PLANE LAMBERT CONFORMAL CONIC, UTAH CENTRAL ZONE | FIRM, FRD |
| 4302H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, UTAH CENTRAL ZONE | FIRM, FRD |
| 4303 | STATE PLANE LAMBERT CONFORMAL CONIC, UTAH SOUTH ZONE | FIRM, FRD |
| 4303H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, UTAH SOUTH ZONE | FIRM, FRD |
| 4400 | STATE PLANE TRANSVERSE MERCATOR, VERMONT ZONE | FIRM, FRD |
| 4400H | HARN STATE PLANE TRANSVERSE MERCATOR, VERMONT ZONE | FIRM, FRD |
| 4501 | STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA NORTH ZONE | FIRM, FRD |
| 4501H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA NORTH ZONE | FIRM, FRD |
| 4502 | STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA SOUTH ZONE | FIRM, FRD |
| 4502H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA SOUTH ZONE | FIRM, FRD |
| 4601 | STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON NORTH ZONE | FIRM, FRD |
| 4601H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON NORTH ZONE | FIRM, FRD |
| 4602 | STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON SOUTH ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 4602H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON SOUTH ZONE | FIRM, FRD |
| 4701 | STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA NORTH ZONE | FIRM, FRD |
| 4701H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA NORTH ZONE | FIRM, FRD |
| 4702 | STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA SOUTH ZONE | FIRM, FRD |
| 4702H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA SOUTH ZONE | FIRM, FRD |
| 4801 | STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN NORTH ZONE | FIRM, FRD |
| 4801H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN NORTH ZONE | FIRM, FRD |
| 4802 | STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN CENTRAL ZONE | FIRM, FRD |
| 4802H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN CENTRAL ZONE | FIRM, FRD |
| 4803 | STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN SOUTH ZONE | FIRM, FRD |
| 4803H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN SOUTH ZONE | FIRM, FRD |
| 4901 | STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST ZONE | FIRM, FRD |
| 4901H | HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST ZONE | FIRM, FRD |
| 4902 | STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST CENTRAL ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|---|----------------------------|
| 4902H | HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST CENTRAL ZONE | FIRM, FRD |
| 4903 | STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST CENTRAL ZONE | FIRM, FRD |
| 4903H | HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST CENTRAL ZONE | FIRM, FRD |
| 4904 | STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST ZONE | FIRM, FRD |
| 4904H | HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST ZONE | FIRM, FRD |
| 5001 | STATE PLANE HOTINE OBLIQUE MERCATOR, ALASKA 1 ZONE | FIRM, FRD |
| 5002 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 2 ZONE | FIRM, FRD |
| 5003 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 3 ZONE | FIRM, FRD |
| 5004 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 4 ZONE | FIRM, FRD |
| 5005 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 5 ZONE | FIRM, FRD |
| 5006 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 6 ZONE | FIRM, FRD |
| 5007 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 7 ZONE | FIRM, FRD |
| 5008 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 8 ZONE | FIRM, FRD |
| 5009 | STATE PLANE TRANSVERSE MERCATOR, ALASKA 9 ZONE | FIRM, FRD |
| 5010 | STATE PLANE LAMBERT CONFORMAL CONIC, ALASKA 10 ZONE | FIRM, FRD |
| 5101 | STATE PLANE TRANSVERSE MERCATOR, HAWAII 1 ZONE | FIRM, FRD |
| 5101H | HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 1 ZONE | FIRM, FRD |
| 5102 | STATE PLANE TRANSVERSE MERCATOR, HAWAII 2 ZONE | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|--|----------------------------|
| 5102H | HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 2 ZONE | FIRM, FRD |
| 5103 | STATE PLANE TRANSVERSE MERCATOR, HAWAII 3 ZONE | FIRM, FRD |
| 5103H | HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 3 ZONE | FIRM, FRD |
| 5104 | STATE PLANE TRANSVERSE MERCATOR, HAWAII 4 ZONE | FIRM, FRD |
| 5104H | HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 4 ZONE | FIRM, FRD |
| 5105 | STATE PLANE TRANSVERSE MERCATOR, HAWAII 5 ZONE | FIRM, FRD |
| 5105H | HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 5 ZONE | FIRM, FRD |
| 5200 | STATE PLANE LAMBERT CONFORMAL CONIC, PR VIRGIN ISLANDS ZONE | FIRM, FRD |
| 5200H | HARN STATE PLANE LAMBERT CONFORMAL CONIC, PR VIRGIN ISLANDS ZONE | FIRM, FRD |
| 5201 | STATE PLANE LAMBERT CONFORMAL CONIC, PUERTO RICO ZONE | FIRM, FRD |
| 5202 | STATE PLANE LAMBERT CONFORMAL CONIC, PR VIRGIN I ST CROIX ZONE | FIRM, FRD |
| 5300 | STATE PLANE LAMBERT CONFORMAL CONIC, AMERICAN SAMOA ZONE | FIRM, FRD |
| 5400 | STATE PLANE POLYCONIC, GUAM ZONE | FIRM, FRD |
| 9000 | OTHER | FIRM, FRD |
| GCS | GEOGRAPHIC COORDINATE SYSTEM | FIRM, NFHL, FRD |
| UTM | UNIVERSAL TRANSVERSE MERCATOR | FIRM, FRD |
| WGS | WGS 1984 WEB MERCATOR (AUXILIARY SPHERE) | NFHL |

Domain Tables Technical Reference

| Coded Value | Type of Projection | Applies to Database Schema |
|-------------|--------------------|----------------------------|
| NP | NP | FIRM |

2.52 D_Projzone

This domain table is referenced in the FIRM database schema.

