

CHAPTER 3

GENERAL REQUIREMENTS

SECTION 301 CLIMATE ZONES

301.1 General. Climate *zones* from Figure 301.1 or Table 301.1 shall be used in determining the applicable requirements from Chapters 4 and 5. Locations not in Table 301.1 (outside the United States) shall be assigned a climate *zone* based on Section 301.3.

301.2 Warm humid counties. Warm humid counties are identified in Table 301.1 by an asterisk.

301.3 International climate zones. The climate *zone* for any location outside the United States shall be determined by applying Table 301.3(1) and then Table 301.3(2).

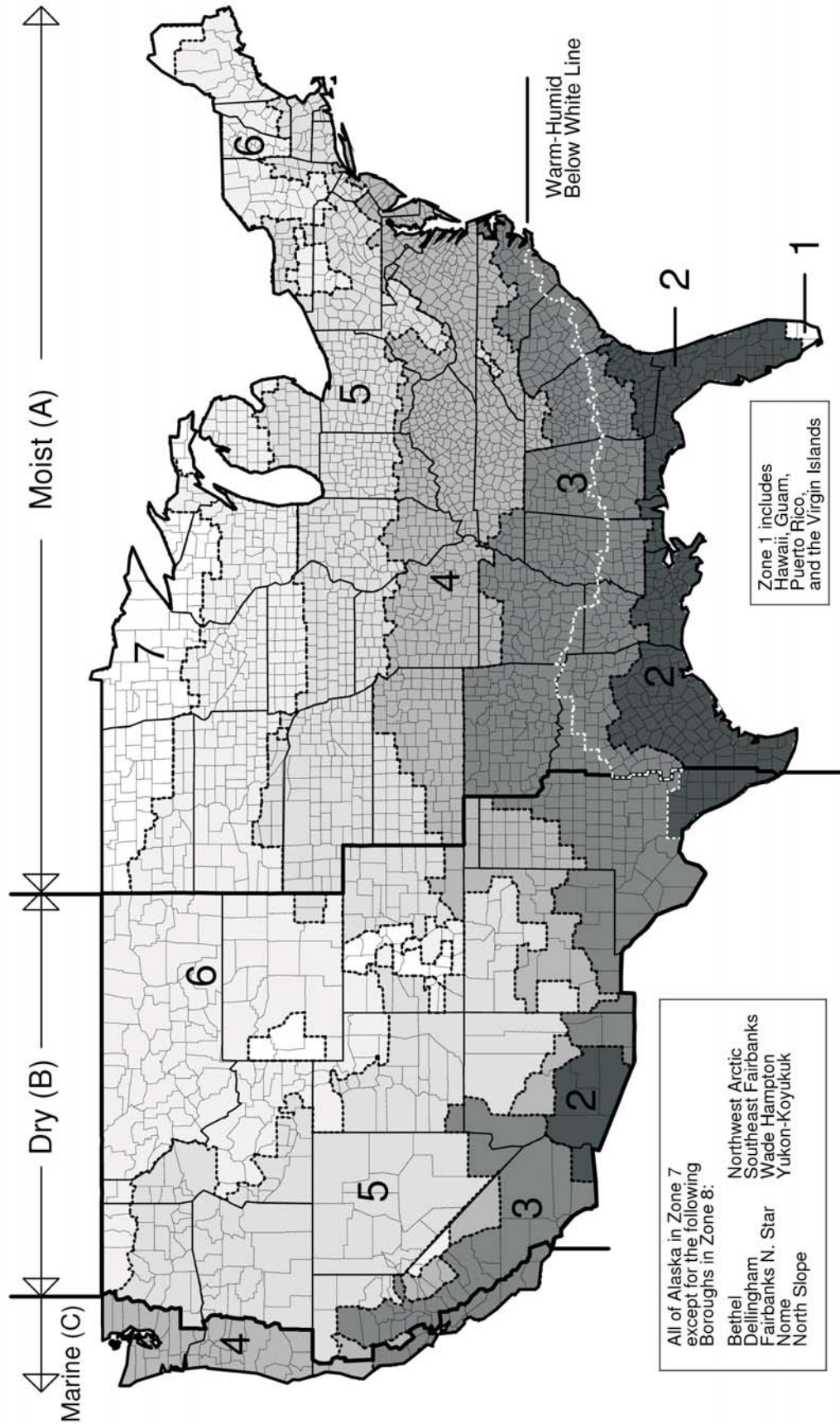


FIGURE 301.1
CLIMATE ZONES

**TABLE 301.1
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY**

Note: Table 301.1 in the 2006 edition has been replaced in its entirety. Margin lines are omitted for clarity.

Key: A – Moist, B – Dry, C – Marine. Absence of moisture designation indicates moisture regime is irrelevant. Asterisk (*) indicates a warm-humid location.

US STATES

ALABAMA	3A Henry*	ALASKA	5B Coconino	3A Desha
3A Autauga*	3A Houston*	7 Aleutians East	4B Gila	3A Drew
2A Baldwin*	3A Jackson	7 Aleutians West	3B Graham	3A Faulkner
3A Barbour*	3A Jefferson	7 Anchorage	3B Greenlee	3A Franklin
3A Bibb	3A Lamar	8 Bethel	2B La Paz	4A Fulton
3A Blount	3A Lauderdale	7 Bristol Bay	2B Maricopa	3A Garland
3A Bullock*	3A Lawrence	7 Denali	3B Mohave	3A Grant
3A Butler*	3A Lee	8 Dillingham	5B Navajo	3A Greene
3A Calhoun	3A Limestone	8 Fairbanks North Star	2B Pima	3A Hempstead*
3A Chambers	3A Lowndes*	7 Haines	2B Pinal	3A Hot Spring
3A Cherokee	3A Macon*	7 Juneau	3B Santa Cruz	3A Howard
3A Chilton	3A Madison	7 Kenai Peninsula	4B Yavapai	3A Independence
3A Choctaw*	3A Marengo*	7 Ketchikan Gateway	2B Yuma	4A Izard
3A Clarke*	3A Marion	7 Kodiak Island	ARKANSAS	3A Jackson
3A Clay	3A Marshall	7 Lake and Peninsula	3A Arkansas	3A Jefferson
3A Cleburne	2A Mobile*	7 Matanuska-Susitna	3A Ashley	3A Johnson
3A Coffee*	3A Monroe*	8 Nome	4A Baxter	3A Lafayette*
3A Colbert	3A Montgomery*	8 North Slope	4A Benton	3A Lawrence
3A Conecuh*	3A Morgan	8 Northwest Arctic	4A Boone	3A Lee
3A Coosa	3A Perry*	7 Prince of Wales- Outer Ketchikan	3A Bradley	3A Lincoln
3A Covington*	3A Pickens	7 Sitka	3A Calhoun	3A Little River*
3A Crenshaw*	3A Pike*	7 Skagway-Hoonah- Angoon	4A Carroll	3A Logan
3A Cullman	3A Randolph	8 Southeast Fairbanks	3A Chicot	3A Lonoke
3A Dale*	3A Russell*	7 Valdez-Cordova	3A Clark	4A Madison
3A Dallas*	3A Shelby	8 Wade Hampton	3A Clay	4A Marion
3A DeKalb	3A St. Clair	7 Wrangell- Petersburg	3A Cleburne	3A Miller*
3A Elmore*	3A Sumter	7 Yakutat	3A Cleveland	3A Mississippi
3A Escambia*	3A Talladega	8 Yukon-Koyukuk	3A Columbia*	3A Monroe
3A Etowah	3A Tallapoosa	ARIZONA	3A Conway	3A Montgomery
3A Fayette	3A Tuscaloosa	5B Apache	3A Craighead	3A Nevada
3A Franklin	3A Walker	3B Cochise	3A Crawford	4A Newton
3A Geneva*	3A Washington*		3A Crittenden	3A Ouachita
3A Greene	3A Wilcox*		3A Cross	3A Perry
3A Hale	3A Winston		3A Dallas	3A Phillips

