



# Hazus Inventory National Database

Data Dictionary

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FEMA

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# Purpose

The purpose of this document is to provide background reference data to support the national databases released from FEMA's Hazus Program. The Hazus Program has been providing national baseline datasets consisting of aggregated building stock, demographics, and infrastructure data since 1997.

The data are developed from publicly available sources; however, significant work is done by the Hazus Team to develop and improve the attribution required for risk assessment, including adding valuation data and vulnerability attributes supporting earthquake, flood, hurricane, and tsunami loss estimation.

This document outlines the deliverables of these data that consist of Esri formatted File Geodatabases. These can also be opened and used in QGIS. Within the Hazus GUI, these data are presented in views that help label and define the attributes that include data dictionary tables and FGDC compliant metadata for each file. Since this separate release of nationwide data does not include those features, this document provides supporting documentation that will be required by users of the data.

## 1.1. Introduction

Each layer in the Hazus Inventory National Database is listed and described below in a table. The tables use the following fields to describe the data:

- **Field Name** – the name of each field in the layer
- **Field Description** – a description of the data for that field
- **Required** – explains if this is a required field when uploading data in CDMS
- **Units** – the units associated with each filed
- **Default** – the default value for this field in Hazus
- **Hazard** – explains which hazard models in Hazus use this information

# Boundaries

## 2.1. CensusBlock

These Census blocks contain the Hazus dasymetric geometries. Please refer to the [Hazus Inventory Technical Manual](#) for more details. The original TIGER Census Block data can be accessed from the following links:

| Field Name  | Field Description  | Required | Units | Default | Hazard |
|-------------|--------------------|----------|-------|---------|--------|
| StateAbbr   | State Abbreviation | TRUE     |       |         |        |
| Tract       | Census Tract ID    | TRUE     |       |         |        |
| CensusBlock | Census Block ID    | TRUE     |       |         |        |

- Overall 2020 data: <https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.2020.html#list-tab-FMM7UH7FII6HLZVA8F>
- 2020 Census Block Geometries by State:  
<https://www2.census.gov/geo/tiger/TIGER2020/TABBLOCK20/>

## 2.2. CensusTract

| Field Name | Field Description  | Required | Units | Default | Hazard |
|------------|--------------------|----------|-------|---------|--------|
| StateAbbr  | State Abbreviation | TRUE     |       |         |        |
| Tract      | Census Tract ID    | TRUE     |       |         |        |

## 2.3. Communities

The Community layer is a composite of three FEMA datasets:

- 1) Community layer of participating National Flood Insurance Program (NFIP) jurisdictions,
- 2) Community layer of participating NFIP Tribal Governments,
- 3) Community layer of participating NFIP Special Land Use Areas (SLUAs).

It was determined that all communities were to be represented, whether they had a Community Identification Number (CID) or not. CID was used where available and a customized Area\_ID was developed for others. The three layers were merged with the appropriate attributes for each column.

Since each community needs a unique Area\_ID, polygons with the same Area\_ID values were merged. The community names for these areas sometimes contained slightly different community names. Therefore, during the dissolve, the first name was selected. See the [Hazus Inventory Technical Manual](#) for more information on this layer.

| Field Name    | Field Description        | Required | Units  | Default | Hazard |
|---------------|--------------------------|----------|--|---------|--------|
| Area_ID       | NFIP Community ID Number | TRUE     |  |         |        |
| CommunityName | NFIP Community Name      | FALSE    |  |         |        |
| CommunityType | NFIP Community Type      | FALSE    | 0 = NFIP MPP Jurisdictions<br>1 = Tribal<br>2 = SLUA |         |        |

## 2.4. Counties

| Field Name  | Field Description         | Required | Units | Default | Hazard |
|-------------|---------------------------|----------|-------|---------|--------|
| CountyFips  | County FIPS Value         | TRUE     |       |         |        |
| CountyFips3 | County FIPS 3 Digit Value | FALSE    |       |         |        |
| CountyName  | County Name               | FALSE    |       |         |        |
| State       | State Abbreviation        | FALSE    |       |         |        |
| StateFips   | State FIPS Value          | FALSE    |       |         |        |
| NumTracts   | Number of Tracts          | FALSE    |       |         |        |
| TSCounty    | Tsunami County Flag       | FALSE    |       |         |        |

## 2.5. States

| Field Name | Field Description  | Required | Units | Default | Hazard |
|------------|--------------------|----------|-------|---------|--------|
| StateFips  | State FIPS Value   | TRUE     |       |         |        |
| StateID    | State Abbreviation | FALSE    |       |         |        |

| Field Name  | Field Description                    | Required | Units | Default | Hazard |
|-------------|--------------------------------------|----------|-------|---------|--------|
| StateName   | State Name                           | TRUE     |       |         |        |
| EorW        | East or West EQ Attenuation Function | TRUE     |       |         |        |
| Region      | Western Region Flag                  | FALSE    |       |         |        |
| NumCounties | Number of Counties                   | FALSE    |       |         |        |
| HUState     | Hurricane State Flag                 | FALSE    |       |         |        |
| TSSState    | Tsunami State Flag                   | FALSE    |       |         |        |

## 2.6. Watersheds

The [USGS National Watershed Boundary Dataset \(WBD\)](#) is a comprehensive aggregated collection of hydrologic unit data consistent with the national criteria for delineation and resolution. It defines the areal extent of surface water drainage to a point. The WBD covers the entire U.S. The Watershed layer was created using the latest eight-digit hydrologic unit code (HUC-8) watersheds from the USGS National Watershed Boundary Dataset.

| Field Name | Field Description     | Required | Units | Default | Hazard |
|------------|-----------------------|----------|-------|---------|--------|
| HUC        | Watershed HUC-8 value | TRUE     |       |         |        |
| Name       | Watershed name value  | FALSE    |       |         |        |

# Essential Facilities

## 3.1. Care Facilities

| Field Name       | Field Description                    | Required | Units        | Default | Hazard |
|------------------|--------------------------------------|----------|--------------|---------|--------|
| State            | State Abbreviation                   | FALSE    |              |         |        |
| Address          | Address                              | FALSE    |              |         | All    |
| BldgDamageFnId   | Structure Damage Function Id         | TRUE     |              | 474     | FL     |
| BldgType         | Flood Building Type                  | TRUE     |              | WOOD    | FL     |
| CareFltyId       | Hazus Internal ID                    | TRUE     |              | Auto    | All    |
| City             | City                                 | FALSE    |              |         | All    |
| Comment          | Misc. Comments                       | FALSE    |              |         | All    |
| ContDamageFnId   | Contents Damage Function             | TRUE     |              | 309     | FL     |
| Cost             | Replacement Cost (thous. \$)         | FALSE    | Thous.<br>\$ |         | All    |
| eqDesignLevel    | EQ Design Level                      | TRUE     |              | LC      | EQ     |
| EfClass          | Facility Class                       | TRUE     |              | MDFLT   | All    |
| eqBldgType       | EQ Building Type                     | TRUE     |              | DFLT    | EQ     |
| FirstFloorHt     | Height of the First Occupied Floor   | TRUE     | Feet         | 3       | FL     |
| FloodProtection  | Protection In terms of return period | TRUE     |              | 0       | FL     |
| f1FoundationType | Flood Structure Foundation Type      | TRUE     |              | 4       | FL     |
| Latitude         | Latitude                             | FALSE    |              |         | All    |
| Longitude        | Longitude                            | FALSE    |              |         | All    |
| Name             | Facility Name                        | FALSE    |              |         | All    |
| NumBeds          | Number of Beds                       | FALSE    |              |         | All    |
| PhoneNumber      | Telephone Number                     | FALSE    |              |         | All    |
| SoilType         | Soil Type                            | TRUE     |              | D       | EQ     |

| Field Name       | Field Description                      | Required | Units  | Default | Hazard |
|------------------|--|----------|--------|---------|--------|
| Tract            | Census Tract                           | FALSE    |        |         | All    |
| Use              | Primary Function                       | FALSE    |        |         | All    |
| WaterDepth       | Water Depth in Meters between 0 - 1000 | FALSE    | Meters | 5       | EQ     |
| MedianYearBuilt  | Median Year Built                      | FALSE    |        |         | All    |
| Zipcode          | ZIP Code                               | FALSE    |        |         | All    |
| BldgArea_sqft    | Building Area (sqft)                   | FALSE    | SqFt   |         | All    |
| UATYP            | Urbanized Area Type                    | FALSE    |        |         | All    |
| BldgSchemesId    | Structure Scheme Id                    | FALSE    |        |         | All    |
| hifld_ID         | HIFLD Hospitals ID                     | FALSE    |        |         | All    |
| hifld_COUNTY     | County Name                            | FALSE    |        |         | All    |
| hifld_NAICS_CODE | NAICS Code                             | FALSE    |        |         | All    |
| hifld_SOURCE     | Source                                 | FALSE    |        |         | All    |
| hifld_SOURCEDATE | Source Date                            | FALSE    |        |         | All    |
| hifld_VAL_METHOD | Validation Method                      | FALSE    |        |         | All    |
| hifld_VAL_DATE   | Validation Date                        | FALSE    |        |         | All    |
| hifld_WEBSITE    | Website Hyperlink                      | FALSE    |        |         | All    |
| hifld_OWNER      | Owner Type                             | FALSE    |        |         | All    |
| hifld_TRAUMA     | Trauma Levels                          | FALSE    |        |         | All    |
| hifld_HELIPAD    | Helipad                                | FALSE    |        |         | All    |

### 3.2. Emergency Center Facilities

| Field Name | Field Description  | Required | Units | Default | Hazard |
|------------|--------------------|----------|-------|---------|--------|
| State      | State Abbreviation | FALSE    |       |         | All    |
| Address    | Address            | FALSE    |       |         | All    |

| Field Name       | Field Description                      | Required | Units     | Default | Hazard |
|------------------|--|----------|-----------|---------|--------|
| Area             | Area                                   | FALSE    |           |         | All    |
| BackupPower      | Back-up Power Yes(1) or No(0)          | FALSE    |           |         | All    |
| BldgDamageFnId   | Structure Damage Function Id           | TRUE     |           | 640     | FL     |
| fIBldgType       | Flood Building Type                    | TRUE     |           | WOOD    | FL     |
| City             | City                                   | FALSE    |           |         | All    |
| Comment          | Misc. Comments                         | FALSE    |           |         | All    |
| ContDamageFnId   | Content Damage Function Id             | TRUE     |           | 477     | FL     |
| Cost             | Replacement Cost (thous. \$)           | FALSE    | Thous. \$ |         | All    |
| eqDesignLevel    | Design Level                           | TRUE     |           | LC      | EQ     |
| EfClass          | Facility Class                         | TRUE     |           | EDFLT   | All    |
| EoId             | Hazus Internal ID                      | TRUE     |           | Auto    | All    |
| eqBldgType       | Earthquake Building Type               | TRUE     |           | DFLT    | EQ     |
| FirstFloorHt     | First Occupied Floor Height            | TRUE     | Feet      | 0       | FL     |
| fIFoundationType | Flood Structure Foundation Type        | TRUE     |           | 4       | FL     |
| Latitude         | Latitude                               | FALSE    |           |         | All    |
| Longitude        | Longitude                              | FALSE    |           |         | All    |
| Name             | Facility Name                          | FALSE    |           |         | All    |
| NumStories       | Number of Stories                      | FALSE    |           |         | All    |
| PhoneNumber      | Telephone Number                       | FALSE    |           |         | All    |
| eqSoilType       | Soil Type                              | FALSE    |           | D       | EQ     |
| Tract            | Census Tract                           | FALSE    |           |         | All    |
| WaterDepth       | Water Depth in Meters between 0 - 1000 | FALSE    | Meters    | 5       | EQ     |
| MedianYearBuilt  | Median Year Built                      | FALSE    |           |         | All    |
| Zipcode          | ZIP Code                               | FALSE    |           |         | All    |
| hifld_NAICSCODE  | NAICS Code                             | FALSE    |           |         | All    |
| hifld_GENERATOR  | Generator                              | FALSE    |           |         | All    |

| Field Name       | Field Description           | Required | Units                           | Default | Hazard |
|------------------|-----------------------------|----------|---------------------------------|---------|--------|
| hifld_BASEMENT   | Basement                    | FALSE    |                                 |         | All    |
| hifld_LVLGOVOP   | Government Operations Level | FALSE    |                                 |         | All    |
| hifld_WEBSITE    | Website Hyperlink           | FALSE    |                                 |         | All    |
| hifld_DIRECTIONS | Directions                  | FALSE    |                                 |         | All    |
| BldgSchemesId    | Structure Scheme Id         | FALSE    |                                 |         | All    |
| UATYP            | Urban Rural Type            | FALSE    | U = Urbanized Area<br>R = Not U |         | All    |

### 3.3. Fire Station Facilities

| Field Name     | Field Description                | Required | Units     | Default  | Hazard |
|----------------|----------------------------------|----------|-----------|----------|--------|
| State          | State Abbreviation               | FALSE    |           |          | All    |
| Address        | Address                          | FALSE    |           |          | All    |
| Area           | Area                             | FALSE    |           |          | All    |
| BldgDamageFnId | Structure Damage Function        | TRUE     |           | 640      | FL     |
| BldgType       | Flood Building Type              | TRUE     |           | Concrete | FL     |
| City           | City                             | FALSE    |           |          | All    |
| ContDamageFnId | Contents Damage Function         | TRUE     |           | 477      | FL     |
| Cost           | Replacement cost (thous. \$)     | FALSE    | Thous. \$ |          | All    |
| f1DesignLevel  | Flood Pre/Post FIRM Design Level | TRUE     |           | 0        | FL     |
| eqDesignLevel  | Design Level                     | TRUE     |           | LC       | EQ     |
| FacilityClass  | Facility Class                   | TRUE     |           | FDFLT    | All    |
| eqBldgType     | Earthquake Building Type         | TRUE     |           | DFLT     | EQ     |
| FireStationId  | Hazus Internal ID                | TRUE     |           | Auto     | All    |

|                            |  |       |                                 |   |     |
|----------------------------|--|-------|---------------------------------|---|-----|
| FirstFloorHt               | First Occupied Floor Height            | TRUE  | Feet                            | 0 | FL  |
| FoundationType             | Flood Structure Foundation Type        | TRUE  |                                 | 7 | FL  |
| Latitude                   | Latitude                               | FALSE |                                 |   | All |
| Longitude                  | Longitude                              | FALSE |                                 |   | All |
| Name                       | Facility Name                          | FALSE |                                 |   | All |
| NumStories                 | Number of Stories                      | FALSE |                                 |   | All |
| SoilType                   | Soil Type                              | TRUE  |                                 | D | EQ  |
| Tract                      | Census Tract                           | FALSE |                                 |   | All |
| WaterDepth                 | Water Depth in Meters between 0 - 1000 | FALSE | Meters                          | 5 | EQ  |
| MedianYearBuilt            | Median Year Built                      | FALSE |                                 |   | All |
| Zipcode                    | ZIP Code                               | FALSE |                                 |   | All |
| hifld_PERMANENT_IDENTIFIER | Permanent Identifier                   | FALSE |                                 |   | All |
| hifld_SOURCE_FEATUREID     | Source Feature Id                      | FALSE |                                 |   | All |
| hifld_SOURCE_DATASETID     | Source Dataset Id                      | FALSE |                                 |   | All |
| hifld_SOURCE_DATADESC      | Source Data Description                | FALSE |                                 |   | All |
| hifld_SOURCE_ORIGINATOR    | Source Originator                      | FALSE |                                 |   | All |
| UATYP                      | Urban Rural Type                       | FALSE | U = Urbanized Area<br>R = Not U |   | All |
| Volunteer                  | Volunteer                              | FALSE |                                 |   | All |

### 3.4. Police Station Facilities

| Field Name | Field Description  | Required | Units | Default | Hazard |
|------------|--------------------|----------|-------|---------|--------|
| State      | State Abbreviation | FALSE    |       |         | All    |
| Address    | Address            | FALSE    |       |         | All    |
| Area       | Area               | FALSE    |       |         | All    |

| Field Name       | Field Description                      | Required | Units        | Default  | Hazard |
|------------------|--|----------|--------------|----------|--------|
| BldgDamageFnId   | Structure Damage Function Id           | TRUE     |              | 640      | FL     |
| BldgType         | Flood Building Type                    | TRUE     |              | Concrete | FL     |
| City             | City                                   | FALSE    |              |          | All    |
| ContDamageFnId   | Content Damage Function Id             | TRUE     |              | 477      | FL     |
| Cost             | Replacement Cost (thous. \$)           | FALSE    | Thous.<br>\$ |          | All    |
| f1DesignLevel    | Flood Pre/Post FIRM Design Level       | TRUE     |              | 0        | FL     |
| eqDesignLevel    | Design Level                           | TRUE     |              | LC       | EQ     |
| EfClass          | Facility Class                         | TRUE     |              | PDFLT    | All    |
| eqBldgType       | Earthquake Building Type               | TRUE     |              | DFLT     | EQ     |
| FirstFloorHt     | First Occupied Floor Height            | TRUE     | Feet         | 0        | FL     |
| f1FoundationType | Flood Structure Foundation Type        | TRUE     |              | 4        | FL     |
| eqFoundationType | Foundation Type                        | FALSE    |              | 0        | EQ     |
| Latitude         | Latitude                               | FALSE    |              |          | All    |
| Longitude        | Longitude                              | FALSE    |              |          | All    |
| Name             | Facility Name                          | FALSE    |              |          | All    |
| PhoneNumber      | Telephone Number                       | FALSE    |              |          | All    |
| PoliceStationId  | Hazus Internal ID                      | TRUE     |              | Auto     | All    |
| SoilType         | Soil Type                              | TRUE     |              | D        | EQ     |
| Tract            | Census Tract                           | FALSE    |              |          | All    |
| WaterDepth       | Water Depth in Meters between 0 - 1000 | FALSE    | Meters       | 5        | EQ     |
| MedianYearBuilt  | Median Year Built                      | FALSE    |              |          | All    |
| Zipcode          | ZIP Code                               | FALSE    |              |          | All    |
| hifld_TYPE       | Type                                   | FALSE    |              |          | All    |
| hifl_NAICS_CODE  | NAICS Code                             | FALSE    |              |          | All    |
| hifl_NAICS_DESC  | NAICS Description                      | FALSE    |              |          | All    |

| Field Name       | Field Description  | Required | Units | Default | Hazard |
|------------------|--------------------|----------|-------|---------|--------|
| hifld_TRIBAL     | Tribal             | FALSE    |       |         | All    |
| hifld_SOURCE     | Source             | FALSE    |       |         | All    |
| hifld_SOURCEDATE | Source Date        | FALSE    |       |         | All    |
| hifld_VAL_METHOD | Validation Method  | FALSE    |       |         | All    |
| hifld_VAL_DATE   | Validation Date    | FALSE    |       |         | All    |
| hifld_FTSWORN    | Full Time Sworn    | FALSE    |       |         | All    |
| hifld_FTCIV      | Full Time Civilian | FALSE    |       |         | All    |
| hifld_PTSWORN    | Part Time Sworn    | FALSE    |       |         | All    |
| hifld_PTCIV      | Part Time Civilian | FALSE    |       |         | All    |
| hifld_CSLLA08ID  | Census Agency ID   | FALSE    |       |         | All    |