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 1 | 1 | FIRM |
| 2 | 2 | FIRM |
| 3 | 3 | FIRM |
| 4 | 4 | FIRM |
| 5 | 5 | FIRM |
| 6 | 6 | FIRM |
| 7 | 7 | FIRM |
| 8 | 8 | FIRM |
| 9 | 9 | FIRM |
| 10 | 10 | FIRM |
| 11 | 11 | FIRM |
| 12 | 12 | FIRM |
| 13 | 13 | FIRM |
| 14 | 14 | FIRM |
| 15 | 15 | FIRM |
| 16 | 16 | FIRM |
| 17 | 17 | FIRM |
| 18 | 18 | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 19 | 19 | FIRM |
| 2111H | 2111H | FIRM |
| 0101H | 0101H | FIRM |
| 0102H | 0102H | FIRM |
| 0201H | 0201H | FIRM |
| 0202H | 0202H | FIRM |
| 0203H | 0203H | FIRM |
| 0401H | 0401H | FIRM |
| 0402H | 0402H | FIRM |
| 0403H | 0403H | FIRM |
| 0404H | 0404H | FIRM |
| 0405H | 0405H | FIRM |
| 0406H | 0406H | FIRM |
| 0501H | 0501H | FIRM |
| 0502H | 0502H | FIRM |
| 0503H | 0503H | FIRM |
| 0600H | 0600H | FIRM |
| 0700H | 0700H | FIRM |
| 0901H | 0901H | FIRM |
| 0902H | 0902H | FIRM |
| 0903H | 0903H | FIRM |
| 1001H | 1001H | FIRM |
| 1002H | 1002H | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 1101H | 1101H | FIRM |
| 1102H | 1102H | FIRM |
| 1103H | 1103H | FIRM |
| 1201H | 1201H | FIRM |
| 1202H | 1202H | FIRM |
| 1301H | 1301H | FIRM |
| 1302H | 1302H | FIRM |
| 1501H | 1501H | FIRM |
| 1502H | 1502H | FIRM |
| 1601H | 1601H | FIRM |
| 1602H | 1602H | FIRM |
| 1701H | 1701H | FIRM |
| 1702H | 1702H | FIRM |
| 1801H | 1801H | FIRM |
| 1802H | 1802H | FIRM |
| 1900H | 1900H | FIRM |
| 2001H | 2001H | FIRM |
| 2002H | 2002H | FIRM |
| 2111H | 2111H | FIRM |
| 2112H | 2112H | FIRM |
| 2113H | 2113H | FIRM |
| 2301H | 2301H | FIRM |
| 2302H | 2302H | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 2500H | 2500H | FIRM |
| 2600H | 2600H | FIRM |
| 2701H | 2701H | FIRM |
| 2702H | 2702H | FIRM |
| 2703H | 2703H | FIRM |
| 2800H | 2800H | FIRM |
| 2900H | 2900H | FIRM |
| 3001H | 3001H | FIRM |
| 3002H | 3002H | FIRM |
| 3003H | 3003H | FIRM |
| 3101H | 3101H | FIRM |
| 3102H | 3102H | FIRM |
| 3103H | 3103H | FIRM |
| 3104H | 3104H | FIRM |
| 3301H | 3301H | FIRM |
| 3302H | 3302H | FIRM |
| 3401H | 3401H | FIRM |
| 3402H | 3402H | FIRM |
| 3501H | 3501H | FIRM |
| 3502H | 3502H | FIRM |
| 3601H | 3601H | FIRM |
| 3602H | 3602H | FIRM |
| 3800H | 3800H | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 4001H | 4001H | FIRM |
| 4002H | 4002H | FIRM |
| 4100H | 4100H | FIRM |
| 4201H | 4201H | FIRM |
| 4202H | 4202H | FIRM |
| 4203H | 4203H | FIRM |
| 4204H | 4204H | FIRM |
| 4205H | 4205H | FIRM |
| 4301H | 4301H | FIRM |
| 4302H | 4302H | FIRM |
| 4303H | 4303H | FIRM |
| 4400H | 4400H | FIRM |
| 4501H | 4501H | FIRM |
| 4502H | 4502H | FIRM |
| 4601H | 4601H | FIRM |
| 4602H | 4602H | FIRM |
| 4701H | 4701H | FIRM |
| 4702H | 4702H | FIRM |
| 4801H | 4801H | FIRM |
| 4802H | 4802H | FIRM |
| 4803H | 4803H | FIRM |
| 4901H | 4901H | FIRM |
| 4902H | 4902H | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 4903H | 4903H | FIRM |
| 4904H | 4904H | FIRM |
| 5101H | 5101H | FIRM |
| 5102H | 5102H | FIRM |
| 5103H | 5103H | FIRM |
| 5104H | 5104H | FIRM |
| 5105H | 5105H | FIRM |
| 5200H | 5200H | FIRM |
| 0101 | 0101 | FIRM |
| 0102 | 0102 | FIRM |
| 0201 | 0201 | FIRM |
| 0202 | 0202 | FIRM |
| 0203 | 0203 | FIRM |
| 0301 | 0301 | FIRM |
| 0302 | 0302 | FIRM |
| 0401 | 0401 | FIRM |
| 0402 | 0402 | FIRM |
| 0403 | 0403 | FIRM |
| 0404 | 0404 | FIRM |
| 0405 | 0405 | FIRM |
| 0406 | 0406 | FIRM |
| 0501 | 0501 | FIRM |
| 0502 | 0502 | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 0503 | 0503 | FIRM |
| 0600 | 0600 | FIRM |
| 0700 | 0700 | FIRM |
| 0901 | 0901 | FIRM |
| 0902 | 0902 | FIRM |
| 0903 | 0903 | FIRM |
| 1001 | 1001 | FIRM |
| 1002 | 1002 | FIRM |
| 1101 | 1101 | FIRM |
| 1102 | 1102 | FIRM |
| 1103 | 1103 | FIRM |
| 1201 | 1201 | FIRM |
| 1202 | 1202 | FIRM |
| 1301 | 1301 | FIRM |
| 1302 | 1302 | FIRM |
| 1401 | 1401 | FIRM |
| 1402 | 1402 | FIRM |
| 1501 | 1501 | FIRM |
| 1502 | 1502 | FIRM |
| 1600 | 1600 | FIRM |
| 1601 | 1601 | FIRM |
| 1602 | 1602 | FIRM |
| 1701 | 1701 | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 1702 | 1702 | FIRM |
| 1801 | 1801 | FIRM |
| 1802 | 1802 | FIRM |
| 1900 | 1900 | FIRM |
| 2001 | 2001 | FIRM |
| 2002 | 2002 | FIRM |
| 2111 | 2111 | FIRM |
| 2112 | 2112 | FIRM |
| 2113 | 2113 | FIRM |
| 2201 | 2201 | FIRM |
| 2202 | 2202 | FIRM |
| 2203 | 2203 | FIRM |
| 2301 | 2301 | FIRM |
| 2302 | 2302 | FIRM |
| 2401 | 2401 | FIRM |
| 2402 | 2402 | FIRM |
| 2403 | 2403 | FIRM |
| 2500 | 2500 | FIRM |
| 2600 | 2600 | FIRM |
| 2701 | 2701 | FIRM |
| 2702 | 2702 | FIRM |
| 2703 | 2703 | FIRM |
| 2800 | 2800 | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 2900 | 2900 | FIRM |
| 3001 | 3001 | FIRM |
| 3002 | 3002 | FIRM |
| 3003 | 3003 | FIRM |
| 3101 | 3101 | FIRM |
| 3102 | 3102 | FIRM |
| 3103 | 3103 | FIRM |
| 3104 | 3104 | FIRM |
| 3200 | 3200 | FIRM |
| 3301 | 3301 | FIRM |
| 3302 | 3302 | FIRM |
| 3401 | 3401 | FIRM |
| 3402 | 3402 | FIRM |
| 3501 | 3501 | FIRM |
| 3502 | 3502 | FIRM |
| 3601 | 3601 | FIRM |
| 3602 | 3602 | FIRM |
| 3701 | 3701 | FIRM |
| 3702 | 3702 | FIRM |
| 3800 | 3800 | FIRM |
| 3900 | 3900 | FIRM |
| 4001 | 4001 | FIRM |
| 4002 | 4002 | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 4100 | 4100 | FIRM |
| 4201 | 4201 | FIRM |
| 4202 | 4202 | FIRM |
| 4203 | 4203 | FIRM |
| 4204 | 4204 | FIRM |
| 4205 | 4205 | FIRM |
| 4301 | 4301 | FIRM |
| 4302 | 4302 | FIRM |
| 4303 | 4303 | FIRM |
| 4400 | 4400 | FIRM |
| 4501 | 4501 | FIRM |
| 4502 | 4502 | FIRM |
| 4601 | 4601 | FIRM |
| 4602 | 4602 | FIRM |
| 4701 | 4701 | FIRM |
| 4702 | 4702 | FIRM |
| 4801 | 4801 | FIRM |
| 4802 | 4802 | FIRM |
| 4803 | 4803 | FIRM |
| 4901 | 4901 | FIRM |
| 4902 | 4902 | FIRM |
| 4903 | 4903 | FIRM |
| 4904 | 4904 | FIRM |