(continued)

GENERAL REQUIREMENTS

**TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY**

3A Pike	3B Los Angeles	COLORADO	7 Mineral	2A Charlotte*
3A Poinsett	3B Madera	5B Adams	6B Moffat	2A Citrus*
3A Polk	3C Marin	6B Alamosa	5B Montezuma	2A Clay*
3A Pope	4B Mariposa	5B Arapahoe	5B Montrose	2A Collier*
3A Prairie	3C Mendocino	6B Archuleta	5B Morgan	2A Columbia*
3A Pulaski	3B Merced	4B Baca	4B Otero	2A DeSoto*
3A Randolph	5B Modoc	5B Bent	6B Ouray	2A Dixie*
3A Saline	6B Mono	5B Boulder	7 Park	2A Duval*
3A Scott	3C Monterey	6B Chaffee	5B Phillips	2A Escambia*
4A Searcy	3C Napa	5B Cheyenne	7 Pitkin	2A Flagler*
3A Sebastian	5B Nevada	7 Clear Creek	5B Prowers	2A Franklin*
3A Sevier*	3B Orange	6B Conejos	5B Pueblo	2A Gadsden*
3A Sharp	3B Placer	6B Costilla	6B Rio Blanco	2A Gilchrist*
3A St. Francis	5B Plumas	5B Crowley	7 Rio Grande	2A Glades*
4A Stone	3B Riverside	6B Custer	7 Routt	2A Gulf*
3A Union*	3B Sacramento	5B Delta	6B Saguache	2A Hamilton*
3A Van Buren	3C San Benito	5B Denver	7 San Juan	2A Hardee*
4A Washington	3B San Bernardino	6B Dolores	6B San Miguel	2A Hendry*
3A White	3B San Diego	5B Douglas	5B Sedgwick	2A Hernando*
3A Woodruff	3C San Francisco	6B Eagle	7 Summit	2A Highlands*
3A Yell	3B San Joaquin	5B Elbert	5B Teller	2A Hillsborough*
CALIFORNIA	3C San Luis Obispo	5B El Paso	5B Washington	2A Holmes*
3C Alameda	3C San Mateo	5B Fremont	5B Weld	2A Indian River*
6B Alpine	3C Santa Barbara	5B Garfield	5B Yuma	2A Jackson*
4B Amador	3C Santa Clara	5B Gilpin	CONNECTICUT	2A Jefferson*
3B Butte	3C Santa Cruz	7 Grand	5A (all)	2A Lafayette*
4B Calaveras	3B Shasta	7 Gunnison	DELAWARE	2A Lake*
3B Colusa	5B Sierra	7 Hinsdale	4A (all)	2A Lee*
3B Contra Costa	5B Siskiyou	5B Huerfano	DISTRICT OF COLUMBIA	2A Leon*
4C Del Norte	3B Solano	7 Jackson	4A (all)	2A Levy*
4B El Dorado	3C Sonoma	5B Jefferson	FLORIDA	2A Madison*
3B Fresno	3B Stanislaus	5B Kiowa	2A Alachua*	2A Manatee*
3B Glenn	3B Sutter	5B Kit Carson	2A Baker*	2A Marion*
4C Humboldt	3B Tehama	7 Lake	2A Bay*	1A Miami-Dade*
2B Imperial	4B Trinity	5B La Plata	2A Bradford*	1A Monroe*
4B Inyo	3B Tulare	5B Larimer	2A Brevard*	2A Nassau*
3B Kern	4B Tuolumne	4B Las Animas	1A Broward*	2A Okaloosa*
3B Kings	3C Ventura	5B Lincoln	2A Calhoun*	2A Okeechobee*
4B Lake	3B Yolo	5B Logan		
5B Lassen	3B Yuba	5B Mesa		

(continued)

TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY

2A Orange*	2A Camden*	4A Gilmer	3A Monroe	3A Twiggs*
2A Osceola*	3A Candler*	3A Glascock	3A Montgomery*	4A Union
2A Palm Beach*	3A Carroll	2A Glynn*	3A Morgan	3A Upson
2A Pasco*	4A Catoosa	4A Gordon	4A Murray	4A Walker
2A Pinellas*	2A Charlton*	2A Grady*	3A Muscogee	3A Walton
2A Polk*	2A Chatham*	3A Greene	3A Newton	2A Ware*
2A Putnam*	3A Chattahoochee*	3A Gwinnett	3A Oconee	3A Warren
2A Santa Rosa*	4A Chattooga	4A Habersham	3A Oglethorpe	3A Washington
2A Sarasota*	3A Cherokee	4A Hall	3A Paulding	2A Wayne*
2A Seminole*	3A Clarke	3A Hancock	3A Peach*	3A Webster*
2A St. Johns*	3A Clay*	3A Haralson	4A Pickens	3A Wheeler*
2A St. Lucie*	3A Clayton	3A Harris	2A Pierce*	4A White
2A Sumter*	2A Clinch*	3A Hart	3A Pike	4A Whitfield
2A Suwannee*	3A Cobb	3A Heard	3A Polk	3A Wilcox*
2A Taylor*	3A Coffee*	3A Henry	3A Pulaski*	3A Wilkes
2A Union*	2A Colquitt*	3A Houston*	3A Putnam	3A Wilkinson
2A Volusia*	3A Columbia	3A Irwin*	3A Quitman*	3A Worth*
2A Wakulla*	2A Cook*	3A Jackson	4A Rabun	HAWAII
2A Walton*	3A Coweta	3A Jasper	3A Randolph*	1A (all)*
2A Washington*	3A Crawford	2A Jeff Davis*	3A Richmond	IDAHO
GEORGIA	3A Crisp*	3A Jefferson	3A Rockdale	5B Ada
2A Appling*	4A Dade	3A Jenkins*	3A Schley*	6B Adams
2A Atkinson*	4A Dawson	3A Johnson*	3A Screven*	6B Bannock
2A Bacon*	2A Decatur*	3A Jones	2A Seminole*	6B Bear Lake
2A Baker*	3A DeKalb	3A Lamar	3A Spalding	5B Benewah
3A Baldwin	3A Dodge*	2A Lanier*	4A Stephens	6B Bingham
4A Banks	3A Dooly*	3A Laurens*	3A Stewart*	6B Blaine
3A Barrow	3A Dougherty*	3A Lee*	3A Sumter*	6B Boise
3A Bartow	3A Douglas	2A Liberty*	3A Talbot	6B Bonner
3A Ben Hill*	3A Early*	3A Lincoln	3A Taliaferro	6B Bonneville
2A Berrien*	2A Echols*	2A Long*	2A Tattnell*	6B Boundary
3A Bibb	2A Effingham*	2A Lowndes*	3A Taylor*	6B Butte
3A Bleckley*	3A Elbert	4A Lumpkin	3A Telfair*	6B Camas
2A Brantley*	3A Emanuel*	3A Macon*	3A Terrell*	5B Canyon
2A Brooks*	2A Evans*	3A Madison	2A Thomas*	6B Caribou
2A Bryan*	4A Fannin	3A Marion*	3A Tift*	5B Cassia
3A Bulloch*	3A Fayette	3A McDuffie	2A Toombs*	6B Clark
3A Burke	4A Floyd	2A McIntosh*	4A Towns	5B Clearwater
3A Butts	3A Forsyth	3A Meriwether	3A Treutlen*	6B Custer
3A Calhoun*	4A Franklin	2A Miller*	3A Troup	5B Elmore
	3A Fulton	2A Mitchell*	3A Turner*	

(continued)