### 3.5. School Facilities

| Field Name     | Field Description                | Required | Units     | Default | Hazard |
|----------------|----------------------------------|----------|-----------|---------|--------|
| State          | State Abbreviation               | FALSE    |           |         | All    |
| Address        | Address                          | FALSE    |           |         | All    |
| Area           | Area                             | FALSE    |           |         | All    |
| BldgDamageFnld | Structure Damage Function Id     | TRUE     |           | 643     | FL     |
| BldgType       | Flood Building Type              | TRUE     |           | Masonry | FL     |
| City           | City                             | FALSE    |           |         | All    |
| Comment        | Misc. Comments                   | FALSE    |           |         | All    |
| ContDamageFnld | Contents Damage Function         | TRUE     |           | 480     | FL     |
| Cost           | Replacement Cost (thous. \$)     | FALSE    | Thous. \$ |         | All    |
| f1DesignLevel  | Flood Pre/Post FIRM Design Level | TRUE     |           | 0       | FL     |
| eqDesignLevel  | Design Level                     | TRUE     |           | LC      | EQ     |
| EfClass        | Facility Class                   | TRUE     |           | SDFLT   | All    |

| Field Name       | Field Description                       | Required | Units  | Default | Hazard |
|------------------|---|----------|--------|---------|--------|
| eqBldgType       | Earthquake Building Type                | TRUE     |        | DFLT    | EQ     |
| FirstFloorHt     | Height of the First Occupied Floor      | TRUE     | Feet   | 0       | FL     |
| flFoundationType | Flood Structure Foundation Type         | TRUE     |        | 7       | FL     |
| eqFoundationType | Foundation Type                         | FALSE    |        |         | EQ     |
| Latitude         | Latitude                                | FALSE    |        |         | All    |
| Longitude        | Longitude                               | FALSE    |        |         | All    |
| Name             | Facility Name                           | FALSE    |        |         | All    |
| NumStories       | Number of Stories                       | FALSE    |        |         | All    |
| NumStudents      | Number of Students                      | FALSE    |        |         | All    |
| PhoneNumber      | Phone Number                            | FALSE    |        |         | All    |
| SchooldId        | Hazus Internal ID                       | TRUE     |        | Auto    | All    |
| SoilType         | Soil Type                               | TRUE     |        | D       | EQ     |
| Tract            | Census Tract                            | FALSE    |        |         | All    |
| WaterDepth       | Water Depth in Meters between 0 - 1000  | FALSE    | Meters | 5       | EQ     |
| MedianYearBuilt  | Median Year Built                       | FALSE    |        |         | All    |
| Zipcode          | ZIP Code                                | FALSE    |        |         | All    |
| hifld_POPULATION | Population                              | FALSE    |        |         | All    |
| hifld_TOT_ENROLL | College and University Total Enrollment | FALSE    |        |         | All    |
| hifld_ENROLLMENT | K-12 Enrollment                         | FALSE    |        |         | All    |
| hifld_FT_TEACHER | K-12 Full Time Equivalent Teachers      | FALSE    |        |         | All    |
| hifld_TOT_EMP    | College and University Total Employees  | FALSE    |        |         | All    |
| hifld_STATUS     | Status                                  | FALSE    |        |         | All    |
| hifld_SOURCE     | NCES Hyperlink                          | FALSE    |        |         | All    |

| Field Name              | Field Description                                      | Required | Units     | Default | Hazard |
|-------------------------|--|----------|-----------|---------|--------|
| hifld_SOURCEDATE        | Source Date  | FALSE    |           |         | All    |
| hifld_SourceFile        | HIFLD Data Name  | FALSE    |           |         | All    |
| hifld_VAL_METHOD        | Validation Method                                      | FALSE    |           |         | All    |
| hifld_VAL_DATE          | Validation Date  | FALSE    |           |         | All    |
| hifld_WEBSITE           | Website Hyperlink                                      | FALSE    |           |         | All    |
| hifld_NAICS_CODE        | NAICS Code   | FALSE    |           |         | All    |
| BldgSchemesId           | Tract Building Schemes Id                              | FALSE    |           |         | All    |
| SqftperStudent          | Square Feet per Student                                | FALSE    |           |         | All    |
| ContentCost_1kDollars   | Contents Replacement Cost (1,000 US Dollars)           | FALSE    | Thous. \$ |         | All    |
| Combined_Cost_1kDollars | Combined Building and Contents Cost (1,000 US Dollars) | FALSE    | Thous. \$ |         | All    |

# Transportation Systems

## 4.1. Airport Facilities

| Field Name      | Field Description                      | Required | Units          | Default | Hazard |
|-----------------|--|----------|----------------|---------|--------|
| State           | State Abbreviation                     | FALSE    |                |         | All    |
| Address         | Address                                | FALSE    |                |         | All    |
| AirportFltyId   | Hazus Internal ID                      | TRUE     |                | Auto    | All    |
| Cargo           | Capacity (tons/day)                    | FALSE    | Tons/day       |         | All    |
| City            | City                                   | FALSE    |                |         | All    |
| Comment         | Misc. Comments                         | FALSE    |                |         | All    |
| Contact         | Contact Person                         | FALSE    |                |         | All    |
| Cost            | Replacement Cost (thous. \$)           | FALSE    | Thous. \$      |         | All    |
| DesignLevel     | Design Level                           | TRUE     |                | LC      | EQ     |
| eqBldgType      | Earthquake Building Type               | TRUE     |                | DFLT    | EQ     |
| Latitude        | Latitude                               | FALSE    |                |         | All    |
| Longitude       | Longitude                              | FALSE    |                |         | All    |
| Name            | Facility Name                          | FALSE    |                |         | All    |
| NumFlights      | Capacity (flights/day)                 | FALSE    | Flights/day    |         | All    |
| NumPassengers   | Capacity (passengers/day)              | FALSE    | Passangers/day |         | All    |
| Owner           | Facility Owner                         | FALSE    |                |         | All    |
| PhoneNumber     | Telephone Number                       | FALSE    |                |         | All    |
| SoilType        | Soil Type                              | FALSE    |                | D       | EQ     |
| Tract           | Census Tract                           | FALSE    |                |         | All    |
| TranspFclyClass | Analysis Class                         | TRUE     |                | ADFLT   | All    |
| Use             | Primary Function                       | FALSE    |                |         | All    |
| WaterDepth      | Water Depth in Meters between 0 - 1000 | FALSE    | Meters         | 5       | EQ     |
| Zipcode         | ZIP Code                               | FALSE    |                |         | All    |

| Field Name | Field Description           | Required | Units  | Default | Hazard |
|------------|-----------------------------|----------|--|---------|--------|
| OwnerType  | Owner Type                  | FALSE    |  |         | All    |
| UATYP      | Urbanized Area Type         | FALSE    | U = Urbanized Area<br>C = Urban Clusters<br>R = Not U or C |         | All    |
| Arrivals   | Number of Flight Arrivals   | FALSE    |  |         | All    |
| Departures | Number of Flight Departures | FALSE    |  |         | All    |

## 4.2. Airport Runways

| Field Name        | Field Description                      | Required | Units       | Default | Hazard |
|-------------------|--|----------|-------------|---------|--------|
| State             | State Abbreviation                     | FALSE    |             |         | All    |
| AirportId         | Airport Identifier                     | FALSE    |             |         | All    |
| Cost              | Replacement Cost (thous. \$)           | FALSE    | Thous. \$   |         | All    |
| Latitude          | Latitude                               | FALSE    |             |         | All    |
| Longitude         | Longitude                              | FALSE    |             |         | All    |
| Name              | Runway Name                            | FALSE    |             |         | All    |
| RunwayId          | Hazus Internal ID                      | TRUE     |             | Auto    | All    |
| RunwayLength      | Runway Length (ft)                     | FALSE    | Ft          |         | All    |
| SoilType          | Soil Type                              | FALSE    |             | D       | EQ     |
| Tract             | Census Tract                           | FALSE    |             |         | All    |
| TranspFcCityClass | Analysis Class                         | TRUE     |             |         | All    |
| WaterDepth        | Water Depth in Meters between 0 - 1000 | FALSE    | Meters      | 5       | EQ     |
| Area              | Runway Area (sq yd)                    | FALSE    | SqYd        |         | All    |
| CostPerSqYd       | Cost Per Square Yard (\$)              | FALSE    | \$ per SqYd |         | All    |
| FullName          | Full Runway Name                       | FALSE    |             |         | All    |
| Width             | Runway Width                           | FALSE    |             |         | All    |
| SrfcType          | Runway Surface Type                    | FALSE    |             |         | All    |

| Field Name | Field Description        | Required | Units | Default | Hazard |
|------------|--------------------------|----------|-------|---------|--------|
| SrfcTrtmnt | Runway Surface Treatment | FALSE    |       |         | All    |
| RwyLights  | Runway Lights            | FALSE    |       |         | All    |

### 4.3. Bus Facilities

| Field Name       | Field Description                      | Required | Units     | Default | Hazard |
|------------------|--|----------|-----------|---------|--------|
| State            | State Abbreviation                     | FALSE    |           |         | All    |
| Address          | Address                                | FALSE    |           |         | All    |
| BusFltyId        | Hazus Internal ID                      | TRUE     |           | Auto    | All    |
| City             | City                                   | FALSE    |           |         | All    |
| Comment          | Misc. Comments                         | FALSE    |           |         | All    |
| Cost             | Replacement Cost (thous. \$)           | FALSE    | Thous. \$ |         | All    |
| DesignLevel      | Design Level                           | TRUE     |           | LC      | EQ     |
| eqBldgType       | Earthquake Building Type               | TRUE     |           | DFLT    | EQ     |
| Latitude         | Latitude                               | FALSE    |           |         | All    |
| Longitude        | Longitude                              | FALSE    |           |         | All    |
| Name             | Facility Name                          | FALSE    |           |         | All    |
| Owner            | Facility Owner                         | FALSE    |           |         | All    |
| PhoneNumber      | Telephone Number                       | FALSE    |           |         | All    |
| SoilType         | Soil Type                              | FALSE    |           | D       | EQ     |
| Tract            | Census Tract                           | FALSE    |           |         | All    |
| Traffic          | Daily Traffic (bus/day)                | FALSE    |           |         | All    |
| TranspFcntyClass | Analysis Class                         | TRUE     |           | BDFLT   | All    |
| WaterDepth       | Water Depth in Meters between 0 - 1000 | FALSE    | Meters    | 5       | EQ     |
| Zipcode          | ZIP Code                               | FALSE    |           |         | All    |
| Source           | Source                                 | FALSE    |           |         | All    |
| CbsaCode         | Core Based Statistical Areas Code      | FALSE    |           |         | All    |

## 4.4. Ferry Facilities

| Field Name      | Field Description                      | Required | Units        | Default | Hazard |
|-----------------|--|----------|--------------|---------|--------|
| State           | State                                  | FALSE    |              |         | All    |
| Address         | Address                                | FALSE    |              |         | All    |
| City            | City                                   | FALSE    |              |         | All    |
| Comment         | Misc. Comments                         | FALSE    |              |         | All    |
| Contact         | Contact Person                         | FALSE    |              |         | All    |
| Cost            | Replacement Cost (thous. \$)           | FALSE    | Thous. \$    |         | All    |
| DesignLevel     | Design Level                           | TRUE     |              | LC      | EQ     |
| eqBldgType      | Earthquake Building Type               | TRUE     |              | DFLT    | EQ     |
| FerryFltyId     | Hazus Internal ID                      | TRUE     |              | Auto    | All    |
| FoundationType  | Foundation Type                        | FALSE    |              | 0       | EQ     |
| Latitude        | Latitude                               | FALSE    |              |         | All    |
| Longitude       | Longitude                              | FALSE    |              |         | All    |
| Name            | Facility Name                          | FALSE    |              |         | All    |
| NumStories      | Number of Stories                      | FALSE    |              |         | All    |
| Owner           | Facility Owner                         | FALSE    |              |         | All    |
| PhoneNumber     | Telephone Number                       | FALSE    |              |         | All    |
| SoilType        | Soil Type                              | FALSE    |              | D       | EQ     |
| Tract           | Census Tract                           | FALSE    |              |         | All    |
| TranspFclyClass | Analysis Class                         | TRUE     |              | DFLT    | All    |
| WaterDepth      | Water Depth in Meters between 0 - 1000 | FALSE    | Meters       | 5       | EQ     |
| YearBuilt       | Year Built (Between 1500 and 2100)     | FALSE    | 1500 to 2100 |         | All    |
| Zipcode         | ZIP Code                               | FALSE    |              |         | All    |

## 4.5. Highway Bridges

| Field Name      | Field Description                      | Required | Units     | Default | Hazard |
|-----------------|--|----------|-----------|---------|--------|
| State           | State Abbreviation                     | FALSE    |           |         | All    |
| BridgeClass     | Analysis Class                         | TRUE     |           | HDFLT   | All    |
| BridgeType      | Structure Type                         | FALSE    |           |         | All    |
| Comment         | Misc. Comments                         | FALSE    |           |         | All    |
| Condition       | General Condition Rating               | FALSE    |           |         | All    |
| Cost            | Replacement Cost (thous. \$)           | FALSE    | Thous. \$ |         | All    |
| FoundationType  | Flood Structure Foundation Type        | FALSE    |           | 4       | All    |
| HighwayBridgeld | Hazus Internal ID                      | TRUE     |           | Auto    | All    |
| Latitude        | Latitude                               | FALSE    |           |         | All    |
| Length          | Bridge Length (m)                      | FALSE    | Meters    |         | All    |
| Longitude       | Longitude                              | FALSE    |           |         | All    |
| MaxSpanLength   | Maximum Span Length (m)                | FALSE    | Meters    |         | All    |
| Name            | Bridge Name                            | FALSE    |           |         | All    |
| NumSpans        | Number of Spans                        | FALSE    |           |         | All    |
| Owner           | Bridge Owner                           | FALSE    |           |         | All    |
| ScourIndex      | Scour Index                            | FALSE    |           |         | All    |
| SkewAngle       | Skew Angle (degrees)                   | FALSE    | Degrees   |         | All    |
| SoilType        | Soil Type                              | FALSE    |           | D       | EQ     |
| Tract           | Census Tract                           | FALSE    |           |         | All    |
| Traffic         | Daily Traffic (cars/day)               | FALSE    | Cars/day  |         | All    |
| WaterDepth      | Water Depth in Meters between 0 - 1000 | FALSE    | Meters    | 5       | EQ     |

| Field Name                    | Field Description                 | Required | Units        | Default | Hazard |
|-------------------------------|-----------------------------------|----------|--------------|---------|--------|
| Width                         | Bridge Width (m)                  | FALSE    | Meters       |         | All    |
| YearBuilt                     | Year Built                        | FALSE    |              |         | All    |
| YearRemodeled                 | Year Bridge Was Remodeled         | FALSE    | 1500 to 2100 |         | All    |
| FunctionallyObsolete          | Functionally Obsolete             | FALSE    |              |         | All    |
| hifld_APPR_ROAD_EVAL_072      | Approach Roadway Alignment        | FALSE    |              |         | All    |
| hifld_APPR_SPANS_046          | Number of Approach Spans          | FALSE    |              |         | All    |
| hifld_CULVERT_COND_062        | Culvert Condition                 | FALSE    |              |         | All    |
| hifld_DECK_COND_058           | Deck Condition                    | FALSE    |              |         | All    |
| hifld_DECK_GEOMETRY_EVAL_068  | Deck Geometry Evaluation          | FALSE    |              |         | All    |
| hifld_DECK_WIDTH_MT_052       | Deck Width (meters)               | FALSE    |              |         | All    |
| hifld_MAIN_UNIT_SPANS_045     | Number of Spans in Main Unit      | FALSE    |              |         | All    |
| hifld_SERVICE_ON_042A         | Type of Service on Bridge         | FALSE    |              |         | All    |
| hifld_STRUCTURAL_EVAL_067     | Structural Evaluation             | FALSE    |              |         | All    |
| hifld_STRUCTURE_KIND_043A     | Kind of Material/Design           | FALSE    |              |         | All    |
| hifld_STRUCTURE_TYPE_043B     | Type of Design/Construction       | FALSE    |              |         | All    |
| hifld_SUBSTRUCTURE_COND_060   | Substructure Condition            | FALSE    |              |         | All    |
| hifld_SUPERSTRUCTURE_COND_059 | Superstructure Condition          | FALSE    |              |         | All    |
| hifld_UNDCLRENCE_EVAL_069     | Underclear, Vertical & Horizontal | FALSE    |              |         | All    |

| Field Name                   | Field Description      | Required | Units | Default | Hazard |
|------------------------------|------------------------|----------|-------|---------|--------|
| hifld_WATERWAY_EVAL_071      | Waterway Adequacy      | FALSE    |       |         | All    |
| hifld_YEAR_RECONSTRUCTED_106 | Year Reconstructed     | FALSE    |       |         | All    |
| StructurallyDeficient        | Structurally Deficient | FALSE    |       |         | All    |