Domain Tables Technical Reference

| Coded Value | Projection Zone | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| 5001 | 5001 | FIRM |
| 5002 | 5002 | FIRM |
| 5003 | 5003 | FIRM |
| 5004 | 5004 | FIRM |
| 5005 | 5005 | FIRM |
| 5006 | 5006 | FIRM |
| 5007 | 5007 | FIRM |
| 5008 | 5008 | FIRM |
| 5009 | 5009 | FIRM |
| 5010 | 5010 | FIRM |
| 5101 | 5101 | FIRM |
| 5102 | 5102 | FIRM |
| 5103 | 5103 | FIRM |
| 5104 | 5104 | FIRM |
| 5105 | 5105 | FIRM |
| 5200 | 5200 | FIRM |
| 5201 | 5201 | FIRM |
| 5202 | 5202 | FIRM |
| 5300 | 5300 | FIRM |
| 5400 | 5400 | FIRM |
| 9000 | 9000 | FIRM |
| NP | NP | FIRM |

2.53 D_Quad_Corner

This domain table is referenced in the FIRM database schema.

| Coded Value | Quad Corner | Applies to Database Schema |
|-------------|-------------|----------------------------|
| NE | NE | FIRM |
| NW | NW | FIRM |
| SE | SE | FIRM |
| SW | SW | FIRM |

2.54 D_Release_Typ

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Release | Applies to Database Schema |
|-------------|-----------------|----------------------------|
| P | Piping | FRD |
| O | Overtop | FRD |
| G | Gate Failure | FRD |
| NP | NP | FRD |

2.55 D_Reservoir_Cond

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Reservoir Conditions | Applies to Database Schema |
|-------------|------------------------------|----------------------------|
| F | Full | FRD |
| N | Normal Pool | FRD |
| A | Auxiliary Spillway | FRD |
| P | Primary Spillway | FRD |
| W | Without Dam | FRD |
| NP | NP | FRD |

2.56 D_Runup_Mdl

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Type of Runup Model | Applies to Database Schema |
|-------------|--------------------------|----------------------------|
| 1010 | ACES 1.07 (1992) | FIRM, FRD |
| 1015 | CEM – OTHER (2003) | FIRM, FRD |
| 1020 | CHAMP / RUNUP 2.0 (2007) | FIRM, FRD |
| 1080 | DIM | FIRM, FRD |
| 1030 | EROSION (1998) | FRD |
| 1040 | GLWRM (1992) | FRD |
| 9000 | OTHER | FIRM, FRD |
| 1050 | RUNUP 2.0 (1990) | FIRM, FRD |
| 1070 | SPM (USACE 1984) | FIRM, FRD |
| 1060 | TAW Method | FIRM, FRD |

2.57 D_Scale

This domain table is referenced in the FIRM database schema.

| Coded Value | FIRM Panel Scale | Applies to Database Schema |
|-------------|------------------|----------------------------|
| 1000 | 6000 | FIRM, Discovery |
| 1010 | 12000 | FIRM, Discovery |
| 1020 | 24000 | FIRM, Discovery |
| 2000 | 10000 | FIRM, Discovery |

2.58 D_SFHA_FLDWY

This domain table is referenced in the FRD database schema.

| Coded Value | Type of FRD Floodway | Applies to Database Schema |
|-------------|-------------------------------|----------------------------|
| SFHA | Special Flood Hazard Area | FRD |
| FLDWY | Floodway | FRD |
| NONSFHA | Non-Special Flood Hazard Area | FRD |

Domain Tables Technical Reference

| Coded Value | Type of FRD Floodway | Applies to Database Schema |
|-------------|--------------------------|----------------------------|
| CHHA | Coastal High Hazard Area | FRD |
| NP | NP | FRD |

2.59 D_Shr_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Shoreline | Applies to Database Schema |
|-------------|----------------------------|----------------------------|
| 1000 | Sandy Beach-Small Dune | FIRM |
| 1010 | Sandy Beach-Large Dune | FIRM |
| 1020 | Erodible Bluff | FIRM |
| 1030 | Non-Erodible Bluff | FIRM |
| 1040 | Shore Protection Structure | FIRM |
| 1050 | Wetland | FIRM |

