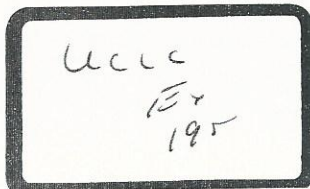


Land-Based Classification Standards

LBCS Tables

Contents

- 1 Introduction
- 2 All Dimensions -- Color Coding Scheme
- 3 Activity Dimension -- Summary
- 4 Activity Dimension -- Details
- 5 Function Dimension -- Summary
- 6 Function Dimension -- Details
- 7 Structure-Type Dimension -- Summary
- 8 Structure-Type Dimension -- Details
- 9 Site Development Character Dimension -- Summary
- 10 Site Development Character Dimension -- Details
- 11 Ownership Dimension -- Summary
- 12 Ownership Dimension -- Details
- 13 All Dimensions -- Summary -- 1-Digit Level
- 14 All Dimensions -- Summary -- 2-Digit Level



Land-Based Classification Standards

Introduction to LBCS Tables

Land-Based Classification Standards provide a consistent model for classifying land uses based on their characteristics. The model extends the notion of classifying land uses by refining traditional categories into multiple dimensions, such as activities, functions, building types, site development character, and ownership constraints. Each dimension has its own set of categories and subcategories for classifying land uses. By classifying every land-use across multiple dimensions, users can have precise control of land-use classifications.

Classifying land uses across multiple dimensions, in database terms, means adding new fields to the land-use database. The total number of land-use fields in the database should equal the number of dimensions. That is, every record in the database is classified in not just one land-use field, but several—one for each dimension. And the number of dimensions, in turn, will depend on the purpose of the data. When the purpose of the data changes, dimensions may be added or dropped as needed. For local planning purposes, LBCS calls for classifying land uses in the following dimensions: activity, function, structure type, site development character, and ownership.

Activity *An observable characteristic of land based on actual use.*
Activity refers to the actual use of land based on its observable characteristics. It describes what actually takes place in physical or observable terms (e.g., farming, shopping, manufacturing, vehicular movement, etc.). An office activity, for example, refers only to the physical activity on the premises, which could apply equally to a law firm, a nonprofit institution, a court house, a corporate office, or any other office use. Similarly, residential uses in single-family dwellings, multifamily structures, manufactured houses, or any other type of building, would all be classified as residential activity.

Function *The economic use or type of establishment using the land.*
Function refers to the economic function or type of establishment using the land. Every land-use can be characterized by the type of establishment it serves. Land-use terms, such as agricultural, commercial, industrial, relate to establishments. The type of economic function served by the land-use gets classified in this dimension; it is independent of actual activity on the land. Establishments can have a variety of activities on their premises, yet serve a single function. For example, two parcels are said to be in the same functional category if they serve the same establishment, even if one is an office building and the other is a factory.

Structure *Type of structure or building type on the land.*
Structure refers to the type of structure or building on the land. Land-use terms embody a structural or building characteristic, which indicates the utility of the space (in a building) or land (when there is no building). Land-use terms, such as single-family house, office building, warehouse, hospital building, or highway, also describe structural characteristic. Although many activities and functions are closely associated with

certain structures, it is not always so. Many buildings are often adapted for uses other than its original use. For instance, a single-family residential structure may be used as an office.

Site **The overall physical site development character of the land.**

Site development character refers to the overall physical development character of the land. It describes "what is on the land" in general physical terms. For most land uses, it is simply expressed in terms of whether the site is developed or not. But not all sites without observable development can be treated as undeveloped. Land uses, such as parks and open spaces, which often have a complex mix of activities, functions, and structures on them, need categories independent of other dimensions. This dimension uses categories that describe the overall site development characteristics.

Ownership **Legal and quasi-legal ownership constraints of the land.**

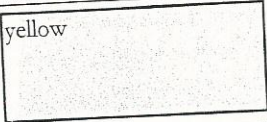



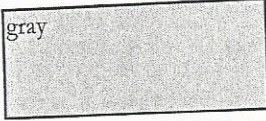

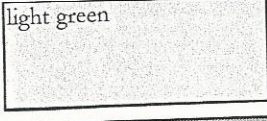
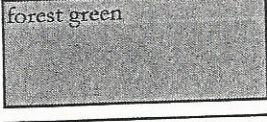

Ownership refers to the relationship between the use and its land rights. Since the function of most land uses is either public or private and not both, distinguishing ownership characteristics seems obvious. However, relying solely on the functional character may obscure such uses as private parks, public theaters, private stadiums, private prisons, and mixed public and private ownership. Moreover, easements and similar legal devices also limit or constrain land-use activities and functions. This dimension allows classifying such ownership characteristics more accurately.

The underlying principle of the LBCS model is its flexibility. Flexibility in adapting the model to a variety of planning applications, data collection methods, data sharing and integrating methods, color coding land uses, adding new land uses, measuring new characteristics for existing uses, or customizing for local needs without losing the ability to share data. Each of these aspects of LBCS call for applying either a standard or adopting an existing convention.

Land-Based Classification Standards

LBCS Color Codes for 1-Digit Level Coding

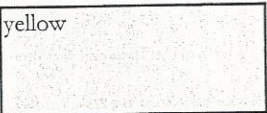
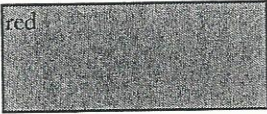


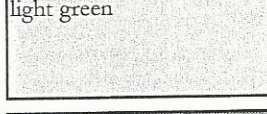
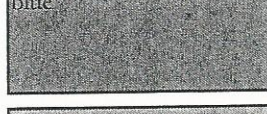
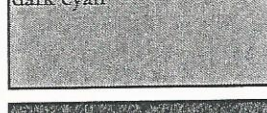


Activity

Red, Green, Blue Values	Color*	LBCS Code
RGB(255,255,0) RGBHex(FFFF00)	yellow 	1000 Residential activities
RGB(255,0,0) RGBHex(FF0000)	red 	2000 Shopping, business, or trade activities
RGB(160,32,240) RGBHex(A020F0)	purple 	3000 Industrial, manufacturing, and waste-related activities
RGB(0,0,255) RGBHex(0000FF)	blue 	4000 Social, institutional, or infrastructure-related activities
RGB(190,190,190) RGBHex(BEBEBE)	gray 	5000 Travel or movement activities
RGB(47,79,79) RGBHex(2F4F4F)		6000 Mass assembly of people
RGB(144,238,144) RGBHex(90EE90)	light green 	7000 Leisure activities
RGB(34,139,34) RGBHex(228B22)	forest green 	8000 Natural resources-related activities
RGB(255,255,255) RGBHex(FFFFFF)	white 	9000 No human activity or unclassifiable activity

*Specify the RGB (red, green, blue) values, instead of relying on color names, for consistent reproduction of colors on a printer, plotter, or computer screen. Using RGB values can sometimes avoid differences in how software and hardware render colors. Some colors, no matter what, differ how they look on screen from their printed version. Also, if you are reviewing this document on a computer screen, note that some software (web browsers, for example) limit the number of colors displayed. If your software can only accept hexadecimal values, as many GIS and plotting software do, then use the corresponding RGBHex value. For CMYK values and other color coding details, check the LBCS website.