## 4.6. Highway Segments

| Field Name   | Field Description            | Required | Units | Default | Hazard |
|--------------|------------------------------|----------|-------|---------|--------|
| State        | State Abbreviation           | FALSE    |       |         | All    |
| HighwaySegId | Hazus Internal ID            | TRUE     |       |         | All    |
| SegmentClass | Analysis Class               | TRUE     |       |         | All    |
| CountyFips   | County FIPS                  | TRUE     |       |         | All    |
| Name         | Highway Segment Name         | FALSE    |       |         | All    |
| Owner        | Owner of Highway Segment     | FALSE    |       |         | All    |
| Length       | Section Length (km)          | FALSE    |       |         | All    |
| Cost         | Replacement Cost (thous. \$) | FALSE    |       |         | All    |
| NumLanes     | Number of Lanes              | FALSE    |       |         | All    |
| Comment      | Misc. Comments               | FALSE    |       |         | All    |

## 4.7. Highway Tunnels

| Field Name      | Field Description            | Required | Units     | Default | Hazard |
|-----------------|------------------------------|----------|-----------|---------|--------|
| State           | State Abbreviation           | FALSE    |           |         | All    |
| Cost            | Replacement Cost (thous. \$) | FALSE    | Thous. \$ |         | All    |
| HighwayTunnelId | Hazus Internal ID            | TRUE     |           | Auto    | All    |
| Latitude        | Latitude                     | FALSE    |           |         | All    |
| Length          | Tunnel Length (m)            | FALSE    | Meters    |         | All    |

| Field Name           | Field Description                      | Required | Units        | Default | Hazard |
|----------------------|--|----------|--------------|---------|--------|
| Longitude            | Longitude                              | FALSE    |              |         | All    |
| Name                 | Tunnel Name                            | FALSE    |              |         | All    |
| SoilType             | Soil Type                              | FALSE    |              | D       | EQ     |
| Tract                | Census Tract                           | FALSE    |              |         | All    |
| TunnelClass          | Analysis Class                         | TRUE     |              | HDFLT   | All    |
| WaterDepth           | Water Depth in Meters between 0 - 1000 | FALSE    | Meters       | 5       | EQ     |
| YearBuilt            | Year Built (Between 1500 and 2100)     | FALSE    | 1500 to 2100 |         | All    |
| TunnelDiameterMeters | Tunnel Diameter                        | FALSE    | Meters       |         | All    |
| IRTEHORZCL           | Tunnel Diameter                        | FALSE    | Meters       |         | All    |
| NGAID                | NGA ID                                 | FALSE    |              |         | All    |

## 4.8. Light Rail Bridges

| Field Name        | Field Description                  | Required | Units        | Default | Hazard |
|-------------------|------------------------------------|----------|--------------|---------|--------|
| State             | State Abbreviation                 | FALSE    |              |         | All    |
| LightRailBridgeld | Hazus Internal ID                  | TRUE     |              | Auto    | All    |
| BridgeClass       | Analysis Class                     | TRUE     |              | LDFLT   | All    |
| Tract             | Census Tract                       | FALSE    |              |         | All    |
| Name              | Bridge Name                        | FALSE    |              |         | All    |
| BridgeType        | Structure Type                     | FALSE    |              |         | All    |
| Width             | Bridge Width (m)                   | FALSE    | Meters       |         | All    |
| NumSpans          | Number of Spans                    | FALSE    |              |         | All    |
| Length            | Total Bridge Length (m)            | FALSE    | Meters       |         | All    |
| MaxSpanLength     | Maximum Span Length (m)            | FALSE    | Meters       |         | All    |
| SkewAngle         | Skew Angle (degrees)               | FALSE    | Degrees      |         | All    |
| YearBuilt         | Year Built (Between 1500 and 2100) | FALSE    | 1500 to 2100 |         | All    |

| Field Name | Field Description                      | Required | Units     | Default | Hazard |
|------------|--|----------|-----------|---------|--------|
| PierType   | Pier Type                              | FALSE    |           |         | All    |
| ScourIndex | Scour Index                            | FALSE    |           |         | All    |
| Traffic    | Daily Traffic (cars/day)               | FALSE    | Cars/day  |         | All    |
| Condition  | General Condition Rating               | FALSE    |           |         | All    |
| Cost       | Replacement Cost (thous. \$)           | FALSE    | Thous. \$ |         | All    |
| Latitude   | Latitude                               | FALSE    |           |         | All    |
| Longitude  | Longitude                              | FALSE    |           |         | All    |
| SoilType   | Soil Type                              | FALSE    |           | D       | EQ     |
| WaterDepth | Water Depth in Meters between 0 - 1000 | FALSE    | Meters    | 5       | EQ     |

## 4.9. Light Rail Facilities

| Field Name       | Field Description            | Required | Units        | Default | Hazard |
|------------------|------------------------------|----------|--------------|---------|--------|
| State            | State Abbreviation           | FALSE    |              |         | All    |
| Address          | Address                      | FALSE    |              |         | All    |
| City             | City                         | FALSE    |              |         | All    |
| Cost             | Replacement Cost (thous. \$) | FALSE    | Thous.<br>\$ |         | All    |
| DesignLevel      | Design Level                 | TRUE     |              | LC      | EQ     |
| eqBldgType       | Earthquake Building Type     | TRUE     |              | DFLT    | EQ     |
| Latitude         | Latitude                     | FALSE    |              |         | All    |
| LightRailFityId  | Hazus Internal ID            | TRUE     |              | Auto    | All    |
| Longitude        | Longitude                    | FALSE    |              |         | All    |
| Name             | Name                         | FALSE    |              |         | All    |
| SoilType         | Soil Type                    | TRUE     |              | D       | EQ     |
| Tract            | Census Tract                 | FALSE    |              |         | All    |
| TranspFcltyClass | Analysis Class               | TRUE     |              | LDFLT   | All    |

| Field Name       | Field Description                      | Required | Units  | Default | Hazard |
|------------------|--|----------|--------|---------|--------|
| WaterDepth       | Water Depth in Meters between 0 - 1000 | FALSE    | Meters | 5       | EQ     |
| Zipcode          | ZIP Code                               | FALSE    |        |         | All    |
| hifld_STATIONURL | Station URL                            | FALSE    |        |         | All    |
| System           | System                                 | FALSE    |        |         | All    |
| hifld_SYS_AGENCY | System Agency                          | FALSE    |        |         | All    |
| hifld_SOURCE     | Source URL                             | FALSE    |        |         | All    |
| hifld_SOURCEDATE | Source Date                            | FALSE    |        |         | All    |
| hifld_STATIONSYS | Stations System                        | FALSE    |        |         | All    |

## 4.10. Light Rail Segments

| Field Name     | Field Description            | Required | Units     | Default | Hazard |
|----------------|------------------------------|----------|-----------|---------|--------|
| State          | State Abbreviation           | FALSE    |           |         | All    |
| LightRailSegId | Hazus Internal ID            | TRUE     |           |         | All    |
| SegmentClass   | Analysis Class               | TRUE     |           | LTR     | All    |
| CountyFips     | County Fips                  | TRUE     |           |         | All    |
| RTE_NAME       | Track Segment Name           | FALSE    |           |         | All    |
| SYSTEM         | Track Segment Owner          | FALSE    |           |         | All    |
| Length_km      | Section Length (km)          | FALSE    | Kilometer |         | All    |
| Cost_1kDollars | Replacement Cost (thous. \$) | FALSE    | Thous. \$ |         | All    |
| SYSTEM_URL     | System Url                   | FALSE    |           |         | All    |
| SYS_AGENCY     | System Agency                | FALSE    |           |         | All    |
| RTE_URL        | Route URL                    | FALSE    |           |         | All    |
| MODE           | Mode                         | FALSE    |           |         | All    |
| SOURCE         | Source URL                   | FALSE    |           |         | All    |
| SOURCEDATE     | Source Date                  | FALSE    |           |         | All    |
| CensusRegion   | Census Region                | FALSE    |           |         | All    |

| Field Name     | Field Description | Required | Units | Default | Hazard |
|----------------|-------------------|----------|-------|---------|--------|
| CensusDivision | Census Division   | FALSE    |       |         | All    |
| CostMultiplier | Cost Multiplier   | FALSE    |       |         | All    |

## 4.11. Port Facilities

| Field Name        | Field Description                      | Required | Units        | Default | Hazard |
|-------------------|--|----------|--------------|---------|--------|
| State             | State Abbreviation                     | FALSE    |              |         | All    |
| Address           | Address                                | FALSE    |              |         | All    |
| City              | City                                   | FALSE    |              |         | All    |
| Comment           | Misc. Comments                         | FALSE    |              |         | All    |
| Cost              | Replacement Cost (thous. \$)           | FALSE    | Thous. \$    |         | All    |
| DesignLevel       | Design Level                           | TRUE     |              | LC      | EQ     |
| eqBldgType        | Earthquake Building Type               | TRUE     |              | DFLT    | EQ     |
| Latitude          | Latitude                               | FALSE    |              |         | All    |
| Longitude         | Longitude                              | FALSE    |              |         | All    |
| Name              | Facility Name                          | FALSE    |              |         | All    |
| Owner             | Facility Owner                         | FALSE    |              |         | All    |
| PortFltyId        | Hazus Internal ID                      | TRUE     |              | Auto    | All    |
| SoilType          | Soil Type                              | FALSE    |              | D       | EQ     |
| Tract             | Census Tract                           | FALSE    |              |         | All    |
| TranspFcCityClass | Analysis Class                         | TRUE     |              | PDFLT   | All    |
| WaterDepth        | Water Depth in Meters between 0 - 1000 | FALSE    | Meters       | 5       | EQ     |
| YearBuilt         | Year Built (Between 1500 and 2100)     | FALSE    | 1500 to 2100 |         | All    |
| Zipcode           | ZIP Code                               | FALSE    |              |         | All    |
| FacilityType      | Facility Type                          | FALSE    |              |         | All    |
| PortName          | Port Name                              | FALSE    |              |         | All    |
| Commodities       | Commodities                            | FALSE    |              |         | All    |

| Field Name   | Field Description | Required | Units | Default | Hazard |
|--------------|-------------------|----------|-------|---------|--------|
| Construction |                   | FALSE    |       |         | All    |

## 4.12. Railway Bridges

| Field Name       | Field Description                        | Required | Units        | Default | Hazard |
|------------------|--|----------|--------------|---------|--------|
| State            | State Abbreviation                       | FALSE    |              |         | All    |
| BridgeClass      | Analysis Class                           | TRUE     |              | RDFLT   | All    |
| Cost             | Replacement Cost (thous. \$)             | FALSE    | Thous. \$    |         | All    |
| Latitude         | Latitude                                 | FALSE    |              |         | All    |
| Longitude        | Longitude                                | FALSE    |              |         | All    |
| Name             | Bridge Name                              | FALSE    |              |         | All    |
| Owner            | Bridge Owner                             | FALSE    |              |         | All    |
| RailwayBridgeld  | Hazus Internal ID                        | TRUE     |              | Auto    | All    |
| SoilType         | Soil Type                                | FALSE    |              | D       | EQ     |
| Tract            | Census Tract                             | FALSE    |              |         | All    |
| WaterDepth       | Water Depth in Meters between 0 - 1000   | FALSE    | Meters       | 5       | EQ     |
| YearBuilt        | Year Built (Between 1500 and 2100)       | FALSE    | 1500 to 2100 |         | All    |
| hifld_NAICSCODE  | NAICS Code                               | FALSE    |              |         | All    |
| hifld_NAICSDESCR | NAICS Description                        | FALSE    |              |         | All    |
| hifld_FEATURE_TY | Feature Type                             | FALSE    |              |         | All    |
| hifld_GNIS_NAME  | Geographic Names Information System Name | FALSE    |              |         | All    |
| hifld_GNIS_ID    | Geographic Names Information System Id   | FALSE    |              |         | All    |
| hifld_RAILWAY_NM | Railway Name                             | FALSE    |              |         | All    |

## 4.13. Railway Facilities

| Field Name       | Field Description                         | Required | Units        | Default | Hazard |
|------------------|---|----------|--------------|---------|--------|
| State            | State Abbreviation                        | FALSE    |              |         | All    |
| RailFltyId       | Hazus Internal ID                         | TRUE     |              | Auto    | All    |
| TranspFcityClass | Analysis Class                            | TRUE     |              | RDFLT   | All    |
| Tract            | Census Tract                              | FALSE    |              |         | All    |
| Name             | Facility Name                             | FALSE    |              |         | All    |
| Address          | Address                                   | FALSE    |              |         | All    |
| City             | Facility City                             | FALSE    |              |         | All    |
| Zipcode          | ZIP Code                                  | FALSE    |              |         | All    |
| Owner            | Facility Owner                            | FALSE    |              |         | All    |
| Usage            | Primary Function                          | FALSE    |              |         | All    |
| Cost             | Replacement Cost (thous. \$)              | FALSE    | Thous.<br>\$ |         | All    |
| Latitude         | Latitude                                  | FALSE    |              |         | All    |
| Longitude        | Longitude                                 | FALSE    |              |         | All    |
| Comment          | Misc. Comments                            | FALSE    |              |         | All    |
| eqBldgType       | Earthquake Building Type                  | TRUE     |              | DFLT    | EQ     |
| DesignLevel      | Design Level                              | TRUE     |              | LC      | EQ     |
| FoundationType   | Foundation Type                           | FALSE    |              | 0       | EQ     |
| SoilType         | Soil Type                                 | FALSE    |              | D       | EQ     |
| WaterDepth       | Water Depth in Meters<br>between 0 - 1000 | FALSE    | Meters       | 5       | EQ     |

## 4.14. Railway Segments

| Field Name   | Field Description  | Required | Units | Default | Hazard |
|--------------|--------------------|----------|-------|---------|--------|
| State        | State Abbreviation | FALSE    |       |         | All    |
| RailwaySegId | Hazus Internal ID  | TRUE     |       |         | All    |
| SegmentClass | Analysis Class     | TRUE     |       | RTR     | All    |

| Field Name     | Field Description            | Required | Units      | Default | Hazard |
|----------------|------------------------------|----------|------------|---------|--------|
| CountyFips     | County FIPS                  | TRUE     |            |         | All    |
| Name           | Track Segment Name           | FALSE    |            |         | All    |
| Length_km      | Section Length (km)          | FALSE    | Kilometers |         | All    |
| Cost_1kDollars | Replacement Cost (thous. \$) | FALSE    | Thous. \$  |         | All    |
| CensusRegion   | Census Region                | FALSE    |            |         | All    |
| CensusDivision | Census Division              | FALSE    |            |         | All    |
| CostMultiplier | Cost Multiplier              | FALSE    |            |         | All    |
| UrbanFlag      | Urban                        | FALSE    |            |         | All    |
| SourceFile     | HIFLD Source                 | FALSE    |            |         | All    |

## 4.15. Railway Tunnels

| Field Name      | Field Description            | Required | Units     | Default | Hazard |
|-----------------|------------------------------|----------|-----------|---------|--------|
| State           | State Abbreviation           | FALSE    |           |         | All    |
| Comment         | Misc. Comments               | FALSE    |           |         | All    |
| Cost            | Replacement Cost (thous. \$) | FALSE    | Thous. \$ |         | All    |
| Latitude        | Latitude                     | FALSE    |           |         | All    |
| Length          | Tunnel Length (m)            | FALSE    | Meters    |         | All    |
| Longitude       | Longitude                    | FALSE    |           |         | All    |
| Name            | Tunnel Name                  | FALSE    |           |         | All    |
| Owner           | Tunnel Owner                 | FALSE    |           |         | All    |
| RailwayTunnelId | Hazus Internal ID            | TRUE     |           | Auto    | All    |
| SoilType        | Soil Type                    | FALSE    |           | D       | EQ     |
| Tract           | Census Tract                 | FALSE    |           |         | All    |
| Traffic         | Traffic Index                | FALSE    |           |         | All    |
| TunnelClass     | Analysis Class               | TRUE     |           | RDFLT   | All    |

| Field Name | Field Description                      | Required | Units        | Default | Hazard |
|------------|--|----------|--------------|---------|--------|
| WaterDepth | Water Depth in Meters between 0 - 1000 | FALSE    | Meters       | 5       | EQ     |
| Width      | Tunnel Width (m)                       | FALSE    | Meters       |         | All    |
| YearBuilt  | Year Built (Between 1500 and 2100)     | FALSE    | 1500 to 2100 |         | All    |