2.60 D_State_FIPS

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | FIRM Description | FRD Description | Applies to Database Schema |
|-------------|------------------|---------------------------|----------------------------|
| 01 | 01 | 01 - Alabama | FIRM, FRD, Discovery |
| 02 | 02 | 02 - Alaska | FIRM, FRD, Discovery |
| 04 | 04 | 04 - Arizona | FIRM, FRD, Discovery |
| 05 | 05 | 05 - Arkansas | FIRM, FRD, Discovery |
| 06 | 06 | 06 - California | FIRM, FRD, Discovery |
| 08 | 08 | 08 - Colorado | FIRM, FRD, Discovery |
| 09 | 09 | 09 - Connecticut | FIRM, FRD, Discovery |
| 10 | 10 | 10 - Delaware | FIRM, FRD, Discovery |
| 11 | 11 | 11 - District of Columbia | FIRM, FRD, Discovery |

Domain Tables Technical Reference

| Coded Value | FIRM Description | FRD Description | Applies to Database Schema |
|-------------|------------------|--------------------|----------------------------|
| 12 | 12 | 12 - Florida | FIRM, FRD, Discovery |
| 13 | 13 | 13 - Georgia | FIRM, FRD, Discovery |
| 15 | 15 | 15 - Hawaii | FIRM, FRD, Discovery |
| 16 | 16 | 16 - Idaho | FIRM, FRD, Discovery |
| 17 | 17 | 17 - Illinois | FIRM, FRD, Discovery |
| 18 | 18 | 18 - Indiana | FIRM, FRD, Discovery |
| 19 | 19 | 19 - Iowa | FIRM, FRD, Discovery |
| 20 | 20 | 20 - Kansas | FIRM, FRD, Discovery |
| 21 | 21 | 21 - Kentucky | FIRM, FRD, Discovery |
| 22 | 22 | 22 - Louisiana | FIRM, FRD, Discovery |
| 23 | 23 | 23 - Maine | FIRM, FRD, Discovery |
| 24 | 24 | 24 - Maryland | FIRM, FRD, Discovery |
| 25 | 25 | 25 - Massachusetts | FIRM, FRD, Discovery |
| 26 | 26 | 26 - Michigan | FIRM, FRD, Discovery |
| 27 | 27 | 27 - Minnesota | FIRM, FRD, Discovery |
| 28 | 28 | 28 - Mississippi | FIRM, FRD, Discovery |
| 29 | 29 | 29 - Missouri | FIRM, FRD, Discovery |
| 30 | 30 | 30 - Montana | FIRM, FRD, Discovery |
| 31 | 31 | 31 - Nebraska | FIRM, FRD, Discovery |
| 32 | 32 | 32 - Nevada | FIRM, FRD, Discovery |
| 33 | 33 | 33 - New Hampshire | FIRM, FRD, Discovery |
| 34 | 34 | 34 - New Jersey | FIRM, FRD, Discovery |
| 35 | 35 | 35 - New Mexico | FIRM, FRD, Discovery |

Domain Tables Technical Reference

| Coded Value | FIRM Description | FRD Description | Applies to Database Schema |
|-------------|------------------|-------------------------------|----------------------------|
| 36 | 36 | 36 - New York | FIRM, FRD, Discovery |
| 37 | 37 | 37 - North Carolina | FIRM, FRD, Discovery |
| 38 | 38 | 38 - North Dakota | FIRM, FRD, Discovery |
| 39 | 39 | 39 - Ohio | FIRM, FRD, Discovery |
| 40 | 40 | 40 - Oklahoma | FIRM, FRD, Discovery |
| 41 | 41 | 41 - Oregon | FIRM, FRD, Discovery |
| 42 | 42 | 42 - Pennsylvania | FIRM, FRD, Discovery |
| 44 | 44 | 44 - Rhode Island | FIRM, FRD, Discovery |
| 45 | 45 | 45 - South Carolina | FIRM, FRD, Discovery |
| 46 | 46 | 46 - South Dakota | FIRM, FRD, Discovery |
| 47 | 47 | 47 - Tennessee | FIRM, FRD, Discovery |
| 48 | 48 | 48 - Texas | FIRM, FRD, Discovery |
| 49 | 49 | 49 - Utah | FIRM, FRD, Discovery |
| 50 | 50 | 50 - Vermont | FIRM, FRD, Discovery |
| 51 | 51 | 51 - Virginia | FIRM, FRD, Discovery |
| 53 | 53 | 53 - Washington | FIRM, FRD, Discovery |
| 54 | 54 | 54 - West Virginia | FIRM, FRD, Discovery |
| 55 | 55 | 55 - Wisconsin | FIRM, FRD, Discovery |
| 56 | 56 | 56 - Wyoming | FIRM, FRD, Discovery |
| 60 | 60 | 60 - American Samoa | FIRM, FRD, Discovery |
| 64 | 64 | 64 - Micronesia | FIRM, FRD, Discovery |
| 66 | 66 | 66 - Guam | FIRM, FRD, Discovery |
| 68 | 68 | 68 - Marshall Islands | FIRM, FRD |
| 69 | 69 | 69 - Northern Mariana Islands | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | FIRM Description | FRD Description | Applies to Database Schema |
|-------------|------------------|-------------------------|----------------------------|
| 70 | 70 | 70 - Palau | FIRM, FRD |
| 72 | 72 | 72 - Puerto Rico | FIRM, FRD |
| 74 | 74 | 74 – U.S. Minor Islands | FIRM, FRD |
| 78 | 78 | 78 - Virgin Islands | FIRM, FRD |

2.61 D_State_Name

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | State Name | Applies to Database Schema |
|-------------|----------------------|----------------------------|
| AL | Alabama | FIRM, FRD, Discovery |
| AK | Alaska | FIRM, FRD, Discovery |
| AS | American Samoa | FIRM, FRD, Discovery |
| AR | Arkansas | FIRM, FRD, Discovery |
| AZ | Arizona | FIRM, FRD, Discovery |
| CA | California | FIRM, FRD, Discovery |
| CO | Colorado | FIRM, FRD, Discovery |
| CT | Connecticut | FIRM, FRD, Discovery |
| DE | Delaware | FIRM, FRD, Discovery |
| DC | District of Columbia | FIRM, FRD, Discovery |
| FL | Florida | FIRM, FRD, Discovery |
| GA | Georgia | FIRM, FRD, Discovery |
| GU | Guam | FIRM, FRD, Discovery |
| HI | Hawaii | FIRM, FRD, Discovery |
| ID | Idaho | FIRM, FRD, Discovery |
| IL | Illinois | FIRM, FRD, Discovery |
| IN | Indiana | FIRM, FRD, Discovery |