LBCS Color Codes for 1-Digit Level Coding

Function

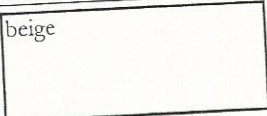


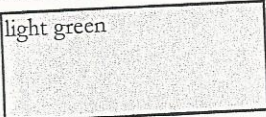

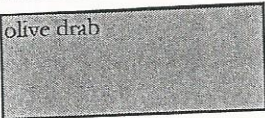
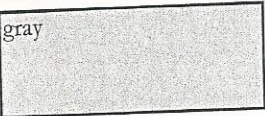

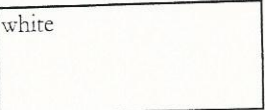
Red, Green, Blue Values	Color*	LBCS Code
RGB(255,255,0) RGBHex(FFFF00)	yellow 	1000 Residence or accommodation functions
RGB(255,0,0) RGBHex(FF0000)	red 	2000 General sales or services
RGB(160,32,240) RGBHex(A020F0)	purple 	3000 Manufacturing and wholesale trade
RGB(190,190,190) RGBHex(BEBEBE)	gray 	4000 Transportation, communication, information, and utilities
RGB(144,238,144) RGBHex(90EE90)	light green 	5000 Arts, entertainment, and recreation
RGB(0,0,255) RGBHex(0000FF)	blue 	6000 Education, public admin., health care, and other inst.
RGB(0,139,139) RGBHex(008B8B)	dark cyan 	7000 Construction-related businesses
RGB(85,26,139) RGBHex(55008B)	purple 	8000 Mining and extraction establishments
RGB(34,139,34) RGBHex(228B22)	forest green 	9000 Agriculture, forestry, fishing and hunting

*Specify the RGB (red, green, blue) values, instead of relying on color names, for consistent reproduction of colors on a printer, plotter, or computer screen. Using RGB values can sometimes avoid differences in how software and hardware render colors. Some colors, no matter what, differ how they look on screen from their printed version. Also, if you are reviewing this document on a computer screen, note that some software (web browsers, for example) limit the number of colors displayed. If your software can only accept hexadecimal values, as many GIS and plotting software do, then use the corresponding RGBHex value. For CMYK values and other color coding details, check the LBCS website.

Land-Based Classification Standards

LBCS Color Codes for 1-Digit Level Coding

Ownership

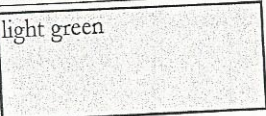
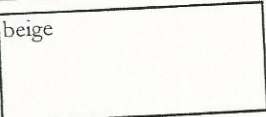
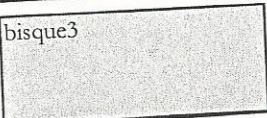



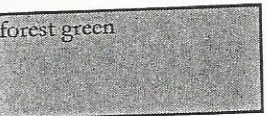
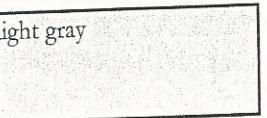
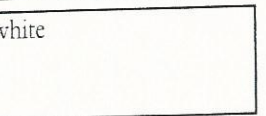
Red, Green, Blue Values	Color*	LBCS Code
RGB(245,245,220) RGBHex(F5F5DC)	beige 	1000 No constraints--private ownership
RGB(0,0,255) RGBHex(0000FF)	blue 	2000 Some constraints--easements or other use restrictions
RGB(0,0,139) RGBHex(00008B)		3000 Limited restrictions--leased and other tenancy restrictions
RGB(144,238,144) RGBHex(90EE90)	light green 	4000 Public restrictions--local, state, and federal ownership
RGB(0,100,0) RGBHex(006400)	dark green 	5000 Other public use restrictions--regional, special districts, etc
RGB(107,142,35) RGBHex(6B8E23)	olive drab 	6000 Nonprofit ownership restrictions
RGB(190,190,190) RGBHex(BEBEBE)	gray 	7000 Joint ownership character--public entities
RGB(0,0,0) RGBHex(000000)		8000 Joint ownership character--public, private, nonprofit, etc.
RGB(255,255,255) RGBHex(FFFFFF)	white 	9000 Not applicable to this dimension

*Specify the RGB (red, green, blue) values, instead of relying on color names, for consistent reproduction of colors on a printer, plotter, or computer screen. Using RGB values can sometimes avoid differences in how software and hardware render colors. Some colors, no matter what, differ how they look on screen from their printed version. Also, if you are reviewing this document on a computer screen, note that some software (web browsers, for example) limit the number of colors displayed. If your software can only accept hexadecimal values, as many GIS and plotting software do, then use the corresponding RGBHex value. For CMYK values and other color coding details, check the LBCS website.

Land-Based Classification Standards

LBCS Color Codes for 1-Digit Level Coding

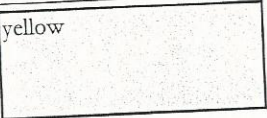






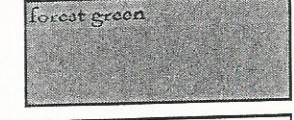

Site

Red, Green, Blue Values	Color*	LBCS Code
RGB(144,238,144) RGBHex(90EE90)	light green 	1000 Site in natural state
RGB(245,245,220) RGBHex(F5F5DC)	beige 	2000 Developing site
RGB(205,183,158) RGBHex(CDB79E)	bisque3 	3000 Developed site -- crops, grazing, forestry, etc.
RGB(139,126,102) RGBHex(8B7E66)	wheat4 	4000 Developed site -- no buildings and no structures
RGB(139,90,43) RGBHex(8A5A2B)	tan4 	5000 Developed site -- nonbuilding structures
RGB(139,35,35) RGBHex(8B2323)		6000 Developed site -- with buildings
RGB(34,139,34) RGBHex(228B22)	forest green 	7000 Developed site -- with parks
RGB(211,211,211) RGBHex(D3D3D3)	light gray 	8000 Not applicable to this dimension
RGB(255,255,255) RGBHex(FFFFFF)	white 	9000 Unclassifiable site development character

*Specify the RGB (red, green, blue) values, instead of relying on color names, for consistent reproduction of colors on a printer, plotter, or computer screen. Using RGB values can sometimes avoid differences in how software and hardware render colors. Some colors, no matter what, differ how they look on screen from their printed version. Also, if you are reviewing this document on a computer screen, note that some software (web browsers, for example) limit the number of colors displayed. If your software can only accept hexadecimal values, as many GIS and plotting software do, then use the corresponding RGBHex value. For CMYK values and other color coding details, check the LBCS website.

LBCS Color Codes for 1-Digit Level Coding

Structure

Red, Green, Blue Values	Color*	LBCS Code
RGB(255,255,0) RGBHex(FFFF00)	yellow 	1000 Residential buildings
RGB(255,0,0) RGBHex(FF0000)	red 	2000 Commercial buildings and other specialized structures
RGB(160,32,240) RGBHex(A020F0)	purple 	3000 Public assembly structures
RGB(0,0,255) RGBHex(0000FF)	blue 	4000 Institutional or community facilities
RGB(190,190,190) RGBHex(BEBEBE)	gray 	5000 Transportation-related facilities
RGB(133,133,133) RGBHex(858585)	gray52 	6000 Utility and other nonbuilding structures
RGB(255,192,203) RGBHex(FFC0CB)	pink 	7000 Specialized military structures
RGB(34,139,34) RGBHex(228B22)	forest green 	8000 Sheds, farm buildings, or agricultural facilities
RGB(255,255,255) RGBHex(FFFFFF)	white 	9000 No structure

*Specify the RGB (red, green, blue) values, instead of relying on color names, for consistent reproduction of colors on a printer, plotter, or computer screen. Using RGB values can sometimes avoid differences in how software and hardware render colors. Some colors, no matter what, differ how they look on screen from their printed version. Also, if you are reviewing this document on a computer screen, note that some software (web browsers, for example) limit the number of colors displayed. If your software can only accept hexadecimal values, as many GIS and plotting software do, then use the corresponding RGBHex value. For CMYK values and other color coding details, check the LBCS website.