# Utility Systems

## 5.1. Communication Facilities

| Field Name          | Field Description            | Required | Units        | Default | Hazard |
|---------------------|------------------------------|----------|--------------|---------|--------|
| State               | State Abbreviation           | FALSE    |              |         | All    |
| CommunicationFltyId | Hazus Internal ID            | TRUE     |              | Auto    | All    |
| UtilFcntyClass      | Analysis Class               | TRUE     |              | CDFLT   | All    |
| Tract               | Census Tract                 | FALSE    |              |         | All    |
| Name                | Facility Name                | FALSE    |              |         | All    |
| Address             | Address                      | FALSE    |              |         | All    |
| City                | City                         | FALSE    |              |         | All    |
| Zipcode             | ZIP Code                     | FALSE    |              |         | All    |
| Owner               | Facility Owner               | FALSE    |              |         | All    |
| Contact             | Contact Person               | FALSE    |              |         | All    |
| PhoneNumber         | Telephone Number             | FALSE    |              |         | All    |
| DesignLevel         | Design Level                 | TRUE     |              | LC      | EQ     |
| eqBldgType          | Earthquake Building Type     | TRUE     |              | DFLT    | EQ     |
| FoundationType      | Foundation Type              | FALSE    |              | 0       | EQ     |
| SoilType            | Soil Type                    | FALSE    |              | D       | EQ     |
| Usage               | Primary Function             | FALSE    |              |         | All    |
| YearBuilt           | Year Built                   | FALSE    | 1500 to 2100 |         | All    |
| Cost                | Replacement Cost (Thous. \$) | FALSE    | Thous. \$    |         | All    |
| WaterDepth          | Water Depth in Meters        | FALSE    | Meters       | 5       | EQ     |
| Latitude            | Latitude                     | FALSE    |              |         | All    |
| Longitude           | Longitude                    | FALSE    |              |         | All    |
| Comment             | Comment                      | FALSE    |              |         | All    |

## 5.2. Electric Power Facilities

| Field Name          | Field Description                      | Required | Units        | Default | Hazard |
|---------------------|--|----------|--------------|---------|--------|
| State               | State Abbreviation                     | FALSE    |              |         | All    |
| Address             | Address                                | FALSE    |              |         | All    |
| Capacity            | Capacity                               | FALSE    |              |         | All    |
| City                | City                                   | FALSE    |              |         | All    |
| Comment             | Misc. Comments                         | FALSE    |              |         | All    |
| Contact             | Contact Person                         | FALSE    |              |         | All    |
| Cost                | Replacement Cost (thous. \$)           | FALSE    | Thous.<br>\$ |         | All    |
| DesignLevel         | Design Level                           | TRUE     |              | LC      | EQ     |
| ElectricPowerFltyId | Hazus Internal ID                      | TRUE     |              | Auto    | All    |
| eqBldgType          | Earthquake Building Type               | TRUE     |              | DFLT    | EQ     |
| f1FoundationType    | Flood Structure Foundation Type        | FALSE    |              | 7       | FL     |
| Latitude            | Latitude                               | FALSE    |              |         | All    |
| Longitude           | Longitude                              | FALSE    |              |         | All    |
| Name                | Name                                   | FALSE    |              |         | All    |
| Owner               | Owner                                  | FALSE    |              |         | All    |
| PhoneNumber         | Telephone Number                       | FALSE    |              |         | All    |
| SoilType            | Soil Type                              | FALSE    |              | D       | EQ     |
| Tract               | Census Tract                           | FALSE    |              |         | All    |
| UtilDamageFnId      | The assigned damage function           | FALSE    |              | 60      | FL     |
| UtilFclyClass       | Analysis Class                         | TRUE     |              | EDFLT   | All    |
| UtilIndicator       | Utility Indicator                      | FALSE    |              | 0       | FL     |
| WaterDepth          | Water Depth in Meters between 0 - 1000 | FALSE    | Meters       | 5       | EQ     |
| Zipcode             | Zipcode                                | FALSE    |              |         | All    |
| hifld_PLANT_CODE    | Plant Code                             | FALSE    |              |         | All    |

| Field Name       | Field Description  | Required | Units | Default | Hazard |
|------------------|--------------------|----------|-------|---------|--------|
| hifld_STATUS     | Status             | FALSE    |       |         | All    |
| hifld_NAICS_CODE | NAICS Code         | FALSE    |       |         | All    |
| hifld_NAICS_DESC | NAICS Description  | FALSE    |       |         | All    |
| hifld_SOURCE     | Source             | FALSE    |       |         | All    |
| hifld_SOURCEDATE | Source Date        | FALSE    |       |         | All    |
| hifld_VAL_METHOD | Validation Method  | FALSE    |       |         | All    |
| hifld_VAL_DATE   | Validation Date    | FALSE    |       |         | All    |
| hifld_OPERAT_ID  | Operator Id        | FALSE    |       |         | All    |
| hifld_OPER_CAP   | Operating Capacity | FALSE    |       |         | All    |
| hifld_SUMMER_CAP | Summer Capacity    | FALSE    |       |         | All    |
| hifld_WINTER_CAP | Winter Capacity    | FALSE    |       |         | All    |
| hifld_PLAN_CAP   | Planned Capacity   | FALSE    |       |         | All    |
| hifld_PRIM_FUEL  | Primary Fuel       | FALSE    |       |         | All    |
| hifld_SEC_FUEL   | Secondary Fuel     | FALSE    |       |         | All    |
| hifld_NET_GEN    | Net Generated      | FALSE    |       |         | All    |

### 5.3. Natural Gas Facilities

| Field Name       | Field Description               | Required | Units     | Default | Hazard |
|------------------|---------------------------------|----------|-----------|---------|--------|
| State            | State Abbreviation              | FALSE    |           |         | All    |
| Address          | Address                         | FALSE    |           |         | All    |
| City             | City                            | FALSE    |           |         | All    |
| Cost             | Replacement Cost (thous. \$)    | FALSE    | Thous. \$ |         | All    |
| DesignLevel      | Design Level                    | TRUE     |           | LC      | EQ     |
| eqBldgType       | Earthquake Building Type        | TRUE     |           | DFLT    | EQ     |
| f1FoundationType | Flood Structure Foundation Type | TRUE     |           | 7       | FL     |
| Latitude         | Latitude                        | FALSE    |           |         | All    |
| Longitude        | Longitude                       | FALSE    |           |         | All    |

| Field Name       | Field Description                      | Required | Units      | Default | Hazard |
|------------------|--|----------|------------|---------|--------|
| Name             | Facility Name                          | FALSE    |            |         | All    |
| NaturalGasFltyId | Hazus Internal ID                      | TRUE     |            | Auto    | All    |
| Owner            | Facility Owner                         | FALSE    |            |         | All    |
| SoilType         | Soil Type                              | FALSE    |            | D       | EQ     |
|                  |  |          |            |         |        |
| Tract            | Census Tract                           | FALSE    |            |         | All    |
| UtilDamageFnId   | The assigned damage function           | TRUE     |            | 59      | FL     |
| UtilFclyClass    | Analysis Class                         | TRUE     | Table A.16 | GDFLT   | All    |
| WaterDepth       | Water Depth in Meters between 0 - 1000 | FALSE    | Meters     | 5       | EQ     |
| Zipcode          | ZIP Code                               | FALSE    |            |         | All    |
| hifld_NGPPID     | NGPPID                                 | FALSE    |            |         | All    |
| hifld_TYPE       | Type                                   | FALSE    |            |         | All    |
| hifld_STATUS     | Status                                 | FALSE    |            |         | All    |
| hifld_NAICS_CODE | NAICS Code                             | FALSE    |            |         | All    |
| hifld_NAICS_DESC | NAICS Description                      | FALSE    |            |         | All    |
| hifld_SOURCE     | Source                                 | FALSE    |            |         | All    |
| hifld_SOURCEDATE | Source Date                            | FALSE    |            |         | All    |
| hifld_VAL_METHOD | Validation Method                      | FALSE    |            |         | All    |
| hifld_VAL_DATE   | Validation Date                        | FALSE    |            |         | All    |
| hifld_WEBSITE    | Website                                | FALSE    |            |         | All    |
| hifld_FACID      | Facility Id                            | FALSE    |            |         | All    |
| hifld_COMPNAME   | Company Name                           | FALSE    |            |         | All    |
| hifld_EPA_ID     | EPA ID                                 | FALSE    |            |         | All    |
| hifld_GCOMPID    | Compressor Facility ID                 | FALSE    |            |         | All    |
| hifld_PIPECO     | Pipe Company                           | FALSE    |            |         | All    |

## 5.4. Natural Gas Pipelines

| Field Name        | Field Description            | Required | Units      | Default | Hazard |
|-------------------|------------------------------|----------|------------|---------|--------|
| State             | State Abbreviation           |          |            |         | ALL    |
| Comment           | Misc. Comments               |          |            |         | ALL    |
| Cost              | Replacement Cost (thous. \$) |          | Thous. \$  |         | ALL    |
| CountyFips        | County FIPS ID               |          |            |         | ALL    |
| Operator          | Pipeline Operator            |          |            |         | ALL    |
| NaturalGasPId     | Hazus Internal ID            |          |            |         | ALL    |
| Length_Kilometers | Pipe Length (Km)             |          | Kilometers |         | ALL    |
| PipelineClass     | Pipeline Class               |          |            |         | ALL    |
| RegionCostFactor  | Region Cost Factor           |          |            |         | ALL    |

## 5.5. Oil Facilities

| Field Name       | Field Description               | Required | Units     | Default | Hazard |
|------------------|---------------------------------|----------|-----------|---------|--------|
| State            | State                           | FALSE    |           |         | All    |
| Address          | Address                         | FALSE    |           |         | All    |
| Capacity         | Capacity (Thous. Barrels/Day)   | FALSE    | Thous.    |         | All    |
| City             | City                            | FALSE    |           |         | All    |
| Comment          | Misc. Comments                  | FALSE    |           |         | All    |
| Contact          | Contact Person                  | FALSE    |           |         | All    |
| Cost             | Replacement Cost (thous. \$)    | FALSE    | Thous. \$ |         | All    |
| DesignLevel      | Design Level                    | TRUE     |           | LC      | EQ     |
| eqBldgType       | Earthquake Building Type        | TRUE     |           | DFLT    | EQ     |
| f1FoundationType | Flood Structure Foundation Type | FALSE    |           |         | FL     |
| eqFoundationType | Foundation Type                 | FALSE    |           | 0       | EQ     |
| Latitude         | Latitude                        | FALSE    |           |         | All    |
| Longitude        | Longitude                       | FALSE    |           |         | All    |

| Field Name     | Field Description                      | Required | Units        | Default | Hazard |
|----------------|--|----------|--------------|---------|--------|
| Name           | Facility Name                          | FALSE    |              |         | All    |
| NumStories     | Number of Stories                      | TRUE     |              | 0       | FL     |
| OilFltyId      | Hazus Internal ID                      | TRUE     |              | Auto    | All    |
| Owner          | Facility Owner                         | FALSE    |              |         | All    |
| SoilType       | Soil Type                              | FALSE    |              | D       | EQ     |
| Tract          | Census Tract                           | FALSE    |              |         | All    |
| Use            | Primary Function                       | FALSE    |              |         | All    |
| UtilDamageFnld | The assigned damage function           | TRUE     |              | 48      | FL     |
| UtilFclyClass  | Analysis Class                         | TRUE     |              | ODFLT   | All    |
| WaterDepth     | Water Depth in Meters between 0 - 1000 | FALSE    | Meters       | 5       | EQ     |
| YearBuilt      | Year Built (Between 1500 and 2100)     | FALSE    | 1500 to 2100 |         | All    |
| Zipcode        | ZIP Code                               | FALSE    |              |         | All    |

## 5.6. Potable Water Facilities

| Field Name  | Field Description              | Required | Units     | Default | Hazard |
|-------------|--------------------------------|----------|-----------|---------|--------|
| State       | State Abbreviation             | FALSE    |           |         | All    |
| Address     | Address                        | FALSE    |           |         | All    |
| Capacity    | Capacity (Million Gallons/Day) | FALSE    | Million   |         | All    |
| City        | City                           | FALSE    |           |         | All    |
| Comment     | Misc. Comments                 | FALSE    |           |         | All    |
| Contact     | Contact Person                 | FALSE    |           |         | All    |
| Cost        | Replacement Cost (thous. \$)   | FALSE    | Thous. \$ |         | All    |
| DesignLevel | Design Level                   | TRUE     |           | LC      | EQ     |
| eqBldgType  | Earthquake Building Type       | TRUE     |           | DFLT    | EQ     |

| Field Name         | Field Description                   | Required | Units        | Default | Hazard |
|--------------------|-------------------------------------|----------|--------------|---------|--------|
| EquipmentHt        | Average Height Electrical Equipment | FALSE    | Feet         | 0       | FL     |
| f1FoundationType   | Flood Structure Foundation Type     | FALSE    |              |         | FL     |
| eqFoundationType   | Foundation Type                     | FALSE    |              | 0       | EQ     |
| Latitude           | Latitude                            | FALSE    |              |         | All    |
| Longitude          | Longitude                           | FALSE    |              |         | All    |
| Name               | Facility Name                       | FALSE    |              |         | All    |
| NumStories         | Number of Stories                   | FALSE    |              |         | All    |
| Owner              | Facility Owner                      | FALSE    |              |         | All    |
| PotableWaterFltyId | Hazus Internal ID                   | TRUE     |              | Auto    | All    |
| SoilType           | Soil Type                           | FALSE    |              | D       | EQ     |
| SystemId           | Identifier for Water System         | FALSE    |              |         | All    |
| Tract              | Census Tract                        | FALSE    |              |         | All    |
| Use                | Primary Function                    | FALSE    |              |         | All    |
| UtilDamageFnId     | The assigned damage function        | TRUE     |              | 4       | FL     |
| UtilFclyClass      | Analysis Class                      | TRUE     |              | PDFLT   | All    |
| UtilIndicator      | Utility Indicator                   | FALSE    |              | 0       | FL     |
| WaterDepth         | Water Depth in Meters               | FALSE    | Meters       | 5       | EQ     |
| YearBuilt          | Year Built                          | FALSE    | 1500 to 2100 |         | All    |
| Zipcode            | ZIP Code                            | FALSE    |              |         | All    |

## 5.7. Wastewater Facilities

| Field Name | Field Description  | Required | Units | Default | Hazard |
|------------|--------------------|----------|-------|---------|--------|
| State      | State Abbreviation | FALSE    |       |         | All    |
| Address    | Address            | FALSE    |       |         | All    |
| City       | City               | FALSE    |       |         | All    |

| Field Name       | Field Description            | Required | Units      | Default | Hazard |
|------------------|------------------------------|----------|------------|---------|--------|
| Cost             | Replacement Cost (thous. \$) | FALSE    | Thous. \$  |         | All    |
| DesignLevel      | Design Level                 | TRUE     |            | LC      | EQ     |
| eqBldgType       | Earthquake Building Type     | TRUE     |            | DFLT    | EQ     |
| Latitude         | Latitude                     | FALSE    |            |         | All    |
| Longitude        | Longitude                    | FALSE    |            |         | All    |
| Name             | Facility Name                | FALSE    |            |         | All    |
| SoilType         | Soil Type                    | FALSE    |            | D       | EQ     |
| Tract            | Census Tract                 | FALSE    |            |         | All    |
| UtilDamageFnId   | Utility Damage Function ID   | TRUE     | Table A.14 | 45      | FL     |
| UtilFcntyClass   | Analysis Class               | TRUE     |            | CDFLT   | All    |
| WasteWaterFltyId | Hazus Internal ID            | TRUE     |            | Auto    | All    |
| WaterDepth       | Water Depth in Meters        | FALSE    | Meters     | 5       | EQ     |
| Zipcode          | ZIP Code                     | FALSE    |            |         | All    |
| hifld_SOURCE_ID  | Source ID                    | FALSE    |            |         | All    |
| hifld_CWP_STATUS | CWP Status                   | FALSE    |            |         | All    |
| hifld_CWP_PERMIT | CWP Permit                   | FALSE    |            |         | All    |
| hifld_CWP_PERM_1 | CWP Permit 1                 | FALSE    |            |         | All    |
| hifld_CWP_PERM_2 | CWP Permit 2                 | FALSE    |            |         | All    |