GENERAL REQUIREMENTS

**TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY**

6B Franklin	5A Cook	4A Macoupin	4A Wayne	5A Henry
6B Fremont	4A Crawford	4A Madison	4A White	5A Howard
5B Gem	5A Cumberland	4A Marion	5A Whiteside	5A Huntington
5B Gooding	5A DeKalb	5A Marshall	5A Will	4A Jackson
5B Idaho	5A De Witt	5A Mason	4A Williamson	5A Jasper
6B Jefferson	5A Douglas	4A Massac	5A Winnebago	5A Jay
5B Jerome	5A DuPage	5A McDonough	5A Woodford	4A Jefferson
5B Kootenai	5A Edgar	5A McHenry	INDIANA	4A Jennings
5B Latah	4A Edwards	5A McLean	5A Adams	5A Johnson
6B Lemhi	4A Effingham	5A Menard	5A Allen	4A Knox
5B Lewis	4A Fayette	5A Mercer	5A Bartholomew	5A Kosciusko
5B Lincoln	5A Ford	4A Monroe	5A Benton	5A Lagrange
6B Madison	4A Franklin	4A Montgomery	5A Blackford	5A Lake
5B Minidoka	5A Fulton	5A Morgan	5A Boone	5A La Porte
5B Nez Perce	4A Gallatin	5A Moultrie	4A Brown	4A Lawrence
6B Oneida	5A Greene	5A Ogle	5A Carroll	5A Madison
5B Owyhee	5A Grundy	5A Peoria	5A Cass	5A Marion
5B Payette	4A Hamilton	4A Perry	4A Clark	5A Marshall
5B Power	5A Hancock	5A Piatt	5A Clay	4A Martin
5B Shoshone	4A Hardin	5A Pike	5A Clinton	5A Miami
6B Teton	5A Henderson	4A Pope	4A Crawford	4A Monroe
5B Twin Falls	5A Henry	4A Pulaski	4A Daviess	5A Montgomery
6B Valley	5A Iroquois	5A Putnam	4A Dearborn	5A Morgan
5B Washington	4A Jackson	4A Randolph	5A Decatur	5A Newton
ILLINOIS	4A Jasper	4A Richland	5A De Kalb	5A Noble
5A Adams	4A Jefferson	5A Rock Island	5A Delaware	4A Ohio
4A Alexander	5A Jersey	4A Saline	4A Dubois	4A Orange
4A Bond	5A Jo Daviess	5A Sangamon	5A Elkhart	5A Owen
5A Boone	4A Johnson	5A Schuyler	5A Fayette	5A Parke
5A Brown	5A Kane	5A Scott	4A Floyd	4A Perry
5A Bureau	5A Kankakee	4A Shelby	5A Fountain	4A Pike
5A Calhoun	5A Kendall	5A Stark	5A Franklin	5A Porter
5A Carroll	5A Knox	4A St. Clair	5A Fulton	4A Posey
5A Cass	5A Lake	5A Stephenson	4A Gibson	5A Pulaski
5A Champaign	5A La Salle	5A Tazewell	5A Grant	5A Putnam
4A Christian	4A Lawrence	4A Union	4A Greene	5A Randolph
5A Clark	5A Lee	5A Vermilion	5A Hamilton	4A Ripley
4A Clay	5A Livingston	4A Wabash	5A Hancock	5A Rush
4A Clinton	5A Logan	5A Warren	4A Harrison	4A Scott
5A Coles	5A Macon	4A Washington	5A Hendricks	5A Shelby

(continued)

TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY

4A Spencer	5A Clarke	6A Lyon	KANSAS	4A Harvey
5A Starke	6A Clay	5A Madison	4A Allen	4A Haskell
5A Steuben	6A Clayton	5A Mahaska	4A Anderson	4A Hodgeman
5A St. Joseph	5A Clinton	5A Marion	4A Atchison	4A Jackson
4A Sullivan	5A Crawford	5A Marshall	4A Barber	4A Jefferson
4A Switzerland	5A Dallas	5A Mills	4A Barton	5A Jewell
5A Tippecanoe	5A Davis	6A Mitchell	4A Bourbon	4A Johnson
5A Tipton	5A Decatur	5A Monona	4A Brown	4A Kearny
5A Union	6A Delaware	5A Monroe	4A Butler	4A Kingman
4A Vanderburgh	5A Des Moines	5A Montgomery	4A Chase	4A Kiowa
5A Vermillion	6A Dickinson	5A Muscatine	4A Chautauqua	4A Labette
5A Vigo	5A Dubuque	6A O'Brien	4A Cherokee	5A Lane
5A Wabash	6A Emmet	6A Osceola	5A Cheyenne	4A Leavenworth
5A Warren	6A Fayette	5A Page	4A Clark	4A Lincoln
4A Warrick	6A Floyd	6A Palo Alto	4A Clay	4A Linn
4A Washington	6A Franklin	6A Plymouth	5A Cloud	5A Logan
5A Wayne	5A Fremont	6A Pocahontas	4A Coffey	4A Lyon
5A Wells	5A Greene	5A Polk	4A Comanche	4A Marion
5A White	6A Grundy	5A Pottawattamie	4A Cowley	4A Marshall
5A Whitley	5A Guthrie	5A Poweshiek	4A Crawford	4A McPherson
IOWA	6A Hamilton	5A Ringgold	5A Decatur	4A Meade
5A Adair	6A Hancock	6A Sac	4A Dickinson	4A Miami
5A Adams	6A Hardin	5A Scott	4A Doniphan	5A Mitchell
6A Allamakee	5A Harrison	5A Shelby	4A Douglas	4A Montgomery
5A Appanoose	5A Henry	6A Sioux	4A Edwards	4A Morris
5A Audubon	6A Howard	5A Story	4A Elk	4A Morton
5A Benton	6A Humboldt	5A Tama	5A Ellis	4A Nemaha
6A Black Hawk	6A Ida	5A Taylor	4A Ellsworth	4A Neosho
5A Boone	5A Iowa	5A Union	4A Finney	5A Ness
6A Bremer	5A Jackson	5A Van Buren	4A Ford	5A Norton
6A Buchanan	5A Jasper	5A Wapello	4A Franklin	4A Osage
6A Buena Vista	5A Jefferson	5A Warren	4A Geary	5A Osborne
6A Butler	5A Johnson	5A Washington	5A Gove	4A Ottawa
6A Calhoun	5A Jones	5A Wayne	5A Graham	4A Pawnee
5A Carroll	5A Keokuk	6A Webster	4A Grant	5A Phillips
5A Cass	6A Kossuth	6A Winnebago	4A Gray	4A Pottawatomie
5A Cedar	5A Lee	6A Winneshiek	5A Greeley	4A Pratt
6A Cerro Gordo	5A Linn	5A Woodbury	4A Greenwood	5A Rawlins
6A Cherokee	5A Louisa	6A Worth	5A Hamilton	4A Reno
6A Chickasaw	5A Lucas	6A Wright	4A Harper	5A Republic

(continued)