Land-Based Classification Standards

LBCS Activity Dimension

Activity is one of five dimensions in land-based classifications. Each dimension is an attribute that takes the appropriate four-digit code. Only by using all five dimensions can one fully represent all land uses and describe their characteristics. See the other dimensions before applying LBCS.

01-Apr-2001

Activity Code	Activity Description
1000	Residential activities
1100	Household activities
1200	Transient living
1300	Institutional living
2000	Shopping, business, or trade activities
2100	Shopping
2110	Goods-oriented shopping
2120	Service-oriented shopping
2200	Restaurant-type activity
2210	Restaurant-type activity with drive-through
2300	Office activities
2310	Office activities with high turnover of people
2320	Office activities with high turnover of automobiles
3000	Industrial, manufacturing, and waste-related activities
3100	Plant, factory, or heavy goods storage or handling activities
3110	Primarily plant or factory-type activities
3120	Primarily goods storage or handling activities
3200	Solid waste management activities
3210	Solid waste collection and storage
3220	Landfilling or dumping
3230	Waste processing or recycling
3300	Construction activities (grading, digging, etc.)
4000	Social, institutional, or infrastructure-related activities
4100	School or library activities
4110	Classroom-type activities
4120	Training or instructional activities outside classrooms
4130	Other instructional activities including those that occur in libraries
4200	Emergency response or public-safety-related activities
4210	Fire and rescue-related activities
4220	Police, security, and protection-related activities
4230	Emergency or disaster-response-related activities
4300	Activities associated with utilities (water, sewer, power, etc.)
4310	Water-supply-related activities
4311	Water storing, pumping, or piping
4312	Water purification and filtration activities
4313	Irrigation water storage and distribution activities
4314	Flood control, dams, and other large irrigation activities

Activity

Activity Code Activity Description

4320	Sewer-related control, monitor, or distribution activities
4321	Sewage storing, pumping, or piping
4322	Sewer treatment and processing
4330	Power generation, control, monitor, or distribution activities
4331	Power transmission lines or control activities
4332	Power generation, storage, or processing activities
4340	Telecommunications-related control, monitor, or distribution activities
4350	Natural gas or fuels-related control, monitor, or distribution activities
4400	Mass storage, inactive
4410	Water storage
4420	Storage of natural gas, fuels, etc.
4430	Storage of chemical, nuclear, or other materials
4500	Health care, medical, or treatment activities
4600	Interment, cremation, or grave digging activities
4700	Military base activities
4710	Ordnance storage
4720	Range and test activities
5000	Travel or movement activities
5100	Pedestrian movement
5200	Vehicular movement
5210	Vehicular parking, storage, etc.
5220	Drive-in, drive through, stop-n-go, etc.
5400	Trains or other rail movement
5410	Rail maintenance, storage, or related activities
5500	Sailing, boating, and other port, marine and water-based activities
5510	Boat mooring, docking, or servicing
5520	Port, ship-building, and related activities
5600	Aircraft takeoff, landing, taxiing, and parking
5700	Spacecraft launching and related activities
6000	Mass assembly of people
6100	Passenger assembly
6200	Spectator sports assembly
6300	Movies, concerts, or entertainment shows
6400	Gatherings at fairs and exhibitions
6500	Mass training, drills, etc.
6600	Social, cultural, or religious assembly
6700	Gatherings at galleries, museums, aquariums, zoological parks, etc.
6800	Historical or cultural celebrations, parades, reenactments, etc.
7000	Leisure activities
7100	Active leisure sports and related activities
7110	Running, jogging, bicycling, aerobics, exercising, etc.
7120	Equestrian sporting activities
7130	Hockey, ice skating, etc.
7140	Skiing, snowboarding, etc.
7150	Automobile and motorbike racing

Activity Code Activity Description

01-Apr-2001

7160	Golf
7180	Tennis
7190	Track and field, team sports (baseball, basketball, etc.), or other sports
7200	Passive leisure activity
7210	Camping
7220	Gambling
7230	Hunting
7240	Promenading and other activities in parks
7250	Shooting
7260	Trapping
7300	Flying or air-related sports
7400	Water sports and related leisure activities
7410	Boating, sailing, etc.
7420	Canoeing, kayaking, etc.
7430	Swimming, diving, etc.
7440	Fishing, angling, etc.
7450	Scuba diving, snorkeling, etc.
7460	Water-skiing
8000	Natural resources-related activities
8100	Farming, tilling, plowing, harvesting, or related activities
8200	Livestock related activities
8300	Pasturing, grazing, etc.
8400	Logging
8500	Quarrying or stone cutting
8600	Mining including surface and subsurface strip mining
8700	Drilling, dredging, etc.
9000	No human activity or unclassifiable activity
9100	Not applicable to this dimension
9200	Unclassifiable activity
9300	Subsurface activity
9900	To be determined
9990	To be determined
9999	To be determined

Land-Based Classification Standards

LBCS Activity Dimension with Detail Descriptions

Activity is one of five dimensions in land-based classifications. Each dimension is an attribute that takes the appropriate four-digit code. Only by using all five dimensions can one fully represent all land uses and describe their characteristics. See the other dimensions before applying LBCS.

- Activity** **An observable characteristic of land based on actual use.**
Activity refers to the actual use of land based on its observable characteristics. It describes what actually takes place in physical or observable terms (e.g., farming, shopping, manufacturing, vehicular movement, etc.). An office activity, for example, refers only to the physical activity on the premises, which could apply equally to a law firm, a nonprofit institution, a court house, a corporate office, or any other office use. Similarly, residential uses in single-family dwellings, multifamily structures, manufactured houses, or any other type of building, would all be classified as residential activity.
- Function** **The economic use or type of establishment using the land.**
Function refers to the economic function or type of establishment using the land. Every land-use can be characterized by the type of establishment it serves. Land-use terms, such as agricultural, commercial, industrial, relate to establishments. The type of economic function served by the land-use gets classified in this dimension; it is independent of actual activity on the land. Establishments can have a variety of activities on their premises, yet serve a single function. For example, two parcels are said to be in the same functional category if they serve the same establishment, even if one is an office building and the other is a factory.
- Structure** **Type of structure or building type on the land.**
Structure refers to the type of structure or building on the land. Land-use terms embody a structural or building characteristic, which indicates the utility of the space (in a building) or land (when there is no building). Land-use terms, such as single-family house, office building, warehouse, hospital building, or highway, also describe structural characteristic. Although many activities and functions are closely associated with certain structures, it is not always so. Many buildings are often adapted for uses other than its original use. For instance, a single-family residential structure may be used as an office.
- Site** **The overall physical site development character of the land.**
Site development character refers to the overall physical development character of the land. It describes "what is on the land" in general physical terms. For most land uses, it is simply expressed in terms of whether the site is developed or not. But not all sites without observable development can be treated as undeveloped. Land uses, such as parks and open spaces, which often have a complex mix of activities, functions, and structures on them, need categories independent of other dimensions. This dimension uses categories that describe the overall site development characteristics.
- Ownership** **Legal and quasi-legal ownership constraints of the land.**
Ownership refers to the relationship between the use and its land rights. Since the function of most land uses is either public or private and not both, distinguishing ownership characteristics seems obvious. However, relying solely on the functional character may obscure such uses as private parks, public theaters, private stadiums, private prisons, and mixed public and private ownership. Moreover, easements and similar legal devices also limit or constrain land-use activities and functions. This dimension allows classifying such ownership characteristics more accurately.