# Aggregated Data

## 6.1. Building's Content Full Replacement Value by Occupancy at Census Block Level

| Field Name  | Field Description                      | Required | Type         | Units     | Default | Hazard |
|-------------|--|----------|--------------|-----------|---------|--------|
| CensusBlock | Census Block                           | TRUE     | Text(15)     | Text      |         | All    |
| AGR1I       | AGR1 - Agriculture                     | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM10I      | COM10 - Parking                        | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM1I       | COM1 - Retail Trade                    | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM2I       | COM2 - Wholesale Trade                 | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM3I       | COM3 - Personal and Repair Services    | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM4I       | COM4 - Professional/Technical Services | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM5I       | COM5 - Banks                           | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM6I       | COM6 - Hospital                        | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM7I       | COM7 - Medical Office/Clinic           | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM8I       | COM8 - Entertainment & Recreation      | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM9I       | COM9 - Theaters                        | TRUE     | Long Integer | Thous. \$ |         | All    |
| EDU1I       | EDU1 - Grade Schools                   | TRUE     | Long Integer | Thous. \$ |         | All    |
| EDU2I       | EDU2 - Colleges/Universities           | TRUE     | Long Integer | Thous. \$ |         | All    |
| GOV1I       | GOV1 - General Services                | TRUE     | Long Integer | Thous. \$ |         | All    |

| Field Name | Field Description                         | Required | Type         | Units     | Default | Hazard |
|------------|---|----------|--------------|-----------|---------|--------|
| GOV2I      | GOV2 - Emergency Response                 | TRUE     | Long Integer | Thous. \$ |         | All    |
| IND1I      | IND1 - Heavy                              | TRUE     | Long Integer | Thous. \$ |         | All    |
| IND2I      | IND2 - Light                              | TRUE     | Long Integer | Thous. \$ |         | All    |
| IND3I      | IND3 - Food/Drugs/Chemicals               | TRUE     | Long Integer | Thous. \$ |         | All    |
| IND4I      | IND4 - Metals/Minerals Processing         | TRUE     | Long Integer | Thous. \$ |         | All    |
| IND5I      | IND5 - High Technology                    | TRUE     | Long Integer | Thous. \$ |         | All    |
| IND6I      | IND6 - Construction                       | TRUE     | Long Integer | Thous. \$ |         | All    |
| REL1I      | REL1 - Churches and Other Non-profit Org. | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES1I      | RES1 - Single Family Dwelling             | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES2I      | RES2 - Manufactured Housing               | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3AI     | RES3A - Duplex                            | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3BI     | RES3B - Triplex / Quads                   | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3CI     | RES3C - Multi-dwellings (5 to 9 units)    | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3DI     | RES3D - Multi-dwellings (10 to 19 units)  | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3EI     | RES3E - Multi-dwellings (20 to 49 units)  | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3FI     | RES3F - Multi-dwellings (50+ units)       | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES4I      | RES4 - Temporary Lodging                  | TRUE     | Long Integer | Thous. \$ |         | All    |

| Field Name | Field Description              | Required | Type         | Units     | Default | Hazard |
|------------|--------------------------------|----------|--------------|-----------|---------|--------|
| RES5I      | RES5 - Institutional Dormitory | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES6I      | RES6 - Nursing Home            | TRUE     | Long Integer | Thous. \$ |         | All    |

## 6.2. Building's Content Full Replacement Value by Occupancy at Census Tract Level

| Field Name | Field Description                      | Required | Type         | Units     | Default | Hazard |
|------------|--|----------|--------------|-----------|---------|--------|
| Tract      | Census Tract                           | TRUE     | Text(11)     | Text      |         | All    |
| AGR1I      | AGR1 - Agriculture                     | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM10I     | COM10 - Parking                        | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM1I      | COM1 - Retail Trade                    | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM2I      | COM2 - Wholesale Trade                 | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM3I      | COM3 - Personal and Repair Services    | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM4I      | COM4 - Professional/Technical Services | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM5I      | COM5 - Banks                           | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM6I      | COM6 - Hospital                        | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM7I      | COM7 - Medical Office/Clinic           | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM8I      | COM8 - Entertainment & Recreation      | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM9I      | COM9 - Theaters                        | TRUE     | Long Integer | Thous. \$ |         | All    |
| EDU1I      | EDU1 - Grade Schools                   | TRUE     | Long Integer | Thous. \$ |         | All    |

| <b>Field Name</b> | <b>Field Description</b>                  | <b>Required</b> | <b>Type</b>  | <b>Units</b> | <b>Default</b> | <b>Hazard</b> |
|-------------------|---|-----------------|--------------|--------------|----------------|---------------|
| EDU2I             | EDU2 - Colleges/Universities              | TRUE            | Long Integer | Thous . \$   |                | All           |
| GOV1I             | GOV1 - General Services                   | TRUE            | Long Integer | Thous . \$   |                | All           |
| GOV2I             | GOV2 - Emergency Response                 | TRUE            | Long Integer | Thous . \$   |                | All           |
| IND1I             | IND1 - Heavy                              | TRUE            | Long Integer | Thous . \$   |                | All           |
| IND2I             | IND2 - Light                              | TRUE            | Long Integer | Thous . \$   |                | All           |
| IND3I             | IND3 - Food/Drugs/Chemicals               | TRUE            | Long Integer | Thous . \$   |                | All           |
| IND4I             | IND4 - Metals/Minerals Processing         | TRUE            | Long Integer | Thous . \$   |                | All           |
| IND5I             | IND5 - High Technology                    | TRUE            | Long Integer | Thous . \$   |                | All           |
| IND6I             | IND6 - Construction                       | TRUE            | Long Integer | Thous . \$   |                | All           |
| REL1I             | REL1 - Churches and Other Non-profit Org. | TRUE            | Long Integer | Thous . \$   |                | All           |
| RES1I             | RES1 - Single Family Dwelling             | TRUE            | Long Integer | Thous . \$   |                | All           |
| RES2I             | RES2 - Manufactured Housing               | TRUE            | Long Integer | Thous . \$   |                | All           |
| RES3A I           | RES3A - Duplex                            | TRUE            | Long Integer | Thous . \$   |                | All           |
| RES3B I           | RES3B - Triplex / Quads                   | TRUE            | Long Integer | Thous . \$   |                | All           |
| RES3C I           | RES3C - Multi-dwellings (5 to 9 units)    | TRUE            | Long Integer | Thous . \$   |                | All           |
| RES3D I           | RES3D - Multi-dwellings (10 to 19 units)  | TRUE            | Long Integer | Thous . \$   |                | All           |
| RES3E I           | RES3E - Multi-dwellings (20 to 49 units)  | TRUE            | Long Integer | Thous . \$   |                | All           |

| Field Name | Field Description                   | Required | Type         | Units      | Default | Hazard |
|------------|-------------------------------------|----------|--------------|------------|---------|--------|
| RES3FI     | RES3F - Multi-dwellings (50+ units) | TRUE     | Long Integer | Thous . \$ |         | All    |
| RES4I      | RES4 - Temporary Lodging            | TRUE     | Long Integer | Thous . \$ |         | All    |
| RES5I      | RES5 - Institutional Dormitory      | TRUE     | Long Integer | Thous . \$ |         | All    |
| RES6I      | RES6 - Nursing Home                 | TRUE     | Long Integer | Thous . \$ |         | All    |

### 6.3. Building Count by Occupancy (Census Block)

| Field Name  | Field Description                      | Required | Type     | Units | Default | Hazard |
|-------------|--|----------|----------|-------|---------|--------|
| CensusBlock | Census Block                           | TRUE     | Text(15) |       |         | All    |
| AGR1I       | AGR1 - Agriculture                     | TRUE     | Integer  |       | 0       | All    |
| COM10I      | COM10 - Parking                        | TRUE     | Integer  |       | 0       | All    |
| COM1I       | COM1 - Retail Trade                    | TRUE     | Integer  |       | 0       | All    |
| COM2I       | COM2 - Wholesale Trade                 | TRUE     | Integer  |       | 0       | All    |
| COM3I       | COM3 - Personal and Repair Services    | TRUE     | Integer  |       | 0       | All    |
| COM4I       | COM4 - Professional/Technical Services | TRUE     | Integer  |       | 0       | All    |
| COM5I       | COM5 - Banks                           | TRUE     | Integer  |       | 0       | All    |
| COM6I       | COM6 - Hospital                        | TRUE     | Integer  |       | 0       | All    |
| COM7I       | COM7 - Medical Office/Clinic           | TRUE     | Integer  |       | 0       | All    |
| COM8I       | COM8 - Entertainment & Recreation      | TRUE     | Integer  |       | 0       | All    |
| COM9I       | COM9 - Theaters                        | TRUE     | Integer  |       | 0       | All    |
| EDU1I       | EDU1 - Grade Schools                   | TRUE     | Integer  |       | 0       | All    |
| EDU2I       | EDU2 - Colleges/Universities           | TRUE     | Integer  |       | 0       | All    |
| GOV1I       | GOV1 - General Services                | TRUE     | Integer  |       | 0       | All    |

| Field Name | Field Description                         | Required | Type    | Units | Default | Hazard |
|------------|---|----------|---------|-------|---------|--------|
| GOV2I      | GOV2 - Emergency Response                 | TRUE     | Integer |       | 0       | All    |
| IND1I      | IND1 - Heavy                              | TRUE     | Integer |       | 0       | All    |
| IND2I      | IND2 - Light                              | TRUE     | Integer |       | 0       | All    |
| IND3I      | IND3 - Food/Drugs/Chemicals               | TRUE     | Integer |       | 0       | All    |
| IND4I      | IND4 - Metals/Minerals Processing         | TRUE     | Integer |       | 0       | All    |
| IND5I      | IND5 - High Technology                    | TRUE     | Integer |       | 0       | All    |
| IND6I      | IND6 - Construction                       | TRUE     | Integer |       | 0       | All    |
| REL1I      | REL1 - Churches and Other Non-profit Org. | TRUE     | Integer |       | 0       | All    |
| RES1I      | RES1 - Single Family Dwelling             | TRUE     | Integer |       | 0       | All    |
| RES2I      | RES2 - Manufactured Housing               | TRUE     | Integer |       | 0       | All    |
| RES3AI     | RES3A - Duplex                            | TRUE     | Integer |       | 0       | All    |
| RES3BI     | RES3B - Triplex / Quads                   | TRUE     | Integer |       | 0       | All    |
| RES3CI     | RES3C - Multi-dwellings (5 to 9 units)    | TRUE     | Integer |       | 0       | All    |
| RES3DI     | RES3D - Multi-dwellings (10 to 19 units)  | TRUE     | Integer |       | 0       | All    |
| RES3EI     | RES3E - Multi-dwellings (20 to 49 units)  | TRUE     | Integer |       | 0       | All    |
| RES3FI     | RES3F - Multi-dwellings (50+ units)       | TRUE     | Integer |       | 0       | All    |
| RES4I      | RES4 - Temporary Lodging                  | TRUE     | Integer |       | 0       | All    |
| RES5I      | RES5 - Institutional Dormitory            | TRUE     | Integer |       | 0       | All    |
| RES6I      | RES6 - Nursing Home                       | TRUE     | Integer |       | 0       | All    |

#### 6.4. Building Count by Occupancy (Census Tract)

| Field Name | Field Description | Required | Type     | Units | Default | Hazard |
|------------|-------------------|----------|----------|-------|---------|--------|
| Tract      | Census Tract      | TRUE     | Text(11) |       |         | All    |

| <b>Field Name</b> | <b>Field Description</b>          | <b>Required</b> | <b>Type</b> | <b>Units</b> | <b>Default</b> | <b>Hazard</b> |
|-------------------|-----------------------------------|-----------------|-------------|--------------|----------------|---------------|
| AGR1I             | AGR1 - Agriculture                | TRUE            | Integer     |              | 0              | All           |
| COM10I            | COM10 - Parking                   | TRUE            | Integer     |              | 0              | All           |
| COM1I             | COM1 - Retail Trade               | TRUE            | Integer     |              | 0              | All           |
| COM2I             | COM2 - Wholesale Trade            | TRUE            | Integer     |              | 0              | All           |
| COM3I             | COM3 - Personal and Repair        | TRUE            | Integer     |              | 0              | All           |
| COM4I             | COM4 - Professional/Technical     | TRUE            | Integer     |              | 0              | All           |
| COM5I             | COM5 - Banks                      | TRUE            | Integer     |              | 0              | All           |
| COM6I             | COM6 - Hospital                   | TRUE            | Integer     |              | 0              | All           |
| COM7I             | COM7 - Medical Office/Clinic      | TRUE            | Integer     |              | 0              | All           |
| COM8I             | COM8 - Entertainment &            | TRUE            | Integer     |              | 0              | All           |
| COM9I             | COM9 - Theaters                   | TRUE            | Integer     |              | 0              | All           |
| EDU1I             | EDU1 - Grade Schools              | TRUE            | Integer     |              | 0              | All           |
| EDU2I             | EDU2 - Colleges/Universities      | TRUE            | Integer     |              | 0              | All           |
| GOV1I             | GOV1 - General Services           | TRUE            | Integer     |              | 0              | All           |
| GOV2I             | GOV2 - Emergency Response         | TRUE            | Integer     |              | 0              | All           |
| IND1I             | IND1 - Heavy                      | TRUE            | Integer     |              | 0              | All           |
| IND2I             | IND2 - Light                      | TRUE            | Integer     |              | 0              | All           |
| IND3I             | IND3 - Food/Drugs/Chemicals       | TRUE            | Integer     |              | 0              | All           |
| IND4I             | IND4 - Metals/Minerals Processing | TRUE            | Integer     |              | 0              | All           |
| IND5I             | IND5 - High Technology            | TRUE            | Integer     |              | 0              | All           |
| IND6I             | IND6 - Construction               | TRUE            | Integer     |              | 0              | All           |
| REL1I             | REL1 - Churches and Other Non-    | TRUE            | Integer     |              | 0              | All           |

| Field Name | Field Description                   | Required | Type    | Units | Default | Hazard |
|------------|-------------------------------------|----------|---------|-------|---------|--------|
| RES1I      | RES1 - Single Family Dwelling       | TRUE     | Integer |       | 0       | All    |
| RES2I      | RES2 - Manufactured Housing         | TRUE     | Integer |       | 0       | All    |
| RES3AI     | RES3A - Duplex                      | TRUE     | Integer |       | 0       | All    |
| RES3BI     | RES3B - Triplex / Quads             | TRUE     | Integer |       | 0       | All    |
| RES3CI     | RES3C - Multi-dwellings (5 to 9     | TRUE     | Integer |       | 0       | All    |
| RES3DI     | RES3D - Multi-dwellings (10 to 19   | TRUE     | Integer |       | 0       | All    |
| RES3EI     | RES3E - Multi-dwellings (20 to 49   | TRUE     | Integer |       | 0       | All    |
| RES3FI     | RES3F - Multi-dwellings (50+ units) | TRUE     | Integer |       | 0       | All    |
| RES4I      | RES4 - Temporary Lodging            | TRUE     | Integer |       | 0       | All    |
| RES5I      | RES5 - Institutional Dormitory      | TRUE     | Integer |       | 0       | All    |
| RES6I      | RES6 - Nursing Home                 | TRUE     | Integer |       | 0       | All    |

## 6.5. Building (Without Content) Full Replacement Value by Occupancy at Census Block Level

| Field Name  | Field Description      | Required | Type         | Units     | Default | Hazard |
|-------------|------------------------|----------|--------------|-----------|---------|--------|
| CensusBlock | Census Block           | TRUE     | Text(15)     | Text      |         | All    |
| AGR1I       | AGR1 - Agriculture     | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM10I      | COM10 - Parking        | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM1I       | COM1 - Retail Trade    | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM2I       | COM2 - Wholesale Trade | TRUE     | Long Integer | Thous. \$ |         | All    |

| <b>Field Name</b> | <b>Field Description</b>             | <b>Required</b> | <b>Type</b>  | <b>Units</b> | <b>Default</b> | <b>Hazard</b> |
|-------------------|--------------------------------------|-----------------|--------------|--------------|----------------|---------------|
| COM3I             | COM3 - Personal and Repair Services  | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM4I             | COM4 Professional/Technical Services | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM5I             | COM5 - Banks                         | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM6I             | COM6 - Hospital                      | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM7I             | COM7 - Medical Office/Clinic         | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM8I             | COM8 - Entertainment & Recreation    | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM9I             | COM9 - Theaters                      | TRUE            | Long Integer | Thous. \$    |                | All           |
| EDU1I             | EDU1 - Grade Schools                 | TRUE            | Long Integer | Thous. \$    |                | All           |
| EDU2I             | EDU2 Colleges/Universities           | TRUE            | Long Integer | Thous. \$    |                | All           |
| GOV1I             | GOV1 - General Services              | TRUE            | Long Integer | Thous. \$    |                | All           |
| GOV2I             | GOV2 - Emergency Response            | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND1I             | IND1 - Heavy                         | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND2I             | IND2 - Light                         | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND3I             | IND3 Food/Drugs/Chemicals            | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND4I             | IND4 - Metals/Minerals Processing    | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND5I             | IND5 - High Technology               | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND6I             | IND6 - Construction                  | TRUE            | Long Integer | Thous. \$    |                | All           |

| Field Name | Field Description                         | Required | Type         | Units     | Default | Hazard |
|------------|---|----------|--------------|-----------|---------|--------|
| REL1I      | REL1 - Churches and Other Non-profit Org. | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES1I      | RES1 - Single Family Dwelling             | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES2I      | RES2 - Manufactured Housing               | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3AI     | RES3A - Duplex                            | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3BI     | RES3B - Triplex / Quads                   | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3CI     | RES3C - Multi-dwellings (5 to 9 units)    | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3DI     | RES3D - Multi-dwellings (10 to 19 units)  | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3EI     | RES3E - Multi-dwellings (20 to 49 units)  | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES3FI     | RES3F - Multi-dwellings (50+ units)       | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES4I      | RES4 - Temporary Lodging                  | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES5I      | RES5 - Institutional Dormitory            | TRUE     | Long Integer | Thous. \$ |         | All    |
| RES6I      | RES6 - Nursing Home                       | TRUE     | Long Integer | Thous. \$ |         | All    |