Domain Tables Technical Reference

| Coded Value | State Name | Applies to Database Schema |
|-------------|--------------------------|----------------------------|
| IA | Iowa | FIRM, FRD, Discovery |
| KS | Kansas | FIRM, FRD, Discovery |
| KY | Kentucky | FIRM, FRD, Discovery |
| LA | Louisiana | FIRM, FRD, Discovery |
| ME | Maine | FIRM, FRD, Discovery |
| MH | Marshall Islands | FIRM, FRD, Discovery |
| MD | Maryland | FIRM, FRD, Discovery |
| MA | Massachusetts | FIRM, FRD, Discovery |
| MI | Michigan | FIRM, FRD, Discovery |
| FM | Micronesia | FIRM, FRD, Discovery |
| MN | Minnesota | FIRM, FRD, Discovery |
| MS | Mississippi | FIRM, FRD, Discovery |
| MO | Missouri | FIRM, FRD, Discovery |
| MT | Montana | FIRM, FRD, Discovery |
| NE | Nebraska | FIRM, FRD, Discovery |
| NV | Nevada | FIRM, FRD, Discovery |
| NH | New Hampshire | FIRM, FRD, Discovery |
| NJ | New Jersey | FIRM, FRD, Discovery |
| NM | New Mexico | FIRM, FRD, Discovery |
| NY | New York | FIRM, FRD, Discovery |
| NC | North Carolina | FIRM, FRD, Discovery |
| ND | North Dakota | FIRM, FRD, Discovery |
| MP | Northern Mariana Islands | FIRM, FRD, Discovery |

Domain Tables Technical Reference

| Coded Value | State Name | Applies to Database Schema |
|-------------|--------------------|----------------------------|
| OH | Ohio | FIRM, FRD, Discovery |
| OK | Oklahoma | FIRM, FRD, Discovery |
| OR | Oregon | FIRM, FRD, Discovery |
| PW | Palau | FIRM, FRD, Discovery |
| PA | Pennsylvania | FIRM, FRD, Discovery |
| PR | Puerto Rico | FIRM, FRD, Discovery |
| RI | Rhode Island | FIRM, FRD, Discovery |
| SC | South Carolina | FIRM, FRD, Discovery |
| SD | South Dakota | FIRM, FRD, Discovery |
| TN | Tennessee | FIRM, FRD, Discovery |
| TX | Texas | FIRM, FRD, Discovery |
| UM | U.S. Minor Islands | FIRM, FRD, Discovery |
| UT | Utah | FIRM, FRD, Discovery |
| VT | Vermont | FIRM, FRD, Discovery |
| VA | Virginia | FIRM, FRD, Discovery |
| VI | Virgin Islands | FIRM, FRD, Discovery |
| WA | Washington | FIRM, FRD, Discovery |
| WV | West Virginia | FIRM, FRD, Discovery |
| WI | Wisconsin | FIRM, FRD, Discovery |
| WY | Wyoming | FIRM, FRD, Discovery |
| NP | NP | FIRM, FRD, Discovery |

2.62 D_Struct_Face

This domain table is referenced in the FIRM database schema.

| Coded Value | Face of Structure | Applies to Database Schema |
|-------------|-------------------|----------------------------|
| UP | Upstream | FIRM |
| DN | Downstream | FIRM |
| UNK | Unknown | FIRM |

2.63 D_Struct_Mtl

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Structure Material | Applies to Database Schema |
|-------------|----------------------------|----------------------------|
| 1000 | Stone | FIRM |
| 1010 | Asphalt | FIRM |
| 1020 | Concrete | FIRM |
| 1030 | Earthen | FIRM |
| 1040 | Timber | FIRM |
| 1050 | Steel | FIRM |
| 1060 | Sand | FIRM |
| 1070 | Other | FIRM |
| 1080 | Unknown | FIRM |
| NP | NP | FIRM |

2.64 D_Struct_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Structure Type Definition | Applies to Database Schema |
|-------------|---------------------------|----------------------------|
| 1000 | Aqueduct | FIRM |
| 1001 | Bridge | FIRM |
| 1002 | Canal | FIRM |
| 1003 | Channel | FIRM |
| 1006 | Control Structure | FIRM |

Domain Tables Technical Reference

| Coded Value | Structure Type Definition | Applies to Database Schema |
|-------------|--|----------------------------|
| 1007 | Culvert | FIRM |
| 1010 | Dam | FIRM |
| 1011 | Dike | FIRM |
| 1012 | Dock | FIRM |
| 1013 | Drop Structure | FIRM |
| 1014 | Energy Dissipater | FIRM |
| 1015 | Fish Ladder | FIRM |
| 1017 | Flume | FIRM |
| 1018 | Footbridge | FIRM |
| 1019 | Gate | FIRM |
| 1020 | Jetty | FIRM |
| 1021 | Levee | FIRM |
| 1022 | Lock | FIRM |
| 1023 | Penstock | FIRM |
| 1024 | Pier | FIRM |
| 1025 | Pump Station | FIRM |
| 1026 | Seawall | FIRM |
| 1027 | Side Weir Structure | FIRM |
| 1028 | Storm Sewer | FIRM |
| 1029 | Utility Crossing | FIRM |
| 1030 | Weir | FIRM |
| 1031 | Wing Wall | FIRM |
| 1033 | 0.2 PCT Annual Chance Flood Discharge Contained in Structure | FIRM |

Domain Tables Technical Reference

| Coded Value | Structure Type Definition | Applies to Database Schema |
|-------------|--|----------------------------|
| 1032 | 1 percent Annual Chance Flood Discharge Contained in Structure | FIRM |
| 1036 | Floodway Contained in Structure | FIRM |
| 1037 | Pipeline | FIRM |
| 1038 | Retaining Wall | FIRM |
| 1039 | Revetment | FIRM |
| 1040 | Siphon | FIRM |
| 9000 | Other / Misc. Structure | FIRM |
| NP | NP | FIRM |