1000	Residential activities	Includes activities that occur in all types of residential uses, structures, ownership characteristics, or the character of the development.
1100	Household activities	Includes those activities normally associated with single-family, multifamily, town homes, manufactured homes, etc.
1200	Transient living	Activities associated with hotels, motels, tourist homes, bed and breakfast, etc. Note that the distinction between various residential activities is independent of the definition of a family.
1300	Institutional living	Residential living activity associated with dormitories, group homes, barracks, retirement homes, etc. These activities may occur in any number of structural types (single-family homes, multi-family homes, manufactured homes, etc.), but the activity characteristics of such living is not the same as the other subcategories under residential activities. Also note that the distinction between various residential activities is independent of the definition of a family.
2000	Shopping, business, or trade activities	This category captures all uses that are business related. Use it as a catch-all category for all retail, office, commercial, and industrial activities when the subcategories are either too specific or otherwise unknown (as in comprehensive plan designations).
2100	Shopping	Primarily for all retail shops and stores. If the shop sells both goods and services, or if it is not clear which of the two more detailed categories to assign, then use this one. Increasingly, distinguishing between a store (that sells goods) and shop (that sells service) will become difficult and for many planning-related applications even irrelevant. Even economic applications that employed such distinctions are reconsidering because of the difficulty in distinguishing between goods and services. However, for those planning applications that require this distinction, or for existing land-use data sets that already employ such distinctions, apply the subcategories. Otherwise, for routine land-use data classification, apply the Shopping category only.
2110	Goods-oriented shopping	Activities in stores that trade retail goods. The distinction is in the physical attributes of activities associated with goods (buying, selling, repairing, etc.) and not the type of goods.
2120	Service-oriented shopping	Those shops that primarily sell services on site. The distinction is in the physical attributes of activities associated with services, such as hairdressing. Business services, such as accounting, legal services, advertising, etc., belong

in the office category.

- 2200 Restaurant-type activity
Eating, dining, and such activities associated with restaurants and other establishments that serve food, drink, and related products to be consumed on or off premises.
- 2210 Restaurant-type activity with drive-through
Eating, dining, and such activities associated with restaurants and other establishments that serve food, drink, and related products that may have seating but has drive-through facilities. Such activities, although commonly associated with fast-food restaurants, may also occur at restaurants and food establishments that do not serve fast food.
- 2300 Office activities
Typical office uses should be categorized here including those that are primarily office-use in character. Use this category as a catch-all designation for all office-type uses.
- 2310 Office activities with high turnover of people
Especially those that have counters for customer service, or waiting areas for customers or visitors. Use this category to indicate an activity characterized by a steady stream of people when such activity is part of normal operations of the office use.
- 2320 Office activities with high turnover of automobiles
Typically associated with drive-through windows at banks, department of motor vehicles, and other businesses. Traditionally, these activities were associated with banks, post offices, and financial institutions, but they may also occur at other kinds of establishments.
- 3000 Industrial, manufacturing, and waste-related activities
All manufacturing, assembly, warehouse, and waste management activities. Use this as a catch-all category for anything not specified in subcategories below.
- 3100 Plant, factory, or heavy goods storage or handling activities
All industrial activities. Use this as a catch-all category for anything not specified in subcategories below.
- 3110 Primarily plant or factory-type activities
Assembly plants, manufacturing facilities, industrial machinery, etc.
- 3120 Primarily goods storage or handling activities
Characterized by loading and unloading goods at warehouses, large storage structures, movement of goods, shipping, and trucking. Includes self-storage activities.

3200	Solid waste management activities	Includes storing, collecting, dumping, waste processing, and other related operations.
3210	Solid waste collection and storage	<p>Solid waste activities at source or intermediate locations, such as recycling centers. Use this category for large sites that have their own recycling areas where solid waste is separated or pretreated. Solid waste includes demolition waste, street sweepings, sewage sludge, industrial solids and sludges, agricultural manure, and crop wastes.</p> <p>The term garbage refers to food waste portion of solid waste and refuse or trash refer to mixed solid wastes.</p> <p>This category also includes activities associated with recycling (or refuse reclamation) and other related operations with landfilling.</p>
3220	Landfilling or dumping	Activities that typically occur at landfills and resource recovery facilities. Also useful to mark those areas not necessarily identified as landfills, but used as dumps. The term sanitary landfill is sometimes used to differentiate public landfills from others.
3230	Waste processing or recycling	Activities normally associated with incinerators, recycling facilities, resource recovery facilities, etc.
3300	Construction activities (grading, digging, etc.)	During the construction stage of a development, especially if it is a large-scale one and is a multiyear project, the characteristics of the use is quite different from what it may eventually become. When local plans need to track such activities, use this category. Once completed, the activity code should reflect its actual use.
4000	Social, institutional, or infrastructure-related activities	Use this category for all institutional activities. This broad category may also be used for land-use designations in comprehensive and general plans.
4100	School or library activities	<p>Mainly those associated with educational, instructional, or teaching activities. Administrative functions, especially those where school board or administrative offices are located, should be assigned office categories. Likewise, sports, school-bus parking, or maintenance activities should be assigned appropriate categories. But if the data being classified is generalizing over large areas, then use this category.</p>
4110	Classroom-type activities	Those that occur in school buildings, lecture rooms, etc. This category may include other related activities only if the data is being generalized and the

predominant activities are classroom-type instructions.

- 4120 Training or instructional activities outside classrooms
 Driving, flying, or other instructional activities that occur outside a typical school building.
- 4130 Other instructional activities including those that occur in libraries
 Include all other instructional activities here.
- 4200 Emergency response or public-safety-related activities
 Broad category to group all fire, police, rescue, EMS, and other public safety activities. Use this category for joint or co-located facilities if the application needs a single activity code.
- 4210 Fire and rescue-related activities
 The classic example is a fire station with fire trucks in standard bays with associated training, resting, office, and equipment storing activities on the site. Use this category for sites that do not necessarily look like a fire station, but serve the same purpose (e.g., on-site fire and rescue stations for large-scale developments).
- 4220 Police, security, and protection-related activities
 Policing and police-related activities that typically occur in a police station. It also includes community policing centers located in neighborhoods, which may occupy store-front locations.
- 4230 Emergency or disaster-response-related activities
 Many look like a typical office building but are distinct in the operations in them. Often they have the 911 emergency center, disaster coordination facilities, and essential communication facilities for disaster recovery and response. Note that this category is not for coding schools and other community facilities used in disaster recovery operations.
- 4300 Activities associated with utilities (water, sewer, power, etc.)
 Group all utilities: water, sewer, power, gas, etc.
- 4310 Water-supply-related activities
 Category for water supply-related, including irrigation-related activities. Use this category for any activity associated with water supply.
- 4311 Water storing, pumping, or piping
 Activities primarily associated with linear features, such as pipelines, water channels, etc., located in easements and point features, such as air vents, pumping stations, piping junctions, etc., that may or may not be located in easements.
- 4312 Water purification and filtration activities
 Associated with large-scale plants, many of which appear industrial in

character. This category should also include all the related activities associated with a water purification and filtration facility, such as water storage, water pumping, etc.

4313

Irrigation water storage and distribution activities

This category includes activities associated with urban and rural water distribution systems. Although not as common as the water purification plants, these activities are commonly associated with wells and reservoirs for water supply.

4314

Flood control, dams, and other large irrigation activities

Associated with dams, reservoirs, and other large-scale storage and distribution of water. Primarily industrial in character, many such sites also host other activities, such as sightseeing, power generation, leisure activities, environmental monitoring, etc.