## 6.6. Building (Without Content) Full Replacement Value by Occupancy at Census Tract Level

| Field Name | Field Description  | Required | Type         | Units     | Default | Hazard |
|------------|--------------------|----------|--------------|-----------|---------|--------|
| Tract      | Census Tract       | TRUE     | Text(11)     | Text      |         | All    |
| AGR1I      | AGR1 - Agriculture | TRUE     | Long Integer | Thous. \$ |         | All    |
| COM10I     | COM10 - Parking    | TRUE     | Long Integer | Thous. \$ |         | All    |

| <b>Field Name</b> | <b>Field Description</b>               | <b>Required</b> | <b>Type</b>  | <b>Units</b> | <b>Default</b> | <b>Hazard</b> |
|-------------------|--|-----------------|--------------|--------------|----------------|---------------|
| COM1I             | COM1 - Retail Trade                    | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM2I             | COM2 - Wholesale Trade                 | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM3I             | COM3 - Personal and Repair Services    | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM4I             | COM4 - Professional/Technical Services | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM5I             | COM5 - Banks                           | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM6I             | COM6 - Hospital                        | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM7I             | COM7 - Medical Office/Clinic           | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM8I             | COM8 - Entertainment & Recreation      | TRUE            | Long Integer | Thous. \$    |                | All           |
| COM9I             | COM9 - Theaters                        | TRUE            | Long Integer | Thous. \$    |                | All           |
| EDU1I             | EDU1 - Grade Schools                   | TRUE            | Long Integer | Thous. \$    |                | All           |
| EDU2I             | EDU2 - Colleges/Universities           | TRUE            | Long Integer | Thous. \$    |                | All           |
| GOV1I             | GOV1 - General Services                | TRUE            | Long Integer | Thous. \$    |                | All           |
| GOV2I             | GOV2 - Emergency Response              | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND1I             | IND1 - Heavy                           | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND2I             | IND2 - Light                           | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND3I             | IND3 - Food/Drugs/Chemicals            | TRUE            | Long Integer | Thous. \$    |                | All           |

| <b>Field Name</b> | <b>Field Description</b>                  | <b>Required</b> | <b>Type</b>  | <b>Units</b> | <b>Default</b> | <b>Hazard</b> |
|-------------------|---|-----------------|--------------|--------------|----------------|---------------|
| IND4I             | IND4 - Metals/Minerals Processing         | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND5I             | IND5 - High Technology                    | TRUE            | Long Integer | Thous. \$    |                | All           |
| IND6I             | IND6 - Construction                       | TRUE            | Long Integer | Thous. \$    |                | All           |
| REL1I             | REL1 - Churches and Other Non-profit Org. | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES1I             | RES1 - Single Family Dwelling             | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES2I             | RES2 - Manufactured Housing               | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES3AI            | RES3A - Duplex                            | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES3BI            | RES3B - Triplex / Quads                   | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES3CI            | RES3C - Multi-dwellings (5 to 9 units)    | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES3DI            | RES3D - Multi-dwellings (10 to 19 units)  | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES3EI            | RES3E - Multi-dwellings (20 to 49 units)  | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES3FI            | RES3F - Multi-dwellings (50+ units)       | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES4I             | RES4 - Temporary Lodging                  | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES5I             | RES5 - Institutional Dormitory            | TRUE            | Long Integer | Thous. \$    |                | All           |
| RES6I             | RES6 - Nursing Home                       | TRUE            | Long Integer | Thous. \$    |                | All           |

## 6.7. Demographics by Census Block

| Field Name       | Field Description                  | Required | Type         | Units | Default | Hazard |
|------------------|------------------------------------|----------|--------------|-------|---------|--------|
| StateAbbr        | State Abbreviation                 | FALSE    | Text(2)      |       |         | All    |
| CensusBlock      | Census Block                       | TRUE     | Text(15)     |       |         | All    |
| Population       | Total Census Tract Population      | FALSE    | Long Integer |       |         | All    |
| Households       | Total Census Tract Households      | FALSE    | Long Integer |       |         | All    |
| GroupQuarters    | Population in Group Quarters       | FALSE    | Long Integer |       |         | All    |
| MaleLess18       | Males less than 18-yrs old         | FALSE    | Long Integer |       |         | All    |
| Male18to64       | Males between 18 and 64            | FALSE    | Long Integer |       |         | All    |
| MaleOver64       | Males over 64-yrs old              | FALSE    | Long Integer |       |         | All    |
| FemaleLess18     | Females less than 18-yrs old       | TRUE     | Long Integer |       |         | All    |
| Female18to64     | Females between 18 and 64          | FALSE    | Long Integer |       |         | All    |
| FemaleOver64     | Females over 64-yrs old            | FALSE    | Long Integer |       |         | All    |
| MalePopulation   | Total Male Population              | FALSE    | Long Integer |       |         | All    |
| FemalePopulation | Total Female Population            | FALSE    | Long Integer |       |         | All    |
| White            | Population Stating White           | FALSE    | Long Integer |       |         | All    |
| Black            | Population Stating Black           | FALSE    | Long Integer |       |         | All    |
| NativeAmerican   | Population Stating Native American | FALSE    | Long Integer |       |         | All    |
| Asian            | Population Stating Asian           | FALSE    | Long Integer |       |         | All    |

| Field Name     | Field Description                    | Required | Type         | Units | Default | Hazard |
|----------------|--------------------------------------|----------|--------------|-------|---------|--------|
| Hispanic       | Population Stating Hispanic          | FALSE    | Long Integer |       |         | All    |
| Pacifilslander | Population Stating Pacific Islander  | FALSE    | Long Integer |       |         | All    |
| OtherRaceOnly  | Population Stating Other Race Only   | FALSE    | Long Integer |       |         | All    |
| TwoOrMoreRaces | Population Stating Two Or More Races | FALSE    | Long Integer |       |         | All    |
| IncLess10      | Income Less than 10K                 | FALSE    | Long Integer |       |         | All    |
| Inc10to20      | Income between 10K and 20K           | FALSE    | Long Integer |       |         | All    |
| Inc20to30      | Income between 20K and 30K           | FALSE    | Long Integer |       |         | All    |
| Inc30to40      | Income between 30K and 40K           | FALSE    | Long Integer |       |         | All    |
| Inc40to50      | Income between 40K and 50K           | FALSE    | Long Integer |       |         | All    |
| Inc50to60      | Income between 50K and 60K           | FALSE    | Long Integer |       |         | All    |
| Inc60to75      | Income between 60K and 75K           | FALSE    | Long Integer |       |         | All    |
| Inc75to100     | Income between 75K and 100K          | FALSE    | Long Integer |       |         | All    |
| IncOver100     | Income over 100K                     | FALSE    | Long Integer |       |         | All    |
| ResidDay       | Population Residing by Day           | FALSE    | Long Integer |       |         | All    |
| ResidNight     | Population Residing by Night         | FALSE    | Long Integer |       |         | All    |
| Hotel          | Population in Hotels                 | FALSE    | Long Integer |       |         | All    |
| Visitor        | Visitor Population                   | FALSE    | Long Integer |       |         | All    |

| Field Name        | Field Description                       | Required | Type         | Units | Default | Hazard |
|-------------------|---|----------|--------------|-------|---------|--------|
| WorkingCom        | Pop Working in Commercial Occup         | FALSE    | Long Integer |       |         | All    |
| WorkingInd        | Pop Working Industrial Occupancies      | FALSE    | Long Integer |       |         | All    |
| Commuting5Pm      | Population Commuting at 5pm             | FALSE    | Long Integer |       |         | All    |
| OwnerSingleUnits  | Owner Occupied Single Family Units      | FALSE    | Long Integer |       |         | All    |
| OwnerMultUnits    | Owner Occupied Multi-Family Units       | FALSE    | Long Integer |       |         | All    |
| OwnerMultStructs  | Owner Occupied Multi-Family Structures  | FALSE    | Long Integer |       |         | All    |
| OnwerMHs          | Owner Occupied Manufactured Housing     | TRUE     | Long Integer |       |         | All    |
| RenterSingleUnits | Renter Occupied Single Family Units     | TRUE     | Long Integer |       |         | All    |
| RenterMultUnits   | Renter Occupied Multi-Family Units      | TRUE     | Long Integer |       |         | All    |
| RenterMultStructs | Renter Occupied Multi-Family Structures | TRUE     | Long Integer |       |         | All    |
| RenterMHs         | Renter Occupied Manufactured Housing    | TRUE     | Long Integer |       |         | All    |
| VacantSingleUnits | Vacant Single Family Units              | TRUE     | Long Integer |       |         | All    |
| VacantMultUnits   | Vacant Multi-Family Units               | TRUE     | Long Integer |       |         | All    |
| VacantMultStructs | Vacant Multi-Family Structures          | TRUE     | Long Integer |       |         | All    |
| VacantMHs         | Vacant Manufactured Housing             | TRUE     | Long Integer |       |         | All    |

| Field Name              | Field Description                   | Required | Type         | Units | Default | Hazard |
|-------------------------|-------------------------------------|----------|--------------|-------|---------|--------|
| BuiltBefore40           | Units Built Before 1940             | TRUE     | Integer      |       |         | All    |
| Built40to49             | Units Built Between 1940 and 1949   | TRUE     | Integer      |       |         | All    |
| Built50to59             | Units Built Between 1950 and 1959   | TRUE     | Integer      |       |         | All    |
| Built60to69             | Units Built Between 1960 and 1969   | TRUE     | Integer      |       |         | All    |
| Built70to79             | Units Built Between 1970 and 1979   | TRUE     | Integer      |       |         | All    |
| Built80to89             | Units Built Between 1980 and 1989   | TRUE     | Integer      |       |         | All    |
| Built90to99             | Units Built Between 1990 and 1999   | TRUE     | Integer      |       |         | All    |
| Built00to09             | Units Built Between 2000 and 2009   | TRUE     | Integer      |       |         | All    |
| Built10to13             | Units Built Between 2010 and 2013   | TRUE     | Integer      |       |         | All    |
| BuiltAfter13            | Units Built After 2013              | TRUE     | Long Integer |       |         | All    |
| MedianYearBuilt         | Median Year Built (Units)           | TRUE     | Integer      |       |         | All    |
| AvgRent                 | Average Cash Rent                   | TRUE     | Long Integer |       |         | All    |
| AvgValue                | Average Home Value                  | TRUE     | Long Integer |       |         | All    |
| SchoolEnrollmentCollege | College and University Enrollment   | FALSE    | Long Integer |       |         | All    |
| SchoolEnrollmentKto12   | School Enrollment up to High School | FALSE    | Long Integer |       |         | All    |

| Field Name  | Field Description  | Required | Type         | Units | Default | Hazard |
|-------------|--|----------|--------------|-------|---------|--------|
| IncomeRatio | The Census block group median income divided by the average median income for the State. | FALSE    | Long Integer |       |         | All    |

## 6.8. Demographics by Census Tract

| Field Name       | Field Description             | Required | Type         | Units | Default | Hazard |
|------------------|-------------------------------|----------|--------------|-------|---------|--------|
| StateAbbr        | State Abbreviation            | FALSE    | Text(2)      |       |         |        |
| Tract            | Census Tract                  | TRUE     | Text(11)     |       |         | All    |
| Population       | Total Census Tract Population | FALSE    | Long Integer |       |         | All    |
| Households       | Total Census Tract Households | FALSE    | Long Integer |       |         | All    |
| GroupQuarters    | Population in Group Quarters  | FALSE    | Long Integer |       |         | All    |
| MaleLess18       | Males less than 18-yrs old    | FALSE    | Long Integer |       |         | All    |
| Male18to64       | Males between 18 and 64       | FALSE    | Long Integer |       |         | All    |
| MaleOver64       | Males over 64-yrs old         | FALSE    | Long Integer |       |         | All    |
| FemaleLess18     | Females less than 18-yrs old  | TRUE     | Long Integer |       |         | All    |
| Female18to64     | Females between 18 and 64     | FALSE    | Long Integer |       |         | All    |
| FemaleOver64     | Females over 64-yrs old       | FALSE    | Long Integer |       |         | All    |
| MalePopulation   | Total Male Population         | FALSE    | Long Integer |       |         | All    |
| FemalePopulation | Total Female Population       | FALSE    | Long Integer |       |         | All    |
| White            | Population Stating White      | FALSE    | Long Integer |       |         | All    |

| Field Name     | Field Description                    | Required | Type         | Units | Default | Hazard |
|----------------|--------------------------------------|----------|--------------|-------|---------|--------|
| Black          | Population Stating Black             | FALSE    | Long Integer |       |         | All    |
| NativeAmerican | Population Stating Native American   | FALSE    | Long Integer |       |         | All    |
| Asian          | Population Stating Asian             | FALSE    | Long Integer |       |         | All    |
| PacifIslander  | Population Stating Pacific Islander  | FALSE    | Long Integer |       |         | All    |
| OtherRaceOnly  | Population Stating Other Race Only   | FALSE    | Long Integer |       |         | All    |
| TwoOrMoreRaces | Population Stating Two Or More Races | FALSE    | Double       |       |         | All    |
| Hispanic       | Population Stating Hispanic          | FALSE    | Long Integer |       |         | All    |
| IncLess10      | Income Less than 10K                 | FALSE    | Long Integer |       |         | All    |
| Inc10to20      | Income between 10K and 20K           | FALSE    | Long Integer |       |         | All    |
| Inc20to30      | Income between 20K and 30K           | FALSE    | Long Integer |       |         | All    |
| Inc30to40      | Income between 30K and 40K           | FALSE    | Long Integer |       |         | All    |
| Inc40to50      | Income between 40K and 50K           | FALSE    | Long Integer |       |         | All    |
| Inc50to60      | Income between 50K and 60K           | FALSE    | Long Integer |       |         | All    |
| Inc60to75      | Income between 60K and 75K           | FALSE    | Long Integer |       |         | All    |
| Inc75to100     | Income between 75K and 100K          | FALSE    | Long Integer |       |         | All    |
| IncOver100     | Income over 100K                     | FALSE    | Long Integer |       |         | All    |
| ResidDay       | Population Residing by Day           | FALSE    | Long Integer |       |         | All    |

| Field Name        | Field Description                       | Required | Type         | Units | Default | Hazard |
|-------------------|---|----------|--------------|-------|---------|--------|
| ResidNight        | Population Residing by Night            | FALSE    | Long Integer |       |         | All    |
| Hotel             | Population in Hotels                    | FALSE    | Long Integer |       |         | All    |
| Visitor           | Visitor Population                      | FALSE    | Long Integer |       |         | All    |
| WorkingCom        | Pop Working in Commercial Occup         | FALSE    | Long Integer |       |         | All    |
| WorkingInd        | Pop Working Industrial Occupancies      | FALSE    | Long Integer |       |         | All    |
| Commuting5Pm      | Population Commuting at 5pm             | FALSE    | Long Integer |       |         | All    |
| OwnerSingleUnits  | Owner Occupied Single Family Units      | FALSE    | Long Integer |       |         | All    |
| OwnerMultUnits    | Owner Occupied Multi-Family Units       | FALSE    | Long Integer |       |         | All    |
| OwnerMultStructs  | Owner Occupied Multi-Family Structures  | FALSE    | Long Integer |       |         | All    |
| OnwerMHs          | Owner Occupied Manufactured Housing     | TRUE     | Long Integer |       |         | All    |
| RenterSingleUnits | Renter Occupied Single Family Units     | TRUE     | Long Integer |       |         | All    |
| RenterMultUnits   | Renter Occupied Multi-Family Units      | TRUE     | Long Integer |       |         | All    |
| RenterMultStructs | Renter Occupied Multi-Family Structures | TRUE     | Long Integer |       |         | All    |
| RenterMHs         | Renter Occupied Manufactured Housing    | TRUE     | Long Integer |       |         | All    |
| VacantSingleUnits | Vacant Single Family Units              | TRUE     | Long Integer |       |         | All    |
| VacantMultUnits   | Vacant Multi-Family Units               | TRUE     | Long Integer |       |         | All    |

| Field Name              | Field Description                 | Required | Type         | Units | Default | Hazard |
|-------------------------|-----------------------------------|----------|--------------|-------|---------|--------|
| VacantMultStructs       | Vacant Multi-Family Structures    | TRUE     | Long Integer |       |         | All    |
| VacantMHs               | Vacant Manufactured Housing       | TRUE     | Long Integer |       |         | All    |
| BuiltBefore40           | Units Built Before 1940           | TRUE     | Integer      |       |         | All    |
| Built40to49             | Units Built Between 1940 and 1949 | TRUE     | Integer      |       |         | All    |
| Built50to59             | Units Built Between 1950 and 1959 | TRUE     | Integer      |       |         | All    |
| Built60to69             | Units Built Between 1960 and 1969 | TRUE     | Integer      |       |         | All    |
| Built70to79             | Units Built Between 1970 and 1979 | TRUE     | Integer      |       |         | All    |
| Built80to89             | Units Built Between 1980 and 1989 | TRUE     | Integer      |       |         | All    |
| Built90to99             | Units Built Between 1990 and 1999 | TRUE     | Integer      |       |         | All    |
| Built00to09             | Units Built Between 2000 and 2009 | TRUE     | Integer      |       |         | All    |
| Built10to13             | Units Built Between 2010 and 2013 | TRUE     | Integer      |       |         | All    |
| BuiltAfter13            | Units Built After 2013            | TRUE     | Long Integer |       |         | All    |
| MedianYearBuilt         | Median Year Built (Units)         | TRUE     | Integer      |       |         | All    |
| AvgRent                 | Average Cash Rent                 | TRUE     | Long Integer |       |         | All    |
| AvgValue                | Average Home Value                | TRUE     | Long Integer |       |         | All    |
| SchoolEnrollmentCollege | College and University Enrollment | FALSE    | Long Integer |       |         | All    |

| Field Name            | Field Description                   | Required | Type         | Units | Default | Hazard |
|-----------------------|-------------------------------------|----------|--------------|-------|---------|--------|
| SchoolEnrollmentKto12 | School Enrollment up to High School | FALSE    | Long Integer |       |         | All    |

