

Table 3.1 Hazus Building Occupancy Classes

| Hazus Label | Occupancy Class | Standard Industrial Codes (SIC) |
|----------------------------|--|--|
| Residential | | |
| RES1 | Single Family Dwelling | |
| RES2 | Mobile Home | |
| RES3A | Multi Family Dwelling - Duplex | |
| RES3B | Multi Family Dwelling – 3-4 Units | |
| RES3C | Multi Family Dwelling – 5-9 Units | |
| RES3D | Multi Family Dwelling – 10-19 Units | |
| RES3E | Multi Family Dwelling – 20-49 Units | |
| RES3F | Multi Family Dwelling – 50+ Units | |
| RES4 | Temporary Lodging | 70 |
| RES5 | Institutional Dormitory | |
| RES6 | Nursing Home | 8051, 8052, 8059 |
| Commercial | | |
| COM1 | Retail Trade | 52, 53, 54, 55, 56, 57, 59 |
| COM2 | Wholesale Trade | 42, 50, 51 |
| COM3 | Personal and Repair Services | 72, 75, 76, 83, 88 |
| COM4 | Business/Professional/Technical Services | 40, 41, 44, 45, 46, 47, 49, 61, 62, 63, 64, 65, 67, 73, 78 (except 7832), 81, 87, 89 |
| COM5 | Depository Institutions | 60 |
| COM6 | Hospital | 8062, 8063, 8069 |
| COM7 | Medical Office/Clinic | 80 (except 8051, 8052, 8059, 8062, 8063, 8069) |
| COM8 | Entertainment & Recreation | 48, 58, 79 (except 7911), 84 |
| COM9 | Theaters | 7832, 7911 |
| COM10 | Parking | |
| Industrial | | |
| IND1 | Heavy | 22, 24, 26, 32, 34, 35 (except 3571, 3572), 37 |
| IND2 | Light | 23, 25, 27, 30, 31, 36 (except 3671, 3672, 3674), 38, 39 |
| IND3 | Food/Drugs/Chemicals | 20, 21, 28, 29 |
| IND4 | Metals/Minerals Processing | 10, 12, 13, 14, 33 |
| IND5 | High Technology | 3571, 3572, 3671, 3672, 3674 |
| IND6 | Construction | 15, 16, 17 |
| Agriculture | | |
| AGR1 | Agriculture | 01, 02, 07, 08, 09 |
| Religion/Non-Profit | | |
| REL1 | Church/Membership Organizations | 86 |

Table 3.1 Hazus Building Occupancy Classes (Continued)

| Hazus Label | Occupancy Class | Standard Industrial Codes (SIC) |
|--------------------|------------------------|--|
| Government | | |
| GOV1 | General Services | 43, 91, 92 (except 9221, 9224), 93, 94, 95, 96, 97 |
| GOV2 | Emergency Response | 9221, 9224 |
| Education | | |
| EDU1 | Schools/Libraries | 82 (except 8221, 8222) |
| EDU2 | Colleges/Universities | 8221, 8222 |

The Earthquake Model provided the initial guidelines for the development of the building classifications by building type. As stated earlier, the Flood Model does not require the two-dimension matrix for the building types as seen in the Earthquake Model. With the exception of the velocity damage, for which the damage functions utilize the general building type, all of the Flood Model damage and loss calculations are performed based on the 33 specific occupancies and the foundation distribution that is discussed later in this chapter. Results for by building type are post-processed from the specific occupancy results.

Table 3.2 shows the general building types as defined in the three models and the range of heights (number of stories) for these building types. Because the damage functions are only marginally dependent on the number of floors, the typical floor information provided in the Earthquake Model Technical Manual is not provided here.

Table 3.2 Hazus Building Occupancy Classes

| Number | Label/Description | Height Name | Range of Stories |
|---------------|--------------------------|--------------------|-------------------------|
| 1 | Wood Frame | All | All |
| 2 | Steel Frame | Low-Rise | 1 –3 |
| 3 | | Mid-Rise | 4 – 7 |
| 4 | | High-Rise | 8 and up |
| 5 | Concrete Frame | Low-Rise | 1 – 3 |
| 6 | | Mid-Rise | 4 – 7 |
| 7 | | High-Rise | 8 and up |
| 8 | Masonry | Low-Rise | 1 –3 |
| 9 | | Mid-Rise | 4-7 |
| 10 | | High-Rise | 8 and up |
| 11 | Manufactured Housing | | All |