2.65 D_Study_Mth

| Coded Value | Study Method | When Used | Applies to Database Schema |
|-------------|--------------|--|----------------------------|
| 1000 | New H&H | New fully detailed modeling | FIRM, FRD |
| 1010 | BLE TIER A | Auto placed cross sections, structures not included | FIRM, FRD |
| 1020 | BLE TIER B | Intelligently placed cross sections, structures not included | FIRM, FRD |
| 1030 | BLE TIER C | Cross sections reviewed by engineer, structures included | FIRM, FRD |
| 1040 | BLE TIER D | Cross sections reviewed by engineer, structures with opening information | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Study Method | When Used | Applies to Database Schema |
|-------------|--------------------|--|----------------------------|
| 1050 | BLE TIER E | Cross sections reviewed by engineer and with channel bathymetry, structures from field survey, as-builts, or measured in field | FIRM, FRD |
| 1060 | LSAE | Large Scale Automated Engineering | FIRM, FRD |
| 1100 | REDELINEATION | Existing studies remapped on new topographic data | FIRM, FRD |
| 1200 | DIGITAL CONVERSION | Existing studies digitized from existing scanned panels | FIRM, FRD |
| 9000 | OTHER | OTHER | FRD |
| NP | NP | NP; unshaded-X zones | FIRM |

2.66 D_Study_Prefix

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Type of Prefix Value | Applies to Database Schema |
|-------------|----------------------|----------------------------|
| 0100 | Borough of | FIRM, FRD |
| 0200 | City and County of | FIRM, FRD |
| 0300 | City of | FIRM, FRD |
| 0400 | Municipality of | FIRM, FRD |
| 0500 | Town of | FIRM, FRD |
| 0600 | Township of | FIRM, FRD |
| 0700 | Village of | FIRM, FRD |
| 0800 | Town and Village of | FIRM, FRD |
| 9000 | Other | FIRM, FRD |

2.67 D_Study_Typ

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Type of Study | When Used | Applies to Database Schema |
|-------------|--|--|----------------------------|
| 1030 | BLE available but unpublished | Base Level Engineering data are available but zones and Baseflood Elevations (BFEs) are not published on FIRM | FIRM, FRD, Discovery |
| 1000 | Special Flood Hazard Area (SFHA) without BFE | Such as A zones without BFEs or water surface elevations | FIRM, FRD, Discovery |
| 1040 | SFHA with unpublished BFE | Such as A zones with BFEs or water surface elevations calculated but not published in FIS Report | FIRM, FRD, Discovery |
| 1010 | SFHA with BFE published only in FIS | Such as A zones with BFEs or water surface elevations published only in FIS Report | FIRM, FRD, Discovery |
| 1050 | SFHA with BFE no floodway | Such as AE or VE zones with regulatory water surface elevations or depths but no floodway; or shaded-X zones that are associated with this type of study | FIRM, FRD, Discovery |
| 1060 | SFHA with BFE and floodway | Such as AE or VE zones with regulatory water surface elevations and a regulatory floodway; or shaded-X zones that are associated with this type of study | FIRM, FRD, Discovery |
| 1070 | Shaded Zone X with depths less than 1' | Such as Zone X with depths less than 1' | FIRM, FRD, Discovery |
| 9000 | OTHER | OTHER | FRD |
| NP | NP | NP; unshaded-X zones | FIRM, Discovery |

2.68 D_Subbasin_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Subbasin Model | Applies to Database Schema |
|-------------|------------------------|----------------------------|
| HYD | Hydrologic Analyses | FIRM |
| HUC8 | USGS HUC-8 | FIRM |
| NP | NP | FIRM |

2.69 D_Surge_Mdl

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Type of Surge Model | Applies to Database Schema |
|-------------|---------------------------------------|----------------------------|
| 1010 | DYNLET | FIRM, FRD |
| 1020 | FEMA Surge (1988) | FIRM, FRD |
| 1040 | MIKE 21 HD/NHD | FIRM, FRD |
| 1050 | New England Tide Profile | FIRM, FRD |
| 1080 | TABS RMA V.4.3 (Oct 1996) | FIRM, FRD |
| 1090 | USACE Great Lakes Tide Profile (1988) | FIRM, FRD |
| 0100 | ADCIRC (2003) | FIRM, FRD |
| 0110 | DELFT 3D | FIRM, FRD |
| 9000 | OTHER | FRD |

2.70 D_Task_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Data Development or Non-Regulatory Flood Risk Task | Applies to Database Schema |
|-------------|--|----------------------------|
| 1000 | ALLUVIAL FAN | FIRM |
| 1010 | BASE MAP | FIRM |
| 1020 | COASTAL | FIRM |
| 1030 | FIRM DATABASE | FIRM |
| 1040 | FLOODPLAIN MAPPING | FIRM |
| 1050 | HYDRAULIC | FIRM |
| 1060 | HYDROLOGIC | FIRM |
| 1070 | SURVEY | FIRM |
| 1080 | NEW TOPO CAPTURE | FIRM |
| 1081 | EXISTING TOPO CAPTURE | FIRM |
| 1082 | TERRAIN CAPTURE | FIRM |

Domain Tables Technical Reference

| Coded Value | Type of Data Development or Non-Regulatory Flood Risk Task | Applies to Database Schema |
|-------------|--|----------------------------|
| 1090 | DISCOVERY | FIRM |
| 1100 | FLOOD RISK ASSESSMENT | FIRM |
| 1200 | LOMR | FIRM |
| 1300 | Levee Seclusion | FIRM |
| NP | NP | FIRM |

2.71 D_Time_Units

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Time Unit | Applies to Database Schema |
|-------------|-------------------|----------------------------|
| 1000 | DAYS | FIRM |
| 1010 | HOURS | FIRM |
| 1020 | MINUTES | FIRM |
| 1030 | MONTHS | FIRM |
| 1040 | SECONDS | FIRM |
| 1050 | WEEKS | FIRM |
| 1060 | YEARS | FIRM |

2.72 D_TrueFalse

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | FRD Description | FIRM Description | Applies to Database Schema |
|-------------|-----------------|------------------|----------------------------|
| T | True (Yes) | T | FIRM, FRD, Discovery |
| F | False (No) | F | FIRM, FRD, Discovery |
| U | Unknown | U | FIRM, FRD, Discovery |