## 6.9. Square Footage by Occupancy at Census Block Level

| Field Name  | Field Description                      | Required | Type     | Units       | Default | Hazard |
|-------------|--|----------|----------|-------------|---------|--------|
| CensusBlock | Census Block                           | TRUE     | Text(15) | Text        |         | All    |
| AGR1F       | AGR1 - Agriculture                     | FALSE    | Single   | Thous.sq ft |         | All    |
| COM10F      | COM10 - Parking                        | FALSE    | Single   | Thous.sq ft |         | All    |
| COM1F       | COM1 - Retail Trade                    | FALSE    | Single   | Thous.sq ft |         | All    |
| COM2F       | COM2 - Wholesale Trade                 | FALSE    | Single   | Thous.sq ft |         | All    |
| COM3F       | COM3 - Personal and Repair Services    | FALSE    | Single   | Thous.sq ft |         | All    |
| COM4F       | COM4 - Professional/Technical Services | FALSE    | Single   | Thous.sq ft |         | All    |
| COM5F       | COM5 - Banks                           | FALSE    | Single   | Thous.sq ft |         | All    |
| COM6F       | COM6 - Hospital                        | FALSE    | Single   | Thous.sq ft |         | All    |
| COM7F       | COM7 - Medical Office/Clinic           | FALSE    | Single   | Thous.sq ft |         | All    |
| COM8F       | COM8 - Entertainment & Recreation      | FALSE    | Single   | Thous.sq ft |         | All    |
| COM9F       | COM9 - Theaters                        | FALSE    | Single   | Thous.sq ft |         | All    |
| EDU1F       | EDU1 - Grade Schools                   | FALSE    | Single   | Thous.sq ft |         | All    |
| EDU2F       | EDU2 - Colleges/Universities           | FALSE    | Single   | Thous.sq ft |         | All    |

| Field Name | Field Description                         | Required | Type   | Units       | Default | Hazard |
|------------|---|----------|--------|-------------|---------|--------|
| GOV1F      | GOV1 - General Services                   | FALSE    | Single | Thous.sq ft |         | All    |
| GOV2F      | GOV2 - Emergency Response                 | FALSE    | Single | Thous.sq ft |         | All    |
| IND1F      | IND1 - Heavy                              | FALSE    | Single | Thous.sq ft |         | All    |
| IND2F      | IND2 - Light                              | FALSE    | Single | Thous.sq ft |         | All    |
| IND3F      | IND3 - Food/Drugs/Chemicals               | FALSE    | Single | Thous.sq ft |         | All    |
| IND4F      | IND4 - Metals/Minerals Processing         | FALSE    | Single | Thous.sq ft |         | All    |
| IND5F      | IND5 - High Technology                    | FALSE    | Single | Thous.sq ft |         | All    |
| IND6F      | IND6 - Construction                       | FALSE    | Single | Thous.sq ft |         | All    |
| REL1F      | REL1 - Churches and Other Non-profit Org. | FALSE    | Single | Thous.sq ft |         | All    |
| RES1F      | RES1 - Single Family Dwelling             | FALSE    | Single | Thous.sq ft |         | All    |
| RES2F      | RES2 – Manufactured Housing               | FALSE    | Single | Thous.sq ft |         | All    |
| RES3AF     | RES3A - Duplex                            | FALSE    | Single | Thous.sq ft |         | All    |
| RES3BF     | RES3B - Triplex / Quads                   | FALSE    | Single | Thous.sq ft |         | All    |
| RES3CF     | RES3C - Multi-dwellings (5 to 9 units)    | FALSE    | Single | Thous.sq ft |         | All    |
| RES3DF     | RES3D - Multi-dwellings (10 to 19 units)  | FALSE    | Single | Thous.sq ft |         | All    |
| RES3EF     | RES3E - Multi-dwellings (20 to 49 units)  | FALSE    | Single | Thous.sq ft |         | All    |
| RES3FF     | RES3F - Multi-dwellings (50+ units)       | FALSE    | Single | Thous.sq ft |         | All    |

| Field Name | Field Description              | Required | Type   | Units       | Default | Hazard |
|------------|--------------------------------|----------|--------|-------------|---------|--------|
| RES4F      | RES4 - Temporary Lodging       | FALSE    | Single | Thous.sq ft |         | All    |
| RES5F      | RES5 - Institutional Dormitory | FALSE    | Single | Thous.sq ft |         | All    |
| RES6F      | RES6 - Nursing Home            | FALSE    | Single | Thous.sq ft |         | All    |

## 6.10. Square Footage by Occupancy at Census Tract Level

| Field Name | Field Description                      | Required | Type     | Units       | Default | Hazard |
|------------|--|----------|----------|-------------|---------|--------|
| Tract      | Census Tract                           | TRUE     | Text(11) | Text        |         | All    |
| AGR1F      | AGR1 - Agriculture                     | FALSE    | Single   | Thous.sq ft |         | All    |
| COM10F     | COM10 - Parking                        | FALSE    | Single   | Thous.sq ft |         | All    |
| COM1F      | COM1 - Retail Trade                    | FALSE    | Single   | Thous.sq ft |         | All    |
| COM2F      | COM2 - Wholesale Trade                 | FALSE    | Single   | Thous.sq ft |         | All    |
| COM3F      | COM3 - Personal and Repair Services    | FALSE    | Single   | Thous.sq ft |         | All    |
| COM4F      | COM4 - Professional/Technical Services | FALSE    | Single   | Thous.sq ft |         | All    |
| COM5F      | COM5 - Banks                           | FALSE    | Single   | Thous.sq ft |         | All    |
| COM6F      | COM6 - Hospital                        | FALSE    | Single   | Thous.sq ft |         | All    |
| COM7F      | COM7 - Medical Office/Clinic           | FALSE    | Single   | Thous.sq ft |         | All    |
| COM8F      | COM8 - Entertainment & Recreation      | FALSE    | Single   | Thous.sq ft |         | All    |
| COM9F      | COM9 - Theaters                        | FALSE    | Single   | Thous.sq ft |         | All    |

| <b>Field Name</b> | <b>Field Description</b>                  | <b>Required</b> | <b>Type</b> | <b>Units</b> | <b>Default</b> | <b>Hazard</b> |
|-------------------|---|-----------------|-------------|--------------|----------------|---------------|
| EDU1F             | EDU1 - Grade Schools                      | FALSE           | Single      | Thous.sq ft  |                | All           |
| EDU2F             | EDU2 - Colleges/Universities              | FALSE           | Single      | Thous.sq ft  |                | All           |
| GOV1F             | GOV1 - General Services                   | FALSE           | Single      | Thous.sq ft  |                | All           |
| GOV2F             | GOV2 - Emergency Response                 | FALSE           | Single      | Thous.sq ft  |                | All           |
| IND1F             | IND1 - Heavy                              | FALSE           | Single      | Thous.sq ft  |                | All           |
| IND2F             | IND2 - Light                              | FALSE           | Single      | Thous.sq ft  |                | All           |
| IND3F             | IND3 - Food/Drugs/Chemicals               | FALSE           | Single      | Thous.sq ft  |                | All           |
| IND4F             | IND4 - Metals/Minerals Processing         | FALSE           | Single      | Thous.sq ft  |                | All           |
| IND5F             | IND5 - High Technology                    | FALSE           | Single      | Thous.sq ft  |                | All           |
| IND6F             | IND6 - Construction                       | FALSE           | Single      | Thous.sq ft  |                | All           |
| REL1F             | REL1 - Churches and Other Non-profit Org. | FALSE           | Single      | Thous.sq ft  |                | All           |
| RES1F             | RES1 - Single Family Dwelling             | FALSE           | Single      | Thous.sq ft  |                | All           |
| RES2F             | RES2 - Manufactured Housing               | FALSE           | Single      | Thous.sq ft  |                | All           |
| RES3AF            | RES3A - Duplex                            | FALSE           | Single      | Thous.sq ft  |                | All           |
| RES3BF            | RES3B - Triplex / Quads                   | FALSE           | Single      | Thous.sq ft  |                | All           |
| RES3CF            | RES3C - Multi-dwellings (5 to 9 units)    | FALSE           | Single      | Thous.sq ft  |                | All           |
| RES3DF            | RES3D - Multi-dwellings (10 to 19 units)  | FALSE           | Single      | Thous.sq ft  |                | All           |

| Field Name | Field Description                        | Required | Type   | Units       | Default | Hazard |
|------------|--|----------|--------|-------------|---------|--------|
| RES3EF     | RES3E - Multi-dwellings (20 to 49 units) | FALSE    | Single | Thous.sq ft |         | All    |
| RES3FF     | RES3F - Multi-dwellings (50+ units)      | FALSE    | Single | Thous.sq ft |         | All    |
| RES4F      | RES4 - Temporary Lodging                 | FALSE    | Single | Thous.sq ft |         | All    |
| RES5F      | RES5 - Institutional Dormitory           | FALSE    | Single | Thous.sq ft |         | All    |
| RES6F      | RES6 - Nursing Home                      | FALSE    | Single | Thous.sq ft |         | All    |

# Appendix A – General/All-Hazard Tables

**Table A.1 Building Occupancy Classes**

| Label | Occupancy Class  | Example                                  |
|-------|--|--|
|       | Residential  |  |
| RES1  | Single Family Dwelling   | House                                    |
| RES2  | Mobile Home  | Mobile Home                              |
| RES3  | Multi Family Dwelling<br>RES3A Duplex<br>RES3B 3-4 Units<br>RES3C 5-9 Units<br>RES3D 10-19 Units<br>RES3E 20-49 Units<br>RES3F 50+ Units | Apartment/Condominium                    |
| RES4  | Temporary Lodging  | Hotel/Motel                              |
| RES5  | Institutional Dormitory  | Group Housing (military, college), Jails |
| RES6  | Nursing Home   |  |
|       | Commercial   |  |
| *COM1 | Retail Trade   | Store                                    |
| COM2  | Wholesale Trade  | Warehouse                                |
| COM3  | Personal and Repair Services   | Service Station/Shop                     |
| COM4  | Professional/Technical Services  | Offices                                  |
| COM5  | Banks  |  |
| COM6  | Hospital   |  |
| COM7  | Medical Office/Clinic  |  |
| COM8  | Entertainment & Recreation   | Restaurants/Bars                         |
| COM9  | Theaters   | Theaters                                 |

| <b>Label</b> | <b>Occupancy Class</b>     | <b>Example</b>                 |
|--------------|----------------------------|--------------------------------|
| COM10        | Parking                    | Garages                        |
|              | Industrial                 |                                |
| IND1         | Heavy                      | Factory                        |
| IND2         | Light                      | Factory                        |
| IND3         | Food/Drugs/Chemicals       | Factory                        |
| IND4         | Metals/Minerals Processing | Factory                        |
| IND5         | High Technology            | Factory                        |
| IND6         | Construction               | Office                         |
|              | Agriculture                |                                |
| AGR1         | Agriculture                |                                |
|              | Religion/Non/Profit        |                                |
| REL1         | Church/Non-Profit          |                                |
|              | Government                 |                                |
| GOV1         | General Services           | Office                         |
| GOV2         | Emergency Response         | Police/Fire Station/EOC        |
|              | Education                  |                                |
| EDU1         | Grade Schools              |                                |
| EDU2         | Colleges/Universities      | Does not include group housing |

**Table A.2 Essential Facilities Classification**

| <b>Label</b>            | <b>Occupancy Class</b> | <b>Example</b>                      |
|-------------------------|------------------------|-------------------------------------|
| Medical Care Facilities |                        |                                     |
| EFHS                    | Small Hospital         | Hospital with less than 50 Beds     |
| EFHM                    | Medium Hospital        | Hospital with beds between 50 & 150 |
| EFHL                    | Large Hospital         | Hospital with greater than 150 Beds |
| EFMC                    | Medical Clinics        | Clinics, Labs, Blood Banks          |
| Emergency Response      |                        |                                     |

| <b>Label</b> | <b>Occupancy Class</b>      | <b>Example</b>        |
|--------------|-----------------------------|-----------------------|
| EFFS         | Fire Station                |                       |
| EFPS         | Police Station              |                       |
| EFEO         | Emergency Operation Centers |                       |
| Schools      |                             |                       |
| EFS1         | Grade Schools               | Primary/ High Schools |
| EFS2         | Colleges/Universities       |                       |

**Table A.3 High Potential Loss Facilities Classification**

| <b>Label</b>            | <b>Description</b>     |
|-------------------------|------------------------|
| Military Installations: |                        |
| HPMI                    | Military Installations |

**Table A.4 Highway System Classification**

| <b>Label</b>    | <b>Description</b>   |
|-----------------|--|
| Highway Bridges |  |
| HWB1            | Major Bridge - Length > 150m (Conventional Design)   |
| HWB2            | Major Bridge - Length > 150m (Seismic Design)  |
| HWB3            | Single Span – (Not HWB1 or HWB2) (Conventional Design)                                     |
| HWB4            | Single Span – (Not HWB1 or HWB2) (Seismic Design)  |
| HWB5            | Concrete, Multi-Column Bent, Simple Support (Conventional Design), Non-California (Non-CA) |
| HWB6            | Concrete, Multi-Column Bent, Simple Support (Conventional Design), California (CA)         |
| HWB7            | Concrete, Multi-Column Bent, Simple Support (Seismic Design)                               |
| HWB8            | Continuous Concrete, Single Column, Box Girder (Conventional Design)                       |
| HWB9            | Continuous Concrete, Single Column, Box Girder (Seismic Design)                            |
| HWB10           | Continuous Concrete, (Not HWB8 or HWB9) (Conventional Design)                              |
| HWB11           | Continuous Concrete, (Not HWB8 or HWB9) (Seismic Design)                                   |

| <b>Label</b>     | <b>Description</b>   |
|------------------|--|
| HWB12            | Steel, Multi-Column Bent, Simple Support (Conventional Design), Non-California (Non-CA)  |
| HWB13            | Steel, Multi-Column Bent, Simple Support (Conventional Design), California (CA)          |
| HWB14            | Steel, Multi-Column Bent, Simple Support (Seismic Design)                                |
| HWB15            | Continuous Steel (Conventional Design)   |
| HWB16            | Continuous Steel (Seismic Design)  |
| HWB17            | PS Concrete Multi-Column Bent, Simple Support - (Conventional Design), Non-California    |
| HWB18            | PS Concrete, Multi-Column Bent, Simple Support (Conventional Design), California (CA)    |
| HWB19            | PS Concrete, Multi-Column Bent, Simple Support (Seismic Design)                          |
| HWB20            | PS Concrete, Single Column, Box Girder (Conventional Design)                             |
| HWB21            | PS Concrete, Single Column, Box Girder (Seismic Design)                                  |
| HWB22            | Continuous Concrete, (Not HWB20/HWB21) (Conventional Design)                             |
| HWB23            | Continuous Concrete, (Not HWB20/HWB21) (Seismic Design)                                  |
| HWB24            | Same definition as HWB12 except that the bridge length is less than 20 meters            |
| HWB25            | Same definition as HWB13 except that the bridge length is less than 20 meters            |
| HWB26            | Same definition as HWB15 except that the bridge length is less than 20 meters and Non-CA |
| HWB27            | Same definition as HWB15 except that the bridge length is less than 20 meters and in CA  |
| HWB28            | All other bridges that are not classified (including wooden bridges)                     |
| Highway Tunnels: |  |
| HTU1             | Highway Bored/Drilled Tunnel   |
| HTU2             | Highway Cut and Cover Tunnel   |

**Table A.5 Railway System Classification**

| <b>Label</b>     | <b>Description</b> |
|------------------|--------------------|
| Railway Bridges: |                    |

| <b>Label</b>     | <b>Description</b>  |
|------------------|---|
| RLB1             | Steel, Multi-Column Bent, Simple Support (Conventional Design), Non-California (Non-    |
| RLB2             | Steel, Multi-Column Bent, Simple Support (Conventional Design), California (CA)         |
| RLB3             | Steel, Multi-Column Bent, Simple Support (Seismic Design)                               |
| RLB4             | Continuous Steel (Conventional Design)  |
| RLB5             | Continuous Steel (Seismic Design)   |
| RLB6             | Same definition as HWB1 except that the bridge length is less than 20 meters            |
| RLB7             | Same definition as HWB2 except that the bridge length is less than 20 meters            |
| RLB8             | Same definition as HWB4 except that the bridge length is less than 20 meters and Non-   |
| RLB9             | CSame definition as HWB5 except that the bridge length is less than 20 meters and in CA |
| RLB10            | All other bridges that are not classified<br>Railway Urban Station                      |
| RST              | Rail Urban Station (with all building type options enabled)                             |
| Railway Tunnels: |   |
| RTU1             | Rail Bored/Drilled Tunnel   |
| RTU2             | Rail Cut and Cover Tunnel   |
| Railway Facility |   |
| RFF              | Rail Fuel Facility (different combinations for with or without anchored components)     |
| RDF              | Rail Dispatch Facility (different combinations for with or without anchored components) |
| RMF              | Rail Maintenance Facility (with all building type options enabled)                      |