GENERAL REQUIREMENTS

**TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY**

4A Rice	2A Cameron*	2A St. Mary*	4A Cecil	6A Crawford
4A Riley	3A Catahoula*	2A St. Tammany*	4A Charles	6A Delta
5A Rooks	3A Claiborne*	2A Tangipahoa*	4A Dorchester	6A Dickinson
4A Rush	3A Concordia*	3A Tensas*	4A Frederick	5A Eaton
4A Russell	3A De Soto*	2A Terrebonne*	5A Garrett	6A Emmet
4A Saline	2A East Baton Rouge*	3A Union*	4A Harford	5A Genesee
5A Scott	3A East Carroll	2A Vermilion*	4A Howard	6A Gladwin
4A Sedgwick	2A East Feliciana*	3A Vernon*	4A Kent	7 Gogebic
4A Seward	2A Evangeline*	2A Washington*	4A Montgomery	6A Grand Traverse
4A Shawnee	3A Franklin*	3A Webster*	4A Prince George's	5A Gratiot
5A Sheridan	3A Grant*	2A West Baton Rouge*	4A Queen Anne's	5A Hillsdale
5A Sherman	2A Iberia*	3A West Carroll	4A Somerset	7 Houghton
5A Smith	2A Iberville*	2A West Feliciana*	4A St. Mary's	6A Huron
4A Stafford	3A Jackson*	3A Winn*	4A Talbot	5A Ingham
4A Stanton	2A Jefferson*	MAINE	4A Washington	5A Ionia
4A Stevens	2A Jefferson Davis*	6A Androscoggin	4A Wicomico	6A Iosco
4A Sumner	2A Lafayette*	7 Aroostook	4A Worcester	7 Iron
5A Thomas	2A Lafourche*	6A Cumberland	MASSACHUSETTS	6A Isabella
5A Trego	3A La Salle*	6A Franklin	5A (all)	5A Jackson
4A Wabaunsee	3A Lincoln*	6A Hancock	MICHIGAN	5A Kalamazoo
5A Wallace	2A Livingston*	6A Kennebec	6A Alcona	6A Kalkaska
4A Washington	3A Madison*	6A Knox	6A Alger	5A Kent
5A Wichita	3A Morehouse	6A Lincoln	5A Allegan	7 Keweenaw
4A Wilson	3A Natchitoches*	6A Oxford	6A Alpena	6A Lake
4A Woodson	2A Orleans*	6A Penobscot	6A Antrim	5A Lapeer
4A Wyandotte	3A Ouachita*	6A Piscataquis	6A Arenac	6A Leelanau
KENTUCKY	2A Plaquemines*	6A Sagadahoc	7 Baraga	5A Lenawee
4A (all)	2A Pointe Coupee*	6A Somerset	5A Barry	5A Livingston
LOUISIANA	2A Rapides*	6A Waldo	5A Bay	7 Luce
2A Acadia*	3A Red River*	6A Washington	6A Benzie	7 Mackinac
2A Allen*	3A Richland*	6A York	5A Berrien	5A Macomb
2A Ascension*	3A Sabine*	MARYLAND	5A Branch	6A Manistee
2A Assumption*	2A St. Bernard*	4A Allegany	5A Calhoun	6A Marquette
2A Avoyelles*	2A St. Charles*	4A Anne Arundel	5A Cass	6A Mason
2A Beauregard*	2A St. Helena*	4A Baltimore	6A Charlevoix	6A Mecosta
3A Bienville*	2A St. James*	4A Baltimore (city)	6A Cheboygan	6A Menominee
3A Bossier*	2A St. John the Baptist*	4A Calvert	7 Chippewa	5A Midland
3A Caddo*	2A St. Landry*	4A Caroline	6A Clare	6A Missaukee
2A Calcasieu*	2A St. Martin*	4A Carroll	5A Clinton	5A Monroe
3A Caldwell*				5A Montcalm

(continued)

TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY

6A Montmorency	7 Cook	7 Pennington	3A Carroll	3A Montgomery
5A Muskegon	6A Cottonwood	7 Pine	3A Chickasaw	3A Neshoba
6A Newaygo	7 Crow Wing	6A Pipestone	3A Choctaw	3A Newton
5A Oakland	6A Dakota	7 Polk	3A Claiborne*	3A Noxubee
6A Oceana	6A Dodge	6A Pope	3A Clarke	3A Oktibbeha
6A Ogemaw	6A Douglas	6A Ramsey	3A Clay	3A Panola
7 Ontonagon	6A Faribault	7 Red Lake	3A Coahoma	2A Pearl River*
6A Osceola	6A Fillmore	6A Redwood	3A Copiah*	3A Perry*
6A Oscoda	6A Freeborn	6A Renville	3A Covington*	3A Pike*
6A Otsego	6A Goodhue	6A Rice	3A DeSoto	3A Pontotoc
5A Ottawa	7 Grant	6A Rock	3A Forrest*	3A Prentiss
6A Presque Isle	6A Hennepin	7 Roseau	3A Franklin*	3A Quitman
6A Roscommon	6A Houston	6A Scott	3A George*	3A Rankin*
5A Saginaw	7 Hubbard	6A Sherburne	3A Greene*	3A Scott
6A Sanilac	6A Isanti	6A Sibley	3A Grenada	3A Sharkey
7 Schoolcraft	7 Itasca	6A Stearns	2A Hancock*	3A Simpson*
5A Shiawassee	6A Jackson	6A Steele	2A Harrison*	3A Smith*
5A St. Clair	7 Kanabec	6A Stevens	3A Hinds*	2A Stone*
5A St. Joseph	6A Kandiyohi	7 St. Louis	3A Holmes	3A Sunflower
5A Tuscola	7 Kittson	6A Swift	3A Humphreys	3A Tallahatchie
5A Van Buren	7 Koochiching	6A Todd	3A Issaquena	3A Tate
5A Washtenaw	6A Lac qui Parle	6A Traverse	3A Itawamba	3A Tippah
5A Wayne	7 Lake	6A Wabasha	2A Jackson*	3A Tishomingo
6A Wexford	7 Lake of the Woods	7 Wadena	3A Jasper	3A Tunica
	6A Le Sueur	6A Waseca	3A Jefferson*	3A Union
MINNESOTA	6A Lincoln	6A Washington	3A Jefferson Davis*	3A Walthall*
7 Aitkin	6A Lyon	6A Watonwan	3A Jones*	3A Warren*
6A Anoka	7 Mahnomen	7 Wilkin	3A Kemper	3A Washington
7 Becker	7 Marshall	6A Winona	3A Lafayette	3A Wayne*
7 Beltrami	6A Martin	6A Wright	3A Lamar*	3A Webster
6A Benton	6A McLeod	6A Yellow	3A Lauderdale	3A Wilkinson*
6A Big Stone	6A Meeker	Medicine	3A Lawrence*	3A Winston
6A Blue Earth	7 Mille Lacs		3A Leake	3A Yalobusha
6A Brown	6A Morrison	MISSISSIPPI	3A Lee	3A Yazoo
7 Carlton	6A Mower	3A Adams*	3A Leflore	
6A Carver	6A Murray	3A Alcorn	3A Lincoln*	MISSOURI
7 Cass	6A Nicollet	3A Amite*	3A Lowndes	5A Adair
6A Chippewa	6A Nobles	3A Attala	3A Madison	5A Andrew
6A Chisago	7 Norman	3A Benton	3A Marion*	5A Atchison
7 Clay	6A Olmsted	3A Bolivar	3A Marshall	4A Audrain
7 Clearwater	7 Otter Tail	3A Calhoun	3A Monroe	4A Barry

(continued)