4320

Sewer-related control, monitor, or distribution activities

This activity is characterized by sewer-related activities, such as pumping, piping, storing, treating, filtering, etc., whether urban or rural, private or public. Use this category for any activity associated with sewers.

4321

Sewage storing, pumping, or piping

Activities primarily associated with linear features, such as pipelines, channels, etc., located in easements and point features, such as air vents, pumping stations, piping junctions, etc., that may or may not be in easements.

4322

Sewer treatment and processing

Associated with sewer treatment plants, many of which appear industrial in character. This category also includes related activities associated with a sewer treatment and processing facility, such as storage, pumping, etc.

4330

Power generation, control, monitor, or distribution activities

This activity is characterized by electrical power generation, control facilities, distribution centers, etc. Use this category for any activity associated with power supply and distribution.

4331

Power transmission lines or control activities

Activities primarily associated with linear features, such as transmission lines, conduits, etc., located in easements and point features, such as air vents, pumping stations, piping junctions, etc., that may or may not be in easements.

4332

Power generation, storage, or processing activities

Activities primarily associated with switching centers, transformer locations, and other power-related facilities that serve as storage or transit points in the distribution system.

4340	Telecommunications-related control, monitor, or distribution activities Activities associated with telecommunications encompass communication tower facilities, antennae locations, repeater stations, and distribution centers.
4350	Natural gas or fuels-related control, monitor, or distribution activities Activities associated with natural gas encompass production facilities, distribution lines, and control and monitor stations.
4400	Mass storage, inactive Activities associated with large storage areas for water, fuels, waste, and other products where such storage is not associated with utilities. These facilities may be associated with a private or public establishment to serve functions not associated with utilities.
4410	Water storage Not related to utilities, but may be related to an industrial or commercial enterprise. This may include tanks, tank farms, open storage, etc., above or below ground.
4420	Storage of natural gas, fuels, etc. Not related to utilities, but may be related to an industrial or commercial enterprise. This may include tanks, tank farms, open storage, etc., above or below ground.
4430	Storage of chemical, nuclear, or other materials Not related to utilities, but may be related to an industrial or commercial enterprise. This may include tanks, tank farms, open storage, etc., above or below ground.
4500	Health care, medical, or treatment activities Activities in this category encompass those associated with clinics, hospitals, and other facilities that treat, house, or care for patients.
4600	Interment, cremation, or grave digging activities This category encompasses activities associated with cemeteries, cremation facilities, funeral homes, and the like.
4700	Military base activities Military bases are typically complex collection of activities that include a wide range of activities associated with military training, living and recreational facilities for military personnel, storage and maintenance facilities, and other related facilities.
4710	Ordnance storage Activities primarily associated with storing and moving of military ordnance.
4720	Range and test activities These activities encompass large areas for range and test activities of arms,

ammunitions, war games, and related military activities. Although such activities are part of a military base, identifying this special category is useful for planning around bases for land-use compatibility.

5000 Travel or movement activities

This category encompasses activities associated with all modes of transportation. It includes rights-of-way and such linear features associated with transportation.

5100 Pedestrian movement

Use this category for classifying pedestrian-only roads and open mall areas in road rights-of-way. Although comprehensive plans may not depend on such distinctions, many site plans and urban designs use them for circulation components of their plans.

5200 Vehicular movement

This is a catch-all category for all forms of automobile movement on roads, parking areas, drive-through facilities, etc. Use the subcategories to further distinguish them.

5210 Vehicular parking, storage, etc.

Activities associated with parking or storing of automobiles.

5220 Drive-in, drive through, stop-n-go, etc.

Activities associated with serving customers in their automobiles from a fixed location, such as a drive-through window. Assign this code to those uses that have drive-through window facilities. This also includes activities associated with car washes and such where the customers drive through specialized facilities.

5400 Trains or other rail movement

Includes activities associated with movement of rails and other vehicles on railroads. It includes activities associated with rail maintenance, storage, and rights-of-way for railroads.

5410 Rail maintenance, storage, or related activities

Use this category for identifying rail maintenance and storage activities, which are industrial in character, from rail movement and railroad rights-of-way. This category also includes railroad switching activities.

5500 Sailing, boating, and other port, marine and water-based activities

This category includes activities associated with water and marine based travel, movement, and their related activities. Use the subcategories to distinguish areas of marine movement from marine storage activities.

5510 Boat mooring, docking, or servicing

Use this subcategory for activities associated with docks and marinas where boats and ships are anchored, moored, or serviced.

5520	Port, ship-building, and related activities	These activities include a complex collection of shipping, storing, repairing and other similar activities that are industrial in nature. Passenger terminals are not included in this category.
5600	Aircraft takeoff, landing, taxiing, and parking	These activities encompass all aspects of air travel and transportation that occur at ground facilities, such as airports, hangars, and similar facilities. Passenger terminals are not included in this category.
5700	Spacecraft launching and related activities	These activities include space vehicle control, storage, movement, and viewing areas. Although they appear similar to air transportation facilities, spacecraft related activities entail several other activities.
6000	Mass assembly of people	This is a catch-all category for activities associated with mass assembly of people for either transportation, spectator sports, entertainment, or other social and institutional reasons. Use the subcategories to further classify the type of mass assembly.
6100	Passenger assembly	This category is for activities primarily associated with bus, train, and airport terminals.
6200	Spectator sports assembly	Spectator sports assembly may occur in stadiums, open grounds, or other venues occasionally used for such purposes. Identifying such activities may be required for public safety related applications.
6300	Movies, concerts, or entertainment shows	Besides performance viewing, this category also includes related activities associated with such performances: food and souvenir vending, purchasing tickets, and related activities. This category also includes mass assembly at theaters and planetariums.
6400	Gatherings at fairs and exhibitions	Mass assembly of people at fairs and exhibitions includes activities associated with food and souvenir vending, purchasing tickets, and related activities. This category also includes activities associated with entertainment shows, park rides, etc., at fairs.
6500	Mass training, drills, etc.	Includes activities in parade grounds and drill fields associated with institutions.
6600	Social, cultural, or religious assembly	Use this category for mass assembly of people for social (eg, city hall),

cultural (eg., parades), or religious (eg. churches) purposes. It also includes large outdoor ceremonies for religious, cultural, or other purposes. Although such activities may occur infrequently and may not involve any functional or structural characteristics (for example a spontaneous gathering that occurs on an annual basis on a hilltop), identifying where mass assembling of people occurs is essential for many planning applications. Use this category to capture such use information. Often this may mean assigning a mass assembly category to areas that already have other activity categories assigned. Apply this category when other more specific mass assembly categories are inappropriate.

- 6700 Gatherings at galleries, museums, aquariums, zoological parks, etc.
Public assembly gatherings at galleries, museums, aquariums, zoological parks, and similar exhibition services are characterized by a steady stream of people as opposed to mass congregation of viewers at movie theaters and such. Although the distinction may not be significant, certain public assembly activities require this information separate from other kinds of gatherings in planning for public safety.
- 6800 Historical or cultural celebrations, parades, reenactments, etc.
These are usually annual gatherings, parades, and cultural celebrations that may involve shows, amusement park-like assembly of people, and selling food, drink and souvenirs.
- 7000 Leisure activities
This is a catch-all category for classifying all forms of leisure activities. It includes the customary active and passive kinds of leisure activities although such distinctions are difficult to define. Although LBCS provides active and passive subcategories, for new data classification purposes either apply this category (for top level coding) or identify the precise nature of activities (which are at the third-level coding).
- 7100 Active leisure sports and related activities
This category refers to an arbitrary second-level coding to accommodate existing data classified as either active or passive leisure activities. Although the distinction between active and passive are difficult to separate, use this category only if more precise lower-level categories are combined in existing data. For new data classification purposes either apply this category (for top level coding) or identify the precise nature of activities (which are at the third-level coding).
- 7110 Running, jogging, bicycling, aerobics, exercising, etc.
Although these activities are normally associated with bike paths, jogging trails, sidewalks, and such facilities, they also include the kinds that happen on athletic tracks and playgrounds. Exercising and aerobic activities include those that take place in health clubs and gymnasiums besides outdoor facilities.
- 7120 Equestrian sporting activities
This category is for all equestrian-related leisure activities including riding,

mounting, horsemanship, and equestrian games, such as polo, hurdles, dressage training and show jumping. The related categories include those incidental to maintaining stables, feeding, caring, and housing horses.