**Table A.6 Light Rail System Classification**

| <b>Label</b>        | <b>Description</b>  |
|---------------------|---|
| Light Rail Bridges: |   |
| LRB1                | Steel, Multi-Column Bent, Simple Support (Conventional Design), Non-California  |
| LRB2                | Steel, Multi-Column Bent, Simple Support (Conventional Design), California (CA) |

| <b>Label</b>               | <b>Description</b>   |
|----------------------------|--|
| LRB3                       | Steel, Multi-Column Bent, Simple Support (Seismic Design)                          |
| LRB4                       | Continuous Steel (Conventional Design)   |
| LRB5                       | Continuous Steel (Seismic Design)  |
| LRB6                       | Same definition as HWB1 except that the bridge length is less than 20 meters       |
| LRB7                       | Same definition as HWB2 except that the bridge length is less than 20 meters       |
| LRB8                       | Same definition as HWB4 except that the bridge length is less than 20 meters and   |
| LRB9                       | Same definition as HWB5 except that the bridge length is less than 20 meters and   |
| LRB10                      | All other bridges that are not classified  |
| <b>Light Rail Tunnels</b>  |  |
| LTU1                       | Light Rail Bored/Drilled Tunnel  |
| LTU2                       | Light Rail Cut and Cover Tunnel  |
| <b>Light Rail Facility</b> |  |
| LDC1                       | Light Rail DC Substation w/ Anchored Sub-Components                                |
| LDC2                       | Light Rail DC Substation w/ Unanchored Sub-Components                              |
| LDF                        | Light Rail Dispatch Facility (different combinations for with or without anchored) |
| LMF                        | Maintenance Facility (with all building type options enabled)                      |

**Table A.7 Bus System Classification**

| <b>Label</b> | <b>Description</b>  |
|--------------|---|
|              | Bus Urban Station   |
| BPT          | Bus Urban Station (with all building type options enabled)                  |
|              | Bus Fuel Facility   |
| BFF          | Bus Fuel Facility (different combinations for with or without anchored)     |
|              | Bus Dispatch Facility   |
| BDF          | Bus Dispatch Facility (different combinations for with or without anchored) |
|              | Bus Maintenance Facility  |
| BMF          | Bus Maintenance Facilities (with all building type options enabled)         |

**Table A.8 Port and Harbor System Classification**

| <b>Label</b> | <b>Description</b>  |
|--------------|---|
|              | Waterfront Structures   |
| PWS          | Waterfront Structures   |
|              | Cranes/Cargo Handling Equipment   |
| PEQ1         | Stationary Port Handling Equipment                                      |
| PEQ2         | Rail Mounted Port Handling Equipment                                    |
|              | Warehouses  |
| PWH          | Port Warehouses (with all building type options enabled)                |
|              | Fuel Facility   |
| PFF          | Port Fuel Facility (different combinations for with or without anchored |

**Table A.9 Ferry System Classification**

| <b>Label</b> | <b>Description</b>   |
|--------------|--|
|              | Water Front Structures   |
| FWS          | Ferry Waterfront Structures  |
|              | Ferry Passenger Terminals  |
| FPT          | Passenger Terminals (with all building type options enabled)             |
|              | Ferry Fuel Facility  |
| FFF          | Ferry Fuel Facility (different combinations for with or without anchored |
|              | Ferry Dispatch Facility  |
| FDF          | Ferry Dispatch Facility (different combinations for with or without      |
|              | Ferry Maintenance Facility   |
| FMF          | Piers and Dock Facilities (with all building type options enabled)       |

**Table A.10 Airport System Classification**

| <b>Label</b>           | <b>Description</b> |
|------------------------|--------------------|
| Airport Control Towers |                    |

| <b>Label</b>                          | <b>Description</b>   |
|---------------------------------------|--|
| ACT                                   | Airport Control Tower (with all building type options enabled)                         |
| Airport Terminal Buildings            |  |
| ATB                                   | Airport Terminal Building (with all building type options enabled)                     |
| Airport Parking Structures            |  |
| APS                                   | Airport Parking Structure (with all building type options enabled)                     |
| Fuel Facilities                       |  |
| AFF                                   | Airport Fuel Facility (different combinations for with or without anchored components) |
| Airport Maintenance & Hangar Facility |  |
| AMF                                   | Airport Maintenance & Hangar Facility (with all building type options enabled)         |
| ARW                                   | Airport Runway   |
| Airport Facilities - Others           |  |
| AFO                                   | Gliderport, Seaport, Stolport, Ultralight or Balloonport Facilities                    |
| AFH                                   | Heliport Facilities  |

**Table A.11 Potable Water System Classification**

| <b>Label</b>   | <b>Description</b>  |
|----------------|---|
| Pumping Plants |   |
| PPPL           | Large Pumping Plant ( > 50 MGD ) [different combinations for with or without anchored components] |
| PPPM           | Medium Pumping Plant ( 10 to 50 MGD ) [different combinations for with or without anchored        |
| PPPS           | Small Pumping Plant ( < 10 MGD ) [different combinations for with or without anchored components] |
| Wells          |   |
| PWE            | Wells   |
|                | Water Storage Tanks (Typically, 0.5 MGD to 2 MGD)   |
| PSTAS          | Above Ground Steel Tank   |

| <b>Label</b>           | <b>Description</b>   |
|------------------------|--|
| PSTBC                  | Buried Concrete Tank   |
| PSTGC                  | On Ground Concrete Tank  |
| PSTGS                  | On Ground Steel Tank   |
| PSTGW                  | On Ground Wood Tank  |
| Water Treatment Plants |  |
| PWTL                   | Large WTP ( > 200 MGD ) [different combinations for with or without anchored components]   |
| PWTM                   | Medium WTP ( 50-200 MGD ) [different combinations for with or without anchored components] |
| PWTS                   | Small WTP ( < 50 MGD ) [different combinations for with or without anchored components]    |

**Table A.12 Waste Water System Classification**

| <b>Label</b>                 | <b>Description</b>   |
|------------------------------|--|
| Waste Water Treatment Plants |  |
| WWTL                         | Large WWTP ( > 200 MGD ) [different combinations for with or without anchored components]                |
| WWTM                         | Medium WWTP ( 50-200 MGD ) [different combinations for with or without anchored components]              |
| WWTS                         | Small WWTP ( < 50 MGD ) [different combinations for with or without anchored components]                 |
| Lift Stations                |  |
| WLSL                         | Large Lift Stations ( > 50 MGD ) [different combinations for with or without anchored components]        |
| WLSM                         | Medium Lift Stations ( 10 MGD - 50 MGD) [different combinations for with or without anchored components] |
| WLSS                         | Small Lift Stations ( < 10 MGD ) [different combinations for with or without anchored components]        |

**Table A.13 Oil System Classification**

| <b>Label</b> | <b>Description</b>  |
|--------------|---|
| Refineries   |   |
| ORFL         | Large Refinery ( > 500,000 lb./day ) [different combinations for with or without anchored components] |

| <b>Label</b>   | <b>Description</b>  |
|----------------|---|
| ORFM           | Medium Refinery ( 100,000 - 500,000 lb./ day) [different combinations for with or without anchored] |
| ORFS           | Small Refinery ( < 100,000 lb./day ) [different combinations for with or without anchored]          |
| Pumping Plants |   |
| OPP            | Pumping Plant [different combinations for with or without anchored components]                      |
| Tank Farms     |   |
| OTF            | Tank Farms with Anchored Tanks [different combinations for with or without anchored]                |

**Table A.14 Natural Gas System Classification**

| <b>Label</b>        | <b>Description</b>  |
|---------------------|---|
| Compressor Stations |   |
| NGC                 | Compressor Stations [different combinations for with or without anchored] |

**Table A.15 Electric Power System Classification**

| <b>Label</b>             | <b>Description</b>  |
|--------------------------|---|
| Transmission Substations |   |
| ESSL                     | Low Voltage (115 KV) Substation [different combinations for with or without anchored components]  |
| ESSM                     | Medium Voltage (230 KV) Substation [different combinations for with or without anchored]          |
| ESSH                     | High Voltage (500 KV) Substation [different combinations for with or without anchored components] |
| Distribution Circuits    |   |
| EDC                      | Distribution Circuits (either Seismically Designed Components or Standard Components)             |
| Generation Plants        |   |
| EPPL                     | Large Power Plants ( > 500 MW ) [different combinations for with or without anchored components]  |

| Label | Description  |
|-------|--|
| EPPM  | Medium Power Plants ( 100 - 500 MW ) [different combinations for with or without anchored]       |
| EPPS  | Small Power Plants ( < 100 MW ) [different combinations for with or without anchored components] |

**Table A.16 Communication Classification**

| Label                    | Description  |
|--------------------------|--|
| Central Offices          |  |
| CCO                      | Central Offices (different combinations for with or without anchored components and/or with or without backup power) |
| Stations or Transmitters |  |
| CBR                      | AM or FM radio stations or transmitters  |
| CBT                      | TV stations or transmitters  |
| CBW                      | Weather stations or transmitters   |
| CBO                      | Other stations or transmitters   |

# Appendix B

**Table B.1 Site (Soil) Classes**

| Site Class | Site Class Description                    |
|------------|---|
| A          | Hard Rock                                 |
| B          | Rock                                      |
| C          | Very Dense Soil and Soft Rock             |
| D          | Stiff Soils                               |
| E          | Soft Soils                                |
| F          | Soils Requiring Site Specific Evaluations |

**Table B.2 Structural Building Classifications**

| No. | Label | Description   | Height Range | Typical |    |     |
|-----|-------|---|--------------|---------|----|-----|
| 1   | W1    | Wood, Light Frame (less than 5,000 sq.ft.)          | Name         | 1 - 2   | 1  | 14  |
| 2   | W2    | Wood, Greater than 5,000 sq. ft.                    | All          | 2       | 24 |     |
| 3   | S1L   | Steel Moment Frame                                  | Low-Rise     | 1 - 3   | 2  | 24  |
| 4   | S1M   |   | Mid-Rise     | 4 - 7   | 5  | 60  |
| 5   | S1H   |   | High-Rise    | 8+      | 13 | 156 |
| 6   | S2L   | Steel Braced Frame                                  | Low-Rise     | 1 - 3   | 2  | 24  |
| 7   | S2M   |   | Mid-Rise     | 4 - 7   | 5  | 60  |
| 8   | S2H   |   | High-Rise    | 8+      | 13 | 156 |
| 9   | S3    | Steel Light Frame                                   | All          | 1       | 15 |     |
| 10  | S4L   | Steel Frame with Cast-in-Place Concrete Shear Walls | Low-Rise     | 1 - 3   | 2  | 24  |
| 11  | S4M   |   | Mid-Rise     | 4 - 7   | 5  | 60  |
| 12  | S4H   |   | High-Rise    | 8+      | 13 | 156 |

| <b>No.</b> | <b>Label</b> | <b>Description</b>   | <b>Height Range</b> |          | <b>Typical</b> |    |     |
|------------|--------------|--|---------------------|----------|----------------|----|-----|
|            |              |  | Low-Rise            | Mid-Rise | High-Rise      | 2  | 24  |
| 13         | S5L          | Steel Frame with Unreinforced Masonry Infill Walls                   | Low-Rise            | 1 - 3    | 2              | 2  | 24  |
| 14         | S5M          |  | Mid-Rise            | 4 - 7    | 5              | 5  | 60  |
| 15         | S5H          |  | High-Rise           | 8+       | 13             | 13 | 156 |
| 16         | C1L          | Concrete Moment Frame  | Low-Rise            | 1 - 3    | 2              | 2  | 20  |
| 17         | C1M          |  | Mid-Rise            | 4 - 7    | 5              | 5  | 50  |
| 18         | C1H          |  | High-Rise           | 8+       | 12             | 12 | 120 |
| 19         | C2L          | Concrete Shear Walls   | Low-Rise            | 1 - 3    | 2              | 2  | 20  |
| 20         | C2M          |  | Mid-Rise            | 4 - 7    | 5              | 5  | 50  |
| 21         | C2H          |  | High-Rise           | 8+       | 12             | 12 | 120 |
| 22         | C3L          | Concrete Frame with Unreinforced Masonry Infill Walls                | Low-Rise            | 1 - 3    | 2              | 2  | 20  |
| 23         | C3M          |  | Mid-Rise            | 4 - 7    | 5              | 5  | 50  |
| 24         | C3H          |  | High-Rise           | 8+       | 12             | 12 | 120 |
| 25         | PC1          | Precast Concrete Tilt-Up Walls                                       |                     | All      | 1              | 1  | 15  |
| 26         | PC2L         | Precast Concrete Frames with Concrete Shear Walls                    | Low-Rise            | 1 - 3    | 2              | 2  | 20  |
| 27         | PC2M         |  | Mid-Rise            | 4 - 7    | 5              | 5  | 50  |
| 28         | PC2H         |  | High-Rise           | 8+       | 12             | 12 | 120 |
| 29         | RM1L         | Reinforced Masonry Bearing Wall s with Wood or Metal Deck Diaphragms | Low-Rise            | 1-3      | 2              | 2  | 20  |
| 30         | RM2M         |  | Mid-Rise            | 4+       | 5              | 5  | 50  |
| 31         | RM2L         | Reinforced Masonry Bearing Wall s with Precast Concrete Diaphragms   | Low-Rise            | 1 - 3    | 2              | 2  | 20  |
| 32         | RM2M         |  | Mid-Rise            | 4 - 7    | 5              | 5  | 50  |
| 33         | RM2H         |  | High-Rise           | 8+       | 12             | 12 | 120 |
| 34         | URML         | Unreinforced Masonry Bearing Walls                                   | Low-Rise            | 1 - 2    | 1              | 1  | 15  |
| 35         | URMM         |  | Mid-Rise            | 3+       | 3              | 3  | 35  |
| 36         | MH           | Mobile Homes   |                     | All      | 1              | 1  | 10  |

**Table B.3 Earthquake Foundation Type**

| Label | Description           |
|-------|-----------------------|
| 0     | Unknown               |
| 1     | Slab                  |
| 2     | Perimeter (shallow)   |
| 3     | Combined Footing      |
| 4     | Single column footing |
| 5     | Pile                  |
| 6     | Drilled pier          |
| 7     | Elevated pier         |
| 8     | Caisson               |
| 9     | None                  |

**Table B.4 Landslide Susceptibility Category**

| Label | Description          |
|-------|----------------------|
| 0     | None                 |
| 1     | Category I - Minimal |
| 2     | Category II          |
| 3     | Category III - Low   |
| 4     | Category IV - Medium |
| 5     | Category V           |
| 6     | Category VI          |
| 7     | Category VII         |
| 8     | Category VIII        |
| 9     | Category IX          |
| 90    | Category X - High    |

**Table B.5 Liquefaction Susceptibility Category**

| Label | Description |
|-------|-------------|
| 0     | Unknown     |
| 1     | None        |
| 2     | Very Low    |
| 3     | Low         |
| 4     | Moderate    |
| 5     | High        |
| 6     | Very High   |

**Table B.6 Earthquake Design level**

| Label | Description             |
|-------|-------------------------|
| HC    | High – Code             |
| MC    | Moderate - Code         |
| LC    | Low – Code              |
| PC    | Pre – Code              |
| HS    | Special High – Code     |
| MS    | Special Moderate – Code |
| LS    | Special Low – Code      |

**Table B.7 Anchor**

| Label | Description                   |
|-------|-------------------------------|
| NULL  | Unknown                       |
| 1     | The equipment is anchored     |
| 0     | The equipment is not anchored |

**Table B.8 Building-Specific Data Earthquake Building Classifications**

| Label | Description   |
|-------|---|
| W     | Wood  |
| W1    | Wood, Light Frame ( $\leq$ 5,000 sq.ft.)              |
| W2    | Wood, Greater than 5,000 sq. ft.                      |
| S     | Steel   |
| S1    | Steel Moment Frame                                    |
| S2    | Steel Braced Frame                                    |
| S3    | Steel Light Frame                                     |
| S4    | Steel Frame with Cast-in-Place Concrete Shear Walls   |
| S5    | Steel Frame with Unreinforced Masonry Infill Walls    |
| C     | Concrete  |
| C1    | Concrete Moment Frame                                 |
| C2    | Concrete Shear Walls                                  |
| C3    | Concrete Frame with Unreinforced Masonry Infill Walls |
| PC1   | Precast Concrete Tilt-Up Walls                        |
| PC2   | Precast Concrete Frames with Concrete Shear Walls     |
| M     | Masonry   |
| RM1   | Reinforced Masonry Bearing Wall s with Wood or Metal  |
| RM2   | Reinforced Masonry Bearing Wall s with Precast        |
| URM   | Unreinforced Masonry Bearing Walls                    |
| MH    | Mobile Homes  |

# Appendix C

**Table C.1 Flood Module Building Type**

| Label       | Description                   |
|-------------|-------------------------------|
| WOOD        | Wood Building                 |
| STEEL       | Steel Building                |
| CONCRETE    | Concrete Building             |
| PRECAST     | Precast Concrete Building     |
| MASONRY     | Masonry Building              |
| RMASONRY    | Reinforced Masonry Building   |
| URMASONRY   | Unreinforced Masonry Building |
| MOBILE      | Mobile Home                   |
| MANUHOUSING | Manufactured Housing          |

**Table C.2 Flood Module Design Level**

| Label | Description  |
|-------|--------------|
| 0     | Unknown      |
| 1     | Prior - 1950 |
| 2     | 1950 - 1970  |
| 3     | Post 1970    |

**Table C.3 Flood Module Foundation Type**

| Label | Description   |
|-------|---------------|
| 1     | Pile          |
| 2     | Pier          |
| 3     | Solid Wall    |
| 4     | Basement/Yard |

| Label | Description   |
|-------|---------------|
| 5     | Crawl Space   |
| 6     | Fill          |
| 7     | Slab on Grade |