GENERAL REQUIREMENTS

TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY

4A Barton	4A Iron	4A Randolph	5B Eureka	5A Passaic
4A Bates	4A Jackson	4A Ray	5B Humboldt	4A Salem
4A Benton	4A Jasper	4A Reynolds	5B Lander	5A Somerset
4A Bollinger	4A Jefferson	4A Ripley	5B Lincoln	5A Sussex
4A Boone	4A Johnson	4A Saline	5B Lyon	4A Union
5A Buchanan	5A Knox	5A Schuyler	5B Mineral	5A Warren
4A Butler	4A Laclede	5A Scotland	5B Nye	NEW MEXICO
5A Caldwell	4A Lafayette	4A Scott	5B Pershing	4B Bernalillo
4A Callaway	4A Lawrence	4A Shannon	5B Storey	5B Catron
4A Camden	5A Lewis	5A Shelby	5B Washoe	3B Chaves
4A Cape Girardeau	4A Lincoln	4A St. Charles	5B White Pine	4B Cibola
4A Carroll	5A Linn	4A St. Clair	NEW HAMPSHIRE	5B Colfax
4A Carter	5A Livingston	4A Ste. Genevieve	6A Belknap	4B Curry
4A Cass	5A Macon	4A St. Francois	6A Carroll	4B DeBaca
4A Cedar	4A Madison	4A St. Louis	5A Cheshire	3B Dona Ana
5A Chariton	4A Maries	4A St. Louis (city)	6A Coos	3B Eddy
4A Christian	5A Marion	4A Stoddard	6A Grafton	4B Grant
5A Clark	4A McDonald	4A Stone	5A Hillsborough	4B Guadalupe
4A Clay	5A Mercer	5A Sullivan	6A Merrimack	5B Harding
5A Clinton	4A Miller	4A Taney	5A Rockingham	3B Hidalgo
4A Cole	4A Mississippi	4A Texas	5A Strafford	3B Lea
4A Cooper	4A Moniteau	4A Vernon	6A Sullivan	4B Lincoln
4A Crawford	4A Monroe	4A Warren	NEW JERSEY	5B Los Alamos
4A Dade	4A Montgomery	4A Washington	4A Atlantic	3B Luna
4A Dallas	4A Morgan	4A Wayne	5A Bergen	5B McKinley
5A Daviess	4A New Madrid	4A Webster	4A Burlington	5B Mora
5A DeKalb	4A Newton	5A Worth	4A Camden	3B Otero
4A Dent	5A Nodaway	4A Wright	4A Cape May	4B Quay
4A Douglas	4A Oregon	MONTANA	4A Cumberland	5B Rio Arriba
4A Dunklin	4A Osage	6B (all)	4A Essex	4B Roosevelt
4A Franklin	4A Ozark	NEBRASKA	4A Gloucester	5B Sandoval
4A Gasconade	4A Pemiscot	5A (all)	4A Hudson	5B San Juan
5A Gentry	4A Perry	NEVADA	5A Hunterdon	5B San Miguel
4A Greene	4A Pettis	5B Carson City (city)	5A Mercer	5B Santa Fe
5A Grundy	4A Phelps	5B Churchill	4A Middlesex	4B Sierra
5A Harrison	5A Pike	3B Clark	4A Monmouth	4B Socorro
4A Henry	4A Platte	5B Douglas	5A Morris	5B Taos
4A Hickory	4A Polk	5B Elko	4A Ocean	5B Tarrant
5A Holt	4A Pulaski	5B Esmeralda		4B Union
4A Howard	5A Putnam			4B Valencia
4A Howell	5A Ralls			

(continued)

TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY

NEW YORK	5A Putnam	3A Carteret*	4A Madison	3A Wilson
5A Albany	4A Queens	4A Caswell	3A Martin	4A Yadkin
6A Allegany	5A Rensselaer	4A Catawba	4A McDowell	5A Yancey
4A Bronx	4A Richmond	4A Chatham	3A Mecklenburg	NORTH DAKOTA
6A Broome	5A Rockland	4A Cherokee	5A Mitchell	6A Adams
6A Cattaraugus	5A Saratoga	3A Chowan	3A Montgomery	7 Barnes
5A Cayuga	5A Schenectady	4A Clay	3A Moore	7 Benson
5A Chautauqua	6A Schoharie	4A Cleveland	4A Nash	6A Billings
5A Chemung	6A Schuylcr	3A Columbus*	3A New Hanover*	7 Bottineau
6A Chenango	5A Seneca	3A Craven	4A Northampton	6A Bowman
6A Clinton	6A Steuben	3A Cumberland	3A Onslow*	7 Burke
5A Columbia	6A St. Lawrence	3A Currituck	4A Orange	6A Burleigh
5A Cortland	4A Suffolk	3A Dare	3A Pamlico	7 Cass
6A Delaware	6A Sullivan	3A Davidson	3A Pasquotank	7 Cavalier
5A Dutchess	5A Tioga	4A Davie	3A Pender*	6A Dickey
5A Erie	6A Tompkins	3A Duplin	3A Perquimans	7 Divide
6A Essex	6A Ulster	4A Durham	4A Person	6A Dunn
6A Franklin	6A Warren	3A Edgecombe	3A Pitt	7 Eddy
6A Fulton	5A Washington	4A Forsyth	4A Polk	6A Emmons
5A Genesee	5A Wayne	4A Franklin	3A Randolph	7 Foster
5A Greene	4A Westchester	3A Gaston	3A Richmond	6A Golden Valley
6A Hamilton	6A Wyoming	4A Gates	3A Robeson	7 Grand Forks
6A Herkimer	5A Yates	4A Graham	4A Rockingham	6A Grant
6A Jefferson	NORTH	4A Granville	3A Rowan	7 Griggs
4A Kings	CAROLINA	3A Greene	4A Rutherford	6A Hettinger
6A Lewis	4A Alamance	4A Guilford	3A Sampson	7 Kidder
5A Livingston	4A Alexander	4A Halifax	3A Scotland	6A LaMoure
6A Madison	5A Alleghany	4A Harnett	3A Stanly	6A Logan
5A Monroe	3A Anson	4A Haywood	4A Stokes	7 McHenry
6A Montgomery	5A Ashe	4A Henderson	4A Surry	6A McIntosh
4A Nassau	5A Avery	4A Hertford	4A Swain	6A McKenzie
4A New York	3A Beaufort	3A Hoke	4A Transylvania	7 McLean
5A Niagara	4A Bertie	3A Hyde	3A Tyrrell	6A Mercer
6A Oneida	3A Bladen	4A Iredell	3A Union	6A Morton
5A Onondaga	3A Brunswick*	4A Jackson	4A Vance	7 Mountrail
5A Ontario	4A Buncombe	3A Johnston	4A Wake	7 Nelson
5A Orange	4A Burke	3A Jones	4A Warren	6A Oliver
5A Orleans	3A Cabarrus	4A Lee	3A Washington	7 Pembina
5A Oswego	4A Caldwell	3A Lenoir	5A Watauga	7 Pierce
6A Otsego	3A Camden	4A Lincoln	3A Wayne	7 Ramsey
		4A Macon	4A Wilkes	

(continued)