7130 Hockey, ice skating, etc.

This is a broad category to include activities normally associated with ice rinks and skating on ice. Hockey and other sports on ice are also included in this category.

7140 Skiing, snowboarding, etc.

This is a broad category that includes leisure sport activities on snow: skiing, luge, bobsled, toboggan.

7150 Automobile and motorbike racing

This is a broad category to include the myriad forms of vehicular sports including automobile racing, dirt racing, motorcycle racing, and other cross-country type events.

7160 Golf

Includes other leisure activities, such as pall-mall, tipcart, croquet, golf, curling, and pall one besides golf.

7180 Tennis

Because of its unique site development characteristic, traditionally lawn tennis (as opposed to table tennis) has been classified distinct from other sporting activities. It also includes related sports, such as racquet ball.

7190 Track and field, team sports (baseball, basketball, etc.), or other sports

This includes activities associated with playing baseball, basketball, and other related games.

7200 Passive leisure activity

This category refers to an arbitrary second-level coding to accommodate existing data classified as either active or passive leisure activities. Although the distinction between active and passive are difficult to separate, use this category only if more precise lower-level categories are combined in existing data. For new data classification purposes either apply this category (for top level coding) or identify the precise nature of activities (which are at the third-level coding).

7210 Camping

Camping is a broad category that includes parts of activities associated with of shelter, recreation, and other related activities, such as hunting, fishing, sailing, etc. The designation applies to only those camping areas and camp grounds where camps are allowed.

7220 Gambling

Casinos normally host gambling, wagering, and those establishments that serve the gaming aspects of leisure activities. However, many other types of

establishments also provide slot machines, and other gambling and gaming facilities (shopping centers in Las Vegas, for instance).

7230 Hunting

Hunting activities include live and also clay pigeon and skeet shooting.

7240 Promenading and other activities in parks

This is a catch-all category for all other areas of parks and recreational areas that do not qualify under any of the other more specific categories.

7250 Shooting

7260 Trapping

7300 Flying or air-related sports

7400 Water sports and related leisure activities

7410 Boating, sailing, etc.

7420 Canoeing, kayaking, etc.

7430 Swimming, diving, etc.

Includes activities associated with lifeguard services and other related activities.

7440 Fishing, angling, etc.

7450 Scuba diving, snorkeling, etc.

7460 Water-skiing

8000 Natural resources-related activities

8100 Farming, tilling, plowing, harvesting, or related activities

Agricultural activities, such as farming, plowing, tilling, cropping, seeding, cultivating, and harvesting for the production of food and fiber products. Also includes sod production, nurseries, orchards, and Christmas tree plantations. Excludes forest logging and timber-harvesting operations.

8200 Livestock related activities

Activities associated with feeding and raising of livestock in pens and confined structures.

8300 Pasturing, grazing, etc.

Activities normally associated with feeding and grazing in open ranges.

8400	Logging	Activities normally associated with forestry.
8500	Quarrying or stone cutting	Includes activities normally associated with borrow pits.
8600	Mining including surface and subsurface strip mining	Includes crushing, screening, washing, and flotation activities. Beneficiating is another common term used to describe such activities.
8700	Drilling, dredging, etc.	Includes activities normally associated with on and off-shore drilling for oil and natural gas operations, dredging for beach control, expanding waterways, and cleaning of canals or channels.
9000	No human activity or unclassifiable activity	May also be used as a placeholder for areas of no habitation (desert areas, for example).
9100	Not applicable to this dimension	Use this code as a permanent code for those records that will never be classified in this dimension. It is normal for land-use databases to have records that may never be classified and be left blank instead. But LBCS recommends that all records have a code because some computer applications may not be able handle blank entries (null values in database terminology).
9200	Unclassifiable activity	Use this category as a temporary placeholder for activities that cannot be grouped anywhere until the classification scheme is updated. Check the LBCS web site to see how others have dealt with such unique activities before revising the classification scheme.
9300	Subsurface activity	Use this category for activities that occur below the surface that are of no interest to the applications that will use this data set and assigning one of the unknown categories may be inappropriate.
9900	To be determined	Use this code as a placeholder until an appropriate code can be assigned. It is normal for land-use databases to have records that may never be classified and left blank instead. But LBCS recommends that all records have a code because some computer applications may not be able handle blank entries (null values in database terminology). This code could also be used as the default value for data-entry work. The subcategories serve the same purpose for other coding levels.

9990	To be determined
9999	To be determined

Land-Based Classification Standards

LBCS Function Dimension

Function is one of five dimensions in land-based classifications. Each dimension is an attribute that takes the appropriate four-digit code. Only by using all five dimensions can one fully represent all land uses and describe their characteristics. See the other dimensions before applying LBCS.

Function Code	Function Description	01-Apr-2001
1000	Residence or accommodation functions	
1100	Private household	
1200	Housing services for the elderly	
1210	Retirement housing services	
1220	Congregate living services	
1230	Assisted-living services	
1240	Life care or continuing care services	
1250	Skilled-nursing services	
1300	Hotels, motels, or other accommodation services	
1310	Bed and breakfast inn	
1320	Rooming and boarding	
1330	Hotel, motel, or tourist court	
1340	Casino hotel	
2000	General sales or services	
2100	Retail sales or service	
2110	Automobile sales or service establishment	
2111	Car dealer	
2112	Bus, truck, mobile homes, or large vehicles	
2113	Bicycle, motorcycle, ATV, etc.	
2114	Boat or marine craft dealer	
2115	Parts, accessories, or tires	
2116	Gasoline service	
2120	Heavy consumer goods sales or service	
2121	Furniture or home furnishings	
2122	Hardware, home centers, etc.	
2123	Lawn and garden supplies	
2124	Department store, warehouse club or superstore	
2125	Electronics and Appliances	
2126	Lumber yard and building materials	
2127	Heating and plumbing equipment	
2130	Durable consumer goods sales and service	
2131	Computer and software	
2132	Camera and photographic supplies	
2133	Clothing, jewelry, luggage, shoes, etc.	
2134	Sporting goods, toy and hobby, and musical instruments	
2135	Books, magazines, music, stationery	
2140	Consumer goods, other	