2.73 D_TsctBasIn_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Transect Baseline Source | Applies to Database Schema |
|-------------|----------------------------------|----------------------------|
| 1000 | Zero Foot Contour Field Survey | FIRM |
| 1010 | Zero Foot Contour LiDAR / Shoals | FIRM |

Domain Tables Technical Reference

| Coded Value | Type of Transect Baseline Source | Applies to Database Schema |
|-------------|---|----------------------------|
| 1020 | Zero Foot Contour Referenced to Tidal Datum | FIRM |
| 9000 | Other Source | FIRM |
| NP | NP | FIRM |

2.74 D_USACE_District

This domain table is referenced in the FIRM database schema.

| Coded Value | United States Army Corps of Engineers (USACE) District | Applies to Database Schema |
|-------------|--|----------------------------|
| 1001 | Alaska | FIRM |
| 1002 | Albuquerque | FIRM |
| 1003 | Baltimore | FIRM |
| 1004 | Buffalo | FIRM |
| 1005 | Charleston | FIRM |
| 1006 | Chicago | FIRM |
| 1007 | Detroit | FIRM |
| 1008 | Fort Worth | FIRM |
| 1009 | Galveston | FIRM |
| 1010 | Gulf Region | FIRM |
| 1011 | Honolulu | FIRM |
| 1012 | Huntington | FIRM |
| 1013 | Jacksonville | FIRM |
| 1014 | Kansas City | FIRM |
| 1015 | Little Rock | FIRM |
| 1016 | Louisville | FIRM |
| 1017 | Los Angeles | FIRM |
| 1018 | Memphis | FIRM |
| 1019 | Mobile | FIRM |
| 1020 | Nashville | FIRM |
| 1021 | New England | FIRM |
| 1022 | New Orleans | FIRM |
| 1023 | New York | FIRM |
| 1024 | Norfolk | FIRM |
| 1025 | Omaha | FIRM |
| 1026 | Philadelphia | FIRM |
| 1027 | Pittsburgh | FIRM |
| 1028 | Portland | FIRM |

Domain Tables Technical Reference

| Coded Value | United States Army Corps of Engineers (USACE) District | Applies to Database Schema |
|-------------|--|----------------------------|
| 1029 | Rock Island | FIRM |
| 1030 | Sacramento | FIRM |
| 1031 | San Francisco | FIRM |
| 1032 | Savannah | FIRM |
| 1033 | Seattle | FIRM |
| 1034 | St. Louis | FIRM |
| 1035 | St. Paul | FIRM |
| 1036 | Tulsa | FIRM |
| 1037 | Vicksburg | FIRM |
| 1038 | Walla Walla | FIRM |
| 1039 | Wilmington | FIRM |
| NP | NP | FIRM |

2.75 D_V_Datum

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | FRD Description | Type of Vertical Datum FIRM Description | Applies to Database Schema |
|-------------|---|--|----------------------------|
| MSL | Mean Sea Level | MSL | FIRM, FRD |
| NAVD88 | North American Vertical Datum 1988 | NAVD88 | FIRM, FRD |
| NGVD29 | North American Geodetic Vertical Datum 1929 | NGVD29 | FIRM, FRD |
| TIDAL | Local Tidal Datum | LOCAL TIDAL DATUM | FIRM, FRD |
| MLLW | Mean Lower Low Water Datum | MLLW | FIRM, FRD |
| MLW | Mean Low Water Datum | MLW | FIRM, FRD |
| NP | NP | NP | FIRM |

NP – for legacy NFHL records only. All new studies must specify vertical datum.

2.76 D_Velocity_Units

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Velocity Unit | Applies to Database Schema |
|-------------|-----------------------|----------------------------|
| 1000 | Centimeters / Day | FIRM |
| 1010 | Centimeters / Hour | FIRM |

Domain Tables Technical Reference

| Coded Value | Type of Velocity Unit | Applies to Database Schema |
|-------------|-----------------------|----------------------------|
| 1020 | Feet / Second | FIRM |
| 1030 | Inches / Day | FIRM |
| 1040 | Inches / Hour | FIRM |
| 1050 | Meters / Second | FIRM |
| 1060 | Micrometers / Second | FIRM |
| 1070 | Millimeters / Day | FIRM |
| 1080 | Millimeters / Hour | FIRM |
| NP | NP | FIRM |

2.77 D_VZone

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of V Zone | Applies to Database Schema |
|-------------|------------------------------|----------------------------|
| 1060 | Breaking Wave Ht | FIRM |
| 1050 | High Velocity Flow | FIRM |
| 1030 | Runup | FIRM |
| 1010 | Wave Overtopping Splash Zone | FIRM |
| 1020 | PFD | FIRM |

2.78 D_Wave_Haz

This domain table is referenced in the FRD database schema.

| Coded Value | Type of Wave Hazard | Applies to Database Schema |
|-------------|---------------------|----------------------------|
| HIGH | High | FRD |
| MOD | Moderate | FRD |
| MIN | Minimal | FRD |
| NP | NP | FRD |

2.79 D_Wave_Mdl

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Type of Wave Model | Applies to Database Schema |
|-------------|--------------------|----------------------------|
| 1020 | MIKE 21 (OSW) | FIRM, FRD |
| 1030 | MIKE 21 (NSW) | FIRM, FRD |

Domain Tables Technical Reference

| Coded Value | Type of Wave Model | Applies to Database Schema |
|-------------|-------------------------|----------------------------|
| 1040 | RCPWAVE (1986) | FIRM, FRD |
| 1050 | WHAFIS 3.0 (1988) | FIRM, FRD |
| 1060 | WHAFIS 3.0 GL (1983) | FIRM, FRD |
| 1010 | DELFT 3D | FIRM, FRD |
| 1070 | STWAVE (Latest Version) | FIRM, FRD |
| 1080 | SWAN (2008) | FIRM, FRD |
| 1065 | WHAFIS 4.0 (2007) | FIRM, FRD |
| 9000 | OTHER | FRD |

2.80 D_XS_Ln_Typ

This domain table is referenced in the FIRM database schema.