GENERAL REQUIREMENTS

**TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY**

6A Ransom	5A Fairfield	5A Perry	3A Coal	3A Okmulgee
7 Renville	5A Fayette	5A Pickaway	3A Comanche	3A Osage
6A Richland	5A Franklin	4A Pike	3A Cotton	3A Ottawa
7 Rolette	5A Fulton	5A Portage	3A Craig	3A Pawnee
6A Sargent	4A Gallia	5A Preble	3A Creek	3A Payne
7 Sheridan	5A Geauga	5A Putnam	3A Custer	3A Pittsburg
6A Sioux	5A Greene	5A Richland	3A Delaware	3A Pontotoc
6A Slope	5A Guernsey	5A Ross	3A Dewey	3A Pottawatomie
6A Stark	4A Hamilton	5A Sandusky	3A Ellis	3A Pushmataha
7 Steele	5A Hancock	4A Scioto	3A Garfield	3A Roger Mills
7 Stutsman	5A Hardin	5A Seneca	3A Garvin	3A Rogers
7 Towner	5A Harrison	5A Shelby	3A Grady	3A Seminole
7 Traill	5A Henry	5A Stark	3A Grant	3A Sequoyah
7 Walsh	5A Highland	5A Summit	3A Greer	3A Stephens
7 Ward	5A Hocking	5A Trumbull	3A Harmon	4B Texas
7 Wells	5A Holmes	5A Tuscarawas	3A Harper	3A Tillman
7 Williams	5A Huron	5A Union	3A Haskell	3A Tulsa
OHIO	5A Jackson	5A Van Wert	3A Hughes	3A Wagoner
4A Adams	5A Jefferson	5A Vinton	3A Jackson	3A Washington
5A Allen	5A Knox	5A Warren	3A Jefferson	3A Washita
5A Ashland	5A Lake	4A Washington	3A Johnston	3A Woods
5A Ashtabula	4A Lawrence	5A Wayne	3A Kay	3A Woodward
5A Athens	5A Licking	5A Williams	3A Kingfisher	OREGON
5A Auglaize	5A Logan	5A Wood	3A Kiowa	5B Baker
5A Belmont	5A Lorain	5A Wyandot	3A Latimer	4C Benton
4A Brown	5A Lucas	OKLAHOMA	3A Le Flore	4C Clackamas
5A Butler	5A Madison	3A Adair	3A Lincoln	4C Clatsop
5A Carroll	5A Mahoning	3A Alfalfa	3A Logan	4C Columbia
5A Champaign	5A Marion	3A Atoka	3A Love	4C Coos
5A Clark	5A Medina	4B Beaver	3A Major	5B Crook
4A Clermont	5A Meigs	3A Beckham	3A Marshall	4C Curry
5A Clinton	5A Mercer	3A Blaine	3A Mayes	5B Deschutes
5A Columbiana	5A Miami	3A Bryan	3A McClain	4C Douglas
5A Coshocton	5A Monroe	3A Caddo	3A McCurtain	5B Gilliam
5A Crawford	5A Montgomery	3A Canadian	3A McIntosh	5B Grant
5A Cuyahoga	5A Morgan	3A Carter	3A Murray	5B Harney
5A Darke	5A Morrow	3A Cherokee	3A Muskogee	5B Hood River
5A Defiance	5A Muskingum	3A Cherokee	3A Noble	4C Jackson
5A Delaware	5A Noble	3A Choctaw	3A Nowata	5B Jefferson
5A Erie	5A Ottawa	4B Cimarron	3A Okfuskee	4C Josephine
	5A Paulding	3A Cleveland	3A Oklahoma	

(continued)

TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY

5B Klamath	5A Cumberland	5A Warren	3A Lee	6A Faulk
5B Lake	5A Dauphin	5A Washington	3A Lexington	6A Grant
4C Lane	4A Delaware	6A Wayne	3A Marion	5A Gregory
4C Lincoln	6A Elk	5A Westmoreland	3A Marlboro	6A Haakon
4C Linn	5A Erie	5A Wyoming	3A McCormick	6A Hamlin
5B Malheur	5A Fayette	4A York	3A Newberry	6A Hand
4C Marion	5A Forest	RHODE ISLAND	3A Oconee	6A Hanson
5B Morrow	5A Franklin		3A Orangeburg	6A Harding
4C Multnomah	5A Fulton	5A (all)	3A Pickens	6A Hughes
4C Polk	5A Greene	SOUTH CAROLINA	3A Richland	5A Hutchinson
5B Sherman	5A Huntingdon		3A Saluda	6A Hyde
4C Tillamook	5A Indiana	3A Abbeville	3A Spartanburg	5A Jackson
5B Umatilla	5A Jefferson	3A Aiken	3A Sumter	6A Jerauld
5B Union	5A Juniata	3A Allendale*	3A Union	6A Jones
5B Wallowa	5A Lackawanna	3A Anderson	3A Williamsburg	6A Kingsbury
5B Wasco	5A Lancaster	3A Bamberg*	3A York	6A Lake
4C Washington	5A Lawrence	3A Barnwell*	SOUTH DAKOTA	6A Lawrence
5B Wheeler	5A Lebanon	3A Beaufort*		6A Aurora
4C Yamhill	5A Lehigh	3A Berkeley*	6A Beadle	6A Lyman
PENNSYLVANIA	5A Luzerne	3A Calhoun	5A Bennett	6A Marshall
	5A Lycoming	3A Charleston*	5A Bon Homme	6A McCook
5A Adams	6A McKean	3A Cherokee	6A Brookings	6A McPherson
5A Allegheny	5A Mercer	3A Chester	6A Brown	6A Meade
5A Armstrong	5A Mifflin	3A Chesterfield	6A Brule	5A Mellette
5A Beaver	5A Monroe	3A Clarendon	6A Buffalo	6A Miner
5A Bedford	4A Montgomery	3A Colleton*	6A Butte	6A Minnehaha
5A Berks	5A Montour	3A Darlington	6A Campbell	6A Moody
5A Blair	5A Northampton	3A Dillon	5A Charles Mix	6A Pennington
5A Bradford	5A Northumberland	3A Dorchester*	6A Clark	6A Perkins
4A Bucks	5A Perry	3A Edgefield	5A Clay	6A Potter
5A Butler	4A Philadelphia	3A Fairfield	6A Codrington	6A Roberts
5A Cambria	5A Pike	3A Florence	6A Corson	6A Sanborn
6A Cameron	6A Potter	3A Georgetown*	6A Custer	6A Shannon
5A Carbon	5A Schuylkill	3A Greenville	6A Davison	6A Spink
5A Centre	5A Snyder	3A Greenwood	6A Day	6A Stanley
4A Chester	5A Somerset	3A Hampton*	6A Deuel	6A Sully
5A Clarion	5A Sullivan	3A Horry*	6A Dewey	5A Todd
6A Clearfield	6A Susquehanna	3A Jasper*	5A Douglas	5A Tripp
5A Clinton	6A Tioga	3A Kershaw	6A Edmunds	6A Turner
5A Columbia	5A Union	3A Lancaster	6A Fall River	5A Union
5A Crawford	5A Venango	3A Laurens		6A Walworth

(continued)

GENERAL REQUIREMENTS

**TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY**

5A Yankton	3A Haywood	3A Shelby	4B Briscoe	2B Dimmit*
6A Ziebach	3A Henderson	4A Smith	2A Brooks*	4B Donley
TENNESSEE	4A Henry	4A Stewart	3A Brown*	2A Duval*
4A Anderson	4A Hickman	4A Sullivan	2A Burleson*	3A Eastland
4A Bedford	4A Houston	4A Sumner	3A Burnet*	3B Ector
4A Benton	4A Humphreys	3A Tipton	2A Caldwell*	2B Edwards*
4A Bledsoe	4A Jackson	4A Trousdale	2A Calhoun*	3A Ellis*
4A Blount	4A Jefferson	4A Unicoi	3B Callahan	3B El Paso
4A Bradley	4A Johnson	4A Union	2A Cameron*	3A Erath*
4A Campbell	4A Knox	4A Van Buren	3A Camp*	2A Falls*
4A Cannon	3A Lake	4A Warren	4B Carson	3A Fannin
4A Carroll	3A Lauderdale	4A Washington	3A Cass*	2A Fayette*
4A Carter	4A Lawrence	4A Wayne	4B Castro	3B Fisher
4A Cheatham	4A Lewis	4A Weakley	2A Chambers*	4B Floyd
3A Chester	4A Lincoln	4A White	2A Cherokee*	3B Foard
4A Claiborne	4A Loudon	4A Williamson	3B Childress	2A Fort Bend*
4A Clay	4A Macon	4A Wilson	3A Clay	3A Franklin*
4A Cocke	3A Madison	TEXAS	4B Cochran	2A Freestone*
4A Coffee	4A Marion	2A Anderson*	3B Coke	2B Frio*
3A Crockett	4A Marshall	3B Andrews	3B Coleman	3B Gaines
4A Cumberland	4A Maury	2A Angelina*	3A Collin*	2A Galveston*
4A Davidson	4A McMinn	2A Aransas*	3B Collingsworth	3B Garza
4A Decatur	3A McNairy	3A Archer	2A Colorado*	3A Gillespie*
4A DeKalb	4A Meigs	4B Armstrong	2A Comal*	3B Glasscock
4A Dickson	4A Monroe	2A Atascosa*	3A Comanche*	2A Goliad*
3A Dyer	4A Montgomery	2A Austin*	3B Concho	2A Gonzales*
3A Fayette	4A Moore	4B Bailey	3A Cooke	4B Gray
4A Fentress	4A Morgan	2B Bandera*	2A Coryell*	3A Grayson
4A Franklin	4A Obion	2A Bastrop*	3B Cottle	3A Gregg*
4A Gibson	4A Overton	3B Baylor	3B Crane	2A Grimes*
4A Giles	4A Perry	2A Bee*	3B Crockett	2A Guadalupe*
4A Grainger	4A Pickett	2A Bell*	3B Crosby	4B Hale
4A Greene	4A Polk	2A Bexar*	3B Culberson	3B Hall
4A Grundy	4A Putnam	3A Blanco*	4B Dallam	3A Hamilton*
4A Hamblen	4A Rhea	3B Borden	3A Dallas*	4B Hansford
4A Hamilton	4A Roane	2A Bosque*	3B Dawson	3B Hardeman
4A Hancock	4A Robertson	3A Bowie*	4B Deaf Smith	2A Hardin*
3A Hardeman	4A Rutherford	2A Brazoria*	3A Delta	2A Harris*
3A Hardin	4A Scott	2A Brazos*	3A Denton*	3A Harrison*
4A Hawkins	4A Sequatchie	3B Brewster	2A DeWitt*	4B Hartley
	4A Sevier		3B Dickens	3B Haskell