Function Code Function Description

01-Apr-2001

2141	Florist
2142	Art dealers, supplies, sales and service
2143	Tobacco or tobacconist establishment
2144	Mail order or direct selling establishment
2145	Antique shops, flea markets, etc.
2150	Grocery, food, beverage, dairy, etc.
2151	Grocery store, supermarket, or bakery
2152	Convenience store
2153	Specialty food store
2154	Fruit and vegetable store
2155	Beer, wine, and liquor store
2160	Health and personal care
2161	Pharmacy or drug store
2162	Cosmetic and beauty supplies
2163	Optical
2200	Finance and Insurance
2210	Bank, credit union, or savings institution
2220	Credit and finance establishment
2230	Investment banking, securities, and brokerages
2240	Insurance-related establishment
2250	Fund, trust, or other financial establishment
2300	Real estate, and rental and leasing
2310	Real estate services
2320	Property management services
2321	Commercial property-related
2322	Rental housing-related
2330	Rental and leasing
2331	Cars
2332	Leasing trucks, trailers, RVs, etc.
2333	Recreational goods rental
2334	Leasing commercial, industrial machinery, and equipment
2335	Consumer goods rental
2336	Intellectual property rental (video, music, software, etc.)
2400	Business, professional, scientific, and technical services
2410	Professional services
2411	Legal services
2412	Accounting, tax, bookkeeping, payroll services
2413	Architectural, engineering, and related services
2414	Graphic, industrial, interior design services
2415	Consulting services (management, environmental, etc.)
2416	Research and development services (scientific, etc.)
2417	Advertising, media, and photography services
2418	Veterinary services
2420	Administrative services
2421	Office and administrative services

2422	Facilities support services
2423	Employment agency
2424	Business support services
2425	Collection agency
2430	Travel arrangement and reservation services
2440	Investigation and security services
2450	Services to buildings and dwellings
2451	Extermination and pest control
2452	Janitorial
2453	Landscaping
2454	Carpet and upholstery cleaning
2455	Packing, crating, and convention and trade show services
2500	Food services
2510	Full-service restaurant
2520	Cafeteria or limited service restaurant
2530	Snack or nonalcoholic bar
2540	Bar or drinking place
2550	Mobile food services
2560	Caterer
2570	Food service contractor
2580	Vending machine operator
2600	Personal services
2700	Pet and animal sales or service (except veterinary)
2710	Pet or pet supply store
2720	Animal and pet services
3000	Manufacturing and wholesale trade
3100	Food, textiles, and related products
3110	Food and beverages
3120	Tobacco manufacturing establishments
3130	Textiles
3140	Leather and allied products
3200	Wood, paper, and printing products
3210	Wood products establishments
3220	Paper and printing materials
3230	Furniture and related products
3300	Chemicals, and metals, machinery, and electronics manufacturing
3310	Petroleum and coal products
3320	Chemicals, plastics, and rubber products
3330	Nonmetallic mineral products
3340	Primary metal manufacturing
3350	Machinery manufacturing
3360	Electrical equipment, appliance, and components manufacturing
3370	Transportation equipment, automobiles, etc.
3400	Miscellaneous manufacturing
3410	Jewelry and silverware

Function Code Function Description

3+20	Dolls, toys, games, and musical instruments
3+30	Office supplies, inks, etc.
3+40	Signs
3500	Wholesale trade establishment
3510	Durable goods
3520	Nondurable goods
3600	Warehouse and storage services
4000	Transportation, communication, information, and utilities
4100	Transportation services
4110	Air transportation
4111	Air passenger transportation
4112	Air freight transportation
4113	Airport and support establishment
4114	Aircraft and accessories
4115	Other air transportation (including scenic, balloon, etc.)
4120	Rail transportation
4121	Rail passenger transportation
4122	Rail freight transportation
4123	Rail transportation support establishment
4130	Road, ground passenger, and transit transportation
4131	Local transit systems--mixed mode
4132	Local transit systems--commuter rail
4133	Local transit systems--bus, special needs, and other motor vehicles
4134	Interurban, charter bus, and other similar establishments
4135	School and employee bus transportation
4136	Special purpose transit transportation (including scenic, sightseeing, etc.)
4137	Taxi and limousine service
4138	Towing and other road and ground services
4140	Truck and freight transportation services
4141	General freight trucking, local
4142	General freight trucking, long-distance
4143	Freight trucking, specialized (used household and office goods)
4144	Freight trucking, specialized (except used goods)
4150	Marine and water transportation
4151	Marine passenger transportation
4152	Marine freight transportation
4153	Marine port and harbor operations
4154	Marine cargo handling and dry dock services
4155	Marine navigational and other services
4160	Courier and messenger services
4170	Postal services
4180	Pipeline transportation
4200	Communications and information
4210	Publishing
4211	Newspapers, books, periodicals, etc.

Function

4212	Software publisher
4220	Motion pictures and sound recording
4221	Motion Picture and video production, publishing, and distribution
4222	Motion picture viewing and exhibition services
4223	Sound recording, production, publishing, and distribution
4230	Telecommunications and broadcasting
4231	Radio and television broadcasting
4232	Cable networks and distribution
4233	Wireless telecommunications
4234	Telephone and other wired telecommunications
4240	Information services and data processing industries
4241	Online information services
4242	Libraries and archives
4243	News syndicate
4300	Utilities and utility services
4310	Electric power
4311	Hydroelectric
4312	Fossil
4313	Nuclear
4314	Alternative energy sources
4320	Natural gas, petroleum, fuels, etc.
4330	Water, steam, air conditioning supply
4331	Drinking water
4332	Irrigation and industrial water supply
4333	Air conditioning and steam supply
4340	Sewer, solid waste, and related services
4341	Hazardous waste collection
4342	Hazardous waste treatment and disposal
4343	Solid waste collection
4344	Solid waste combustor or incinerator
4345	Solid waste landfill
4346	Waste treatment and disposal
4347	Septic tank and related services
5000	Arts, entertainment, and recreation
5100	Performing arts or supporting establishment
5110	Theater, dance, or music establishment
5120	Sports team or club
5130	Racetrack establishment
5140	Promoter of performing arts, sports, and similar events
5150	Agent for management services
5160	Independent artist, writer, or performer
5200	Museums and other special purpose recreational institutions
5210	Museum
5220	Historical or archeological institution
5230	Zoos, botanical gardens, arborea, etc.

Function Code Function Description

5300	Amusement, sports, or recreation establishment
5310	Amusement or theme park establishment
5320	Games arcade establishment
5330	Casino or gambling establishment
5340	Miniature golf establishment
5350	Skiing
5360	Marina or yachting club facility operators
5370	Fitness, recreational sports, gym, or athletic club,
5380	Bowling, billiards, pool, etc.
5390	Skating rinks, roller skates, etc.
5400	Camps, camping, and related establishments
5500	Natural and other recreational parks
6000	Education, public admin, health care, and other inst.
6100	Educational services
6110	Nursery and preschool
6120	Grade schools
6121	Elementary
6122	Middle
6123	Senior
6124	Continuance
6125	Alternate education services
6126	Adult education services
6130	Colleges and Universities
6140	Technical, trade, and other specialty schools
6141	Beauty schools
6142	Business management
6143	Computer training
6144	Driving education
6145	Fine and performing arts education
6146	Flight training
6147	Sports and recreation education
6200	Public administration
6210	Legislative and executive functions
6220	Judicial functions
6221	Courts
6222	Correctional institutions
6300	Other government functions
6310	Military and national security
6320	Space research and technology
6400	Public Safety
6410	Fire and rescue
6420	Police
6430	Emergency response
6500	Health and human services
6510	Ambulatory or outpatient care services