| Coded Value | Type of Cross Section Description | Applies to Database Schema | When Used? |
|-------------|-----------------------------------|----------------------------|--|
| 1010 | LETTERED, MAPPED | FIRM | Traditional Lettered XS, FDTs, Profiles |
| 1020 | NOT LETTERED, MAPPED | FIRM | Modeled XSs used for Base Flood Elevation (BFE) values on FIRM panels, not shown on FDTs or Profiles, shown but not lettered on panels |
| 1030 | NOT LETTERED, NOT MAPPED | FIRM | Model Backup in the FIRM Database, including unused XSs adjacent to bridges, too densely spaced, or modeled Zone A. |

2.81 D_Zone

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Type of Flood Zone | Applies to Database Schema |
|-------------|--------------------|----------------------------|
| A | A | FIRM, FRD, Discovery |
| A99 | A99 | FIRM, FRD, Discovery |
| AE | AE | FIRM, FRD, Discovery |
| AH | AH | FIRM, FRD, Discovery |

Domain Tables Technical Reference

| Coded Value | Type of Flood Zone | Applies to Database Schema |
|-------------|--------------------|----------------------------|
| AO | AO | FIRM, FRD, Discovery |
| AR | AR | FIRM, FRD, Discovery |
| ANI | AREA NOT INCLUDED | FIRM, FRD, Discovery |
| D | D | FIRM, FRD, Discovery |
| NP | NP – NOT POPULATED | FRD |
| OW | OPEN WATER | FIRM, FRD, Discovery |
| V | V | FIRM, FRD, Discovery |
| VE | VE | FIRM, FRD, Discovery |
| X | X | FIRM, FRD, Discovery |

2.82 D_Zone_Subtype

This domain table is referenced in the FIRM and FRD database schemas.

| Coded Value | Sub-Types of Flood Zones | Applies to Database Schema | Footnote |
|-------------|---|----------------------------|----------|
| 0500 | 0.2 PCT ANNUAL CHANCE FLOOD HAZARD | FIRM, FRD | 6 |
| 0520 | 0.2 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN CHANNEL | FIRM, FRD | 1, 6 |
| 0510 | 0.2 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN STRUCTURE | FIRM, FRD | 1, 6 |
| 0210 | 1 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN CHANNEL | FIRM, FRD | 1 |
| 0200 | 1 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN STRUCTURE | FIRM, FRD | 1 |
| 0400 | 1 PCT DEPTH LESS THAN 1 FOOT | FIRM, FRD | 6 |
| 0410 | 1 PCT DRAINAGE AREA LESS THAN 1 SQUARE MILE | FIRM, FRD | 6 |
| 0300 | 1 PCT FUTURE CONDITIONS | FIRM, FRD | 6 |
| 0310 | 1 PCT FUTURE CONDITIONS CONTAINED IN STRUCTURE | FIRM, FRD | 1, 6 |
| 1010 | ADMINISTRATIVE FLOODWAY | FIRM, FRD | 4 |
| 1020 | AREA OF SPECIAL CONSIDERATION | FIRM, FRD | 4 |
| 1000 | AREA WITH REDUCED FLOOD RISK DUE TO LEVEE | FIRM, FRD | 2 |
| 2000 | AREA OF MINIMAL FLOOD HAZARD | FIRM, FRD | 3 |

| Coded Value | Sub-Types of Flood Zones | Applies to Database Schema | Footnote |
|-------------|--|----------------------------|----------|
| 1040 | COLORADO RIVER FLOODWAY | FIRM, FRD | 4 |
| 1030 | COMMUNITY ENCROACHMENT AREA | FIRM, FRD | 4 |
| 1050 | DENSITY FRINGE AREA | FIRM, FRD | 4,5 |
| 1100 | FLOODWAY | FIRM, FRD | 4 |
| 1110 | FLOODWAY CONTAINED IN STRUCTURE | FIRM, FRD | 1 |
| 1120 | FLOODWAY CONTAINED IN CHANNEL | FIRM, FRD | 1 |
| 1200 | FLOWAGE EASEMENT AREA | FIRM, FRD | 4 |
| 1230 | NARROW FLOODWAY | FIRM, FRD | 4 |
| 1220 | RIVERINE FLOODWAY SHOWN IN COASTAL ZONE | FIRM, FRD | 4, 7 |
| 1210 | STATE ENCROACHMENT AREA | FIRM, FRD | 4 |
| 0100 | COASTAL FLOODPLAIN | FIRM, FRD | 7 |
| 0120 | COMBINED RIVERINE AND COASTAL FLOODPLAIN | FIRM, FRD | 7 |
| 0110 | RIVERINE FLOODPLAIN IN COASTAL AREA | FIRM, FRD | 7 |
| 1240 | RIVERINE FLOODWAY IN COMBINED RIVERINE AND COASTAL ZONE | FIRM, FRD | 7 |
| 0530 | 0.2 PCT ANNUAL CHANCE FLOOD HAZARD IN COASTAL ZONE | FIRM, FRD | 7 |
| 0540 | 0.2 PCT ANNUAL CHANCE FLOOD HAZARD IN COMBINED RIVERINE AND COASTAL ZONE | FIRM, FRD | 7 |
| 3000 | AREA WITH FLOOD RISK DUE TO LEVEE | FIRM, FRD | |
| 9000 | Other | FRD | |
| NP | NP | FRD | |

1. The CONTAINED IN CHANNEL or CONTAINED IN STRUCTURE zone subtypes should only be used if the flooding associated with these channelized structures or other structures is large enough to show as an area. These features should also be drawn as structures in S_GEN_STRUCT and coded appropriately there.
2. Formerly "PROTECTED BY LEVEE".
3. "AREA OF MINIMAL FLOOD HAZARD" terminology is used by the Code of Federal Regulations CFR 64.3 to define an unshaded Zone X.
4. Types of FLOODWAY. Other than the generic "FLOODWAY" subtype, these are areas in which a community enforces more restrictive criteria for floodplain management than the minimum requirements of the NFIP.
5. "DENSITY FRINGE AREAS" are a floodway type specific to the State of Washington used in communities where encroachment and storage-volume reduction are specified in locations of zoned development, as opposed to the traditional equal conveyance reduction floodway.

6. These subtypes are typically symbolized as shaded Zone X. “1 PCT FUTURE CONDITIONS” is a subtype of Zone X and are labeled ZONE X FUTURE on the FIRM panel.
7. These subtypes are only used in coastal areas to specify riverine or coastal flooding. More information on these zones can be found in the [FIRM Database Guidance](#) document.