(continued)

TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY

2A Hays*	2A Liberty*	2A Polk*	2A Trinity*	5B Kane
3B Hemphill	2A Limestone*	4B Potter	2A Tyler*	5B Millard
3A Henderson*	4B Lipscomb	3B Presidio	3A Upshur*	6B Morgan
2A Hidalgo*	2A Live Oak*	3A Rains*	3B Upton	5B Piute
2A Hill*	3A Llano*	4B Randall	2B Uvalde*	6B Rich
4B Hockley	3B Loving	3B Reagan	2B Val Verde*	5B Salt Lake
3A Hood*	3B Lubbock	2B Real*	3A Van Zandt*	5B San Juan
3A Hopkins*	3B Lynn	3A Red River*	2A Victoria*	5B Sanpete
2A Houston*	2A Madison*	3B Reeves	2A Walker*	5B Sevier
3B Howard	3A Marion*	2A Refugio*	2A Waller*	6B Summit
3B Hudspeth	3B Martin	4B Roberts	3B Ward	5B Tooele
3A Hunt*	3B Mason	2A Robertson*	2A Washington*	6B Uintah
4B Hutchinson	2A Matagorda*	3A Rockwall*	2B Webb*	5B Utah
3B Irion	2B Maverick*	3B Runnels	2A Wharton*	6B Wasatch
3A Jack	3B McCulloch	3A Rusk*	3B Wheeler	3B Washington
2A Jackson*	2A McLennan*	3A Sabine*	3A Wichita	5B Wayne
2A Jasper*	2A McMullen*	3A San Augustine*	3B Wilbarger	5B Weber
3B Jeff Davis	2B Medina*	2A San Jacinto*	2A Willacy*	VERMONT
2A Jefferson*	3B Menard	2A San Patricio*	2A Williamson*	6A (all)
2A Jim Hogg*	3B Midland	3A San Saba*	2A Wilson*	VIRGINIA
2A Jim Wells*	2A Milam*	3B Schleicher	3B Winkler	4A (all)
3A Johnson*	3A Mills*	3B Scurry	3A Wise	WASHINGTON
3B Jones	3B Mitchell	3B Shackelford	3A Wood*	5B Adams
2A Karnes*	3A Montague	3A Shelby*	4B Yoakum	5B Asotin
3A Kaufman*	2A Montgomery*	4B Sherman	3A Young	5B Benton
3A Kendall*	4B Moore	3A Smith*	2B Zapata*	5B Chelan
2A Kenedy*	3A Morris*	3A Somervell*	2B Zavala*	4C Clallam
3B Kent	3B Motley	2A Starr*	UTAH	4C Clark
3B Kerr	3A Nacogdoches*	3A Stephens	5B Beaver	5B Columbia
3B Kimble	3A Navarro*	3B Sterling	6B Box Elder	4C Cowlitz
3B King	2A Newton*	3B Stonewall	6B Cache	5B Douglas
2B Kinney*	3B Nolan	3B Sutton	6B Carbon	6B Ferry
2A Kleberg*	2A Nueces*	4B Swisher	6B Daggett	5B Franklin
3B Knox	4B Ochiltree	3A Tarrant*	5B Davis	5B Garfield
3A Lamar*	4B Oldham	3B Taylor	6B Duchesne	5B Grant
4B Lamb	2A Orange*	3B Terrell	5B Emery	4C Grays Harbor
3A Lampasas*	3A Palo Pinto*	3B Terry	5B Garfield	4C Island
2B La Salle*	3A Panola*	3B Throckmorton	5B Grand	4C Jefferson
2A Lavaca*	3A Parker*	3A Titus*	5B Iron	4C King
2A Lee*	4B Parmer	3B Tom Green	5B Juab	4C Kitsap
2A Leon*	3B Pecos	2A Travis*		

(continued)

GENERAL REQUIREMENTS

**TABLE 301.1—continued
CLIMATE ZONES, MOISTURE REGIMES, AND WARM-HUMID DESIGNATIONS
BY STATE, COUNTY AND TERRITORY**

5B Kittitas	4A Kanawha	6A Brown	6A Pepin	6B Park
5B Klickitat	5A Lewis	6A Buffalo	6A Pierce	5B Platte
4C Lewis	4A Lincoln	7 Burnett	6A Polk	6B Sheridan
5B Lincoln	4A Logan	6A Calumet	6A Portage	7 Sublette
4C Mason	5A Marion	6A Chippewa	7 Price	6B Sweetwater
6B Okanogan	5A Marshall	6A Clark	6A Racine	7 Teton
4C Pacific	4A Mason	6A Columbia	6A Richland	6B Uinta
6B Pend Oreille	4A McDowell	6A Crawford	6A Rock	6B Washakie
4C Pierce	4A Mercer	6A Dane	6A Rusk	6B Weston
4C San Juan	5A Mineral	6A Dodge	6A Sauk	
4C Skagit	4A Mingo	6A Door	7 Sawyer	US
5B Skamania	5A Monongalia	7 Douglas	6A Shawano	TERRITORIES
4C Snohomish	4A Monroe	6A Dunn	6A Sheboygan	AMERICAN
5B Spokane	4A Morgan	6A Eau Claire	6A St. Croix	SAMOA
6B Stevens	5A Nicholas	7 Florence	7 Taylor	1A (all)*
4C Thurston	5A Ohio	6A Fond du Lac	6A Trempealeau	GUAM
4C Wahkiakum	5A Pendleton	7 Forest	6A Vernon	1A (all)*
5B Walla Walla	4A Pleasants	6A Grant	7 Vilas	NORTHERN
4C Whatcom	5A Pocahontas	6A Green	6A Walworth	MARIANA
5B Whitman	5A Preston	6A Green Lake	7 Washburn	ISLANDS
5B Yakima	4A Putnam	6A Iowa	6A Washington	1A (all)*
	5A Raleigh	7 Iron	6A Waukesha	PUERTO RICO
WEST VIRGINIA	5A Randolph	6A Jackson	6A Waupaca	1A (all)*
5A Barbour	4A Ritchie	6A Jefferson	6A Waushara	VIRGIN ISLANDS
4A Berkeley	4A Roane	6A Juneau	6A Winnebago	1A (all)*
4A Boone	5A Summers	6A Kenosha	6A Wood	
4A Braxton	5A Taylor	6A Kewaunee	WYOMING	
5A Brooke	5A Tucker	6A La Crosse	6B Albany	
4A Cabell	4A Tyler	6A Lafayette	6B Big Horn	
4A Calhoun	5A Upshur	7 Langlade	6B Campbell	
4A Clay	4A Wayne	7 Lincoln	6B Carbon	
5A Doddridge	5A Webster	6A Manitowoc	6B Converse	
5A Fayette	5A Wetzel	6A Marathon	6B Crook	
4A Gilmer	4A Wirt	6A Marinette	6B Fremont	
5A Grant	4A Wood	6A Marquette	5B Goshen	
5A Greenbrier	4A Wyoming	6A Menominee	6B Hot Springs	
5A Hampshire		6A Milwaukee	6B Johnson	
5A Hancock	WISCONSIN	6A Monroe	6B Laramie	
5A Hardy	6A Adams	6A Oconto	7 Lincoln	
5A Harrison	7 Ashland	7 Oneida	6B Natrona	
4A Jackson	6A Barron	6A Outagamie	6B Niobrara	
4A Jefferson	7 Bayfield	6A Ozaukee		