6511	Clinics
6512	Family planning and outpatient care centers
6513	Medical and diagnostic laboratories
6514	Blood and organ banks
6520	Nursing, supervision, and other rehabilitative services
6530	Hospital
6560	Social assistance, welfare, and charitable services
6561	Child and youth services
6562	Child day care
6563	Community food services
6564	Emergency and relief services
6565	Other family services
6566	Services for elderly and disabled
6567	Veterans affairs
6568	Vocational rehabilitation
6600	Religious institutions
6700	Death care services
6710	Funeral homes and services
6720	Cremation services and cemeteries
6800	Associations, nonprofit organizations, etc.
6810	Labor and political organizations
6820	Business associations and professional membership organizations
6830	Civic, social, and fraternal organizations
7000	Construction-related businesses
7100	Building, developing, and general contracting
7110	Residential construction
7120	Land development and subdivision
7130	Industrial, commercial and institutional building construction
7200	Machinery related
7210	Building equipment and machinery installation contractors
7220	Excavation contractor
7230	Water well drilling contractor
7240	Wrecking and demolition establishments
7250	Structural steel erection contractor
7300	Special trade contractor
7310	Carpentry, floor, and tile contractor
7320	Concrete contractor
7330	Electrical contractor
7340	Glass and glazing contractor
7350	Masonry and drywall contractors
7360	Painting and wall covering
7370	Plumbing, heating, and air-conditioning
7380	Roofing, siding, and sheet metal contractors
7400	Heavy construction
7410	Highway and street construction;

Function Code Function Description

7420	Bridge and tunnel construction
7430	Water, sewer, and pipeline construction
7440	Power lines, communication and transmission lines
7450	Industrial and other nonbuilding construction
8000	Mining and extraction establishments
8100	Oil and natural gas
8200	Metals (iron, copper, etc.)
8300	Coal
8400	Nonmetallic mining
8500	Quarrying and stone cutting establishments
9000	Agriculture, forestry, fishing and hunting
9100	Crop production
9110	Grain and oilseed
9111	Wheat
9112	Corn
9113	Rice
9114	Soybean and oilseed
9115	Dry pea and bean
9120	Vegetable farming or growing services
9130	Fruits and trees
9140	Greenhouse, nursery, and floriculture
9141	Food crops grown under cover
9142	Nursery and tree production
9143	Floriculture production
9150	All other crops
9151	Tobacco crop
9152	Cotton crop
9153	Sugarcane crop
9154	Hay
9155	Peanut crop
9200	Support functions for agriculture
9210	Farm and farm labor management services
9220	Spraying, dusting, and other related services
9230	Crop harvesting and post harvest crop activities (including drying, siloing, etc.)
9240	Cotton ginning, gins, etc.
9300	Animal production including slaughter
9310	Cattle ranch and crops
9311	Beef cattle ranch establishments
9312	Cattle feedlot establishment
9320	Dairy cattle and milk production
9330	Hog and pig farm
9340	Poultry and egg production and hatcheries
9350	Sheep and goat farming establishments
9360	Fish hatcheries, fisheries, and aquaculture
9370	All other animal production

Function

Function Code Function Description

9371	Apiculture (bees, wax, and related operations)
9372	Horse and equine production
9373	Fur-bearing animal production
9380	Support functions for animal production
9400	Forestry and Logging
9410	Logging
9420	Forest nurseries
9430	Support functions for forestry
9500	Fishing, hunting and trapping, game preserves
9510	Fishing
9520	Hunting and trapping, game retreats, game and fishing preserves
9900	Unclassifiable function
9910	Not applicable to this dimension
9990	To be determined
9999	To be determined

01-Apr-2001

Land-Based Classification Standards

LBCS Function Dimension with Detail Descriptions

Function is one of five dimensions in land-based classifications. Each dimension is an attribute that takes the appropriate four-digit code. Only by using all five dimensions can one fully represent all land uses and describe their characteristics. See the other dimensions before applying LBCS.

Activity An observable characteristic of land based on actual use.

Activity refers to the actual use of land based on its observable characteristics. It describes what actually takes place in physical or observable terms (e.g., farming, shopping, manufacturing, vehicular movement, etc.). An office activity, for example, refers only to the physical activity on the premises, which could apply equally to a law firm, a nonprofit institution, a court house, a corporate office, or any other office use. Similarly, residential uses in single-family dwellings, multifamily structures, manufactured houses, or any other type of building, would all be classified as residential activity.

Function The economic use or type of establishment using the land.

Function refers to the economic function or type of establishment using the land. Every land-use can be characterized by the type of establishment it serves. Land-use terms, such as agricultural, commercial, industrial, relate to the type of economic function served by the land-use gets classified in this dimension; it is independent of actual activity on the land. Establishments can have a variety of activities on their premises, yet serve a single function. For example, two parcels are said to be in the same functional category if they serve the same establishment, even if one is an office building and the other is a factory.

Structure Type of structure or building type on the land.

Structure refers to the type of structure or building on the land. Land-use terms embody a structural or building characteristic, which indicates the utility of the space (in a building) or land (when there is no building). Land-use terms, such as single-family house, office building, warehouse, hospital building, highway, also describe structural characteristics. Although many activities and functions are closely associated with certain structures, it is not always so. Many buildings are often adapted for uses other than its original use. For instance, a single-family residential structure may be used as an office.

Site The overall physical site development character of the land.

Site development character refers to the overall physical development character of the land. It describes "what is on the land" in general physical terms. For most land uses, it is simply expressed in terms of whether the site is developed or not. But not all sites without observable development can be treated as undeveloped. Land uses, such as parks and open spaces, which often have a complex mix of activities, functions, and structures on them, need categories independent of other dimensions. This dimension uses categories that describe the overall site development characteristics.

Ownership Legal and quasi-legal ownership constraints of the land.

Ownership refers to the relationship between the use and its land rights. Since the function of most land uses is either public or private and not both, distinguishing ownership characteristics seems obvious. However, relying solely on the functional character may obscure such uses as private parks, public theaters, private stadiums, private prisons, and mixed public and private ownership. Moreover, easements and similar legal devices also limit or constrain land-use activities and functions. This dimension allows classifying such ownership characteristics more accurately.

Function Code Function Description

01-Apr-2001

1000 Residence or accommodation functions

This top-level category comprises all establishments offering residence or accommodation, such as homes, apartments, housing for the elderly, and hotels. Note that leased service departments (e.g. a grocery store in an apartment building) are usually considered separate establishments and should be classified separately in your database. See the detailed function dimension description for information on classifying leased service departments.

1100 Private household

This category comprises all households except those with special provisions, as for the elderly, disabled, or those with subsidized congregate living arrangements. Individually owned residences as well as residences owned by rental or management companies are included. Establishments in this category include apartments, condominiums, mobile homes, townhouses, etc. The vast majority of residential uses fall in this category. Use this category as the default for quickly coding large residential areas.

1200 Housing services for the elderly

Establishments in this category offer a wide range of housing services for those who cannot care for themselves, such as the elderly. These establishments have primarily evolved from two service areas: housing and custodial care. Housing service establishments provide some personal care services; likewise, custodial care establishments provide certain kinds of housing services. The variety of choices available now range from simple services offered in one's house to advanced 24-hour personal care and health services, which are typically common in hospital care services. Many establishments in this category also offer a menu of services to choose from. The subcategories reflect four common patterns of housing for the elderly and relate to the level of the dependence on the care provider.

1210 Retirement housing services

These establishments offer minimal convenience services but focus on attracting elderly residents so as to provide a social support system among the residents.

1220 Congregate living services

Funded through the 1978 Congregate Housing Services Act, many of these establishments serve meals and other services in low-income and federally subsidized housing. Now, many establishments provide such services to other non-subsidized housing facilities. Services include housekeeping, laundry, transportation, recreational programs, and other convenience services.

1230 Assisted-living services

These services are provided by board-and-care establishments, such as adult foster care homes and adult care group homes. Services include daily activities assistance, such as dressing, grooming, bathing, etc. These establishments may be located in single-family homes and share the house with the care provider's family.

Function