**TABLE 301.3(1)
INTERNATIONAL CLIMATE ZONE DEFINITIONS**

MAJOR CLIMATE TYPE DEFINITIONS	
Marine (C) Definition—Locations meeting all four criteria: <ol style="list-style-type: none"> 1. Mean temperature of coldest month between -3°C (27°F) and 18°C (65°F) 2. Warmest month mean < 22°C (72°F) 3. At least four months with mean temperatures over 10°C (50°F) 4. Dry season in summer. The month with the heaviest precipitation in the cold season has at least three times as much precipitation as the month with the least precipitation in the rest of the year. The cold season is October through March in the Northern Hemisphere and April through September in the Southern Hemisphere. 	
Dry (B) Definition—Locations meeting the following criteria: Not marine and $P_{in} < 0.44 \times (TF - 19.5)$ $[P_{cm} < 2.0 \times (TC + 7)$ in SI units] where: P_{in} = Annual precipitation in inches (cm) T = Annual mean temperature in °F (°C)	
Moist (A) Definition—Locations that are not marine and not dry.	
Warm-humid Definition—Moist (A) locations where either of the following wet-bulb temperature conditions shall occur during the warmest six consecutive months of the year: <ol style="list-style-type: none"> 1. 67°F (19.4°C) or higher for 3,000 or more hours; or 2. 73°F (22.8°C) or higher for 1,500 or more hours 	

For SI: °C = [(°F)-32]/1.8; 1 inch = 2.54 cm.

**TABLE 301.3(2)
INTERNATIONAL CLIMATE ZONE DEFINITIONS**

ZONE NUMBER	THERMAL CRITERIA	
	IP Units	SI Units
1	9000 < CDD50°F	5000 < CDD10°C
2	6300 < CDD50°F ≤ 9000	3500 < CDD10°C ≤ 5000
3A and 3B	4500 < CDD50°F ≤ 6300 AND HDD65°F ≤ 5400	2500 < CDD10°C ≤ 3500 AND HDD18°C ≤ 3000
4A and 4B	CDD50°F ≤ 4500 AND HDD65°F ≤ 5400	CDD10°C ≤ 2500 AND HDD18°C ≤ 3000
3C	HDD65°F ≤ 3600	HDD18°C ≤ 2000
4C	3600 < HDD65°F ≤ 5400	2000 < HDD18°C ≤ 3000
5	5400 < HDD65°F ≤ 7200	3000 < HDD18°C ≤ 4000
6	7200 < HDD65°F ≤ 9000	4000 < HDD18°C ≤ 5000
7	9000 < HDD65°F ≤ 12600	5000 < HDD18°C ≤ 7000
8	12600 < HDD65°F	7000 < HDD18°C

For SI: °C = [(°F)-32]/1.8

**SECTION 302
DESIGN CONDITIONS**

302.1 Interior design conditions. The interior design temperatures used for heating and cooling load calculations shall be a maximum of 72°F (22°C) for heating and minimum of 75°F (24°C) for cooling.

**SECTION 303
MATERIALS, SYSTEMS AND EQUIPMENT**

303.1 Identification. Materials, systems and equipment shall be identified in a manner that will allow a determination of compliance with the applicable provisions of this code.

GENERAL REQUIREMENTS

303.1.1 Building thermal envelope insulation. An *R*-value identification mark shall be applied by the manufacturer to each piece of *building thermal envelope* insulation 12 inches (305 mm) or greater in width. Alternately, the insulation installers shall provide a certification listing the type, manufacturer and *R*-value of insulation installed in each element of the *building thermal envelope*. For blown or sprayed insulation (fiberglass and cellulose), the initial installed thickness, settled thickness, settled *R*-value, installed density, coverage area and number of bags installed shall be *listed* on the certification. For sprayed polyurethane foam (SPF) insulation, the installed thickness of the areas covered and *R*-value of installed thickness shall be *listed* on the certification. The insulation installer shall sign, date and post the certification in a conspicuous location on the job site.

303.1.1.1 Blown or sprayed roof/ceiling insulation. The thickness of blown-in or sprayed roof/ceiling insulation (fiberglass or cellulose) shall be written in inches (mm) on markers that are installed at least one for every 300 square feet (28 m²) throughout the attic space. The markers shall be affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers a minimum of 1 inch (25 mm) in height. Each marker shall face the attic access opening. Spray polyurethane foam thickness and installed *R*-value shall be *listed* on certification provided by the insulation installer.

303.1.2 Insulation mark installation. Insulating materials shall be installed such that the manufacturer’s *R*-value mark is readily observable upon inspection.

303.1.3 Fenestration product rating. *U*-factors of fenestration products (windows, doors and skylights) shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled *U*-factor shall be assigned a default *U*-factor from Table 303.1.3(1) or 303.1.3(2). The solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC shall be assigned a default SHGC from Table 303.1.3(3).

**TABLE 303.1.3(2)
DEFAULT DOOR U-FACTORS**

DOOR TYPE	U-FACTOR
Uninsulated Metal	1.20
Insulated Metal	0.60
Wood	0.50
Insulated, nonmetal edge, max 45% glazing, any glazing double pane	0.35

**TABLE 303.1.3(3)
DEFAULT GLAZED FENESTRATION SHGC**

SINGLE GLAZED		DOUBLE GLAZED		GLAZED BLOCK
Clear	Tinted	Clear	Tinted	
0.8	0.7	0.7	0.6	0.6

303.1.4 Insulation product rating. The thermal resistance (*R*-value) of insulation shall be determined in accordance with the U.S. Federal Trade Commission *R*-value rule (CFR Title 16, Part 460, May 31, 2005) in units of h × ft² × °F/Btu at a mean temperature of 75°F (24°C).

303.2 Installation. All materials, systems and equipment shall be installed in accordance with the manufacturer’s installation instructions and the *International Building Code*.

303.2.1 Protection of exposed foundation insulation. Insulation applied to the exterior of basement walls, crawl-space walls and the perimeter of slab-on-grade floors shall have a rigid, opaque and weather-resistant protective covering to prevent the degradation of the insulation’s thermal performance. The protective covering shall cover the exposed exterior insulation and extend a minimum of 6 inches (153 mm) below grade.

303.3 Maintenance information. Maintenance instructions shall be furnished for equipment and systems that require preventive maintenance. Required regular maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label shall include the title or publication number for the operation and maintenance manual for that particular model and type of product.

**TABLE 303.1.3(1)
DEFAULT GLAZED FENESTRATION U-FACTOR**

FRAME TYPE	SINGLE PANE	DOUBLE PANE	SKYLIGHT	
			Single	Double
Metal	1.20	0.80	2.00	1.30
Metal with Thermal Break	1.10	0.65	1.90	1.10
Nonmetal or Metal Clad	0.95	0.55	1.75	1.05
Glazed Block	0.60			